

## Supplementary Material A

### Outline of expert interview on the evaluation system of residents' engagement level in the SOCR

#### 1. Basic information of experts

1. What is your gender?  
A. Male B. Female
2. How many years have you been engaged in research in this field?  
A. More than 5 years B. 3-5 years C. 1-3 years D. Less than 1 year
3. What is your occupation?  
A. College teachers B. Government employee C. Enterprise administrator D. Other ( )
4. What is your professional title?  
A. Professor B. Associate professor C. Intermediate D. Initial E. Other ( )
5. What is your educational background?  
A. Doctor B. Master C. Other ( )

#### 2. Interview content

1. What goals do you think residents' engagement of the SOCR should achieve?
2. What problems do you think there are in the current evaluation of resident' engagement level of the SOCR?
3. Do you think the design of evaluation indicators for residents' engagement level of the SOCR is reasonable? How to improve if it is unreasonable?

#### 3. Scoring the importance of indicators

What do you think is the importance of this indicator for evaluating the level of residents' engagement of the SOCR? 1 point for very unimportant, 2 points for unimportant, 3 points for general, 4 points for important, and 5 points for very important.

**Table S1.** Preliminary evaluation indicator system of residents' engagement level of the SOCR.

| Primary indicators | Code | Secondary indicators                                                                                                                       | Importance |
|--------------------|------|--------------------------------------------------------------------------------------------------------------------------------------------|------------|
| Empowerment        | ep1  | The regulations and policies on residents' engagement are relatively complete                                                              |            |
|                    | ep2  | Relevant government departments at the community level directly provide residents with opportunities to participate in community education |            |
|                    | ep3  | The government departments at the community level provide residents with certain power to participate in governance decision-making        |            |
|                    | ep4  | Relevant government departments at the community level build follow-up tracking mechanisms to solve the problem of residents' engagement   |            |
|                    | ep5  | The government departments at the community level provide sufficient economic resources for                                                |            |

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|             |     | residents to participate, such as providing funds for holding pre-consultation meetings                                                                                                   |
|             | ep6 | The government departments at the community level allocate sufficient human resources to help residents participate in governance, such as setting up specialized governance institutions |
|             | ep7 | The information related to the SOCR is highly disclosed to the residents                                                                                                                  |
| Engagement  | eg1 | The government departments at the community level also provide residents with channels to participate in of other community public affairs                                                |
|             | eg2 | Residents have the opportunity to participate in the decision-making stage of the SOCR and put forward suggestions                                                                        |
|             | eg3 | Residents have the opportunity to participate in the implementation stage of the SOCR and give feedback                                                                                   |
|             | eg4 | Residents have the opportunity to participate in the maintenance phase of the SOCR and supervise the follow-up process                                                                    |
| Cooperation | cp1 | There are specialized government departments responsible for coordinating problems of residents' engagement at the community level                                                        |
|             | cp2 | Third-party organizations have specialized agencies at the community level responsible for coordinating problems of residents' engagement                                                 |
|             | cp3 | The construction party has special personnel responsible for coordinating problems of residents' engagement                                                                               |
|             | cp4 | The resident representatives communicate with the coordinating unit about the problems in the engagement process                                                                          |
|             | cp5 | Residents cooperate with the government and other relevant departments to solve problems                                                                                                  |
| Network     | nw1 | Government departments form partnerships with third-party organizations                                                                                                                   |
|             | nw2 | Government departments form partnerships with construction parties                                                                                                                        |
|             | nw3 | Third-party organizations form partnerships with the construction parties                                                                                                                 |
|             | nw4 | Government departments actively guide residents to engage                                                                                                                                 |
|             | nw5 | Third-party organizations actively guide residents to engage                                                                                                                              |
|             | nw6 | Construction party actively guides residents to engage                                                                                                                                    |
|             | nw7 | Residents have the opportunity to participate in the performance evaluation of community                                                                                                  |
| Validity    | ef1 | The residents' engagement helps to deepen the understanding of the importance of the SOCR                                                                                                 |

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| ef2  | The residents' engagement helps to deepen the understanding of the technologies and targets of the SOCR                 |
| ef3  | The residents' engagement helps to improve residents' satisfaction with the SOCR                                        |
| ef4  | The residents' engagement helps to enhance residents' trust in the government                                           |
| ef5  | The residents' engagement helps to achieve the goal of community governance                                             |
| ef6  | The residents' engagement has effectively accelerated the progress of project implementation and improved efficiency    |
| ef7  | The residents' engagement has effectively improved the quality of project implementation                                |
| ef8  | The residents' engagement has effectively reduced the complaints of residents and conflicts with government departments |
| ef9  | Third-party social organizations have further developed                                                                 |
| ef10 | Community managers think that the goal of residents' engagement of the SOCR has been achieved                           |
| ef11 | Construction parties think that the goal of residents' engagement of the SOCR has been achieved                         |
| ef12 | Residents' engagement has effectively improved the community environment                                                |

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