

Assessing Space Tourism Propensity: A New Questionnaire for Future Space Tourists

Supplementary Materials

Table S1. Ad hoc questionnaire for space tourism.

Item	Question	Response scale
1	Before reading the above, were you familiar with space travel?	0 = no 1 = yes
2*	How significant do you consider the growth of the space industry?	from 1 (not at all) to 9 (extremely)
3*	Would you like to travel to space if space tourism became a reality for all?	from 1 (definitely not) to 9 (definitely yes)
4	How soon do you think it will be possible to access space tourism?	1 = within five years 2 = in 6-10 years 3 = in 11-15 years 4 = in 16-20 years 5 = in more than 20 years
5*	How much landing on Earth from space would motivate you to go into space?	from 1 (definitely not) to 9 (definitely yes)
6*	How much viewing the Earth from space would motivate you to go into space?	from 1 (definitely not) to 9 (definitely yes)
7*	How much experiencing weightlessness would motivate you to go into space?	from 1 (definitely not) to 9 (definitely yes)
8*	How much watching space in depth would motivate you to go into space?	from 1 (definitely not) to 9 (definitely yes)
9*	How much walking in space would motivate you to go into space?	from 1 (definitely not) to 9 (definitely yes)
10*	How much doing scientific experiments would motivate you to go into space?	from 1 (definitely not) to 9 (definitely yes)
11*	How much doing sports activities in weightlessness conditions would motivate you to go into space?	from 1 (definitely not) to 9 (definitely yes)
12*	Once in Space, how long would you like to stay?	1 = few hours

		2 = one day
		3 = two-three days
		4 = one week
		5 = some weeks
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		1 = none
		2 = one
13*	In your lifetime, how many trips to space would you like to take?	3 = a few
		4 = as more as possible
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		1 = up to 5K €
		2 = up to 10K €
14	How much would you be willing to pay for your trip in space?	3 = up to 50K €
		4 = up to 100K €
		5 = more than 100K €
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		1 = the governments
15	As a tax-paying citizen, who do you think should take responsibility for space tourism investment and development?	2 = private individuals
		3 = both
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16	Would you be willing to invest in stocks of companies involved in space tourism?	0 = no
		1 = yes
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17	Indicatively how many euros would you be willing to invest?	[open response]
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		0 = no
18	Would you like to learn more about space tourism?	1 = yes
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***Note.** The asterisk indicated the items included into the PCA for the STP-Q.*

Social distance scale (SD)

Question: "How concerned are you about the living conditions of the following groups of people?"

a) Your family	1	2	3	4	5	6	7	8	9
b) Your townspeople	1	2	3	4	5	6	7	8	9
c) Italians	1	2	3	4	5	6	7	8	9
d) Europeans/ Asians/ Middle Easterners, etc.	1	2	3	4	5	6	7	8	9
e) Humanity	1	2	3	4	5	6	7	8	9

Note. The numerical response scale ranges from 1 ("Not at all") to 9 ("Extremely").

Table S2. Descriptive analysis and frequencies of recorded variables.

<i>Variables</i>	<i>Mean</i>	<i>St. Deviation</i>	<i>Frequencies</i>
Gender			57,1% women; 42.9% men
Age	20.96	2.58	
Education			91,6% high school degree; 8.4% bachelor's degree
Marital Status			55,3% single; 44.7% in a relationship
Income			72,4% none; 15,3% low; 11,4% medium; 0,9% high
SD family	1.98	1.79	
SD townspeople	4.46	1.87	
SD italians	4.24	1.78	
SD europeans/asians	4.64	1.90	
SD humanity	3.26	1.90	
SD mean score	3.72	1.39	
ST-Q_item 1			54.4% yes; 45.6% no
ST-Q_item 2	6.75	1.65	
ST-Q_item 3	7.72	1.94	
ST-Q_item 4	3.41	1.16	
ST-Q_item 5	5.77	2.26	
ST-Q_item 6	7.96	1.58	
ST-Q_item 7	7.40	1.99	
ST-Q_item 8	7.40	2.09	

<i>ST-Q_item 9</i>	7.35	2.15
<i>ST-Q_item 10</i>	6.28	2.29
<i>ST-Q_item 11</i>	5.76	2.70
<i>ST-Q_item 12</i>	2.90	1.26
<i>ST-Q_item 13</i>	2.88	0.72
<i>ST-Q_item 14</i>	58% up to 5k \$; 27,9% up to 10k \$; 6,6% up to 50k \$; 1,2% up to 100k \$; 1,5% more than 100k \$	
<i>ST-Q_item 15</i>	24,9% governments; 9,3% private individuals; 65,8% both	
<i>ST-Q_item 16</i>	1.49	0.5
<i>ST-Q_item 18</i>	85,3% yes; 14.7% no	
RBS	21.32	6
BSSS	3.12	0.75
BFI_CO	3.65	0.64
BFI_OE	3.60	0.63
STAI	49.96	8.45
ZTPI_PN	3.21	0.94
ZTPI_PP	3.53	0.88
ZTPI_PF	1.93	0.77
ZPTI_PE	3.08	0.78
ZTPI_FN	2.61	0.89
ZTPI_FP	3.68	0.84
DBTP	2.74	0.89
SW	4.33	0.63
ATCC	4.29	0.54
SN	3.70	0.64
PBC	3.86	0.63
BI	3.62	0.58
PEB	3.89	0.59
<i>PEB-Q global score</i>	3.95	0.47
<i>STP-Q</i>	72.24	17.78

Note. **ST-Q**=ad hoc questionnaire for space tourism; **SD**=social distance scale; **RBS**=risky behavior scale; **BSSS**=brief sensation seeking scale; **BFI_CO**=Big Five Inventory, “conscientiousness” subscale; **BFI_OE**= Big Five Inventory, “openness to experience” subscale; **STAI**=State-Trait Anxiety Inventory (only “trait anxiety” subscale); **ZTPI**= Zimbardo Time Perspective Inventory (**PN**=past negative; **PP**=past positive; **PF**=present fatalistic; **PE**=present hedonistic; **FN**=future negative; **FP**=future positive); **DBTP**=Deviation from a balanced temporal perspective; **SN**=“subjective norms” subscale of questionnaire for pro-environmental behaviors (PEB-Q); **PBC**=“perceived behavioral control” subscale of PEB-Q; **BI**=“behavioral intention to adapt to climate change” subscale of PEB-Q; **PEB**=“pro-environmental behavior” of PEB-Q.

Table S3. Correlation analysis between space tourism willingness (STW) and recorded variables.

	<i>STW</i>		
	r	95% CI Lower limit	95%CI Upper limit
<i>Gender</i>	-.025	-.132	.083
<i>Age</i>	-.037	-.144	.071
<i>Marital status</i>	-.052	-.159	.056
<i>SD</i>	-.012	-.119	.096
<i>RBS</i>	.054	-.054	.161
<i>BSSS</i>	.186**	.08	.287
<i>BFI CO</i>	.032	-.076	.139
<i>BFI OE</i>	-.004	-.112	.103
<i>STAI</i>	-.116*	-.22	-.008
<i>DBTP</i>	-.094	-.2	.013
<i>PEB-Q</i>	.028	-.079	.135

Note. Pearson's r is reported. * = $p < .05$; ** = $p < .01$.