

# Article

# Integrating “Neoliberal-Turn” and “Social-Turn” Constructs in Examining Sustainable Development and Happiness and Life Satisfaction: A Global-, Country Cluster-, and Country-Level Study

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**Abstract:** This study explores several global and country cluster sustainable development (herein SD) models. It jointly examines constructs from the “Neoliberal-turn” ((e.g., Institutional Enhancers (e.g., business freedom, property rights, government integrity, and judicial effectiveness), Financial Enhancers (e.g., government spending and monetary, trade, investment, and financial freedoms), Foreign Direct Investment, Global Competitiveness-institutions, and Global Competitiveness-innovation-sophistication)), the “Social-turn” (five SD pillars (e.g., Planet, People, Peace, Prosperity, and Resources), which synthesize the 17 United Nations SD goals), and Happiness and Life Satisfaction (herein H&LS). This study examines a large and diverse set of relationships encompassing 11 years of data of 108 social, economic, and environmental indicators from 125 countries at the global, country cluster, and country levels. We analyze data using structural equation modeling. Remarkably, Planet, an SD pillar constituted by biophysical variables, is the least of the five SD pillars positively related to the “neoliberal-turn” constructs and H&LS. The results show model configurations and scale effects. Furthermore, the findings reveal both synergies between neoliberal and the five SD pillars, as well as both negative and nonsignificant relationships among them. The diversity of the results calls for further model integration and specificity. The diverse findings entail caution and difficulties in generalizing knowledge. Similarly, the results suggest that it is not advisable, since there may be many different and partly legitimate alternatives, to rely on just one perspective (e.g., giving primacy to economic-based analyses) and/or in analyses at only one scale. The perspective effects and the stakes involved in SD urgently call for more collaborative efforts at all levels.

**Keywords:** social turn models; sustainable development pillars; neoliberal turn constructs; model configurations; collaborative perspective; global; cluster; country-level analyses



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## 1. Introduction

Many decades of failed socioeconomic development in most countries have prompted questioning of the dominant narratives [1–3]. However, critiques of national development, mostly from social perspectives, have existed for centuries. Examples include, among others, Marxism, the French revolution, Russia’s October revolution, other social revolutions for independence or other reasons, and social movements such as antiglobalization, indigenism, environmentalism, civil rights, and feminism. Most of these movements highlight(ed) socioeconomic deficits. It is historically relatively recent that the environmental dimension has been added to the discussion.

Growing concerns about the state and dynamics of the biophysical environment have steered many development discussions [4,5]. However, while the biophysical realm is a crucial component of SD, the ultimate concern about (sustainable) development is human,

that is, the need to properly evolve, maintain, and enhance acceptable forms of human well-being in the medium and long term.

Different narratives have different powers, and diffuse and apply differentially [6]. One of the most influential national development narratives is the approach promoted since the 1980s by the OECD, the Bretton Woods institutions, and federal governments. This approach practically equates national development to the economic dimension. It focuses on technological innovation, “free” trade, competitiveness, foreign direct investment (herein FDI), and institutional voids [7–9]. The Washington consensus was/is one of the most notorious operationalizations of such an approach to national development [7–9]. Partial rhetorical discredit of the neoliberal turn in the last few decades [9] derives from the lack of understanding of the limitations of markets, improper consideration of earth’s maintenance and life-giving functions of multiple ecosystems, its focus on a limited (mainly economic) set of factors, the disregard for both countries’ specificity and power and resource asymmetries, as well as lack of consideration of external pressures and limitations imposed by the dominant economic system, particularly for less developed countries [1,9].

While quite complex and challenging, national and global development’s multidimensionality offers manifold “starting” points, idiosyncratic effects, and substantial room for maneuvering; thus, there may be a vast set of conceptualizations and operationalizations of national, regional, and global SD. Such diversity includes, among others, different: factors considered, relationships, dynamic and static approaches, ideological orientations, degrees of familiarity and novelty, perceptions, meanings, agents’ interactions, leadership approaches, institutions, and power relations [1,10]. However, since we are jointly always making society and nature (Latour, 1992) [11], we urgently need to formulate and operationalize different model configurations reflecting collaboratively worked out problems, globally circumscribed, to strengthen national, regional, and global development systems’ ability to evolve [12] “appropriately”.

In recent decades, numerous sets of models, both static and dynamic, from both the natural and social sciences, have increasingly integrated social, economic, and environmental dimensions [5,13–15]. However, it seems strange that the social dimension has been somewhat “forgotten and/or sidelined”, having been the first and undoubtedly the most critical development dimension. The main problem has been, and still is, the dominant conceptualization of national development. A fundamental deficit has been the degree to which the issues of sustainable development, circumscribed in a global framework, are collaboratively constructed, or otherwise, by different actors.

Although the neoliberal turn is still present in development research and policy studies [9], its shortcomings have prompted increased attention to the “Social-turn” [16,17]. This approach to national development encompasses multiple dimensions and a diverse and variant set of model configurations [18]. The “Social turn” incorporates past and present expectations about social equality and justice and a diverse set of multidimensional conceptualizations of (sustainable) development. The multidimensionality of sustainability requires considering a diversity of perspectives. Furthermore, the set of development choices is circumscribed by realities expressed in (a) a (large) number of indicators (e.g., indicators manifesting, in different degrees, the current state of development in different countries) and (b) established complex socioecological processes, generating such indicators. Some of these processes may include biophysical limits (e.g., the desirability to reduce further degrading the natural environment to avoid reaching tipping points) and development constraints, particularly for developing countries, deriving from the need to operate in accordance with the global socioeconomic system.

Given the complexity of sustainable development, there is no a priori “right model”; in practice, model purpose and its corresponding configuration needs to be determined collaboratively. As a result, we examined a diverse set of models. Since the ultimate purpose of sustainable development is human, we integrate “Neoliberal turn” and “Social turn” constructs, given due consideration to environmental, social, and economic constructs.

The purpose of this study is to explore several global and country cluster SD models integrating constructs from both the “Neoliberal turn”, which emphasize the economic dimension, and the “Social turn”, which consider social, environmental, and economic dimensions. However, in this paper, we termed “Social turn” all models examined because they integrate the three key dimensions of sustainable development. Thus, our models include different configurations of social, economic, and environmental dimensions. We jointly examine constructs from the “Neoliberal-turn” (e.g., Institutional Enhancers (e.g., business freedom, property rights, government integrity, and judicial effectiveness), Financial Enhancers (e.g., government spending and monetary, trade, investment, and financial freedoms), FDI, Global Competitiveness-institutions (herein GC-Ins), and Global Competitiveness-innovation-sophistication (herein GC-InnS)), and more socially oriented constructs such as the five SD pillars (e.g., Planet, People, Peace, Prosperity, and Resources), which synthesize the 17 United Nations (herein U.N.) SD goals, and H&LS. We termed as “Social turn-1” the models in which the “Neoliberal-turn” constructs antecede the five SD pillars, whereas those in which the five SD pillars antecede the “Neoliberal-turn” constructs, we termed “Social turn-2”. Theoretically, we draw from a critique of one-dimensional science [11], as well as from the concept of postnormal science [10] and the notion of an evolving parallax [3]. In examining various model configurations, we seek to contribute to the SD conversation.

This research makes several contributions. First, it explores unique model operationalizations, including six constructs from the “Neoliberal-turn” and five SD pillars, highlighting the “Social turn”, which summarize the 17 United Nations (herein U.N.) SD goals, as well as H&LS. It examines a diverse set of relationships encompassing a large set of multilevel social, economic, and environmental indicators at the global, country cluster, and country levels. Our analyses use 11 years of data (2007–2017) of 108 indicators from 125 countries. Second, our results show model configurations and scale effects. Findings show both synergies between neoliberal and the five SD pillars, as well as both negative and nonsignificant relationships among them. The diversity of results calls for further model integration and specificity. Diverse findings entail caution and difficulties in generalizing knowledge. The perspective effects and the stakes involved in SD urgently call for more collaborative efforts at all levels. Third, the findings indicate that the different model configurations and levels examined may produce different results reaffirming the need for model specificity. At the same time, SD requires specific models consistent with desirable global results (e.g., ensuring that socioeconomic activities are carried out at well-below tipping points). Finally, these findings suggest that it is not advisable, since there may be many different and legitimate alternatives, to rely on just one perspective or on one scale (e.g., giving primacy to the economic dimension), highlighting the need for collaboratively constructed perspectives and/or analyses at multiple scales.

Overall, the results suggest that the “neoliberal turn” constructs and the five SD pillars are critical in the “Social-turn” models studied. Remarkably, Planet, a pillar constituted by biophysical variables, is the least of the five SD pillars positively related to the “neoliberal-turn” constructs and H&LS. Although some construct relationships are either negative or insignificant, perhaps manifesting a lack of SD, given the nature of the constructs and sustainability’s multidimensionality, all model constructs are essential constituents of national, country cluster, and global sustainability models. In addition, there are scales—global, country cluster, and national effects. The stakes involved in global, regional, and national SD, and the perspective effects expressed either in different scales, models, and/or model configurations, call for urgently increasing collaborative SD efforts at all levels.

## 2. Literature Review and Hypotheses Development

### 2.1. Briefing on National Development Models

The purpose of this section is to situate our approach, that is, the set of “Social-turn” models used in this study. Our models reflect the increasing confluence of economic, environmental, and social models that have been taking place lately. The briefing below

provides an account of some key development models used in the past and the present, and gives a justification of our models.

Although models simplify reality, different models address different questions and may provide different answers for different uses. The diversity of model configurations illustrates knowledge incompleteness, and suggests the need to achieve multiple further integrations. Thus, development complexity and model diversity derived from different perspectives call for “properly” situating model use. The expectation is that models with well-established functional relationships will properly depict realities of interest. Fulfilling such expectations and greater transparency is crucial if models are to help steer well-informed discussions about development, because models’ perspectives are reflected in their policy recommendations. However, SD multiplicities may involve functional relationships and model configurations that are not well-defined and that need to be determined collaboratively.

The evolution of development models has partly responded, similarly to the change of paradigms [19], to the limitations of a given (dominant) model. Thus, new models suggest potentially more explanatory and legitimate approaches than previous ones. However, incorporating additional factors/variables, processes, and insights has been, probably due to power asymmetry effects, relatively slow, narrow, and still far from the realities of most individuals and collectives. The current state of affairs results, *inter alia*, from the dominance of national development models based on neoclassical economics.

Country and world dominant development models include, among others, the Harrod–Domar growth model, which considers labor and (economic) capital, emphasizing investing savings for capital growth [20]. After that, focuses on aid, FDI, liberalization, and development of financial markets expanded the potential capital options. Subsequently, Solow’s model highlights the role of technology, in addition to labor and economic capital [21]. Such a model has been the dominant economic model globally for decades. Later, the Washington consensus added the focus on policy reforms, including, among others, fiscal, tax, trade, state spending, exchange rates, and interest rates [22]. Although necessary for a country’s functioning, these policy reforms were introduced from the outside. They disregarded country differences in “starting development” points and the fact that every country has specific development “models” that may be appropriate in particular times and spaces. As a follow-up to the Washington consensus, the next stage of development models focused on institutions [23,24]. Again, in addition to expectations of changing the economic dimension, institutionalism prescribes filling institutional voids (e.g., the rule of law, property rights, and developed capital markets). Although developed institutions are crucial for development, this approach needs to consider history, culture, power, and the types, and quality, of countries’ comprehensive internal and external socioecological dynamics [1,25]. Likewise, all of these models focus on the production of economic capital, not on its distribution, assuming rationality throughout, and that actors respond rapidly to new conditions [26].

The development models sketched above have been generalized, recommended, and tried, at different times and degrees, all over the world because, among other things, classical economists have been very influential in shaping national policies in most countries. Unfortunately, the country success stories following these models are very few (e.g., South Korea, Singapore).

In addition to discussions about which factors/constructs to include (e.g., simplistic formulations in which many important variables are missing) and the functional relationships that should constitute such models, analytically/numerically, most models cannot justify assumptions of homogeneity, stability, invariance, independence, and additivity vis-a-vis the potential complexity of socioecological realities [27]. However, models’ numerical and/or analytical problems are bound to be secondary vis-a-vis the complexities of perspectives, stakes, and dynamics that need to be considered in the immensely complex problem of global, regional, and national development [10].

Given development complexity, there is an infinite set of alternative formulations and operationalizations. A common triad of SD dimensions includes the economic, social, and environmental ones. A key challenge in development studies is to strike interesting and compelling balances and levels of detail, both within and among such dimensions. Our study attempts to follow such a path.

Multivariate, econometric, and integrated assessment models are commonly used in development studies. However, national and global development includes many functional relationships that are not well-known but could be estimated using structural equation models. In addition, structural equation models may encompass an extensive set of nested relationships allowing the consideration of multiple levels and a vast set of variables. Furthermore, structural equation models are increasingly used to examine a diverse set of sustainability problems within and between organizations [28,29]. Thus, structural equation models may add to the insights generated by other model types. Our analyses use structural equation modeling.

The dominant national development model of the last few years has encompassed Economic Enhancers (e.g., government spending and monetary, trade, investment, and financial freedoms), Institutional Enhancers (e.g., business freedom, property rights, government integrity, and judicial effectiveness), FDI, Global Competitiveness (herein GC), and economic growth [1,25,30] constituting the “Neoliberal-turn” approach. However, in addition to these “Neoliberal-turn” constructs, our “Social-turn” approach also includes five SD pillars that synthesize the 17 U.N. SD goals, as well as H&LS. Our study examines multiple relationships involving a set of 108 socioecological indicators of 125 countries.

Drawing from [4], the U.N. 17 SD goals are grouped into five pillars (People, Prosperity, Peace, Planet, and Resources) under three dimensions: economic dimension (Prosperity), social dimensions (People and Peace), and environmental dimensions (Planet and Resources) (Appendix A).

Since development constructs usually exist at the same time, they may be intercorrelated, and relationships may be bidirectional or multidirectional, we constructed two contrasting sets of models: the “Social-turn 1” and the “Social-turn 2” models. The “Social-turn 1” model considers GC-Ins, GC-InnS, FDI inflow (herein FDII), FDI outflow (herein FDIO), Financial Enhancers, and Institutional Enhancers as antecedents of People, Prosperity, Planet, Resources, and Peace. In contrast, the “Social-turn 2” model examines People, Prosperity, Planet, Resources, and Peace as antecedents of GC, FDI, Financial Enhancers, and Institutional Enhancers (Figures 1–4).

Below, we provide briefings for each of the constructs constituting the “Social-turn 1” and the “Social-turn 2” models and their relationships. Further details about these constructs are provided in Section 3.

## 2.2. Global Competitiveness

GC is challenging to achieve since most countries worldwide struggle with slowing productivity, income inequality, rapidly changing societies, stagnating income growth, inward-looking governmental policies, and protectionist pressures [31,32]. Therefore, we analyzed GC with two main components, GC-Ins and GC-InnS. GC-Ins comprises five efficiency-driven pillars: goods market efficiency, labor market efficiency, financial market efficiency, technological readiness, and market size. GC-InnS includes two innovation-driven pillars: business sophistication and innovation.



Model: 4

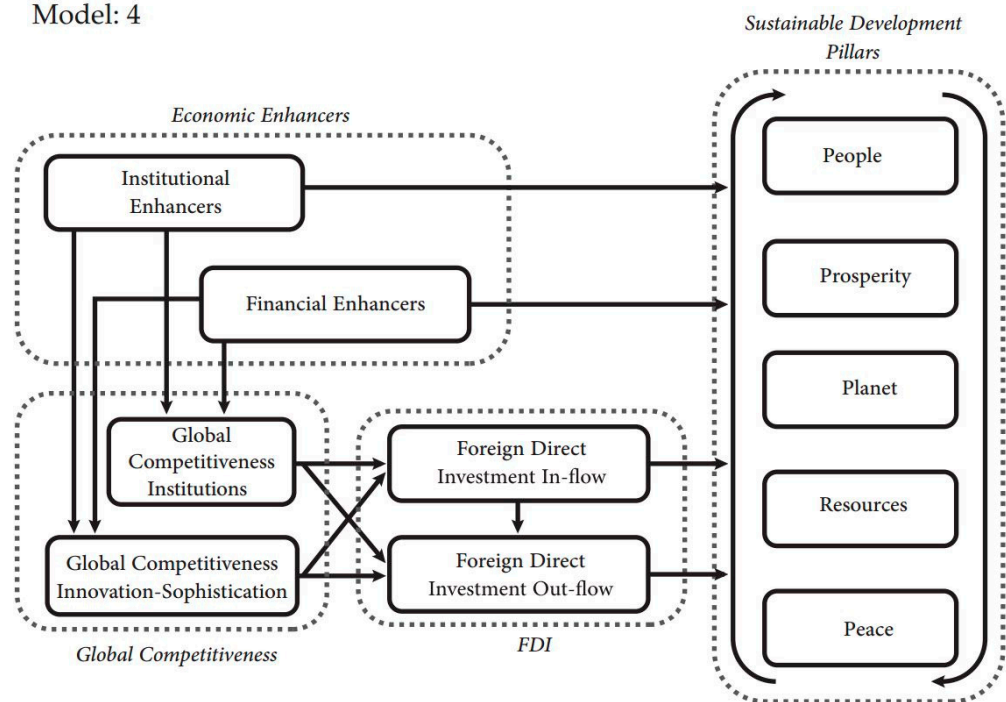


Figure 1. "Social-turn 1" conceptual model.

Model: 7

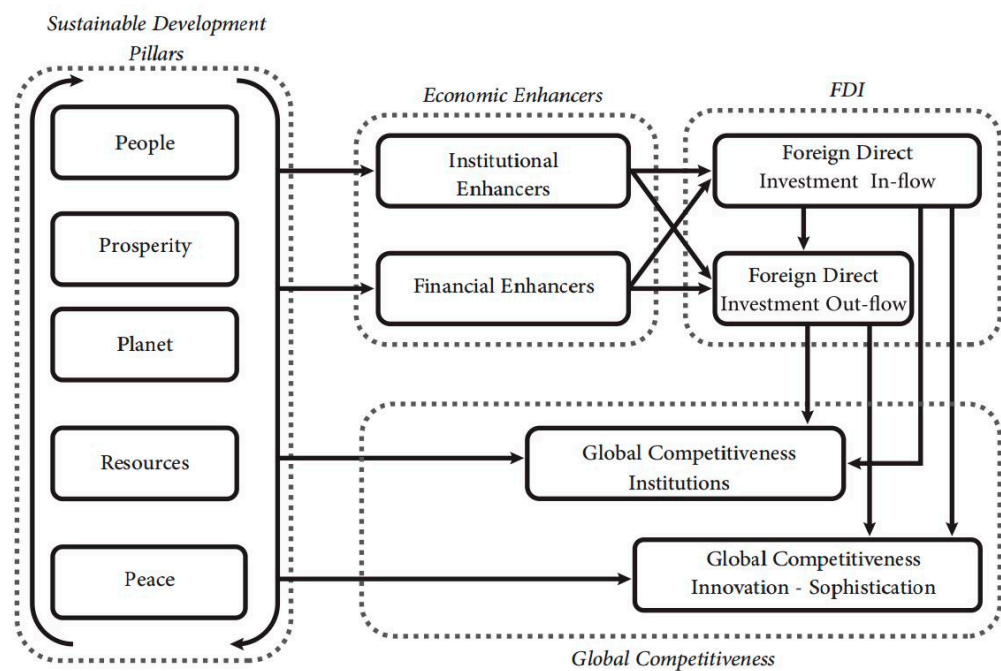


Figure 2. "Social-turn 2" conceptual model.

Model: 13

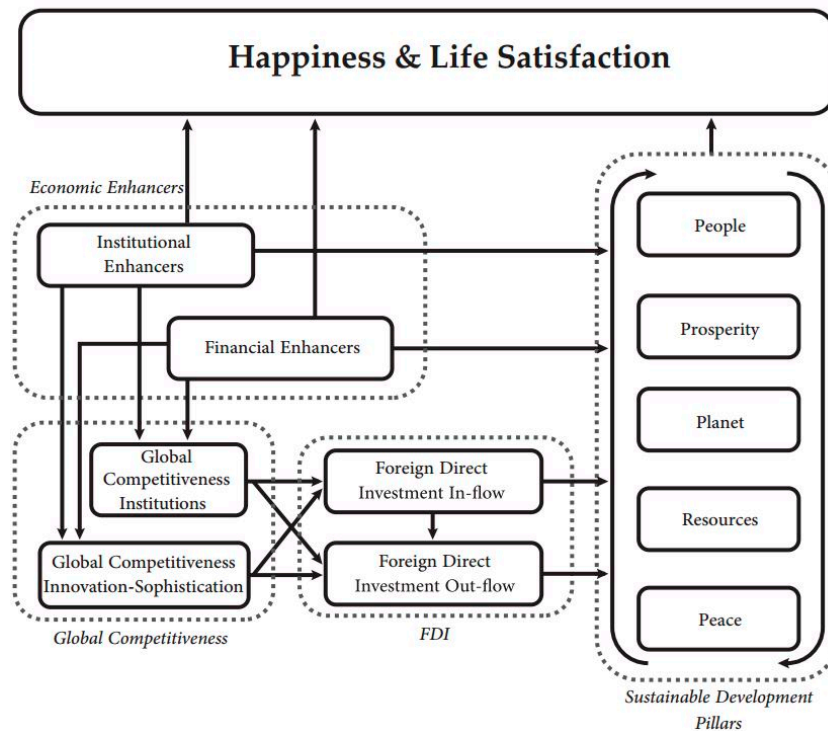


Figure 3. “Social-turn 1” model including H&amp;LS.

Model: 14

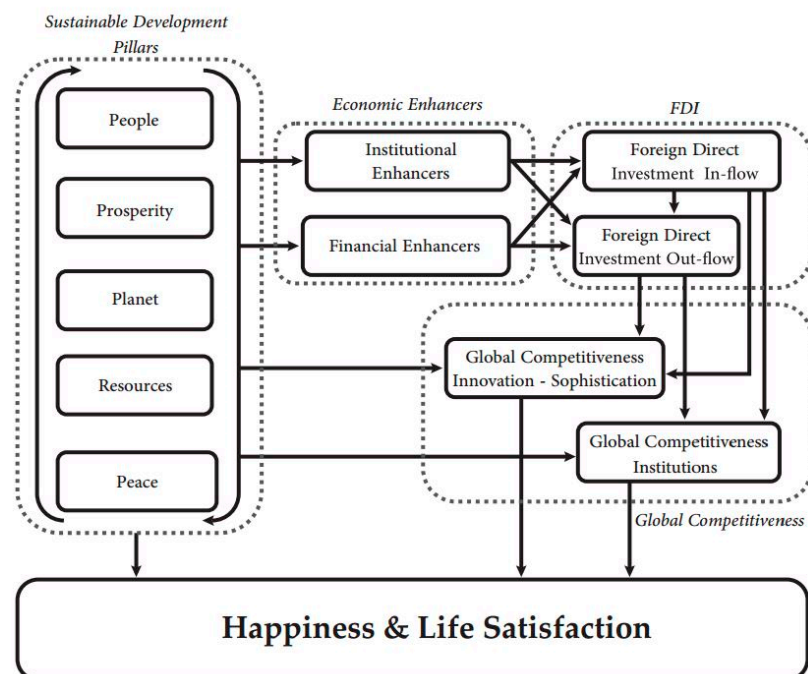


Figure 4. “Social-turn 2” model including H&amp;LS.

### 2.3. Sustainable Development

Interactions between the biophysical environment, economic conditions, and the social realm complexify national and global development problems. As noted above, multiple

development perspectives may encompass diverse factors, levels, dimensions, functional relationships, times, and spaces.

### 2.3.1. Economic Dimension

This dimension includes the Prosperity pillar.

- Prosperity

The economic dimension entails the distribution and allocation of limited resources [33,34]. Current and future effects of the economy on the natural environment are one of the critical questions related to whether societies could achieve SD or not. GDP, net savings, unemployment, research and development expenditures, inter alia, reflect and impact the economy and influence current and future SD [35–38]. Although economic activity is a primary culprit of ecological degradation, in the long term, sustainable economic strength could assist in creating balanced social–ecological dynamics.

### 2.3.2. Social Dimension

This dimension includes pillars: People and Peace.

- People

People are the core of SD. Improving wealth, gender equality, education, and health levels is one of the crucial components of SD [39,40].

- Peace

Peace results from and contributes to generating multiple development components. For example, institutional development, institutions' effectiveness, social trust, ethical behavior of citizens and corporations, and transparency in social relationships relate to crime, violence, terrorism, and economic activity and peace of mind, or lack of them [41–43].

### 2.3.3. Environmental Dimension

This dimension includes pillars: Planet and Resources.

- Planet

Environmentally-related problems such as CO<sub>2</sub> emissions, climate change, deforestation, and depletion and/or pollution of water resources are, among others, the consequences of the increasingly evolving demand for economic growth [44,45].

- Resources

Both environmental degradation and lack of resources reflected in poor nutrition of the populace and deficits in drinking water services and renewable energy exacerbate socioecological problems [46]. As such, the lack of efficient and effective access to resources limits not only the living conditions of humans, but also countries' productivity and the attainment of desirable socioecological goals.

## 2.4. Happiness and Life Satisfaction

Sustainability is ultimately a human concern. We may live to be happy and satisfied with life. Thus, it is essential to examine how our living conditions encompassing the natural environment and economic and social dimensions affect our H&LS [47,48].

H&LS is a subjective concept; therefore, it is difficult to measure. Individuals' answers to questions about H&LS may not mirror the "reality" of societies [49]. Furthermore, H&LS may vary regionally in the same country [50]. GDP positively correlates with H&LS [51]. However, since H&LS is multidimensional and diverse, regardless of the countries' income levels, they may have the same H&LS perceptions [52,53]. Similarly, differences in socioeconomic levels and demographic factors play a significant role in H&LS [53]. It is important to note that H&LS could also be an obstacle to progress toward SD. For example, comfortable and nice-looking suburban households may generate large



ecological footprints, and it may be difficult to renounce enjoying such happy living conditions.

## 2.5. Foreign Direct Investment

Over the past three decades, FDIs have been one of the most critical features of the global economy [54,55]. However, we should also be aware of FDI's "Hidden Aspects", such as crowding out effects, profit repatriation, uncontrolled wealth creation, changes in the fabric of the society, and depletion of domestic resources [56,57].

### 2.5.1. FDII

FDIIs may channel additional financial and knowledge-based assets to the home country [58–65]. Therefore, policies related to FDIIs are routinely considered beneficial for host governments [66,67].

The environment promoted by FDII may increase the competitiveness of domestic firms [68,69]. However, FDII could have positive or negative effects depending on the host country's governmental, economic, and political institutions and dynamics [70–76].

### 2.5.2. FDIO

Firms may search for new countries, seek markets and resources, and improve efficiency [77,78]. Similarly, governments may partially promote these strategic moves to increase exports and decrease trade deficits [79–81]. FDIO may have positive or negative results for firms and host and home countries depending on the internationalization mode, selected locations, and/or political, economic, and governmental environments of the host and home countries [82]. FDIO may or may not improve countries' GC [83,84].

### 2.5.3. FDII–FDIO Relationship

FDII's effects on FDIO vary depending on the country's development level [85,86]. According to investment development path theory, governments must first focus on increasing their FDII to reach a specific development state [87,88]. Subsequently, they could externally divert, in the form of FDIO, their expertise and capabilities, together with their networks, to seek new markets and resources [89,90].

When FDII's spillovers are utilized efficiently by government and firms, FDIO may increase [91–93]. On the other hand, FDII and FDIO may negatively associate depending on the country's governance and development [94–97]. National elites' genuine concern for the nation is the decisive factor in achieving FDII and/or FDIO positive or negative results for a given country.

## 2.6. Hypotheses

Figures 1–4 depict our main conceptual models.

According to the above literature synthesis, the interactions depicted in the "Social-turn 1" models among Institutional Enhancers, Financial Enhancers, GC-Ins, GC-InnS, FDII, and FDIO are expected to generate positive effects on SD pillars (People, Prosperity, Planet, Resources, and Peace) [72,98–101] (Appendix A Figure A1—Models 1–6). Therefore, we propose,

**Hypothesis 1a (H1a).** *GC pillars, Economic Enhancers, and FDI will positively relate to People, Prosperity, Planet, Resources, Peace, and H&LS.*

Alternatively, according to the "Social-turn 2" models, the People, Prosperity, Planet, Resources, and Peace pillars will antecede Institutional Enhancers, Financial Enhancers, GC-Ins, GC-InnS, FDIIs, and FDIOs (Appendix A Figure A2, Models 7–12). Therefore, we pose,

**Hypothesis 1b (H1b).** *People, Prosperity, Planet, Resources, and Peace will positively relate to GC pillars, Economic Enhancers, FDI, and H&LS.*

A key challenge in development studies is to strike engaging and effective balances and levels of detail, both within and among socioecological dimensions. Differences among construct relationships may reflect the effects of both the unit of analysis (e.g., global, country cluster, and country levels) and differences in model conceptualizations (e.g., “Social-turn 1” and “Social-turn 2” models); therefore, we hypothesize,

**Hypothesis 2 (H2).** *Construct relationships in the “Social-turn 1” and “Social-turn 2” models will differ at the global and country cluster levels.*

### 3. Method

#### 3.1. Measures Selection and Data Sources

Examining data from 125 countries with 108 social, environmental, and economic indicators entail balancing the number of countries studied, the number of data years included, and the data quality.

This study tests the set of models at the global level, country cluster, and country level. To have a reasonable comparison among country clusters, having enough countries for each cluster is necessary. Therefore, it requires as many countries as possible. Maximizing the number of countries per cluster also contributes to a large global sample of countries. Since sustainability ultimately requires a global scale, we made an effort to include as many countries as possible (125).

U.N. sustainable development goals (herein SDGs) include 232 indicators under 17 main goals [102]. However, such a set of indicators includes overlaps, and could be more convenient [4]. Furthermore, it is not easy to obtain complete data for a large set of countries (Table 1).

In selecting the indicators for each pillar, we examined the data availability of 144 SDG indicators from the [102] database and followed the criteria from [4]: (a) the indicators are relevant for society; (b) indicators need to be science-based; (c) longer-term view has to be included; (d) indicators need to be quantifiable to allow quantitative analysis; and (e) data need to be available for all countries and years. As a result, we use the five pillars of People and Peace (social), Prosperity (economic), and Resources and Planet (environment), which summarize the U.N. 17 SDGs [4] (Appendix A Table A1).

The Prosperity pillar includes indicators pertaining to SDGs 8, 9, 10, and 11, reflecting socioeconomic conditions: economic growth, employment, the functionality of the labor market, and different layers of the infrastructure. It is measured with six indicators. Example indicators are GDP per capita growth, the population percentage of individuals using the Internet, and adjusted net savings.

The People pillar includes indicators belonging to SDGs 1, 3, 4, and 5. The People pillar encompasses poverty, health, gender equality, and education indicators. It is measured with seven indicators. Example indicators are poverty headcount ratio, maternal mortality, and educational attainment.

The Peace pillar includes indicators pertaining to SDGs 16 and 17. They refer to safety, the inclusiveness of society and institutions, and their proper implementation [4]. It is measured with 19 indicators. Example indicators are intentional homicides, organized crime, and the reliability of police services.

The Planet pillar includes indicators of SDGs 13, 14, and 15. The pillar Planet encompasses the condition of the natural environment and planetary boundaries. It is measured with four indicators. Example indicators are CO<sub>2</sub> emissions, percentage of forested area, and degree of annual freshwater withdrawals.

The Resources pillar includes indicators of SDGs 2, 6, 7, and 12, encompassing energy, water, and food production. It is measured with five indicators. Example indicators are the

prevalence of undernourishment, usage of basic drinking water services, and the degree of renewable energy consumption.

H&LS refers to “the degree to which an individual judges the overall quality of her/his own life as a whole favorably, and it is generally considered to be an ultimate goal in life, and life satisfaction is the feeling of well-being” [103] (p. 532). H&LS data were obtained from Life Satisfaction in the Cantril Ladder [104]. The surveys were conducted in 160 countries in 140 languages and involved approximately 160,000 respondents (an average of 1000 respondents per country). The evaluation question was “Please imagine a ladder, with steps numbered from 0 at the bottom to 10 at the top. The top of the ladder represents the best possible life for you, and the bottom represents your worst possible life. On which step of the ladder would you say you personally feel you stand at this time?”

FDII and FDIO data (% of the GDP and annual in USD) were obtained from the World Bank [102].

After considering data availability, the indicators selected for Institutional Enhancers were business freedom, property rights, government integrity, and judicial effectiveness. The Financial Enhancers’ selected indicators were government spending and monetary, trade, investment, and financial freedoms. Institutional Enhancers and Financial Enhancers data were obtained from the Heritage Foundation Freedom Index dataset [105,106].

GC is a set of institutions, factors, and policies that govern a country’s productivity level [107]. GC is the crucial long-term mechanism for living standards, prosperity, and expansion [108,109]. GC includes two components, GC-Ins and GC-InnS [2,110,111] (see pillars and indicators details in Appendix A Table A1). Example indicators are higher education and training, goods market efficiency, labor market efficiency, financial market efficiency, technology readiness, business sophistication, and innovation. The GC-Ins and GC-InnS data were obtained from the World Economic Forum [107,112]. The set of “Neoliberal-turn” constructs comprises 66 indicators, and the five SD pillars include 41 indicators in addition to H&LS.

Pillars’ indicators were measured by employing several metrics. For details, see Table A1 in the Appendix A. Analyses standardized the data. Indicators with a meaning contrary to any given pillar were multiplied by  $-1$  so that all indicators within a pillar have the same meaning.

### 3.2. Country Cluster Determination

Taking into account regional and economic development levels of countries, the World Bank created the following seven clusters: Advanced Economies, Emerging and Developing Europe, Emerging and Developing Asia, Middle East, North Africa and Pakistan, Latin America and The Caribbean, Sub-Saharan Africa, and Commonwealth [113]. Our analyses use these seven country clusters (Table 1). Countries included in this study comprise 92.94% of the world population and 98.72% of the world GDP (see Appendix A Table A2). We used group analysis to test our models by country clusters. We used 11 years (from 2007 to 2017) of data from 108 indicators from 125 countries (Appendix A Table A1).

### 3.3. Model Selection

The constructs of the “Social-turn 1” and “Social-turn 2” models can generate a continuum of models. Initially, we examined 12 models to explore different plausible model configurations (Appendix A Figures A1 and A2, and Figures 3 and 4).

**Table 1.** Country clusters.

| Country Cluster                         | Countries                                                                                                                                                                                                                                                                                                                                                      |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Advanced Economies                      | Australia, Belgium, Canada, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hong Kong SAR, Iceland, Ireland, Israel, Italy, Japan, Korea, Rep., Latvia, Lithuania, Luxembourg, Malta, Netherlands, New Zealand, Norway, Portugal, Singapore, Slovak Republic, Slovenia, Spain, Sweden, Switzerland, United Kingdom, United States. |
| Emerging and Developing Europe          | Bosnia and Herzegovina, Bulgaria, Croatia, Hungary, Montenegro, Poland, Romania, Serbia, Turkey.                                                                                                                                                                                                                                                               |
| Emerging and Developing Asia            | Bangladesh, Bhutan, Brunei Darussalam, Cambodia, China, India, Indonesia, Malaysia, Mongolia, Nepal, Philippines, Sri Lanka, Thailand, Timor-Leste, Vietnam.                                                                                                                                                                                                   |
| Middle East, North Africa, and Pakistan | Algeria, Bahrain, Egypt, Iran Islamic Rep., Jordan, Kuwait, Mauritania, Morocco, Oman, Pakistan, Qatar, Saudi Arabia, Tunisia, United Arab Emirates.                                                                                                                                                                                                           |
| Latin America and the Caribbean         | Argentina, Bolivia, Brazil, Chile, Colombia, Costa Rica, Dominican Republic, Ecuador, El Salvador, Guatemala, Honduras, Jamaica, Mexico, Nicaragua, Panama, Paraguay, Peru, Trinidad and Tobago, Uruguay, Venezuela.                                                                                                                                           |
| Sub-Saharan Africa                      | Benin, Botswana, Burkina Faso, Burundi, Cameroon, Chad, Côte d'Ivoire, Ethiopia, Ghana, Kenya, Lesotho, Madagascar, Malawi, Mali, Mauritius, Mozambique, Namibia, Nigeria, Senegal, South Africa, Tanzania, Uganda, Zambia, Zimbabwe.                                                                                                                          |
| Commonwealth                            | Armenia, Azerbaijan, Georgia, Kazakhstan, Kyrgyz Republic, Moldova, Russian Federation, Tajikistan, Ukraine.                                                                                                                                                                                                                                                   |

Source: [113].

From the 12 models appearing in Table 2, we used, for detailed modeling, the models with the overall highest average adjusted R-squared, that is, Model 4 representing the “Social-turn 1” model (Figure 1), and Model 7 representing the “Social-turn 2” model (Figure 2). In addition, Models 13 (Figure 3) and 14 (Figure 4) were used to assess Models 4 and 7’s relationships with H&LS.

**Table 2.** Average Adjusted R-squares of selected models.

| “Social-turn 1” models | Model 1        | Model 2 | Model 3 | <b>Model 4</b> | Model 5  | Model 6  |
|------------------------|----------------|---------|---------|----------------|----------|----------|
|                        | 0.379          | 0.367   | 0.325   | <b>0.430</b>   | 0.321    | 0.373    |
| “Social-turn 2” models | <b>Model 7</b> | Model 8 | Model 8 | Model 10       | Model 11 | Model 12 |
|                        | <b>0.569</b>   | 0.551   | 0.519   | 0.497          | 0.399    | 0.387    |

### 3.4. Creating Scores for 125 Countries for the Relationships among SD Pillars and H&LS and Country Outlier Determination

We employed multilevel analysis to test our theoretical models at the global and country cluster levels. In addition, we used a boxplot chart to determine country outliers for each cluster. Outlier scores are those out of the minimum and maximum whiskers range. Whiskers represent the scores outside the middle (50%) [114] (Figures 5, 7, 9, 11, 13, 15 and 17).

### 3.5. Assessment of Selected Models

Table 3 shows assessment indicators of models 4, 7, 13, and 14. Average full collinearity VIF (AFVIF), Tenenhaus GoF (GoF), and R-squared contribution ratio (RSCR) values for all of the models are in the acceptable range. AVIF is acceptable if  $\leq 5$ , ideally  $\leq 3.3$  [115]; AFVIF is acceptable if  $\leq 5$ , ideally  $\leq 3.3$  [116]; GoF is small  $\geq 0.1$ , medium  $\geq 0.25$ , large  $\geq 0.36$  [117]; and RSCR is acceptable if  $\geq 0.9$ , ideally = 1 [118].

**Table 3.** Assessment of selected models.

|                                       | Model 4            | Model 7            | Model 13           | Model 14           |
|---------------------------------------|--------------------|--------------------|--------------------|--------------------|
| Average path coefficient (APC)        | 0.251, $p < 0.001$ | 0.186, $p < 0.001$ | 0.225, $p < 0.001$ | 0.170, $p < 0.001$ |
| Average adjusted R-squared (AARS)     | 0.430, $p < 0.001$ | 0.569, $p < 0.001$ | 0.409, $p < 0.001$ | 0.478, $p < 0.001$ |
| Average full collinearity VIF (AFVIF) | 3.598              | 3.598              | 3.421              | 3.421              |
| Tenenhaus GoF (GoF)                   | 0.510              | 0.560              | 0.511              | 0.552              |
| R-squared contribution ratio (RSCR)   | 0.953              | 0.987              | 0.953              | 0.985              |

#### 4. Results and Discussion

Below, we present the global results, followed by the country clusters and country-level results. Country-level results pertaining to SD pillars'–H&LS relationships are measured by scores (see Section 3.4). Table 4 shows constructs' correlations.

**Table 4.** Correlation matrix (Models 4, 7, 13, and 14).

|                         | People  | Prosperity | Planet  | Resources | Peace   | Financial Enhancers | Institutional Enhancers | GC-Ins  | GC-InnS | FDI In-Flow | FDI Out-Flow |
|-------------------------|---------|------------|---------|-----------|---------|---------------------|-------------------------|---------|---------|-------------|--------------|
| People                  | (0.651) |            |         |           |         |                     |                         |         |         |             |              |
| Prosperity              | 0.588   | (0.542)    |         |           |         |                     |                         |         |         |             |              |
| Planet                  | 0.220   | 0.181      | (0.623) |           |         |                     |                         |         |         |             |              |
| Resources               | 0.523   | 0.627      | 0.437   | (0.808)   |         |                     |                         |         |         |             |              |
| Peace                   | 0.423   | 0.468      | 0.244   | 0.362     | (0.802) |                     |                         |         |         |             |              |
| Financial Enhancers     | 0.501   | 0.668      | 0.111   | 0.509     | 0.451   | (0.774)             |                         |         |         |             |              |
| Institutional Enhancers | 0.547   | 0.763      | 0.236   | 0.611     | 0.628   | 0.760               | (0.818)                 |         |         |             |              |
| GC-Ins                  | 0.462   | 0.602      | 0.269   | 0.534     | 0.600   | 0.626               | 0.814                   | (0.889) |         |             |              |
| GC-InnS                 | 0.475   | 0.702      | 0.240   | 0.562     | 0.574   | 0.575               | 0.798                   | 0.890   | (0.980) |             |              |
| FDI In-flow             | 0.203   | 0.198      | 0.135   | 0.224     | 0.225   | 0.242               | 0.296                   | 0.313   | 0.316   | (0.770)     |              |
| FDI Out-flow            | 0.243   | 0.279      | 0.133   | 0.227     | 0.247   | 0.265               | 0.358                   | 0.333   | 0.388   | 0.823       | (0.783)      |
| H&LS                    | 0.291   | 0.405      | 0.010   | 0.376     | 0.194   | 0.369               | 0.392                   | 0.343   | 0.382   | 0.147       | 0.178        |

Note: Correlations of H&LS with other constructs are only valid for Models 13 and 14.

##### 4.1. Global-Level Results and Discussion

We present the results for “Social-turn 1” models first and, after that, those for the “Social-turn 2” models.

##### 4.1.1. Global-Level Results and Discussion for “Social-turn 1” Models (Models 4 and 13)

Table 5 shows global results for the “Social-turn 1” and “Social-turn 2” models.

Institutional Enhancers (i.e., business freedom, property rights, government integrity, and judicial effectiveness) are positively associated with People, Prosperity, Resources, and Peace. These findings are partly supported by [119,120], who found that institutions' overall efficiency and effectiveness increase the SD level. In contrast, Institutional Enhancers are negatively associated with Planet. In this regard, [121] proposed that although democratic institutions attract investments, most of the investments hurt the quality of the environment.



**Table 5.** Results for “Social-turn 1” and “Social-turn 2” models (Models 4, 7, 13, and 14).

| Relationships                        | Model 4<br>Path Coefficients<br>Total Effects/<br>Total Effect Sizes | Model 7<br>Path Coefficients<br>Total Effects/<br>Total Effect Sizes | Model 13<br>Path Coefficients<br>Total Effects/<br>Total Effect Sizes | Model 14<br>Path Coefficients<br>Total Effects/<br>Total Effect Sizes |
|--------------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------|
| People → GC-Ins                      | N/A                                                                  | 0.020<br>0.022/0.010                                                 | 0.372 ***<br>0.202/0.101 ^                                            | 0.020<br>0.222/0.10                                                   |
| People → GC-InnS                     | N/A                                                                  | −0.026<br>−0.024/0.012                                               | 0.596 ***<br>0.213/0.142 ^                                            | −0.164<br>−0.024/0.012                                                |
| People → H&LS                        | N/A                                                                  | N/A                                                                  | 0.029<br>0.029/0.008                                                  | 0.037<br>0.036/0.011                                                  |
| Prosperity → GC-Ins                  | N/A                                                                  | 0.276 ***<br>0.296/0.178 ^^                                          | 0.530 ***<br>0.102/0.052 ^                                            | 0.276 ***<br>0.296/0.178 ^^                                           |
| Prosperity → GC-InnS                 | N/A                                                                  | 0.440 ***<br>0.468/0.329 ^^                                          | 0.669 ***<br>0.678/0.426 ^^                                           | 0.440 ***<br>0.468/0.329 ^^                                           |
| Prosperity → H&LS                    | N/A                                                                  | N/A                                                                  | 0.130 ***<br>0.130/0.053 ^                                            | 0.152 ***<br>0.232/0.094 ^                                            |
| Planet → GC-Ins                      | N/A                                                                  | −0.031<br>−0.030/0.008                                               | 0.204 ***<br>0.390/0.214 ^^                                           | −0.031<br>−0.030/0.008                                                |
| Planet → GC-InnS                     | N/A                                                                  | −0.006<br>−0.006/0.001                                               | 0.216 ***<br>0.598/0.456 ^^                                           | −0.006<br>−0.006/0.001                                                |
| Planet → H&LS                        | N/A                                                                  | N/A                                                                  | 0.153 ***<br>0.153/0.002                                              | 0.054 *<br>0.051/0.011                                                |
| Resources → GC-Ins                   | N/A                                                                  | 0.177 ***<br>0.185/0.099 ^                                           | 0.101 ***<br>0.534/0.326 ^^                                           | 0.177 ***<br>0.185/0.099 ^                                            |
| Resources → GC-InnS                  | N/A                                                                  | 0.159 ***<br>0.170/0.095 ^                                           | 0.066 ***<br>0.678/0.426 ^^                                           | 0.159 ***<br>0.170/0.095 ^^                                           |
| Resources → H&LS                     | N/A                                                                  | N/A                                                                  | 0.241 ***<br>0.241/0.091 ^                                            | 0.189 ***<br>0.224/0.092 ^                                            |
| Peace → GC-Ins                       | N/A                                                                  | 0.359 ***<br>0.373/0.223 ^^                                          | 0.029<br>0.029/0.008                                                  | 0.359 ***<br>0.373/0.223 ^^                                           |
| Peace → GC-InnS                      | N/A                                                                  | 0.279 ***<br>0.299/0.171 ^^                                          | 0.130 ***<br>0.130/0.053 ^                                            | 0.279 ***<br>0.299/0.171 ^^                                           |
| Peace → H&LS                         | N/A                                                                  | N/A                                                                  | −0.050 *<br>−0.050/0.010                                              | 0.084 ***<br>0.149/0.043 ^                                            |
| Institutional Enhancers → GC-Ins     | 0.832 ***                                                            | 0.040/0.032 ^                                                        | 0.802 ***                                                             | 0.040/0.049 ^                                                         |
| Institutional Enhancers → GC-InnS    | 0.854 ***                                                            | 0.061 */0.049 ^                                                      | 0.854 ***                                                             | 0.061 */0.078 ^                                                       |
| Institutional Enhancers → FDII       | 0.276 ***/0.082 ^                                                    | 0.265 ***                                                            | 0.276 ***/0.082 ^                                                     | 0.265 ***                                                             |
| Institutional Enhancers → FDIO       | 0.329 ***/0.118 ^                                                    | 0.162 ***                                                            | 0.329 ***/0.118 ^                                                     | 0.162 ***                                                             |
| Institutional Enhancers → People     | 0.372 ***<br>0.390/0.214 ^^                                          | N/A                                                                  | 0.372 ***<br>0.390/0.214 ^^                                           | N/A                                                                   |
| Institutional Enhancers → Prosperity | 0.596 ***<br>0.598/0.456 ^^                                          | N/A                                                                  | 0.596 ***<br>0.598/0.456 ^^                                           | N/A                                                                   |
| Institutional Enhancers → Planet     | −0.342 ***<br>−0.361/0.085 ^                                         | N/A                                                                  | −0.342 ***<br>−0.361/0.085 ^                                          | N/A                                                                   |
| Institutional Enhancers → Resources  | 0.530 ***<br>0.534/0.326 ^                                           | N/A                                                                  | 0.530 ***<br>0.534/0.326 ^                                            | N/A                                                                   |

Table 5. Cont.

| Relationships                    | Model 4<br>Path Coefficients<br>Total Effects/<br>Total Effect Sizes | Model 7<br>Path Coefficients<br>Total Effects/<br>Total Effect Sizes | Model 13<br>Path Coefficients<br>Total Effects/<br>Total Effect Sizes | Model 14<br>Path Coefficients<br>Total Effects/<br>Total Effect Sizes |
|----------------------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------|
| Institutional Enhancers → Peace  | 0.669 ***<br>0.678/0.426 ^^^                                         | N/A                                                                  | 0.669 ***<br>0.678/0.426 ^^^                                          | N/A                                                                   |
| Institutional Enhancers → H&LS   | N/A                                                                  | N/A                                                                  | 0.134 ***<br>0.262/0.103 ^                                            | 0.011/0.004                                                           |
| Financial Enhancers → GC-Ins     | 0.016                                                                | 0.004/0.002                                                          | 0.016                                                                 | 0.004/0.002                                                           |
| Financial Enhancers → GC-InnS    | 0.074 *                                                              | −0.003/0.002                                                         | −0.074 **                                                             | −0.003/0.002                                                          |
| Financial Enhancers → FDII       | −0.011/0.003                                                         | 0.040                                                                | −0.011/0.003                                                          | 0.040                                                                 |
| Financial Enhancers → FDIO       | −0.034/0.009                                                         | −0.049 *                                                             | −0.034/0.009                                                          | −0.048 *                                                              |
| Financial Enhancers → People     | 0.204 ***<br>0.202/0.101 ^                                           | N/A                                                                  | 0.204 ***<br>0.202/0.101 ^                                            | N/A                                                                   |
| Financial Enhancers → Prosperity | 0.216 ***<br>0.213/0.142 ^                                           | N/A                                                                  | 0.216 ***<br>0.213/0.142 ^                                            | N/A                                                                   |
| Financial Enhancers → Planet     | 0.166 ***<br>0.166/0.018                                             | N/A                                                                  | 0.166 ***<br>0.166/0.018                                              | N/A                                                                   |
| Financial Enhancers → Resources  | 0.101 ***<br>0.102/0.52 ^                                            | N/A                                                                  | 0.101 ***<br>0.102/0.52 ^                                             | N/A                                                                   |
| Financial Enhancers → Peace      | −0.066 ***<br>−0.678/0.030 ^                                         | N/A                                                                  | −0.066 ***<br>−0.66/0.032 ^                                           | N/A                                                                   |
| Financial Enhancers → H&LS       | N/A                                                                  | N/A                                                                  | 0.083 ***<br>0.170/0.063 ^                                            | −0.000/0.000                                                          |
| FDII → GC-Ins                    | N/A                                                                  | 0.102 ***                                                            | N/A                                                                   | 0.102 ***                                                             |
| FDII → GC-InnS                   | N/A                                                                  | −0.003                                                               | N/A                                                                   | −0.003                                                                |
| FDII → FDIO                      | 0.785 ***                                                            | 0.787 ***                                                            | 0.785 ***                                                             | 0.787 ***                                                             |
| FDII → People                    | −0.007                                                               | N/A                                                                  | −0.007                                                                | N/A                                                                   |
| FDII → Prosperity                | −0.117 ***                                                           | N/A                                                                  | −0.117 ***                                                            | N/A                                                                   |
| FDII → Planet                    | −0.089 ***                                                           | N/A                                                                  | −0.089 ***                                                            | N/A                                                                   |
| FDII → Resources                 | 0.107 ***                                                            | N/A                                                                  | 0.107 ***                                                             | N/A                                                                   |
| FDII → Peace                     | 0.070 *                                                              | N/A                                                                  | 0.070 *                                                               | N/A                                                                   |
| FDII → H&LS                      | N/A                                                                  | N/A                                                                  | −0.006/0.001                                                          | 0.025/0.004                                                           |
| FDIO → GC-Ins                    | N/A                                                                  | 0.034                                                                | N/A                                                                   | 0.034                                                                 |
| FDIO → GC-InnS                   | N/A                                                                  | 0.168 ***                                                            | N/A                                                                   | 0.168 ***                                                             |
| FDIO → People                    | 0.062 *                                                              | N/A                                                                  | 0.062 *                                                               | N/A                                                                   |
| FDIO → Prosperity                | 0.105 ***                                                            | N/A                                                                  | 0.105 ***                                                             | N/A                                                                   |
| FDIO → Planet                    | 0.019                                                                | N/A                                                                  | 0.019                                                                 | N/A                                                                   |
| FDIO → Resources                 | −0.077 *                                                             | N/A                                                                  | −0.077 *                                                              | N/A                                                                   |
| FDIO → Peace                     | −0.033                                                               | N/A                                                                  | −0.033                                                                | N/A                                                                   |
| FDIO → H&LS                      | N/A                                                                  | N/A                                                                  | 0.001/0.000                                                           | 0.024/0.004                                                           |
| GC-Ins → FDII                    | 0.154 ***                                                            | N/A                                                                  | 0.154 ***                                                             | N/A                                                                   |
| GC-Ins → FDIO                    | −0.180 ***                                                           | N/A                                                                  | −0.180 ***                                                            | N/A                                                                   |

Table 5. Cont.

| Relationships        | Model 4<br>Path Coefficients<br>Total Effects/<br>Total Effect Sizes | Model 7<br>Path Coefficients<br>Total Effects/<br>Total Effect Sizes | Model 13<br>Path Coefficients<br>Total Effects/<br>Total Effect Sizes | Model 14<br>Path Coefficients<br>Total Effects/<br>Total Effect Sizes |
|----------------------|----------------------------------------------------------------------|----------------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------|
| GC-Ins → People      | −0.005/0.002                                                         | N/A                                                                  | −0.005/0.002                                                          | N/A                                                                   |
| GC-Ins → Prosperity  | −0.024/0.015                                                         | N/A                                                                  | −0.024/0.015                                                          | N/A                                                                   |
| GC-Ins → Planet      | −0.015/0.004                                                         | N/A                                                                  | −0.015/0.004                                                          | N/A                                                                   |
| GC-Ins → Resources   | 0.021/0.011                                                          | N/A                                                                  | 0.021/0.011                                                           | N/A                                                                   |
| GC-Ins → Peace       | 0.013/0.008                                                          | N/A                                                                  | 0.013/0.008                                                           | N/A                                                                   |
| GC-Ins → H&LS        | N/A                                                                  | N/A                                                                  | −0.001/0.000                                                          | 0.071 **                                                              |
| GC-InnS → FDII       | 0.179 ***                                                            | N/A                                                                  | 0.179 ***                                                             | N/A                                                                   |
| GC-InnS → FDIO       | 0.299 ***                                                            | N/A                                                                  | 0.299 ***                                                             | N/A                                                                   |
| GC-InnS → People     | 0.026/0.012                                                          | N/A                                                                  | 0.026/0.012                                                           | N/A                                                                   |
| GC-InnS → Prosperity | 0.025/0.018                                                          | N/A                                                                  | 0.025/0.018                                                           | N/A                                                                   |
| GC-InnS → Planet     | −0.008/0.002                                                         | N/A                                                                  | −0.008/0.002                                                          | N/A                                                                   |
| GC-InnS → Resources  | −0.015/0.008                                                         | N/A                                                                  | −0.015/0.008                                                          | N/A                                                                   |
| GC-InnS → Peace      | −0.002/0.001                                                         | N/A                                                                  | −0.002/0.001                                                          | N/A                                                                   |
| GC-InnS → H&LS       | N/A                                                                  | N/A                                                                  | −0.001/0.000                                                          | 0.125 ***                                                             |

Notes: significance level: \*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$ . Effect sizes: ^  $0.02 < e < 0.15$  = low effect size, ^^  $0.15 < e < 0.35$  = medium effect size, ^^^  $e > 0.35$  = strong effect size. N/A: the results of the relationships are not available.

Financial Enhancers (i.e., government spending, monetary freedom, trade freedom, investment freedom, and financial freedom) are positively associated with People, Prosperity, and Resources. This result is partly in line with the findings of [122], who suggest that the role of government and government spending preferences on education, unemployment, safe water usage, and renewable energy consumption is vital for SD. Financial Enhancers are not associated with Planet, but are negatively associated with Peace. The latter findings partly disagree with [123], who noted that economic freedom is negatively associated with homicides. Overall, Financial Enhancers have a weaker association with SD pillars compared to Institutional Enhancers, confirming the importance of countries' institutional soundness [124]. Both Institutional and Financial Enhancers have a small positive association with H&LS. These findings partly agree with [125], who proposed that both institutional and financial soundness positively influence countries' multidimensional well-being inequalities.

In sum, GC-Ins positively relates to FDII. It negatively relates to FDIO. It does not relate to Peace, People, Prosperity, Planet, Resources, and H&LS. GC-InnS positively relates to FDII and FDIO. FDII positively relates to FDIO, GC-Ins, Resources, and Peace. It is negatively related to Planet and Prosperity. It does not relate to GC-InnS, People, and H&LS. FDIO positively relates to GC-InnS, Prosperity, and People. It is negatively related to Resources. FDIO does not relate to GC-Ins, Planet, Peace, and H&LS. Institutional Enhancers are positively associated with GC-Ins, GC-InnS, FDII, FDIO, People, Peace, Resources, and Prosperity. However, Institutional Enhancers negatively associate with Planet. Financial Enhancers do not relate to GC-Ins, GC-InnS, FDII, FDIO, and Planet. In contrast, Financial Enhancers positively relate to People, Prosperity, Resources, and H&LS. "Neoliberal-turn" constructs either do not relate (e.g., GC-Ins, FDIO, Financial Enhancers) or relate negatively (FDII, Institutional Enhancers) to Planet. These results illustrate the disconnect between the environmental and economic dimensions. Similarly, "Neoliberal-turn" constructs relate more among themselves and with SD pillars, including economically related indicators.

#### 4.1.2. Global-Level Results and Discussion for “Social-turn 2” (Models 7 and 14)

Table 5 shows the results for the “Social-turn 2” models. Both GC-Ins and GC-InnS positively relate to H&LS. The positive worldwide association between GC and H&LS suggests positive relationships among national institutions’ effectiveness, research and development, advancement of business development, and H&LS. FDII positively relates to GC-Ins. This finding reaffirms investments’ positive returns–factor interactions generating virtuous cycles leading to attractiveness and confidence in investments. This result also supports the basic idea of institutionalism, as well as the requirements and expectations of investments abroad. However, its relationships with GC-InnS and H&LS are insignificant. FDIO positively relates to GC-InnS, but its relationships with GC-Ins and H&LS are insignificant. In accordance with our expectations, advanced economies, which are more likely to be FDIO sources, are to have a higher degree of GC-InnS. However, the insignificant relationship between FDIO and GC-Ins is against expectations. It may have resulted due to effects canceling out. Institutional Enhancers positively relate to GC-Ins, GC-InnS, FDII, and FDIO. These results are in accordance with the basic tenet of the “Neoliberal-turn”. However, its relationship with H&LS is insignificant. Financial Enhancers’ relationships with GC-Ins, GC-InnS, FDII, FDIO, and H&LS were insignificant. These results are against expectations and in contrast to those found for Institutional Enhancers. These findings may be explained by the more comprehensive and enduring effects of Institutional Enhancers than those of Financial Enhancers.

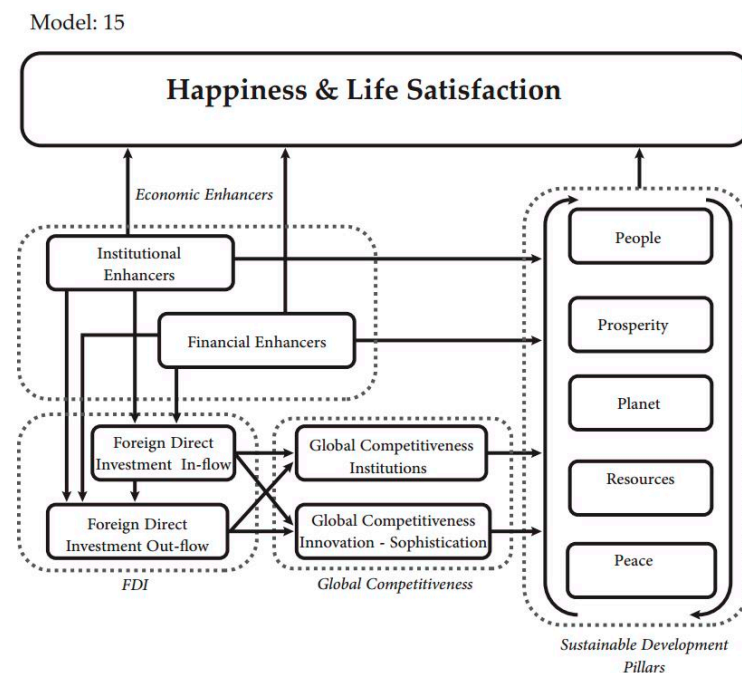
Prosperity, Resources, and Peace have the most significant overall effect sizes on GC-Ins, GC-InnS, and H&LS, whereas the corresponding relationships with People and Planet were insignificant. Thus, Prosperity, Resources, and Peace may be viewed as reflecting the degree of national development, which will also include GC-Ins and GC-InnS. These findings suggest that, at the global level, the earth’s biophysical environment is given less importance than wealth generation, building resources, and having safe conditions. These results support, again, the disconnect between the environmental and economic dimensions.

Generally, the results of the “Social-turn 1” and “Social-turn 2” models partly affirm the relationships posed among the socioecological constructs in our study, thereby partly supporting Hypotheses 1a and 1b. However, it must be pointed out that 23 out of 30 common relationships between the “Social-turn 1” and “Social-turn 2” models are significantly different. This confirms, like a parallax, the perspective effect. The results’ variability makes it difficult to generalize findings. The only consistent result between these different model types is the strong association between FDII and FDIO.

It may be noted that: (a) Strictly speaking, it is not possible to relate our findings to prior research when relationships involve any of the five SD pillars because, to the best of our knowledge, this is the first time that such pillars are empirically studied. (b) Since results are a function of the type and number of relationships, in a study as comprehensive as ours, it is only possible to find past research, either partly supporting or not, specific relationships of our models, as discussed in the literature review section. Similarly, relationships’ codependence also makes it difficult to compare our results to prior research because our models, as systems, have yet to be further tested. (c) We acknowledge our bias because in aiming to steer development, we desire positive relationships among constructs, which as shown by the results, such relationships only constitute a subset. However, we acknowledge that specific conditions (e.g., canceling out effects stemming from aggregation and different starting points) may also lead to either negative or insignificant relationships. Consequently, there is the need for both to be specific and, for sustainable development, to integrate specific cases in such a way that they produce desirable systemic effects at higher levels.

#### 4.2. Comparison of Country Clusters (“Social-turn 1.2” (Model 15) and “Social-turn 2” (Model 14))

We created another model, “Social-turn 1.2” (Model 15) (Figure 5), to maximize and compare the number of common relationships between the neoliberal turn constructs and the five SD pillars. Table 6 shows the country cluster results for the “Social-turn 1.2” and “Social-turn 2” models (Model 14 and Model 15).



**Figure 5.** “Social-turn 1.2” (Model 15).

In Advanced Economies, Institutional Enhancers’ and Financial Enhancers’ relationships with both FDII and FDIO are approximately the same in the “Social-turn 2” model and in “Social-turn 1.2”. On the contrary, FDIO and FDIO’s relationships with both GC-Ins and GC-InnS are stronger in the “Social-turn 1.2” model than in the “Social-turn 2” model.

In Emerging and Developing Europe, Institutional Enhancers’ relationship with FDII is significant only in the “Social-turn 1.2” model, whereas Institutional Enhancers’ relationship with FDIO is not. Financial Enhancers’ relationships with FDII and FDIO are nonsignificant in both the “Social-turn 1.2” and “Social-turn 2” models. FDII and FDIO’s relationships with GC-Ins and GC-InnS in both “Social-turn 1.2” and “Social-turn 2” models are moderately positive.

In Emerging and Developing Asia, the most common relationships between the “Social-turn 1.2” and “Social-turn 2” models are approximately the same, except the FDIO relationships with both GC-Ins and GC-Ins, which are stronger in the “Social-turn 1.2” model than in the “Social-turn 2” model.

In the Middle East, North Africa, and Pakistan, Institutional Enhancers and Financial Enhancers’ relationships with FDII and FDIO are approximately the same in both the “Social-turn 1.2” and “Social-turn 2” models. However, FDII’s and FDIO’s relationships with both GC-Ins and GC-InnS are significant in the “Social-turn 1.2” model, whereas such relationships are insignificant in the “Social-turn 2” model.



**Table 6.** Country cluster results for “Social-turn 1.2” and “Social-turn 2” models (Model 14 and Model 15).

| Relationships                                      | Advanced Economies                      | Emerging and Developing Europe          | Emerging and Developing Asia            | Middle East, North Africa, and Pakistan | Latin America and the Caribbean         | Sub-Saharan Africa                      | Commonwealth                            |
|----------------------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|
|                                                    | Path Coeff. Total Effects/ Effect Sizes | Path Coeff. Total Effects/ Effect Sizes | Path Coeff. Total Effects/ Effect Sizes | Path Coeff. Total Effects/ Effect Sizes | Path Coeff. Total Effects/ Effect Sizes | Path Coeff. Total Effects/ Effect Sizes | Path Coeff. Total Effects/ Effect Sizes |
| Institutional Enhancers → FDII (“Social-turn 2”)   | 0.097 *                                 | n.s.                                    | −0.212 **                               | n.s.                                    | 0.370 ***                               | 0.130 *                                 | n.s.                                    |
| Institutional Enhancers → FDII (“Social-turn 1.2”) | 0.067 *                                 | 0.248 **                                | −0.212 **                               | n.s.                                    | 0.370 ***                               | n.s.                                    | n.s.                                    |
| Institutional Enhancers → FDIO (“Social-turn 2”)   | 0.094 *                                 | 0.211 *                                 | 0.354 ***                               | 0.457 ***                               | 0.433 ***                               | 0.251 ***                               | n.s.                                    |
| Institutional Enhancers → FDIO (“Social-turn 1.2”) | 0.094 *                                 | n.s.                                    | 0.354 ***                               | 0.457 ***                               | 0.433 ***                               | 0.251 ***                               | n.s.                                    |
| Financial Enhancers → FDII (“Social-turn 2”)       | 0.103 *                                 | n.s.                                    | 0.141 *                                 | 0.142 *                                 | n.s.                                    | n.s.                                    | n.s.                                    |
| Financial Enhancers → FDII (“Social-turn 1.2”)     | 0.103 *                                 | n.s.                                    | 0.141 *                                 | 0.142 *                                 | n.s.                                    | n.s.                                    | n.s.                                    |
| Financial Enhancers → FDIO (“Social-turn 2”)       | n.s.                                    | n.s.                                    | n.s.                                    | n.s.                                    | −0.204 ***                              | −0.103 *                                | −0.287 **                               |
| Financial Enhancers → FDIO (“Social-turn 1.2”)     | n.s.                                    | n.s.                                    | n.s.                                    | n.s.                                    | n.s.                                    | −0.13 *                                 | −0.287 **                               |
| FDII → GC-Ins (“Social-turn 2”)                    | 0.264 ***                               | 0.746 ***                               | n.s.                                    | n.s.                                    | 0.444 ***                               | n.s.                                    | 0.246 **                                |
| FDII → GC-Ins (“Social-turn 1.2”)                  | 0.154 **                                | 0.669 ***                               | n.s.                                    | 0.158 **                                | 0.318 ***                               | n.s.                                    | n.s.                                    |
| FDII → GC-InnS (“Social-turn 2”)                   | −0.169 ***                              | 0.248 **                                | n.s.                                    | n.s.                                    | 0.480 ***                               | 0.118 *                                 | n.s.                                    |
| FDII → GC-InnS (“Social-turn 1.2”)                 | −0.209 ***                              | 0.264 **                                | n.s.                                    | 0.141 *                                 | 0.379 ***                               | 0.109 *                                 | −0.216 *                                |
| FDII → FDIO (“Social-turn 2”)                      | 0.819 ***                               | 0.980 ***                               | 0.403 ***                               | n.s.                                    | 0.500 ***                               | 0.192 ***                               | 0.573 ***                               |

Table 6. Cont.

| Relationships                             | Advanced Economies                            | Emerging and Developing Europe                | Emerging and Developing Asia                  | Middle East, North Africa, and Pakistan       | Latin America and the Caribbean               | Sub-Saharan Africa                            | Commonwealth                                  |
|-------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|
|                                           | Path Coeff.<br>Total Effects/<br>Effect Sizes | Path Coeff.<br>Total Effects/<br>Effect Sizes | Path Coeff.<br>Total Effects/<br>Effect Sizes | Path Coeff.<br>Total Effects/<br>Effect Sizes | Path Coeff.<br>Total Effects/<br>Effect Sizes | Path Coeff.<br>Total Effects/<br>Effect Sizes | Path Coeff.<br>Total Effects/<br>Effect Sizes |
| FDII → FDIO<br>("Social-turn 1.2")        | 0.819 ***                                     | 0.939 ***                                     | 0.403 ***                                     | n.s.                                          | 0.500 ***                                     | 0.192 ***                                     | 0.573 ***                                     |
| FDIO → GC-Ins<br>("Social-turn 2")        | n.s.                                          | −0.551 ***                                    | 0.159 *                                       | n.s.                                          | n.s.                                          | n.s.                                          | n.s.                                          |
| FDIO → GC-Ins<br>("Social-turn 1.2")      | 0.085 *                                       | −0.444 ***                                    | 0.546 ***                                     | 0.395 ***                                     | 0.146 *                                       | 0.127 *                                       | n.s.                                          |
| FDIO → GC-InnS<br>("Social-turn 2")       | 0.380 ***                                     | n.s.                                          | 0.227 **                                      | n.s.                                          | n.s.                                          | n.s.                                          | 0.338 ***                                     |
| FDIO → GC-InnS<br>("Social-turn 1.2")     | 0.438 ***                                     | n.s.                                          | 0.576 ***                                     | 0.383 ***                                     | 0.186 **                                      | 0.239 ***                                     | 0.500 ***                                     |
| People → GC-Ins<br>("Social-turn 2")      | 0.143 **<br>0.147/0.055 ^                     | n.s.                                          | n.s.                                          | 0.216 **<br>0.225/0.096 ^                     | 0.032 *<br>0.115/0.031 ^                      | 0.278 ***<br>0.268/0.126 ^                    | n.s.                                          |
| People → GC-InnS<br>("Social-turn 2")     | n.s.                                          | n.s.                                          | n.s.                                          | 0.315 ***<br>0.326/0.152 ^^                   | n.s.                                          | 0.228 ***<br>0.209/0.098 ^                    | 0.287 ***<br>0.502/0.105 ^                    |
| People → H&LS<br>("Social-turn 2")        | 0.172 ***<br>0.190/0.038 ^                    | n.s.                                          | n.s.                                          | n.s.                                          | n.s.                                          | 0.130 ***<br>0.220/0.024 ^                    | n.s.                                          |
| Prosperity → GC-Ins<br>("Social-turn 2")  | 0.390 ***<br>0.398/0.280 ^^                   | 0.308 ***<br>0.303/0.088 ^                    | 0.211 ***<br>0.235/0.087 ^                    | 0.416 ***<br>0.428/0.228 ^^                   | n.s.                                          | 0.394 ***<br>0.427/0.231 ^^                   | n.s.                                          |
| Prosperity → GC-InnS<br>("Social-turn 2") | 0.596 ***<br>0.608/0.424 ^^                   | 0.202 *<br>0.096/0.041 ^                      | 0.146 *<br>0.117/0.055 ^                      | 0.411 ***<br>0.427/0.205 ^^                   | n.s.                                          | 0.398 ***<br>0.439/0.234 ^^                   | n.s.                                          |
| Prosperity → H&LS<br>("Social-turn 2")    | 0.096 **<br>0.156/0.026 ^                     | n.s.                                          | 0.331 ***<br>0.388/0.142 ^                    | n.s.                                          | n.s.                                          | n.s.                                          | 0.498 ***<br>0.575/0.331 ^^                   |
| Planet → GC-Ins<br>("Social-turn 2")      | n.s.                                          | 0.241 **<br>0.238/0.075 ^                     | n.s.                                          | n.s.                                          | n.s.                                          | 0.321 ***<br>0.268/0.090 ^                    | n.s.                                          |

Table 6. Cont.

| Relationships                                           | Advanced Economies                            | Emerging and Developing Europe                | Emerging and Developing Asia                  | Middle East, North Africa, and Pakistan       | Latin America and the Caribbean               | Sub-Saharan Africa                            | Commonwealth                                  |
|---------------------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|
|                                                         | Path Coeff.<br>Total Effects/<br>Effect Sizes | Path Coeff.<br>Total Effects/<br>Effect Sizes | Path Coeff.<br>Total Effects/<br>Effect Sizes | Path Coeff.<br>Total Effects/<br>Effect Sizes | Path Coeff.<br>Total Effects/<br>Effect Sizes | Path Coeff.<br>Total Effects/<br>Effect Sizes | Path Coeff.<br>Total Effects/<br>Effect Sizes |
| Planet → GC-InnS<br>("Social-turn 2")                   | n.s.                                          | n.s.                                          | n.s.                                          | 0.169 *<br>0.173/0.076 ^                      | n.s.                                          | n.s.                                          | n.s.                                          |
| Planet → H&LS<br>("Social-turn 2")                      | n.s.                                          | n.s.                                          | n.s.                                          | n.s.                                          | 0.446 ***<br>0.472/0.197 ^^                   | n.s.                                          | n.s.                                          |
| Resources → GC-Ins<br>("Social-turn 2")                 | n.s.                                          | 0.361 ***<br>0.365/0.109 ^                    | 0.529 ***<br>0.539/0.380 ^^                   | n.s.                                          | 0.407 ***<br>0.458/0.150 ^^                   | 0.364 ***<br>0.359/0.195 ^^                   | 0.440 ***<br>0.431/0.165 ^^                   |
| Resources → GC-InnS<br>("Social-turn 2")                | n.s.                                          | 0.632 ***<br>0.642/0.374 ^^                   | 0.464 ***<br>0.484/0.330 ^^                   | n.s.                                          | 0.599 ***<br>0.635/0.357 ^^                   | 0.183 ***<br>0.187/0.085 ^                    | 0.241 *<br>0.195/0.076 ^                      |
| Resources → H&LS<br>("Social-turn 2")                   | 0.167 **<br>0.141/0.029 ^                     | 0.122 *<br>0.164/0.026 ^                      | 0.151 ***<br>0.263/0.071 ^                    | n.s.                                          | 0.204 ***<br>0.280/0.051 ^^                   | n.s.                                          | n.s.                                          |
| Peace → GC-Ins<br>("Social-turn 2")                     | 0.528 ***<br>0.549/0.349 ^^                   | n.s.                                          | n.s.                                          | n.s.                                          | 0.181 *<br>0.115/0.033 ^                      | 0.041 **<br>0.156/0.025 ^                     | 0.381 ***<br>0.378/0.150 ^^                   |
| Peace → GC-InnS<br>("Social-turn 2")                    | 0.173 ***<br>0.205/0.112 ^                    | n.s.                                          | 0.144 *<br>0.130/0.050 ^                      | 0.012 *<br>0.176/0.083 ^                      | 0.105 *<br>0.122/0.044 ^                      | 0.165 ***<br>0.295/0.031 ^                    | 0.295 **<br>0.289/0.045 ^                     |
| Peace → H&LS<br>("Social-turn 2")                       | 0.103 *<br>0.175/0.042 ^                      | n.s.                                          | n.s.                                          | n.s.                                          | n.s.                                          | 0.183 ***<br>0.254/0.027 ^                    | n.s.                                          |
| GC-Ins → H&LS<br>("Social-turn 2")                      | 0.124 **                                      | −0.354 ***                                    | 0.406 ***                                     | n.s.                                          | −0.531 ***                                    | n.s.                                          | n.s.                                          |
| GC-InnS → H&LS<br>("Social-turn 2")                     | n.s.                                          | 0.646 ***                                     | −0.221 **                                     | −0.314 ***                                    | 0.493 ***                                     | 0.435 ***                                     | −0.276 **                                     |
| Institutional Enhancers → People<br>("Social-turn 1.2") | −0.113 *<br>−0.099/0.026 ^                    | 0.392 ***<br>0.366/0.088 ^                    | 0.137 *<br>0.169/0.042 ^                      | 0.753 ***<br>0.740/0.388 ^^                   | 0.618 ***<br>0.647/0.310 ^^                   | 0.562 ***<br>0.588/0.313 ^^                   | n.s.                                          |

Table 6. Cont.

| Relationships                                            | Advanced Economies                            | Emerging and Developing Europe                | Emerging and Developing Asia                  | Middle East, North Africa, and Pakistan       | Latin America and the Caribbean               | Sub-Saharan Africa                            | Commonwealth                                  |
|----------------------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|
|                                                          | Path Coeff.<br>Total Effects/<br>Effect Sizes | Path Coeff.<br>Total Effects/<br>Effect Sizes | Path Coeff.<br>Total Effects/<br>Effect Sizes | Path Coeff.<br>Total Effects/<br>Effect Sizes | Path Coeff.<br>Total Effects/<br>Effect Sizes | Path Coeff.<br>Total Effects/<br>Effect Sizes | Path Coeff.<br>Total Effects/<br>Effect Sizes |
| Institutional Enhancers → Prosperity (“Social-turn 1.2”) | 0.148 **<br>0.178/0.116 ^                     | 0.548 ***<br>0.540/0.292 **                   | 0.211 **<br>0.231/0.074 ^                     | n.s.                                          | 0.635 ***<br>0.667/0.219 ^^                   | 0.757 ***<br>0.779/0.560 ^^^                  | n.s.                                          |
| Institutional Enhancers → Planet (“Social-turn 1.2”)     | n.s.                                          | n.s.                                          | 0.314 ***<br>0.276/0.051 ^                    | −0.500 ***<br>−0.517/0.266 ^^                 | n.s.                                          | −0.730 ***<br>−0.758/0.346 ^^                 | n.s.                                          |
| Institutional Enhancers → Resources (“Social-turn 1.2”)  | 0.106 *<br>0.121/0.028 ^                      | n.s.                                          | 0.221 **<br>0.334/0.164 ^^                    | 0.844 ***<br>0.822/0.309 ^^                   | 0.529 ***<br>0.617/0.305 ^^                   | 0.604 ***<br>0.619/0.390 ^^^                  | 0.324 ***<br>0.326/0.090 ^                    |
| Institutional Enhancers → Peace (“Social-turn 1.2”)      | 0.556 ***<br>0.566/0.403 ^^^                  | n.s.                                          | n.s.                                          | 0.509 ***<br>0.514/0.355 ^^^                  | 0.653 ***<br>0.628/0.375 ^^^                  | −0.574 ***<br>−0.582/0.242 ^^                 | n.s.                                          |
| Institutional Enhancers → H&LS (“Social-turn 1.2”)       | −0.302 ***<br>−0.238/0.023 ^                  | 0.272 **<br>0.251/0.078 ^                     | 0.139 *<br>0.263/0.075 ^                      | −0.443 ***<br>−0.403/0.064 ^                  | n.s.                                          | n.s.                                          | n.s.                                          |
| Financial Enhancers → People (“Social-turn 1.2”)         | n.s.                                          | 0.284 ***<br>0.309/0.100 ^                    | n.s.                                          | −0.246 ***<br>−0.247/0.037 ^                  | n.s.                                          | −0.278 ***<br>−0.285/0.068 ^                  | −0.349 ***<br>−0.398/0.183 ^^                 |
| Financial Enhancers → Prosperity (“Social-turn 1.2”)     | n.s.                                          | 0.378 ***<br>0.377/0.207 ^^                   | 0.439 ***<br>0.443/0.231 ^^                   | 0.255 ***<br>0.253/0.103 ^                    | −0.534 ***<br>−0.539/0.166 ^^                 | −0.238 ***<br>−0.244/0.093 ^                  | −0.402 ***<br>−0.445/0.165 ^^                 |
| Financial Enhancers → Planet (“Social-turn 1.2”)         | n.s.                                          | n.s.                                          | n.s.                                          | n.s.                                          | 0.625 ***<br>0.626/0.131 ^                    | 0.544 ***<br>0.552/0.025 ^                    | 0.483 ***<br>0.485/0.194 ^^                   |
| Financial Enhancers → Resources (“Social-turn 1.2”)      | n.s.                                          | 0.205 *<br>0.226/0.062 ^                      | n.s.                                          | n.s.                                          | n.s.                                          | −0.213 ***<br>−0.216/0.070 ^                  | n.s.                                          |
| Financial Enhancers → Peace (“Social-turn 1.2”)          | −0.101 *<br>−0.099/0.028 ^                    | 0.496 ***<br>0.528/0.229 ^^                   | −0.286 ***<br>−0.248/0.037 ^                  | 0.273 ***<br>0.272/0.155 ^^                   | 0.179 **<br>0.182/0.059 ^                     | 0.321 ***<br>0.323/0.036 ^                    | 0.578 ***<br>0.540/0.262 ^^                   |
| Financial Enhancers → H&LS (“Social-turn 1.2”)           | n.s.                                          | 0.212 *<br>0.155/0.039 ^                      | n.s.                                          | 0.237 **<br>0.331/0.032 ^                     | n.s.                                          | n.s.                                          | n.s.                                          |

Table 6. Cont.

| Relationships                            | Advanced Economies                      | Emerging and Developing Europe          | Emerging and Developing Asia            | Middle East, North Africa, and Pakistan | Latin America and the Caribbean         | Sub-Saharan Africa                      | Commonwealth                            |
|------------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|
|                                          | Path Coeff. Total Effects/ Effect Sizes | Path Coeff. Total Effects/ Effect Sizes | Path Coeff. Total Effects/ Effect Sizes | Path Coeff. Total Effects/ Effect Sizes | Path Coeff. Total Effects/ Effect Sizes | Path Coeff. Total Effects/ Effect Sizes | Path Coeff. Total Effects/ Effect Sizes |
| GC-Ins → People ("Social-turn 1.2")      | 0.425 ***                               | −0.257 *                                | −0.135 *                                | −0.283 ***                              | n.s.                                    | n.s.                                    | −0.234 **                               |
| GC-Ins → Prosperity ("Social-turn 1.2")  | 0.352 ***                               | n.s.                                    | 0.533 ***                               | 0.186 **                                | −0.411 ***                              | n.s.                                    | n.s.                                    |
| GC-Ins → Planet ("Social-turn 1.2")      | −0.221 ***                              | 0.656 ***                               | 0.556 ***                               | −0.152 *                                | −0.758 ***                              | 0.269 ***                               | n.s.                                    |
| GC-Ins → Resources ("Social-turn 1.2")   | n.s.                                    | −0.533 ***                              | 0.653 ***                               | −0.434 ***                              | −0.444 ***                              | 0.249 ***                               | n.s.                                    |
| GC-Ins → Peace ("Social-turn 1.2")       | 0.192 ***                               | −0.427 ***                              | 0.230 **                                | n.s.                                    | −0.452 ***                              | n.s.                                    | n.s.                                    |
| GC-InnS → People ("Social-turn 1.2")     | n.s.                                    | −0.160 *                                | 0.327 ***                               | 0.210 **                                | n.s.                                    | 0.309 ***                               | 0.397 ***                               |
| GC-InnS → Prosperity ("Social-turn 1.2") | 0.362 ***                               | −0.340 ***                              | −0.418 ***                              | 0.223 **                                | 0.459 ***                               | 0.316 ***                               | 0.324 ***                               |
| GC-InnS → Planet ("Social-turn 1.2")     | 0.167 ***                               | −0.569 ***                              | −0.784 ***                              | n.s.                                    | 0.558 ***                               | −0.509 ***                              | n.s.                                    |
| GC-InnS → Resources ("Social-turn 1.2")  | 0.251 ***                               | 0.979 ***                               | n.s.                                    | n.s.                                    | 0.708 ***                               | n.s.                                    | 0.502 ***                               |
| GC-InnS → Peace ("Social-turn 1.2")      | n.s.                                    | n.s.                                    | 0.331 ***                               | 0.155 *                                 | 0.273 ***                               | −0.101 *                                | 0.230 **                                |
| People → H&LS ("Social-turn 1.2")        | 0.198 ***                               | n.s.                                    | n.s.                                    | n.s.                                    | 0.110 *                                 | 0.223 ***                               | 0.254 **                                |

Table 6. Cont.

| Relationships                         | Advanced Economies                      | Emerging and Developing Europe          | Emerging and Developing Asia            | Middle East, North Africa, and Pakistan | Latin America and the Caribbean         | Sub-Saharan Africa                      | Commonwealth                            |
|---------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|
|                                       | Path Coeff. Total Effects/ Effect Sizes | Path Coeff. Total Effects/ Effect Sizes | Path Coeff. Total Effects/ Effect Sizes | Path Coeff. Total Effects/ Effect Sizes | Path Coeff. Total Effects/ Effect Sizes | Path Coeff. Total Effects/ Effect Sizes | Path Coeff. Total Effects/ Effect Sizes |
| Prosperity → H&LS ("Social-turn 1.2") | −0.099 *                                | n.s.                                    | 0.465 ***                               | n.s.                                    | −0.311 ***                              | 0.212 ***                               | 0.556 ***                               |
| Planet → H&LS ("Social-turn 1.2")     | n.s.                                    | n.s.                                    | −0.213 **                               | n.s.                                    | 0.524 ***                               | n.s.                                    | −0.643 ***                              |
| Resources → H&LS ("Social-turn 1.2")  | n.s.                                    | n.s.                                    | 0.185 **                                | −0.146 *                                | 0.316 **                                | −0.231 ***                              | −0.597 ***                              |
| Peace → H&LS ("Social-turn 1.2")      | 0.153 ***                               | n.s.                                    | −0.325 ***                              | 0.202 **                                | n.s.                                    | 0.252 ***                               | n.s.                                    |

Notes: significance level: \*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$ . Effect sizes:  $^{\wedge} 0.02 < e < 0.15$  = low effect size,  $^{\wedge\wedge} 0.15 < e < 0.35$  = medium effect size,  $^{\wedge\wedge\wedge} e > 0.35$  = strong effect size. n.s.: nonsignificant results.



In Latin America and the Caribbean, most common relationships are approximately the same in both the “Social-turn 1.2” and “Social-turn 2” models. However, Financial Enhancers’ relationship with FDIO is negative in the “Social-turn 2” model, whereas it is nonsignificant in the “Social-turn 1.2” model. In addition, FDIO’s relationships with both GC-Ins and GC-InnS are significant in the “Social-turn 1.2” model, and nonsignificant in the “Social-turn 2” model.

In Sub-Saharan Africa, most of the common relationships between the “Social-turn 1.2” and “Social-turn 2” models are approximately the same, except the relationships between FDIO with both GC-Ins and GC-InnS, which are only significant in the “Social-turn 1.2” model.

In Commonwealth countries, common relationships between the “Social-turn 1.2” and “Social-turn 2” models are very similar. In the “Social-turn 2” model, FDII’s relationship with GC-Ins is significant, whereas this relationship in the “Social-turn 1.2” model is not. Furthermore, FDII’s relationship with GC-InnS is negative in the “Social-turn 1.2” model and nonsignificant in the “Social-turn 2” model.

Among all of the clusters, only in Emerging and Developing Asia, Institutional Enhancers have a significant negative relationship with FDII. In addition, in Latin America and the Caribbean, Sub-Saharan Africa, and Commonwealth clusters, Financial Enhancers are negatively associated with FDIO. Moreover, only in Emerging and Developing Europe, FDIO has a negative association with GC-Ins. Out of nine common relationships between “Social-turn 1.2” and Social-turn 2” models in seven country clusters, that is, a total of 63 relationships, only about one-third of them significantly differ between the two models. Most of such differences involve FDIO relating to GC-Ins and GC-Ins FDIO variability among 125 countries may explain these results. Common results between the “Social-turn 1.2” and Social-turn 2” models seem to support our expectations expressed in the hypotheses. Similarly, specific model results suggest moderate to strong relationships between SD pillars and socioeconomic constructs (i.e., Financial Enhancers, Institutional Enhancers, FDII, FDIO, GC-Ins, and GC-InnS). However, the model-specific relationships between SD pillars and neoliberal constructs drastically vary according to the country cluster. Thus, common and different relationships within and between country clusters suggest the need to analyze every single country cluster separately.

Country cluster results indicating model differences in only about one-third of the studied relationships reaffirm our hypotheses because the remainder constitutes a set of shared relationships or a commonality existing despite model configuration differences. Most differences are concentrated in relationships involving FDIO, GC-Ins, and GC-InnS, which are constructs that manifest to a greater degree in developed countries. Since developed countries are the minority, the strength of their relationships involving the referred constructs is relatively infrequent. In addition to commonalities, the relationships between SD pillars and neoliberal constructs vary substantially among clusters, reaffirming the usefulness of clustering countries. Likewise, the results’ variability, and, as a result, the need for model specificity, is greater than that usually acknowledged by international and national institutions involved in national (sustainable) development. Thus, the lack of contextuality, including deficits in the voices considered in development efforts, may partly explain development efforts’ failures. In addition, published research and reports are biased toward significant and positive results. Our findings depict a mixture of positive, nonsignificant, and a few negative relationships, which, judging by the varied state of development worldwide, seem to somewhat reflect the diversity of development realities.

#### 4.3. Country Cluster-Level Comparison of SD Pillars’ Relationships with H&LS for “Social-turn 1” (Model 13), “Social-turn 1.2” (Model 15), and “Social-turn 2” (Model 14)

Table 7 shows the comparison of the results of common relationships (SD pillars → H&LS) between the “Social-turn 1” (Model 13), “Social-turn 1.2” (Model 15), and “Social-turn 2” (Model 14). All relationships referred to in this section pertain to the five SD pillars with H&LS.

**Table 7.** Country cluster-level results: SD pillars' relationships with H&LS for "Social-turn 1", "Social-turn 1.2", and "Social-turn 2" (Models 13, 14, and 15).

| SD Pillars<br>↓<br>H&LS             | Advanced Economies                            | Emerging and Developing Europe                | Emerging and Developing Asia                  | Middle East, North Africa, and Pakistan       | Latin America and the Caribbean               | Sub-Saharan Africa                            | Commonwealth                                  |
|-------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|
|                                     | Path Coeff.<br>Total Effects/<br>Effect Sizes | Path Coeff.<br>Total Effects/<br>Effect Sizes | Path Coeff.<br>Total Effects/<br>Effect Sizes | Path Coeff.<br>Total Effects/<br>Effect Sizes | Path Coeff.<br>Total Effects/<br>Effect Sizes | Path Coeff.<br>Total Effects/<br>Effect Sizes | Path Coeff.<br>Total Effects/<br>Effect Sizes |
| People → H&LS<br>"Social-turn 1"    | 0.234 ***<br>0.234/0.046 ^                    | n.s.                                          | n.s.                                          | n.s.                                          | n.s.                                          | n.s.                                          | 0.265 *<br>0.265/0.107 ^                      |
| People → H&LS<br>"Social-turn 1.2"  | 0.198 ***                                     | n.s.                                          | n.s.                                          | n.s.                                          | 0.110 *                                       | 0.223 ***                                     | 0.254 **                                      |
| People → H&LS<br>"Social-turn 2"    | 0.172 ***<br>0.190/0.038 ^                    | n.s.                                          | n.s.                                          | n.s.                                          | n.s.                                          | 0.123 *<br>0.220/0.024 ^                      | 0.207 *<br>0.123/0.050 ^                      |
| Prosperity → H&LS "Social-turn 1"   | n.s.                                          | n.s.                                          | 0.453 ***<br>0.453/0.166 ^^                   | n.s.                                          | n.s.                                          | n.s.                                          | 0.560 ***<br>0.560/0.366 ^^                   |
| Prosperity → H&LS "Social-turn 1.2" | −0.099 *                                      | n.s.                                          | 0.465 ***                                     | n.s.                                          | −0.311 ***                                    | 0.212 ***                                     | 0.556 ***                                     |
| Prosperity → H&LS "Social-turn 2"   | 0.096<br>0.156/0.026 ^                        | 0.120<br>0.148/0.027 ^                        | 0.331 ***<br>0.388/0.142 ^                    | n.s.                                          | n.s.                                          | n.s.                                          | 0.498 ***<br>0.502/0.331 ^^                   |
| Planet → H&LS<br>"Social-turn 1"    | n.s.                                          | n.s.                                          | n.s.                                          | n.s.                                          | 0.474 ***<br>0.474/0.198 ^^                   | n.s.                                          | 0.630 ***<br>0.630/0.341 ^^                   |
| Planet → H&LS<br>"Social-turn 1.2"  | n.s.                                          | n.s.                                          | −0.213 **                                     | n.s.                                          | 0.524 ***                                     | n.s.                                          | −0.643 ***                                    |
| Planet → H&LS<br>"Social-turn 2"    | n.s.                                          | n.s.                                          | n.s.                                          | n.s.                                          | 0.446 ***<br>0.472/0.197 ^^                   | n.s.                                          | 0.322 ***<br>0.275/0.149 ^^                   |
| Resources–H&LS<br>"Social-turn 1"   | n.s.                                          | n.s.                                          | n.s.                                          | 0.193<br>0.201/0.333 ^^                       | 0.200 **<br>0.200/0.036 ^                     | 0.273 ***<br>0.273/0.019 ^                    | 0.583 ***<br>0.583/0.058 ^                    |
| Resources–H&LS<br>"Social-turn 1.2" | n.s.                                          | n.s.                                          | 0.185 **                                      | −0.146 *                                      | 0.316 **                                      | −0.231 ***                                    | −0.597 ***                                    |
| Resources–H&LS<br>"Social-turn 2"   | 0.167 ***<br>0.141/0.029 ^                    | 0.122<br>0.164/0.026 ^                        | 0.151<br>0.263/0.071 ^                        | n.s.                                          | 0.204 ***<br>0.208/0.051 ^                    | n.s.                                          | n.s.                                          |

Table 7. Cont.

| SD Pillars<br>↓<br>H&LS           | Advanced Economies                            | Emerging and Developing Europe                | Emerging and Developing Asia                  | Middle East, North Africa, and Pakistan       | Latin America and the Caribbean               | Sub-Saharan Africa                            | Commonwealth                                  |
|-----------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|
|                                   | Path Coeff.<br>Total Effects/<br>Effect Sizes | Path Coeff.<br>Total Effects/<br>Effect Sizes | Path Coeff.<br>Total Effects/<br>Effect Sizes | Path Coeff.<br>Total Effects/<br>Effect Sizes | Path Coeff.<br>Total Effects/<br>Effect Sizes | Path Coeff.<br>Total Effects/<br>Effect Sizes | Path Coeff.<br>Total Effects/<br>Effect Sizes |
| Peace → H&LS<br>“Social-turn 1”   | 0.217 ***<br>0.217/0.034 ^                    | n.s.                                          | n.s.                                          | 0.195<br>0.150/0.023 ^                        | n.s.                                          | 0.187 ***<br>0.187/0.020 ^                    | 0.085<br>0.085/0.028 ^                        |
| Peace → H&LS<br>“Social-turn 1.2” | 0.153 ***                                     | n.s.                                          | −0.325 ***                                    | 0.202 **                                      | n.s.                                          | 0.252 ***                                     | n.s.                                          |
| Peace → H&LS<br>“Social-turn 2”   | 0.103<br>0.175/0.042 ^                        | n.s.                                          | 0.342 ***<br>0.327/0.062 ^                    | 0.208<br>0.208/0.025 ^                        | n.s.                                          | 0.183 **<br>0.254/0.027 ^                     | n.s.                                          |

Notes: significance level: \*  $p < 0.05$ , \*\*  $p < 0.01$ , \*\*\*  $p < 0.001$ . Effect sizes: ^  $0.02 < e < 0.15$  = low effect size, ^^  $0.15 < e < 0.35$  = medium effect size, ^^  $e > 0.35$  = strong effect size. n.s.: nonsignificant results.

In Advanced Economies and Emerging and Developing Europe clusters, the results of the “Social-turn 2”, “Social-turn 1”, and Social-turn 1.2” models are about the same, in terms of paths’ statistical significance, for the relationships involving Planet, People, and Peace. However, the Prosperity and Resources relationships were only significant for the “Social-turn 2” model. For the Emerging and Developing Asia cluster, results are significant for the three models only for Prosperity, as well as for Resources and Peace for only the “Social-turn 2” model. The Middle East, North Africa, and Pakistan cluster has only significant relationships for Peace (the three models) and Resources (“Social-turn 1”, Social-turn 1.2” models). The Latin America and the Caribbean cluster has strong positive path coefficients for Planet and Resources for the three models. The Sub-Saharan Africa cluster has similar results, in terms of statistical significance, for Peace (positive path coefficients) and Planet (insignificant path coefficients). The Commonwealth cluster has positive path coefficients for People and Prosperity for the three models.

There were either nonsignificant or negative relationships in the three models for (a) the pillar People for Emerging and Developing Asia and Emerging and Developing Europe, and the Middle East, North Africa, and Pakistan clusters; (b) the pillar Prosperity for Middle East, North Africa, and Pakistan, Latin America and the Caribbean, and Sub-Saharan Africa clusters; and (c) the pillar Planet for Advanced Economies, Emerging and Developing Asia, Emerging and Developing Europe, the Middle East, North Africa, and Pakistan, and Sub-Saharan Africa clusters.

Nonsignificant or negative relationships for the five SD pillars across clusters are similar, around 50%, except for the pillar Planet, for which only 5 out of 21 path coefficients were positive and significant. Advanced Economies and the Commonwealth clusters have the largest number of positive relationships, 8 and 9 out of 15, respectively. These findings reaffirm the disconnect between the environmental and both the social and economic dimensions, and point out the need for a better balance between the three dimensions, and particularly for less developed countries because the imbalance reflects a lack of development.

Overall, only 39 out of 105 relationships between any of the five SD pillars and H&LS were positive and significant. In other words, at the cluster level, only 37% of expected positive relationships were supported. Possible explanations include a lack of expected desirable development, canceling out effects due to aggregation, wrong expectations posed, disassociations between H&LS and the five SD pillars, and/or the type of models’ functional relationships. Furthermore, our models include “hard data” and indicators based on perceptions. Such diversity of data types and data sources, while helpful for triangulating and for reducing common method bias, may reflect a disconnect between, for instance, the SD pillars and H&LS; that is, there may be happy individuals that are negatively impacting the environment, the social, and the economic realms.

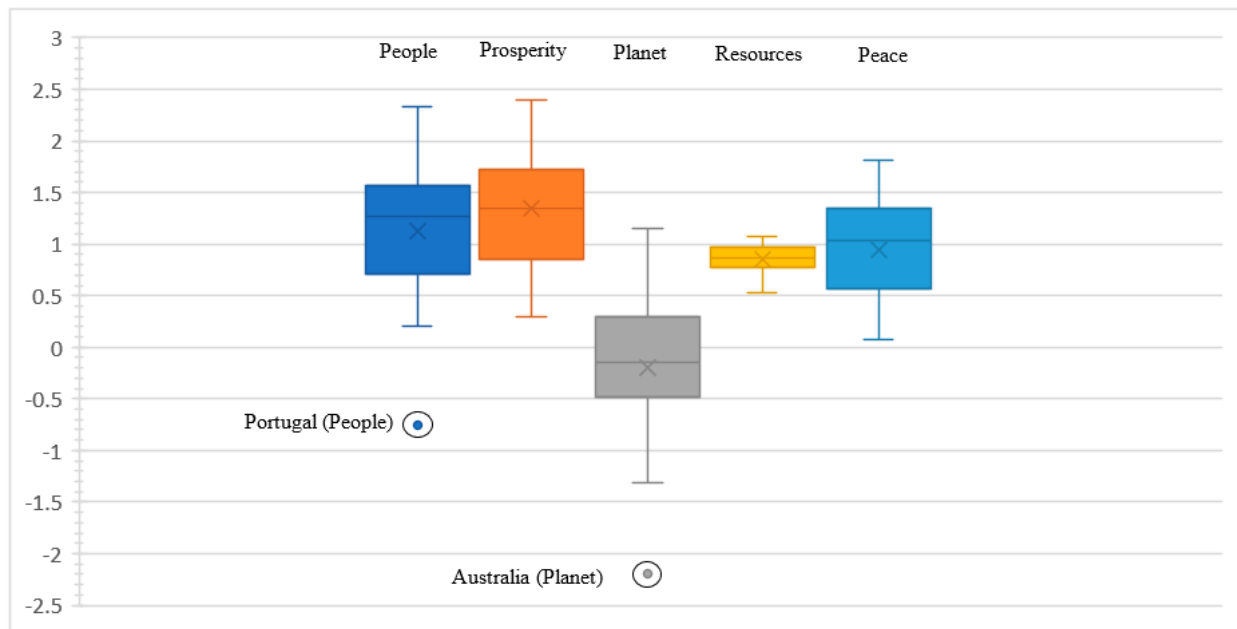
Path coefficient differences occur not only between the “Social-turn 1” and Social-turn 2” models, but also between the “Social-turn 1” and “Social-turn 1.2” models.

In Emerging Asia and Emerging Europe, the “Social-turn 2” model has a higher explanatory power of H&LS than the “Social-turn 1” model. The “Social-turn 2” model’s comprehensiveness and paths’ configurations may explain such results.

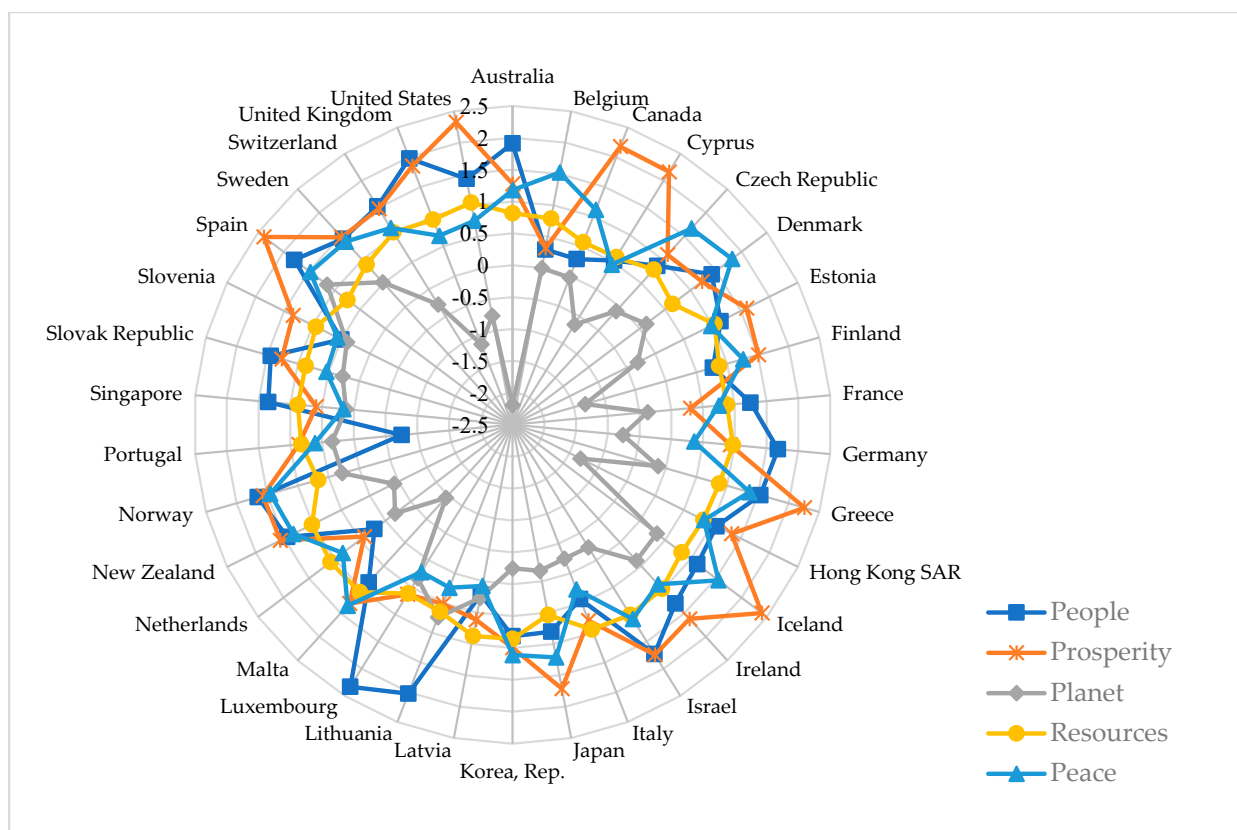
The “Social-turn 2” model (Model 14) reflects the comprehensive effects of the SD’s economic, social, and environmental dimensions on H&LS. In contrast, the “Social-turn 1 and Social-turn 1.2” models give primacy to the economic dimension. The “Social-turn 2” model may be considered superior to the “Social-turn 1 and Social-turn 1.2” models because it has higher explanatory power than the “Social-turn 1 and Social-turn 1.2” models, and conceptually, it circumscribes the economic dimension within a more encompassing socioecological framework. Therefore, we base the remainder of our analyses on the “Social-turn 2” model.

#### 4.4. Country-Level Results Per Cluster (“Social-turn 2” Model)

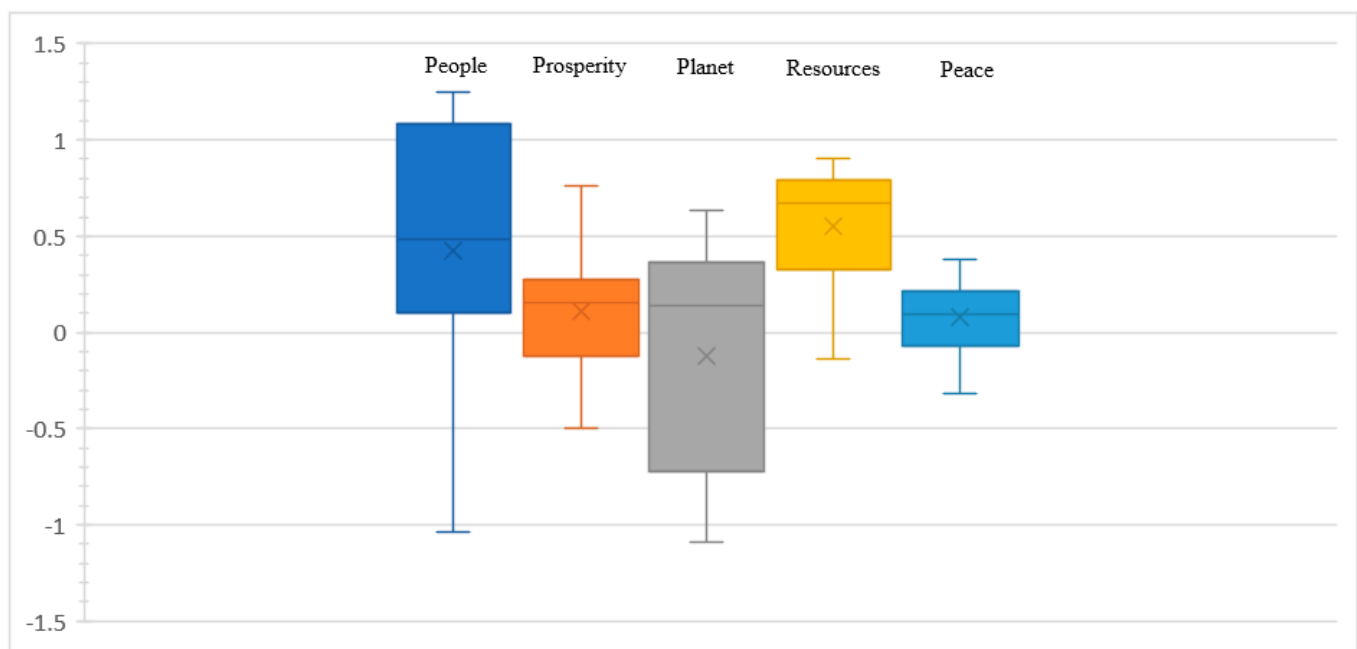
Country-level results per cluster provides additional information from the country cluster and global results (Figures 6–18).



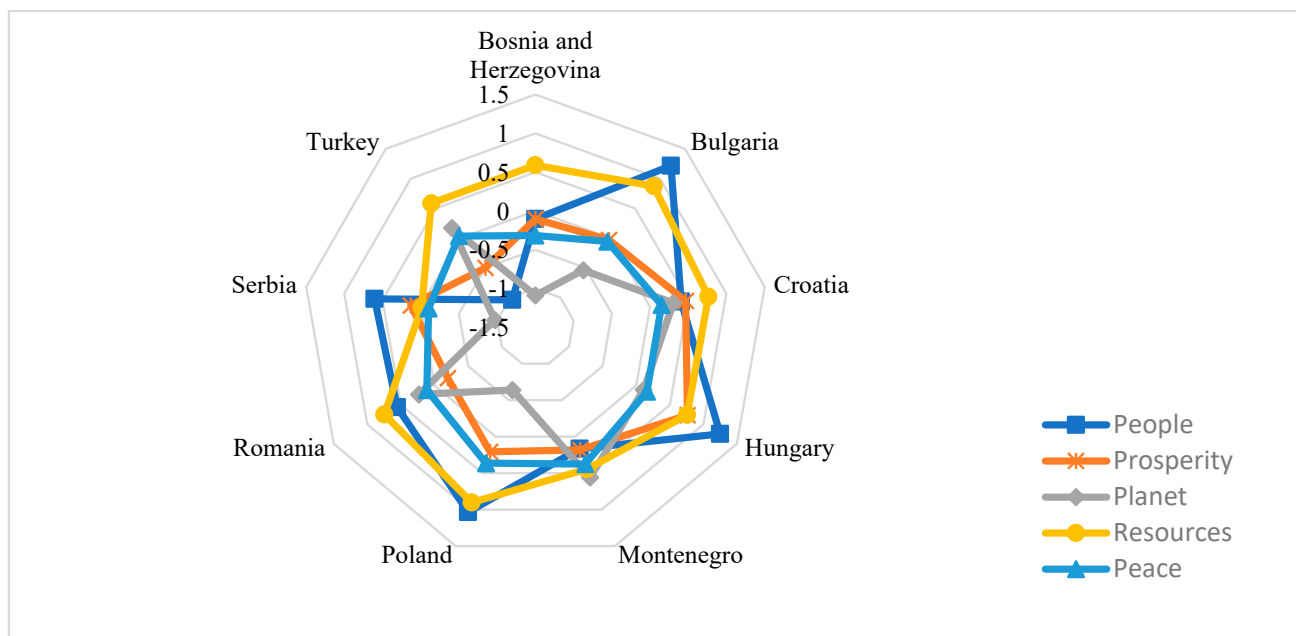
**Figure 6.** Advanced Economies—cluster-level SD pillars-H&LS relationships. Note: the numbers on the y-axis are the relationship score between SD pillars and H&LS (Appendix A Table A3).



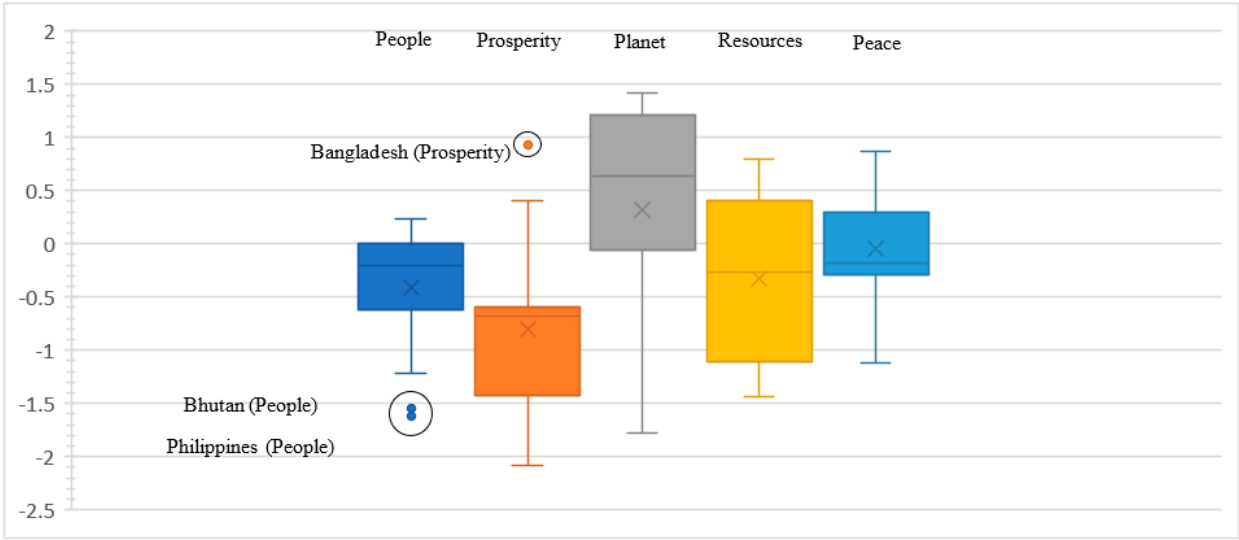
**Figure 7.** Advanced Economies—country-level SD pillars-H&LS relationships.



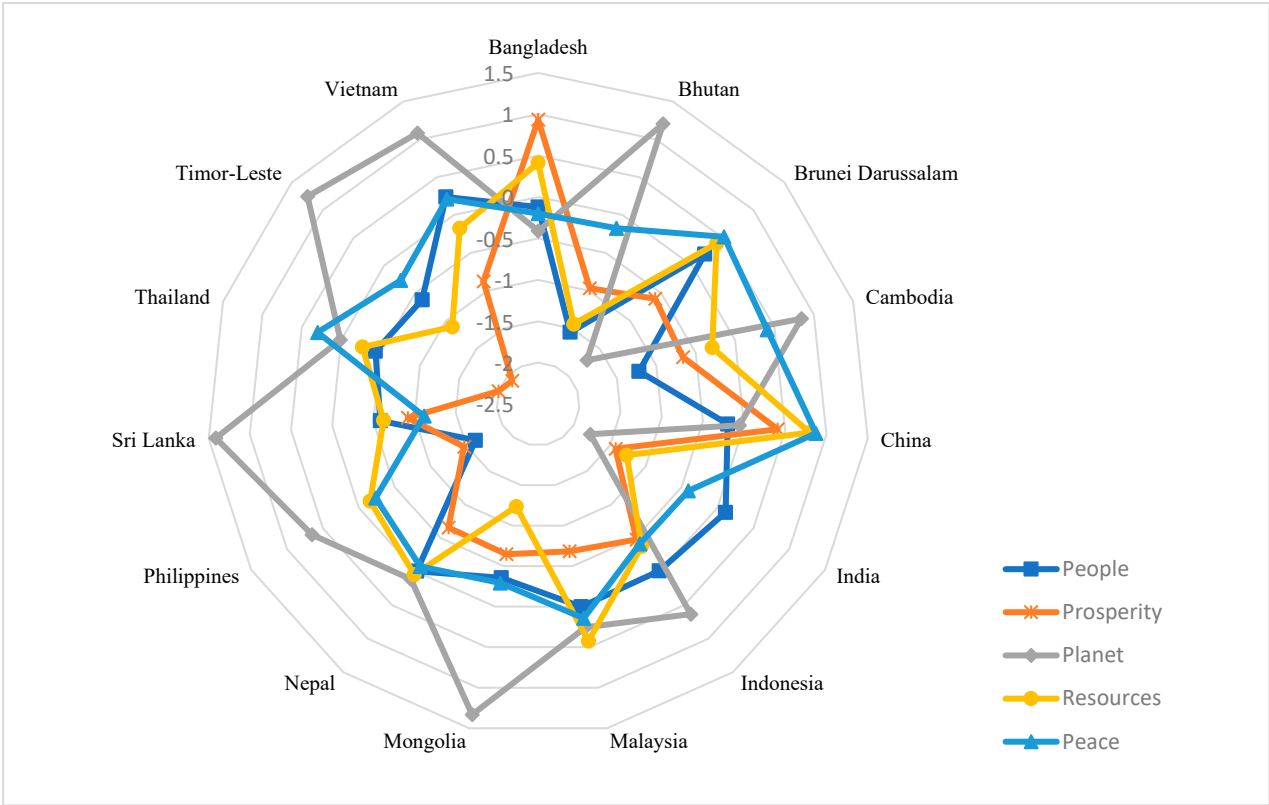
**Figure 8.** Emerging and Developing Europe—cluster-level SD pillars–H&LS relationships. Note: the numbers on the  $y$ -axis are the relationship score between SD pillars and H&LS (Appendix A Table A4).



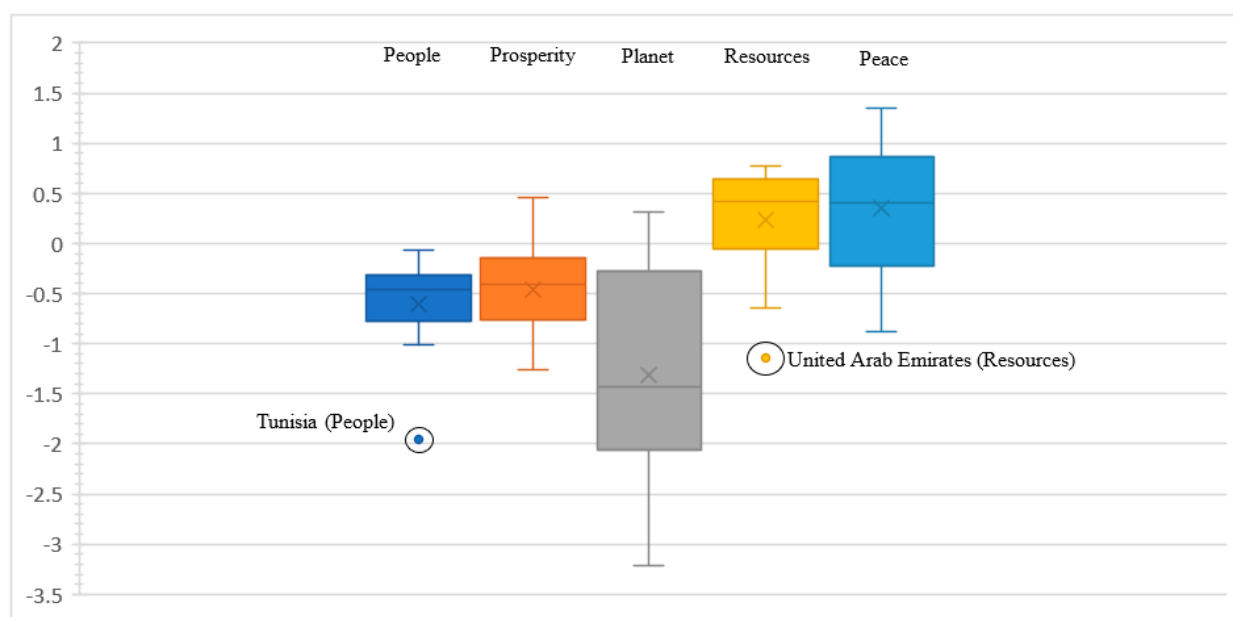
**Figure 9.** Emerging and Developing Europe—country-level SD pillars–H&LS relationships.



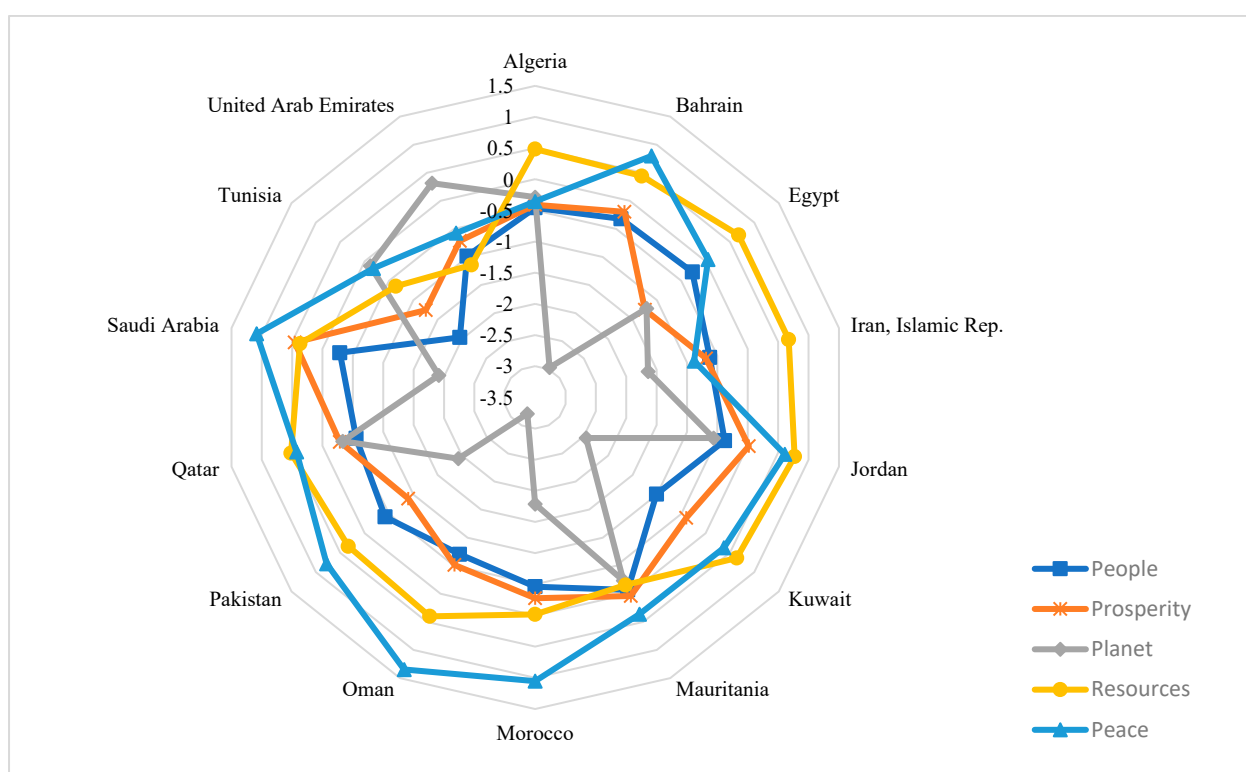
**Figure 10.** Emerging and Developing Asia—cluster-level SD pillars–H&LS relationships. Note: the numbers on the y-axis are the relationship score between SD pillars and H&LS (Appendix A Table A5).



**Figure 11.** Emerging and Developing Asia—country-level SD pillars–H&LS relationships.

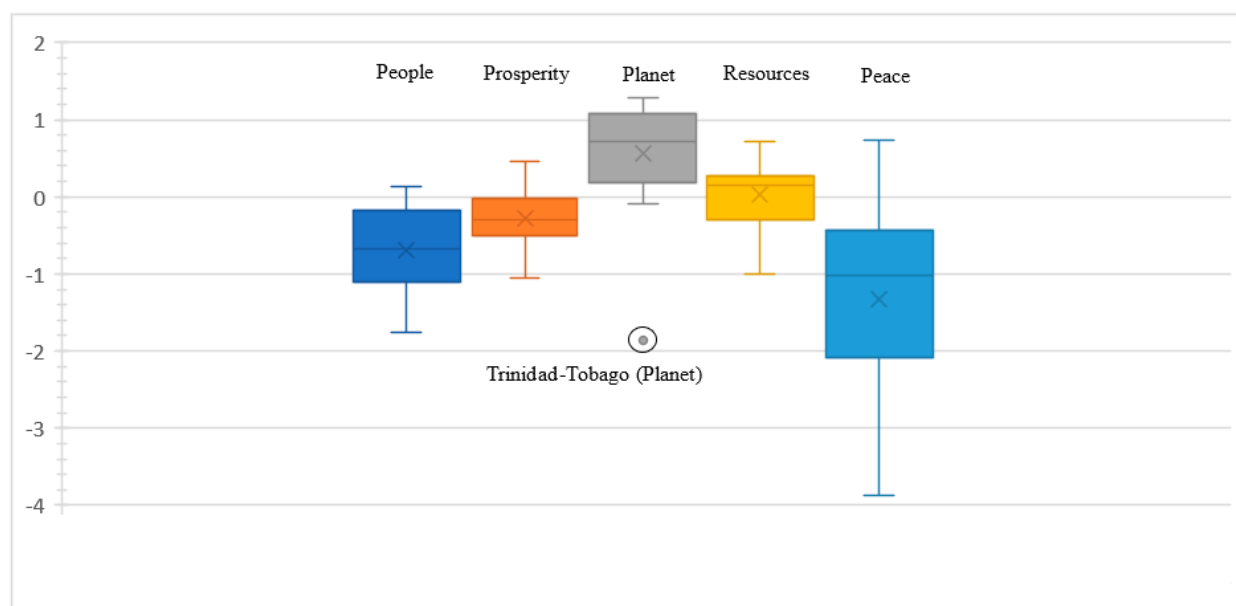


**Figure 12.** Middle East, North Africa, and Pakistan—cluster-level SD pillars-H&LS relationships. Note: the numbers on the y-axis are the relationship score between SD pillars and H&LS (Appendix A Table A6).

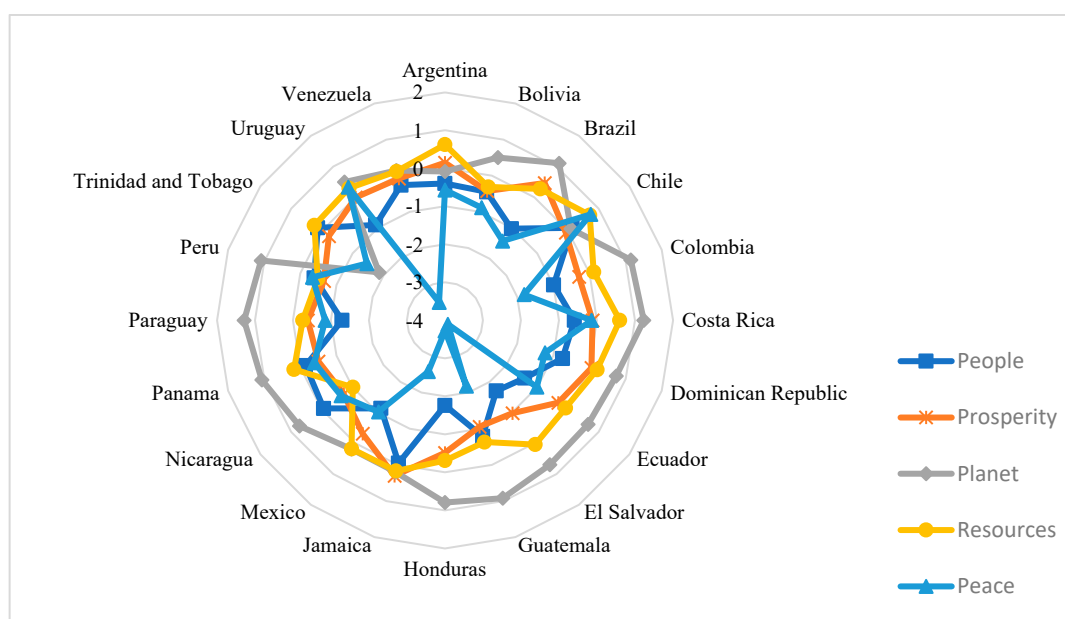


**Figure 13.** Middle East, North Africa, and Pakistan—country-level SD pillars-H&LS relationships.

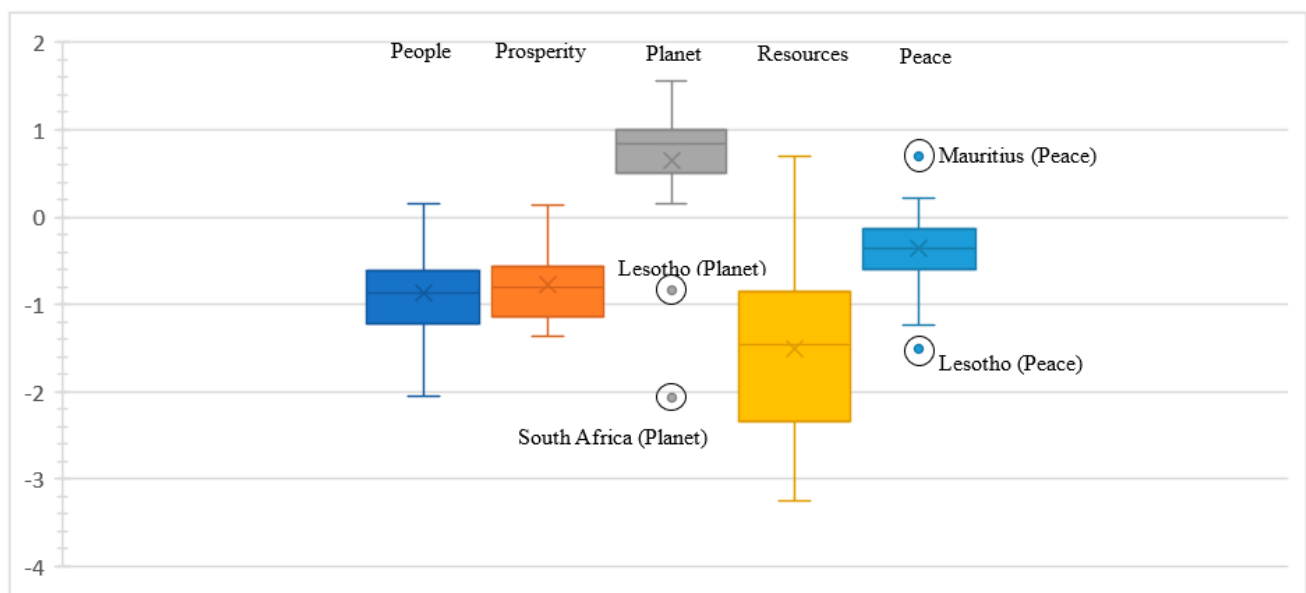




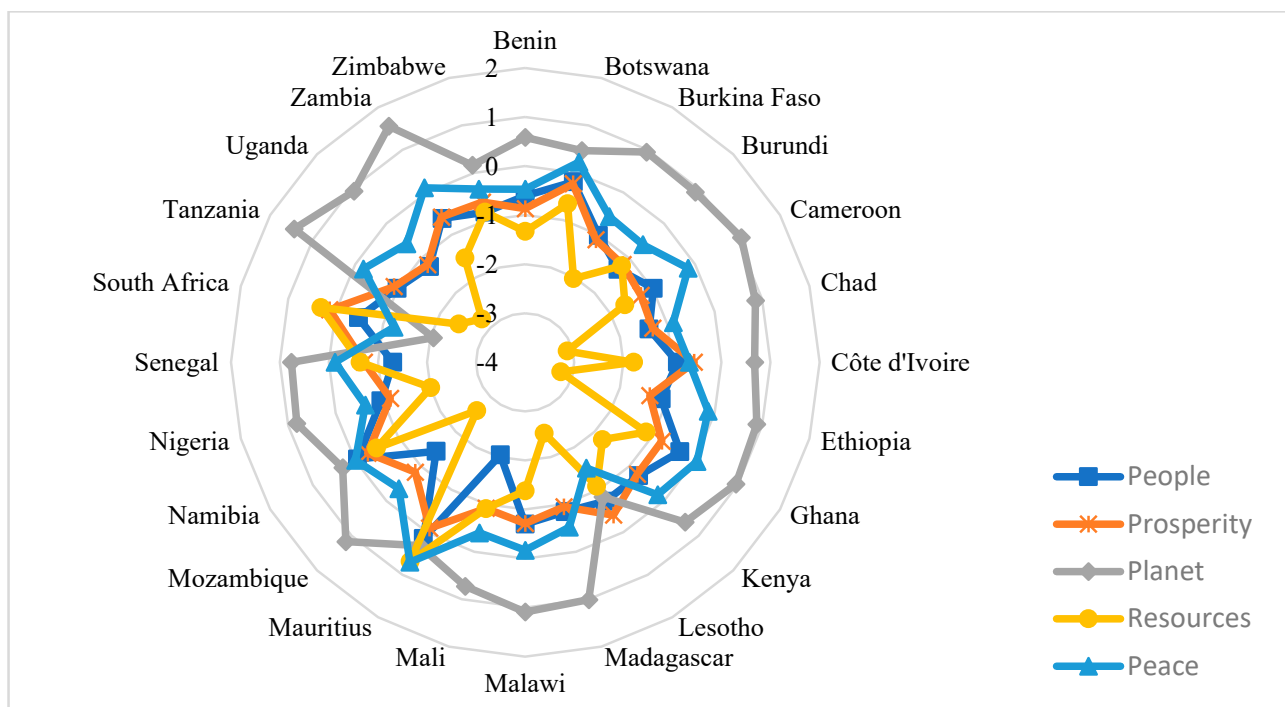
**Figure 14.** Latin America and the Caribbean—cluster-level SD pillars–H&LS relationships. Note: the numbers on the y-axis are the relationship score between SD pillars and H&LS (Appendix A Table A7).



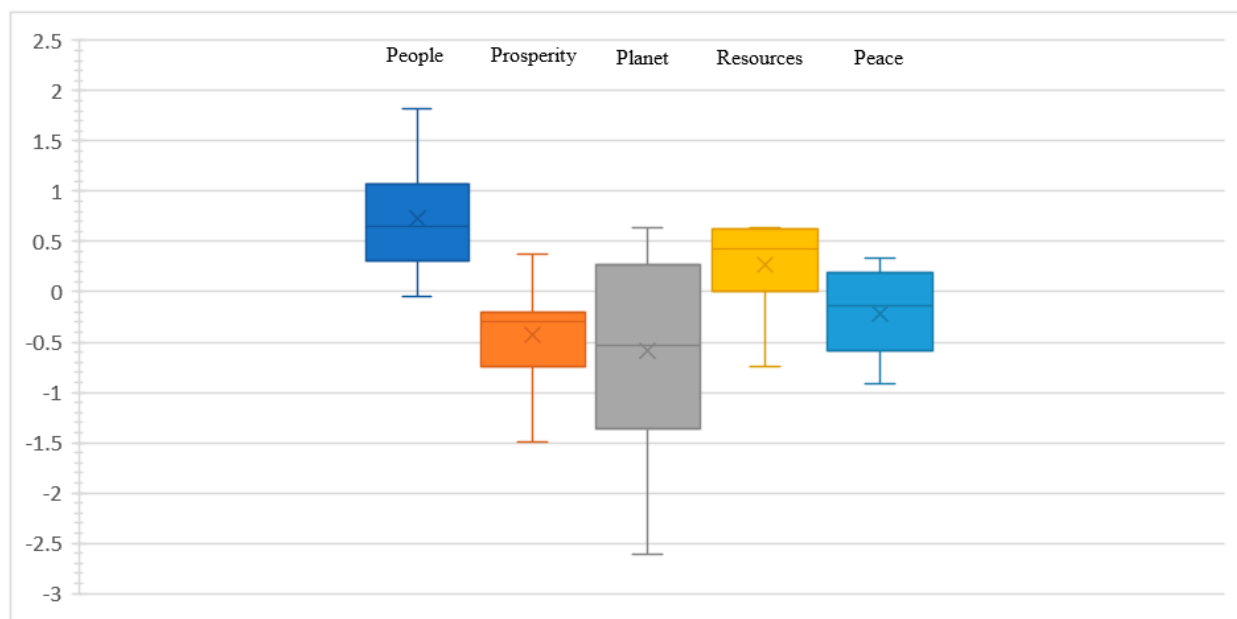
**Figure 15.** Latin America and the Caribbean—country-level SD pillars–H&LS relationships.



**Figure 16.** Sub-Saharan Africa—cluster-level SD pillars–H&LS relationships. Note: the numbers on the y-axis are the relationship score between SD pillars and H&LS (Appendix A Table A8).



**Figure 17.** Sub-Saharan Africa—country-level SD pillars–H&LS relationships.



**Figure 18.** Commonwealth—cluster-level SD pillars–H&LS relationships. Note: the numbers on the y-axis are the relationship score between SD pillars and H&LS (Appendix A Table A9).

#### 4.4.1. Advanced Economies

People, Prosperity, Resources, and Peace moderately and positively relate to H&LS (Figures 6 and 7); however, Planet negatively relates to it. This result is also partly supported by the findings of [126], who, in 23 developed economies, found that the environmental degradation relationship with people’s happiness was not significant. This cluster has two country outliers: Australia (Planet) and Portugal (People) (Figure 6). In Australia, Planet negatively relates to H&LS. Long-term climate change projections show that climate change is more extensive than expected, and that irreversibility of environmental changes is highly recognized [127]. Similarly, in Portugal, the People’s pillar is one of the central developmental issues in the country due to the low completion rate of higher education [128,129].

#### 4.4.2. Emerging and Developing Europe

People and Resources contribute the most to H&LS, followed by Prosperity and Peace. However, Planet is negatively associated with H&LS. This is partly in line with the findings of [130,131], who show that environmental degradation impacts life satisfaction. This cluster has no country outlier (Figures 8 and 9).

#### 4.4.3. Emerging and Developing Asia

Similar to Emerging and Developing Europe, the People and Prosperity pillars are negatively associated with H&LS. Likewise, the Resources and Peace pillars have negative associations with H&LS. In contrast, the Planet pillar strongly associates with H&LS (Figures 10 and 11). This result is partly in line with the findings of [132], who found that reducing environmental problems (climate change, carbon emissions, and poisoning the atmosphere) significantly increases the happiness and well-being of Asian people. In this cluster there are three country outliers—Bhutan, the Philippines, and Bangladesh (Figure 10). In Bangladesh, Prosperity positively and strongly relates to H&LS. This is partly in agreement with [133], who noted that when policymakers do incremental encouragement toward macroeconomics to formulate policy influences, the happiness of the Bangladeshis significantly increases. In contrast, in Bhutan and the Philippines, People-related issues such as low education and low health levels hinder their countries’ H&LS. In this regard,

the authors of [113,134–136] argued that poor levels of education and health negatively influence the H&LS levels in East Asian countries.

#### 4.4.4. Middle East, North Africa, and Pakistan

In this cluster, Planet is negatively related to H&LS. This may be so because the cultural-economic syndrome of oil-wealthy countries has a negative effect on democratic performance, which subsequently reduces the country's H&LS [137] (Figures 12 and 13). There are two negative country outliers: Tunisia and the United Arab Emirates. Tunisia is an outlier in terms of People (Figure 12), since a low level of secondary education is negatively associated with disparity of socioeconomic factors, causing unemployment and extreme poverty [138]. The United Arab Emirates is an outlier in terms of Resources since its water resources are scarce [139].

#### 4.4.5. Latin America and the Caribbean

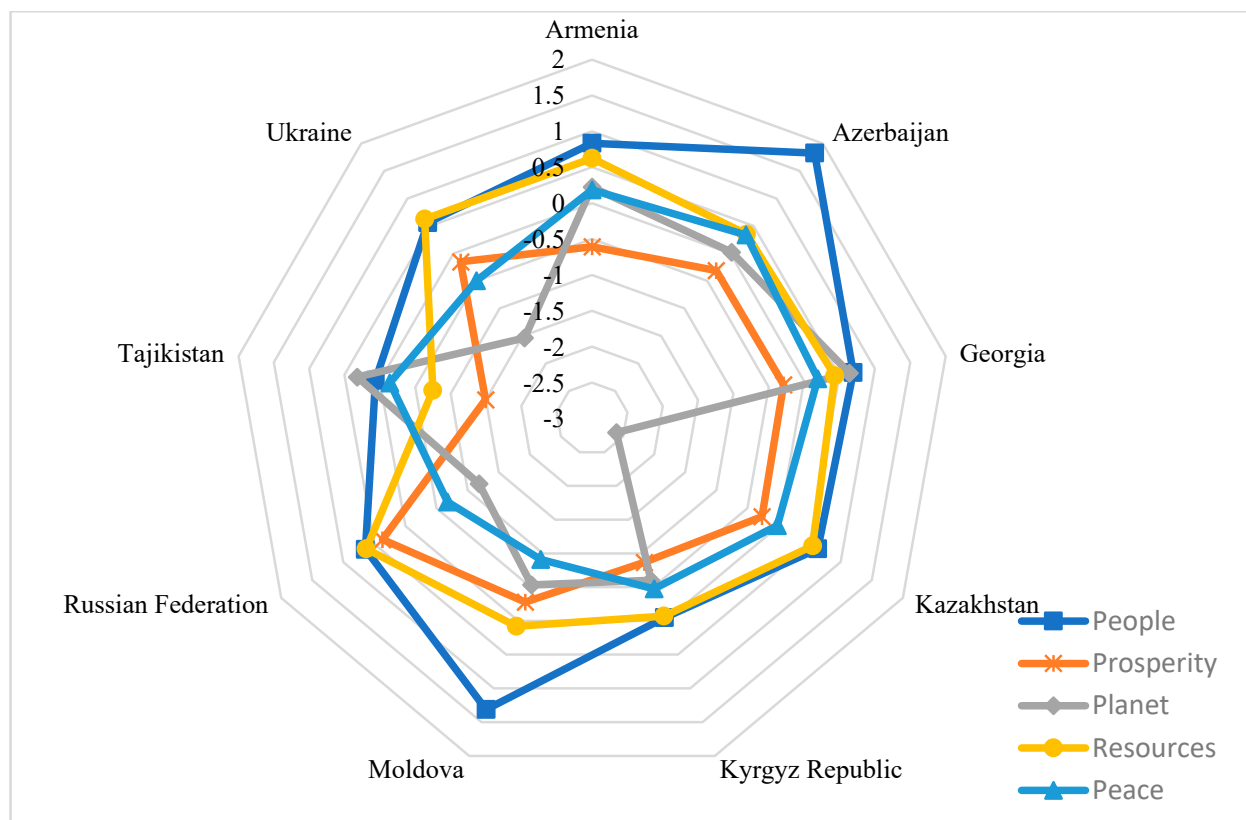
Planet and Resources are this cluster's only pillars positively associated with H&LS. People, Prosperity, and Peace are negatively related to H&LS (Figures 14 and 15). The authors of [140] suggested that the effects of inequality-related issues on Latin American countries are higher than in most other countries. Problems associated with education [141,142], health [143,144], income, and peace (e.g., internal war in Venezuela and issues related to drug cartels in Colombia and Mexico) [145] negatively influence individuals' H&LS in Latin America and the Caribbean. Trinidad and Tobago is the only negative country outlier (Figure 14). In this country, Planet negatively relates to H&LS. It seems that global oil politics (sudden price increases and decreases) is the primary influencer of Trinidad's economic wealth, since their economy primarily depends on oil; hence, extreme fluctuations in oil prices are one of the focal, affecting factors of their lives and their human well-being [146].

#### 4.4.6. Sub-Saharan Africa

People, Prosperity, Resources, and Peace in this cluster are negatively associated with H&LS (Figures 16 and 17). These results are partly in line with [147–150], who found lower individual-level education's negative effect on well-being in Sub-Saharan countries. There are three country outliers, Lesotho (Planet and Peace), South Africa (Planet), and Mauritius (Peace) (Figure 16). Peace negatively relates to H&LS in Lesotho since violence is at the heart of Lesotho's life due to the historical trend of militarization of politics, as well as the politicization of the military [151]. There are also significant issues in Lesotho's hydro-politics. Despite the binational Lesotho Highlands water project (LHWO), Lesotho still suffers from the depletion of its water resources [152,153]. Planet negatively associates with H&LS in South Africa. In South Africa, forested areas could be affected in addition to drastic changes in habitat due to a warming climate [154]. Finally, in Mauritius, H&LS levels are the highest due to Peace conditions. Despite the country's highly heterogeneous population, Mauritius has extreme Peace levels [155].

#### 4.4.7. Commonwealth

In this cluster, Prosperity, Planet, and Peace are negatively associated with H&LS. This is partly in agreement with [156,157], who noted that in Commonwealth countries, environmental factors cause resource-related issues such as clean water and renewable energy. Ineffective usage of resources negatively influences the Commonwealth countries' Peace, while causing adverse effects on the economy. Nevertheless, in these countries, People positively relate to H&LS, since having high human capital resources, natural resources, economic freedom, and sea access attract FDIs, increasing employment and reducing poverty [158] (Figures 18 and 19). This cluster has no country outliers (Figure 18).



**Figure 19.** Commonwealth—country-level SD pillars–H&LS relationships.

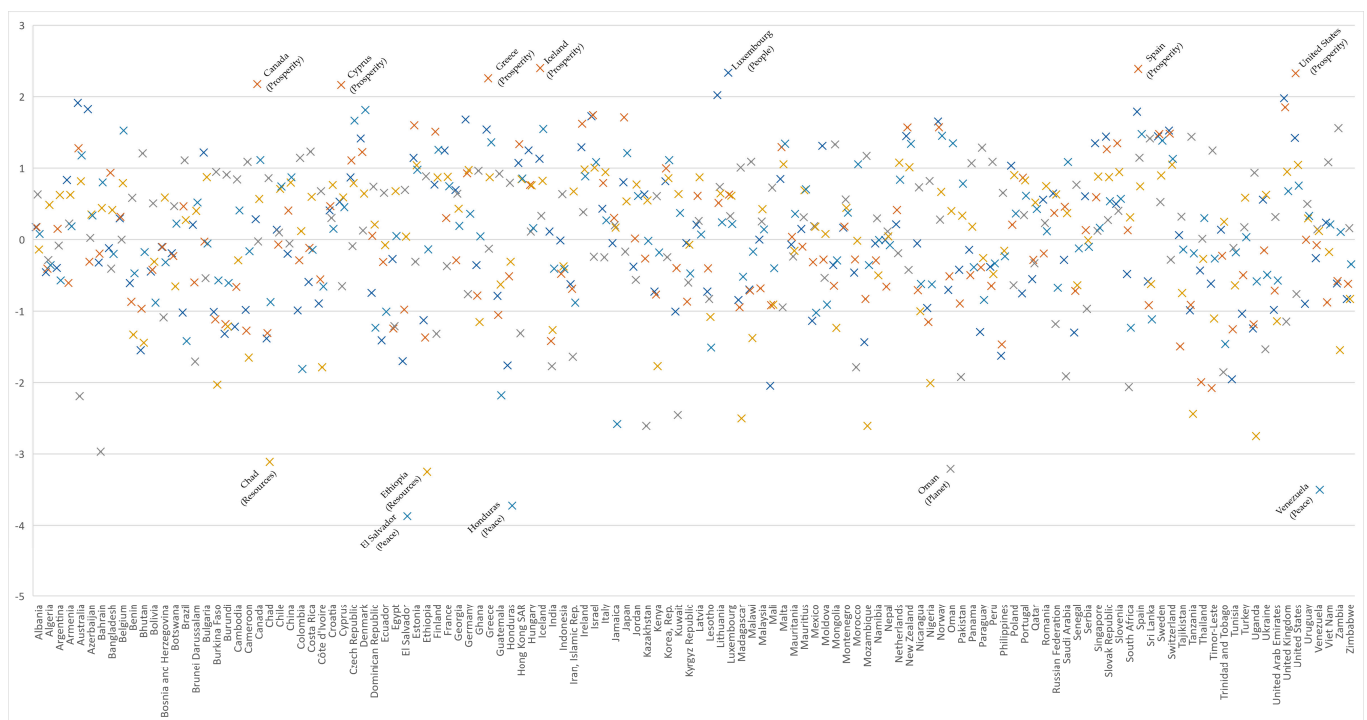
The above results at the global, country cluster, and country level support Hypothesis 2.

#### 4.4.8. Country Outliers, Globally and Per Country Cluster

Country outliers at the global level are entirely different from those at the country cluster level (Figures 6–18 and 20). The country cluster outliers refer to, by definition, only extreme cases. However, there are other countries with substantial deficits in the five SD pillars. As pointed out above, such deficits relate not only to different scales (e.g., different scales may produce deficits in different geographical scales), but also to specific contexts. For example, air pollution problems greatly differ, despite the same geographical scales, between agricultural land and heavily populated areas.

Global-level positive country outliers include Canada, Cyprus, Greece, Iceland, Spain, and the United States in the Prosperity pillar, and Luxembourg in the People pillar. Moreover, positive country outliers are strongly and positively related to H&LS. The only positive country outliers at the country cluster level were Bangladesh (People) and Mauritius (Peace).

Global-level negative country outliers were Chad and Ethiopia in the Resources pillar, El Salvador, Honduras, and Venezuela in the Peace pillar, and Oman in the Planet pillar. In all these countries, the referred SD pillars are strongly and negatively related to H&LS (Figure 20). On the other hand, negative country outliers at the cluster level were Portugal, Bhutan, Philippines, and Tunisia in the People pillar, Australia, Trinidad and Tobago, Lesotho, and South Africa in the Planet pillar, United Arab Emirates in the Resources pillar, and Lesotho in the Peace pillar.



**Figure 20.** Global level—country outliers SD pillars–H&LS relationship.

Furthermore, rankings of the top and bottom 25 countries in terms of a comprehensive set of development indicators encompassing the average of the five SD pillars per country and the top and bottom 25 countries according to original H&LS data [104], shown in Table A10 in the Appendix A, are contrasting. For example, Germany is the fourth highest country in average of the five SD pillars, and ranks the lowest in H&LS. A similar situation applies to Luxembourg. In contrast, Cameroon ranks the third lowest average of the five SD pillars, but ranks 17th among the top H&LS countries. These differences suggest that citizens' perceptions of H&LS are based on a narrow and diverse set of indicators. In turn, this represents a challenge for SD because factors positively contributing to H&LS may, at the same time, degrade the natural environment. These results suggest that in integrating different geographical scales and dimensions, the degree of consistency between both constructs and construct indicators should be decided by collaboratively determined agreements.

In paying more attention to the natural environment, the Global Footprint Network's calculations (footprintnetwork.org) show that 30% of the countries with the highest bio-capacity deficits, and resource demands higher than their capacity for biophysical regeneration, are from Advanced Economies. At the same time, considering our scores for the five SD pillars for the different country clusters, shown in Tables A3–A9 in the Appendix A, Advanced Economies rank the highest in all these pillars, except the Planet pillar. These contrasting results suggest that, among others, the increasing global transfer of resources through economic/financial transactions are a key component yet to appear in most research, including ours.

All cases above (e.g., different scales, different model configurations, different constructs, different construct indicators) reaffirm the perspective (parallax) effect. Because of such effects, as well as the collective and complex nature of global and national SD, the only way forward is to create, and work with, collaboratively determined perspectives.

## 5. Implications, Limitations, and Future Research

### 5.1. Theoretical Implications

This study explores a set of different “Social-turn” SD models relating the “Neoliberal-turn” with SD pillars. Our research makes several theoretical contributions. First, it examines a set of different “Social-turn” SD models relating six constructs from the “Neoliberal-turn” (e.g., Institutional Enhancers, Financial Enhancers, FDII, FDIO, GC-Ins, GC-InnS), with five SD pillars (Planet, People, Peace, Prosperity, and Resources), synthesizing the 17 U.N. SDGs, and H&LS at the global and country cluster levels. This study uses 11 years of data (from 2007 to 2017) of 108 indicators from 125 countries. At the country level, we also related the five SD pillars to H&LS. Second, the findings indicate that the different model configurations and levels examined may produce different results, reaffirming the need for model specificity. However, SD requires specific models that need to be consistent with desirable global results (e.g., making sure that socioeconomic activities are carried out well below tipping points). Finally, the studied model configurations are just a few among many possible because knowledge is incomplete, and global national (sustainable) development is diverse, multiple, and complex. Thus, the nomological network of global and national SD offers many other possibilities yet to be explored.

### 5.2. Practical Implications

Our findings reaffirm that a comprehensive approach is needed, and that social, economic, and environmental constructs are necessary in modeling SD. Given that different models address different questions, and thus may produce different answers for different uses, it is essential to “properly” situate the results of a given model. Therefore, policymakers need to be cognizant of models’ assumptions and limitations. Similarly, since a diversity of space and time integrations are required, policymakers ought to facilitate dialogue and collaboration among different stakeholders to reach common ground and SD progress.

### 5.3. Limitations and Future Research

As with any research, our study has limitations. As noted above, our research examines only a narrow set of vast multiple possibilities yet to be explored in comprehensive examinations of global and national development. Thus, it is necessary to study alternative models incorporating multiple additional relationships and/or constructs, as well as to carry out sensitivity analysis involving differential aggregation levels. Moreover, our approach can be expanded to include other possibilities. For example, future studies may incorporate relationships among SD pillars.

The model constituents of the “Neoliberal-turn” (e.g., Financial Enhancers) assume that free market assumptions will apply to all countries. However, this assumption has been shown not to hold, given that in many countries, the market system is not sufficiently developed and/or does not function “freely” [1], which prompts questions about how to appropriately model such countries and the degree of confidence to give results from models based on such assumptions.

Our approach is static. SD goals entail transitions. Therefore, dynamic models may be more informative in the future. Similarly, future studies must explore different integrations within and between levels over time, since phenomena occur at different spaces and times. Formulating different construct scenario sets considering diverse periods will shed light on more desirable paths for national SD. Time considerations are key because disorderly or delayed sustainability transitions may increase risks, costs, and the probability of failure. In addition, many transitions and integrations are required to progress toward national SD. The specifics and effectiveness of these transitions and integrations depend fundamentally on the quality of social organizing. Thus, in accordance with postnormal science, governance is the most critical factor in progressing toward a more sustainable world. In other words, normal science can only inform and help advance sustainability. However, it needs to create synergies with the willingness and ability to collaboratively formulate and implement desirable SD paths between different actors, at different spatial



scales (levels), and at different times. Such exercises may help the much-needed democratic dialogs for SD, because the central problem of SD is the definition of the problem. The problem of SD may be viewed as a postnormal science problem [10] in which stakes, uncertainties, and diversity of interests are high. In this framework, models inform and support democratically made decisions. Thus, future studies should iterate normal science results with postnormal science social processes. The problem of sustainable national and global development starts and finishes with the quality of social relationships.

## 6. Conclusions

This study shows that most relationships depicted in the “Social-turn 1”, “Social-turn 1.2”, and “Social-turn 2” models differ in these configurations. In addition to model configuration differences, our research shows relationship differences between the global, country cluster, and country levels. Planet, an SD pillar constituted by biophysical variables, is the least of the five SD pillars positively related to the “neoliberal-turn” constructs and H&LS. The results show model configurations and scale effects. Furthermore, the findings reveal synergies between neoliberal and the five SD pillars, and both negative and nonsignificant relationships. The results’ diversity suggests the centrality of context and for both research and institutions; reports about development may be biased towards positive outcomes. Similarly, the diversity of results calls for further model integration and specificity. The diverse findings entail caution and difficulties in generalizing knowledge. Similarly, the results suggest that it is not advisable, since there may be many different and partly legitimate alternatives, to rely on just one perspective (e.g., giving primacy to economic-based analyses) or in analyses at only one scale. The perspective effects and the stakes involved in SD urgently call for more collaborative efforts at all levels. Thus, deficits appear to be worse for the environmental and social dimensions, reaffirming the need to continue taking a “Social-turn” approach. Addressing the complex challenges of SD entails strengthening, reconfiguring, and/or creating new relationships. Paraphrasing [18], in cocreating societies and nature, we urgently need to do it creatively and more effectively than in the past.

**Author Contributions:** A.C. and L.P. contributed equally to this work. L.P.: conceptualization, methodology, formal analysis, investigation, resources, data curation, writing—original draft, writing—review and editing, supervision, project administration; A.C.: conceptualization, methodology, formal analysis, investigation, resources, data curation, writing—original draft, writing—review and editing, visualization; M.R.A.: conceptualization, methodology, formal analysis, investigation, resources, data curation, writing—original draft, writing—review and editing, visualization. All authors have read and agreed to the published version of the manuscript.

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**Institutional Review Board Statement:** This study was conducted in accordance with the Declaration of Helsinki. Since the data used in this paper is publicly available data, it was not required for this research to be approved by the Institutional Review Board of Texas A&M International University.

**Informed Consent Statement:** Informed consent was not required because the data is secondary data, and it is publicly available.

**Data Availability Statement:** Data supporting reported results can be found at the sources referred to in the Methods section.

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**Conflicts of Interest:** The authors declare no conflict of interest.



## Appendix A

**Table A1.** Pillars and Indicators.

| Global Competitiveness (Institutional) |                                                            |
|----------------------------------------|------------------------------------------------------------|
| Higher Education and Training          | Secondary education enrollment, gross %                    |
|                                        | Tertiary education enrollment, gross %                     |
|                                        | Quality of the education system, 1–7 (best)                |
|                                        | Quality of math and science education, 1–7 (best)          |
|                                        | Quality of management schools, 1–7 (best)                  |
|                                        | Internet access in schools, 1–7 (best)                     |
|                                        | Availability of research and training services, 1–7 (best) |
|                                        | Extent of staff training, 1–7 (best)                       |
| Goods Market Efficiency                | Intensity of local competition, 1–7 (best)                 |
|                                        | Extent of market dominance, 1–7 (best)                     |
|                                        | Effectiveness of antimonopoly policy, 1–7 (best)           |
|                                        | No. procedures to start a business                         |
|                                        | No. days to start a business                               |
|                                        | Agricultural policy costs, 1–7 (best)                      |
|                                        | Total tax rate, % profits                                  |
|                                        | Prevalence of trade barriers, 1–7 (best)                   |
|                                        | Prevalence of foreign ownership, 1–7 (best)                |
|                                        | Business impact of rules on FDI, 1–7 (best)                |
| Goods Market Efficiency                | Burden of customs procedures, 1–7 (best)                   |
|                                        | Imports as a percentage of GDP                             |
|                                        | Trade tariffs, % duty                                      |
|                                        | Degree of customer orientation, 1–7 (best)                 |
|                                        | Buyer sophistication, 1–7 (best)                           |
| Labor Market Efficiency                | Cooperation in labor–employer relations, 1–7 (best)        |
|                                        | Hiring and firing practices, 1–7 (best)                    |
|                                        | Flexibility of wage determination, 1–7 (best)              |
|                                        | Redundancy costs, weeks of salary                          |
|                                        | Pay and productivity, 1–7 (best)                           |
|                                        | Reliance on professional management, 1–7 (best)            |
|                                        | Women in labor force, ratio to men                         |
| Financial Market Efficiency            | Financing through local equity market, 1–7 (best)          |
|                                        | Ease of access to loans, 1–7 (best)                        |
|                                        | Venture capital availability, 1–7 (best)                   |
|                                        | Soundness of banks, 1–7 (best)                             |
|                                        | Regulation of securities exchanges, 1–7 (best)             |

Table A1. Cont.

|                                                           |                                                              |
|-----------------------------------------------------------|--------------------------------------------------------------|
| <b>Global Competitiveness (Institutional)</b>             |                                                              |
| Technological Readiness                                   | Legal rights index, 0–10 (best)                              |
|                                                           | Availability of latest technologies, 1–7 (best)              |
|                                                           | Firm-level technology absorption, 1–7 (best)                 |
|                                                           | FDI and technology transfer, 1–7 (best)                      |
|                                                           | Individuals using Internet, %                                |
|                                                           | Fixed broadband Internet subscriptions/100 pop.              |
| <b>Global Competitiveness (Innovation Sophistication)</b> |                                                              |
| Business Sophistication                                   | Local supplier quantity, 1–7 (best)                          |
|                                                           | Local supplier quality, 1–7 (best)                           |
|                                                           | State of cluster development, 1–7 (best)                     |
|                                                           | Nature of competitive advantage, 1–7 (best)                  |
|                                                           | Production process sophistication, 1–7 (best)                |
|                                                           | Control of international distribution, 1–7 (best)            |
|                                                           | Extent of marketing, 1–7 (best)                              |
|                                                           | Value chain breadth, 1–7 (best)                              |
| Innovation                                                | Capacity for innovation, 1–7 (best)                          |
|                                                           | Quality of scientific research institutions, 1–7 (best)      |
|                                                           | Company spending on R&D, 1–7 (best)                          |
|                                                           | University–industry collaboration in R&D, 1–7 (best)         |
|                                                           | Government procurement of advanced tech products, 1–7 (best) |
|                                                           | Availability of scientists and engineers, 1–7 (best)         |
| <b>Economic Enhancers (Institutional)</b>                 |                                                              |
|                                                           | Business Freedom                                             |
|                                                           | Property Rights                                              |
|                                                           | Government Integrity                                         |
|                                                           | Judicial Effectiveness                                       |
| <b>Economic Enhancers (Financial)</b>                     |                                                              |
|                                                           | Government Spending                                          |
|                                                           | Monetary Freedom                                             |
|                                                           | Trade Freedom                                                |
|                                                           | Investment Freedom                                           |
|                                                           | Financial Freedom                                            |
| <b>Foreign Direct Investment</b>                          |                                                              |
|                                                           | FDI IN % of the GDP and Annual USD                           |
|                                                           | FDI OUT % of the GDP and Annual USD                          |

Table A1. Cont.

| Sustainable Development Dimension (People)     |                                                                                                     |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| SDG1                                           | Poverty headcount ratio at USD 1.90 a day (2011 PPP) (% of the population)                          |
|                                                | Poverty headcount ratio at national poverty lines (% of the population)                             |
| SDG3                                           | Maternal mortality ratio (modeled estimate per 100,000 live births)                                 |
| SDG4                                           | Educational attainments, at least completed upper secondary, population 25+, total (%) (cumulative) |
|                                                | Educational attainment, at least completed postsecondary, population 25+, total (%) (cumulative)    |
|                                                | Educational attainment, at least completed lower secondary, population 25+, total (%) (cumulative)  |
| SDG5                                           | Women Business and the Law Index Score (scale 1-100)                                                |
| Sustainable Development Dimension (Prosperity) |                                                                                                     |
| SDG8                                           | GDP per capita growth (annual %)                                                                    |
|                                                | Unemployment, total (% of the total labor force) (modeled ILO estimate)                             |
| SDG9                                           | Research and development expenditure (% of GDP)                                                     |
|                                                | Individuals using the Internet (% of the population)                                                |
| SDG10                                          | Adjusted net savings, excluding particulate emission damage (% of GNI)                              |
| SDG11                                          | PM2.5 air pollution, mean annual exposure (micrograms per cubic meter)                              |
| Sustainable Development Dimension (Planet)     |                                                                                                     |
| SDG13                                          | CO <sub>2</sub> emissions (metric tons per capita)                                                  |
| SDG14                                          | CO <sub>2</sub> emissions (kg per PPP USD of GDP)                                                   |
| SDG15                                          | Forest area (% of land area)                                                                        |
|                                                | Annual freshwater withdrawals, total (% of internal resources)                                      |
| Sustainable Development Dimension (Resources)  |                                                                                                     |
| SDG2                                           | Prevalence of undernourishment (% of the population)                                                |
| SDG6                                           | People using at least basic drinking water services, rural (% of rural population)                  |
|                                                | People using at least basic drinking water services, urban (% of urban population)                  |
|                                                | People using safely managed drinking water services (% of the population)                           |
| SDG7                                           | Renewable energy consumption (% of total final energy consumption)                                  |
| Sustainable Development Dimension (Peace)      |                                                                                                     |
| SDG16                                          | Intentional homicides (per 100,000 people)                                                          |

Table A1. Cont.

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| SDG17<br>(adjusted average<br>of following<br>indicators)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Property rights, 1–7 (best)                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Intellectual property protection, 1–7 (best)                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Diversion of public funds, 1–7 (best)                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Public trust in politicians, 1–7 (best)                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Judicial independence, 1–7 (best)                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Favoritism in decisions of government officials, 1–7 (best) |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Wastefulness of government spending, 1–7 (best)             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Burden of government regulation, 1–7 (best)                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Transparency of government policymaking, 1–7 (best)         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Business costs of terrorism, 1–7 (best)                     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Business costs of crime and violence, 1–7 (best)            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Organized crime, 1–7 (best)                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Reliability of police services, 1–7 (best)                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Ethical behavior of firms, 1–7 (best)                       |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Strength of auditing and reporting standards, 1–7 (best)    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Efficacy of corporate boards, 1–7 (best)                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Protection of minority shareholders' interests, 1–7 (best)  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Strength of investor protection, 0–10 (best) *              |
| <b>Happiness and Life Satisfaction</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                             |
| Adjusted to 100 (score) life satisfaction in the Cantril Ladder (Helliwell, Huang, and Wang, 2019) [104]<br>The underlying source of the happiness scores in the World Happiness Report is the Gallup World Poll—a set of nationally representative surveys undertaken in more than 160 countries in over 140 languages. The main life evaluation question asked in the poll is: “Please imagine a ladder, with steps numbered from 0 at the bottom to 10 at the top. The top of the ladder represents the best possible life for you, and the bottom of the ladder represents the worst possible life for you. On which step of the ladder would you say you personally feel you stand at this time?” (Also known as the “Cantril Ladder.”) |                                                             |

Table A2. Country Cluster Population and GDP.

|                    | Populations      | Percentages | GDP                   | Percentages |
|--------------------|------------------|-------------|-----------------------|-------------|
| Advanced Economies | 977,693,601.00   | 15.76057015 | 36,083,063,161,670.50 | 54.14794    |
| Emerging Europe    | 164,754,708.00   | 2.655871052 | 1,880,760,824,314.84  | 2.822358    |
| Emerging Asia      | 3,208,431,222.00 | 51.72040125 | 16,993,899,236,746.00 | 25.50184    |
| Middle East        | 475,969,475.00   | 7.672700622 | 5,467,148,817,836.51  | 8.204261    |
| Latin America      | 542,274,035.00   | 8.741540254 | 3,752,384,843,371.03  | 5.631005    |
| Sub-Saharan        | 598,914,908.00   | 9.654599776 | 849,177,983,890.26    | 1.274316    |
| Commonwealth       | 235,377,230.00   | 3.794316892 | 1,611,488,033,222.07  | 2.418275    |
| Clusters Total     | 6,203,415,179.00 |             | 66,637,922,901,051.30 |             |
| World              | 6,674,000,000.00 |             | 67,500,000,000,000.00 |             |
| <b>% Of World</b>  | <b>92.94%</b>    |             | <b>98.72%</b>         |             |

Source: World Bank Group, 2019 [113].

**Table A3.** Advanced economies SD pillars relationships with H&LS score.

| Countries       | People | Prosperity | Planet | Resources | Peace |
|-----------------|--------|------------|--------|-----------|-------|
| Australia       | 1.913  | 1.278      | −2.192 | 0.816     | 1.179 |
| Belgium         | 0.296  | 0.319      | 0      | 0.79      | 1.526 |
| Canada          | 0.285  | 2.177      | −0.026 | 0.569     | 1.114 |
| Cyprus          | 0.529  | 2.164      | −0.652 | 0.59      | 0.453 |
| Czech Republic  | 0.87   | 1.108      | −0.092 | 0.79      | 1.665 |
| Denmark         | 1.414  | 1.224      | 0.127  | 0.644     | 1.814 |
| Estonia         | 1.144  | 1.599      | −0.309 | 1.04      | 0.976 |
| Finland         | 0.768  | 1.509      | −1.318 | 0.869     | 1.257 |
| France          | 1.247  | 0.301      | −0.372 | 0.878     | 0.747 |
| Germany         | 1.68   | 0.928      | −0.763 | 0.973     | 0.36  |
| Greece          | 1.539  | 2.257      | −0.127 | 0.872     | 1.361 |
| Hong Kong SAR   | 1.072  | 1.336      | −1.312 | 0.844     | 0.853 |
| Iceland         | 1.131  | 2.4        | 0.333  | 0.823     | 1.547 |
| Ireland         | 1.291  | 1.62       | 0.384  | 0.981     | 0.886 |
| Israel          | 1.727  | 1.742      | −0.241 | 1.007     | 1.083 |
| Italy           | 0.432  | 0.792      | −0.249 | 0.943     | 0.269 |
| Japan           | 0.802  | 1.711      | −0.169 | 0.535     | 1.21  |
| Korea, Rep.     | 0.817  | 0.997      | −0.247 | 0.859     | 1.111 |
| Latvia          | 0.207  | 0.612      | 0.262  | 0.871     | 0.071 |
| Lithuania       | 2.021  | 0.512      | 0.736  | 0.646     | 0.241 |
| Luxembourg      | 2.334  | 0.629      | 0.328  | 0.614     | 0.218 |
| Malta           | 0.848  | 1.293      | −0.949 | 1.054     | 1.341 |
| Netherlands     | 0.214  | 0.413      | −0.191 | 1.076     | 0.838 |
| New Zealand     | 1.448  | 1.57       | −0.424 | 1.013     | 1.339 |
| Norway          | 1.652  | 1.571      | 0.278  | 0.668     | 1.452 |
| Portugal        | −0.753 | 0.866      | 0.342  | 0.828     | 0.613 |
| Singapore       | 1.348  | 0.593      | 0.123  | 0.882     | 0.165 |
| Slovak Republic | 1.441  | 1.264      | 0.272  | 0.873     | 0.536 |
| Slovenia        | 0.499  | 1.347      | 0.402  | 0.944     | 0.571 |
| Spain           | 1.789  | 2.388      | 1.146  | 0.744     | 1.476 |
| Sweden          | 1.445  | 1.477      | 0.524  | 0.897     | 1.385 |
| Switzerland     | 1.525  | 1.482      | −0.282 | 1.048     | 1.13  |
| United Kingdom  | 1.978  | 1.85       | −1.148 | 0.949     | 0.678 |
| United States   | 1.423  | 2.327      | −0.761 | 1.045     | 0.754 |

Note: Scores are created by converting categorical data (country) to numerical data to build a number (score; between −4 and +4).

**Table A4.** Emerging Europe SD pillars relationships with H&LS score.

| Countries              | People | Prosperity | Planet | Resources | Peace |
|------------------------|--------|------------|--------|-----------|-------|
| Bosnia and Herzegovina | −0.104 | −0.104     | −1.09  | 0.589     | −0.32 |
| Bulgaria               | 1.219  | −0.028     | −0.54  | 0.874     | −0.06 |
| Croatia                | 0.408  | 0.467      | 0.303  | 0.765     | 0.15  |
| Hungary                | 1.248  | 0.764      | 0.112  | 0.758     | 0.16  |
| Montenegro             | 0.166  | 0.182      | 0.561  | 0.444     | 0.376 |
| Poland                 | 1.035  | 0.208      | −0.64  | 0.902     | 0.364 |
| Romania                | 0.558  | −0.194     | 0.232  | 0.749     | 0.117 |
| Serbia                 | 0.605  | 0.132      | −0.97  | −0.011    | −0.1  |
| Turkey                 | −1.038 | −0.498     | 0.172  | 0.586     | 0.034 |

Note: Scores are created by converting categorical data (country) to numerical data to build a number (score; between −4 and +4).

**Table A5.** Emerging Asia SD pillars relationships with H&LS score.

| Countries         | People | Prosperity | Planet | Resources | Peace |
|-------------------|--------|------------|--------|-----------|-------|
| Bangladesh        | −0.12  | 0.935      | −0.41  | 0.413     | −0.2  |
| Bhutan            | −1.549 | −0.969     | 1.206  | −1.443    | −0.18 |
| Brunei Darussalam | 0.207  | −0.599     | −1.71  | 0.401     | 0.519 |
| Cambodia          | −1.219 | −0.662     | 0.842  | −0.29     | 0.408 |
| China             | −0.199 | 0.406      | −0.06  | 0.798     | 0.872 |
| India             | 0.113  | −1.421     | −1.77  | −1.266    | −0.41 |
| Indonesia         | −0.012 | −0.479     | 0.635  | −0.376    | −0.41 |
| Malaysia          | 0      | −0.683     | 0.254  | 0.425     | 0.142 |
| Mongolia          | −0.357 | −0.647     | 1.331  | −1.235    | −0.29 |
| Nepal             | −0.007 | −0.658     | 0.114  | 0.044     | −0.08 |
| Philippines       | −1.626 | −1.468     | 0.653  | −0.158    | −0.23 |
| Sri Lanka         | −0.585 | −0.918     | 1.414  | −0.624    | −1.12 |
| Thailand          | −0.433 | −1.995     | 0.011  | −0.271    | 0.3   |
| Timor-Leste       | −0.617 | −2.079     | 1.247  | −1.105    | −0.27 |
| Viet Nam          | 0.238  | −0.878     | 1.082  | −0.176    | 0.212 |

Note: Scores are created by converting categorical data (country) to numerical data to build a number (score; between −4 and +4).

**Table A6.** Middle East SD pillars relationships with H&LS score.

| Countries | People | Prosperity | Planet | Resources | Peace |
|-----------|--------|------------|--------|-----------|-------|
| Algeria   | −0.457 | −0.408     | −0.29  | 0.485     | −0.36 |
| Bahrain   | −0.321 | −0.196     | −2.97  | 0.442     | 0.801 |
| Egypt     | −0.273 | −1.246     | −1.21  | 0.678     | 0.048 |

**Table A6.** *Cont.*

| Countries            | People | Prosperity | Planet | Resources | Peace |
|----------------------|--------|------------|--------|-----------|-------|
| Iran, Islamic Rep.   | −0.625 | −0.688     | −1.64  | 0.674     | −0.88 |
| Jordan               | −0.38  | 0.016      | −0.56  | 0.771     | 0.609 |
| Kuwait               | −1.008 | −0.399     | −2.45  | 0.637     | 0.373 |
| Mauritania           | −0.071 | 0.037      | −0.24  | −0.157    | 0.361 |
| Morocco              | −0.462 | −0.278     | −1.79  | −0.017    | 1.053 |
| Oman                 | −0.705 | −0.515     | −3.21  | 0.399     | 1.348 |
| Pakistan             | −0.422 | −0.894     | −1.92  | 0.334     | 0.782 |
| Qatar                | −0.554 | −0.285     | −0.33  | 0.519     | 0.427 |
| Saudi Arabia         | −0.285 | 0.459      | −1.91  | 0.371     | 1.085 |
| Tunisia              | −1.956 | −1.255     | −0.12  | −0.641    | −0.18 |
| United Arab Emirates | −0.983 | −0.714     | 0.317  | −1.142    | −0.57 |

Note: Scores are created by converting categorical data (country) to numerical data to build a number (score; between −4 and +4).

**Table A7.** Latin America SD pillars relationships with H&LS score.

| Countries           | People | Prosperity | Planet | Resources | Peace |
|---------------------|--------|------------|--------|-----------|-------|
| Argentina           | −0.398 | 0.15       | −0.08  | 0.624     | −0.57 |
| Bolivia             | −0.446 | −0.423     | 0.506  | −0.309    | −0.88 |
| Brazil              | −1.021 | 0.466      | 1.11   | 0.273     | −1.42 |
| Chile               | 0.138  | −0.071     | 0.099  | 0.709     | 0.742 |
| Colombia            | −0.992 | −0.29      | 1.143  | 0.118     | −1.81 |
| Costa Rica          | −0.594 | −0.117     | 1.23   | 0.598     | −0.14 |
| Dominican Republic  | −0.747 | 0.052      | 0.74   | 0.209     | −1.23 |
| Ecuador             | −1.41  | −0.313     | 0.654  | −0.077    | −1.01 |
| El Salvador         | −1.702 | −0.98      | 0.696  | 0.04      | −3.87 |
| Guatemala           | −0.788 | −1.056     | 0.922  | −0.63     | −2.18 |
| Honduras            | −1.761 | −0.514     | 0.795  | −0.309    | −3.72 |
| Jamaica             | −0.051 | 0.302      | 0.199  | 0.168     | −2.58 |
| Mexico              | −1.136 | −0.315     | 0.188  | 0.18      | −1.02 |
| Nicaragua           | −0.054 | −0.708     | 0.731  | −1.003    | −0.62 |
| Panama              | −0.143 | −0.498     | 1.068  | 0.179     | −0.39 |
| Paraguay            | −1.293 | −0.389     | 1.285  | −0.259    | −0.85 |
| Peru                | −0.382 | −0.649     | 1.087  | −0.482    | −0.33 |
| Trinidad and Tobago | 0.139  | −0.227     | −1.86  | 0.249     | −1.46 |
| Uruguay             | −0.898 | −0.002     | 0.498  | 0.296     | 0.33  |
| Venezuela           | −0.261 | −0.078     | 0.144  | 0.121     | −3.5  |

Note: Scores are created by converting categorical data (country) to numerical data to build a number (score; between −4 and +4).

**Table A8.** Sub-Saharan SD pillars relationships with H&LS score.

| Countries     | People | Prosperity | Planet | Resources | Peace |
|---------------|--------|------------|--------|-----------|-------|
| Benin         | −0.609 | −0.87      | 0.584  | −1.331    | −0.47 |
| Botswana      | −0.191 | −0.23      | 0.468  | −0.654    | 0.224 |
| Burkina Faso  | −1.011 | −1.117     | 0.947  | −2.03     | −0.57 |
| Burundi       | −1.319 | −1.185     | 0.907  | −1.215    | −0.61 |
| Cameroon      | −0.983 | −1.276     | 1.088  | −1.652    | −0.16 |
| Chad          | −1.384 | −1.31      | 0.86   | −3.112    | −0.87 |
| Côte d’Ivoire | −0.894 | −0.557     | 0.678  | −1.786    | −0.66 |
| Ethiopia      | −1.129 | −1.371     | 0.886  | −3.249    | −0.14 |
| Ghana         | −0.357 | −0.784     | 0.963  | −1.154    | 0.044 |
| Kenya         | −0.729 | −0.77      | 0.608  | −1.77     | −0.18 |
| Lesotho       | −0.729 | −0.403     | −0.83  | −1.083    | −1.51 |
| Madagascar    | −0.846 | −0.949     | 1.009  | −2.503    | −0.52 |
| Malawi        | −0.701 | −0.714     | 1.09   | −1.379    | −0.17 |
| Mali          | −2.046 | −0.919     | 0.726  | −0.911    | −0.4  |
| Mauritius     | 0.148  | −0.099     | 0.313  | 0.69      | 0.703 |
| Mozambique    | −1.435 | −0.832     | 1.17   | −2.608    | −0.36 |
| Namibia       | −0.055 | −0.293     | 0.296  | −0.5      | −0.01 |
| Nigeria       | −0.959 | −1.155     | 0.82   | −2.009    | −0.63 |
| Senegal       | −1.302 | −0.718     | 0.766  | −0.638    | −0.12 |
| South Africa  | −0.483 | 0.13       | −2.07  | 0.311     | −1.23 |
| Tanzania      | −0.989 | −0.914     | 1.438  | −2.44     | −0.19 |
| Uganda        | −1.243 | −1.186     | 0.935  | −2.751    | −0.59 |
| Zambia        | −0.615 | −0.582     | 1.56   | −1.546    | 0.107 |
| Zimbabwe      | −0.833 | −0.619     | 0.159  | −0.831    | −0.35 |

Note: Scores are created by converting categorical data (country) to numerical data to build a number (score; between −4 and +4).

**Table A9.** Commonwealth SD pillars relationships with H&LS score.

| Countries          | People | Prosperity | Planet | Resources | Peace  |
|--------------------|--------|------------|--------|-----------|--------|
| Armenia            | 0.833  | −0.607     | 0.223  | 0.626     | 0.185  |
| Azerbaijan         | 1.826  | −0.309     | 0.024  | 0.35      | 0.337  |
| Georgia            | 0.694  | −0.29      | 0.641  | 0.432     | 0.192  |
| Kazakhstan         | 0.631  | −0.266     | −2.608 | 0.549     | −0.019 |
| Kyrgyz Republic    | −0.048 | −0.868     | −0.601 | −0.072    | −0.475 |
| Moldova            | 1.312  | −0.281     | −0.536 | 0.079     | −0.91  |
| Russian Federation | 0.645  | 0.373      | −1.182 | 0.632     | −0.675 |
| Tajikistan         | 0.063  | −1.495     | 0.321  | −0.749    | −0.14  |
| Ukraine            | 0.559  | −0.151     | −1.536 | 0.625     | −0.495 |

Note: Scores are created by converting categorical data (country) to numerical data to build a number (score; between −4 and +4).



**Table A10.** Top and bottom 25 countries according to H&LS data (Helliwell, Huang, and Wang, 2019) [104], and top and bottom 25 countries according to the average of five SD pillars.

| Top 25 Countries' H&LS | Top 25 Countries' Pillars Avg | Bottom 25 Countries H&LS | Bottom 25 Countries Pillars Avg |
|------------------------|-------------------------------|--------------------------|---------------------------------|
| Georgia                | Cyprus                        | Ecuador                  | Chad                            |
| France                 | Finland                       | Saudi Arabia             | El Salvador                     |
| Ukraine                | Singapore                     | Benin                    | Honduras                        |
| Hungary                | Germany                       | Belgium                  | Ethiopia                        |
| Azerbaijan             | Korea, Rep.                   | Tunisia                  | Uganda                          |
| Brazil                 | Malta                         | Czech Republic           | India                           |
| Australia              | Slovenia                      | Venezuela                | Lesotho                         |
| Egypt                  | Japan                         | Paraguay                 | Tunisia                         |
| Nicaragua              | Canada                        | Bolivia                  | Mozambique                      |
| Netherlands            | Luxembourg                    | Slovenia                 | Nigeria                         |
| Algeria                | Lithuania                     | Luxembourg               | Madagascar                      |
| Malta                  | United Kingdom                | Bahrain                  | Burkina Faso                    |
| Croatia                | Czech Republic                | Dominican Republic       | Guatemala                       |
| United Kingdom         | Slovak Republic               | Indonesia                | Venezuela                       |
| Qatar                  | Estonia                       | Jamaica                  | Mali                            |
| Tanzania               | United States                 | Mozambique               | Burundi                         |
| Cameroon               | Switzerland                   | Timor-Leste              | South Africa                    |
| Sweden                 | New Zealand                   | Bosnia and Herzegovina   | Côte d'Ivoire                   |
| Switzerland            | Ireland                       | Burkina Faso             | Iran, Islamic Rep.              |
| Malawi                 | Denmark                       | Italy                    | Trinidad and Tobago             |
| Uganda                 | Israel                        | Zimbabwe                 | Tanzania                        |
| Guatemala              | Norway                        | China                    | United Arab Emirates            |
| Philippines            | Sweden                        | Colombia                 | Cameroon                        |
| Sri Lanka              | Greece                        | Mexico                   | Bhutan                          |
| Tajikistan             | Iceland                       | Germany                  | Kuwait                          |

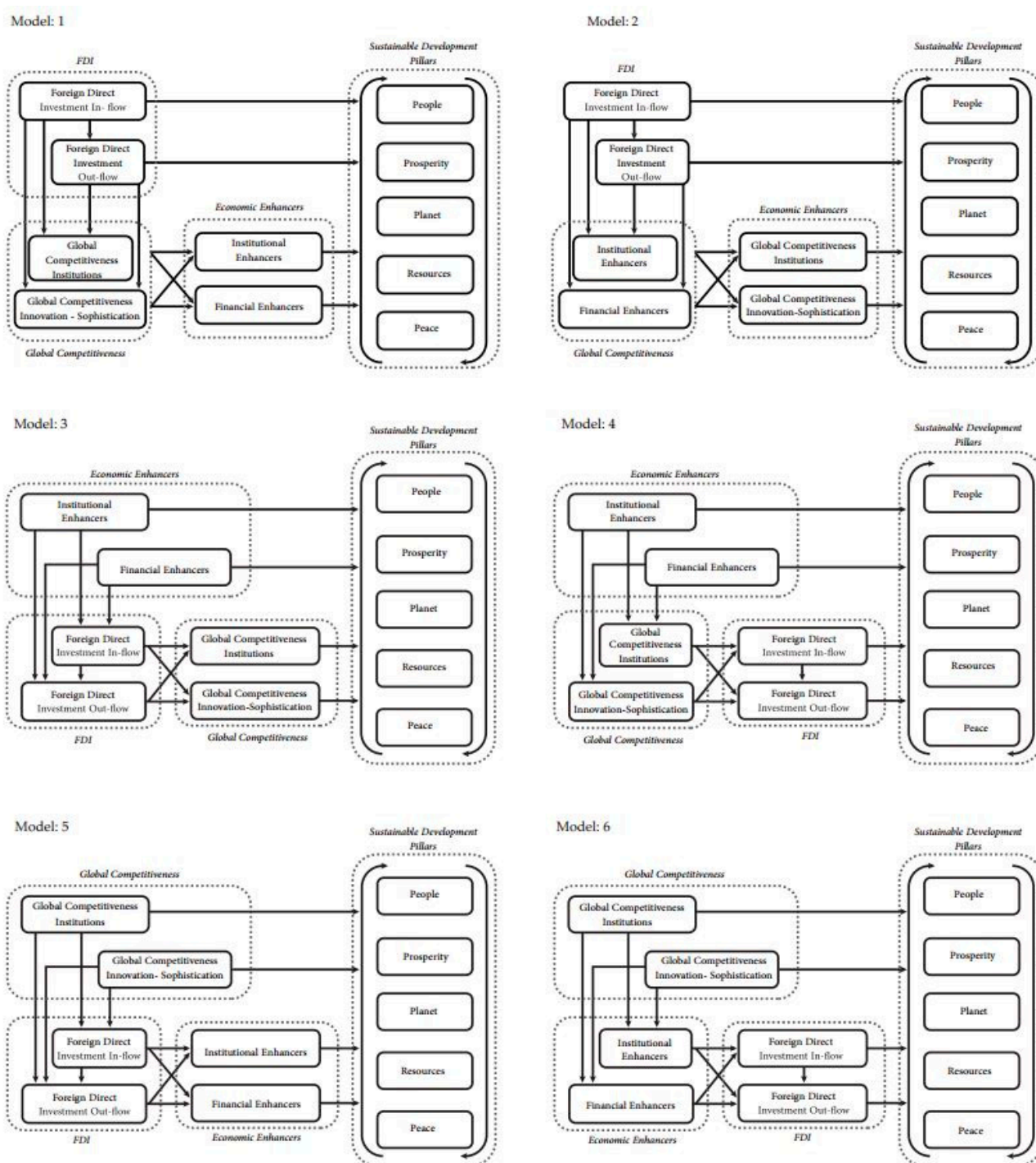


Figure A1. Models 1, 2, 3, 4, 5, and 6.

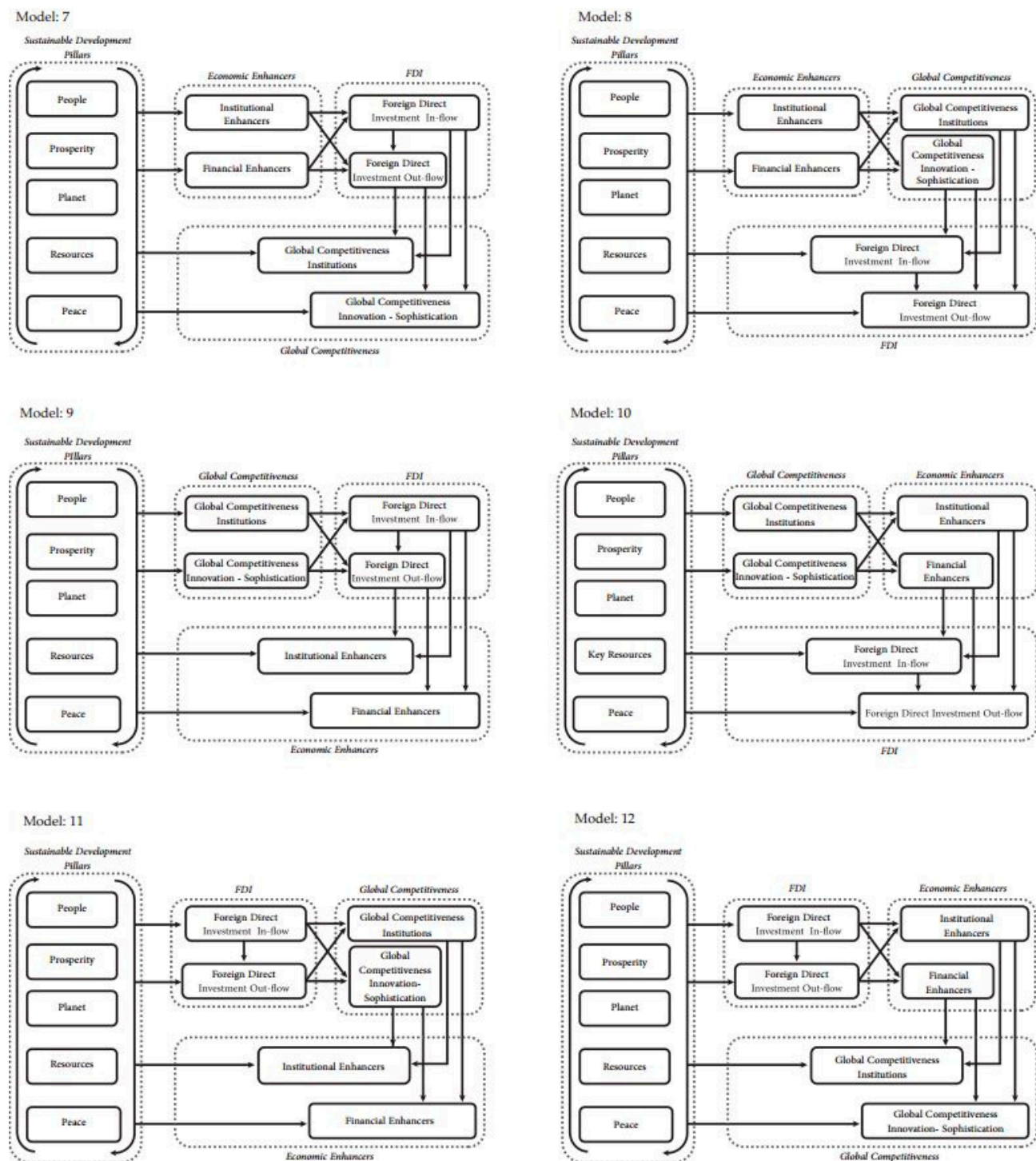


Figure A2. Models 7, 8, 9, 10, 11, and 12.

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