

### **1.Context and rationale:**

As we discussed under the title of "Resilience Dividend: Towards Sustainable and Inclusive Societies" at the Global Platform for DRR in Geneva in May 2019 , we need to take "integrated approaches to disaster risk reduction, climate change mitigation and adaptation, and sustainable development". We are requested to take concerted scientific actions Science to achieve higher comprehensibility inclusiveness and participatory, which are essential to enhance disaster resilience and ensure sustainability.

### **3.The basic questions for the purpose of further clarification:**

We are not sure if IRDR has found an answer(s) to its basic question on "Why, despite advances in the natural and social science of hazards and disasters, do losses continue to increase?" We need to clarify the achievements up to now, identify issues to be solved specifically and propose elaborate strategies and doable approaches.

### **4.A new vision statement**

We need to develop a mechanism at each level, from local to national, that allows all stakeholders to share information on science and technology for DRR in their own language. A platform of each level should review the status and issues of the latest DRR efforts that they have implemented based on scientific and technological knowledge. Subsequently, the platform should enhance multi-sectoral discussions on how DRR should be implemented at the level and reach consensus on the practical DRR measures to be designed and implemented from a holistic perspective. This series of actions to be implemented by the national platform of each country is called "Synthesis".

### **6. Strategic areas of cooperation in DRR research and action**

- The first and second bullets should be considered in an integrated way. We need to generate new values by sophisticatedly fusing real space and cyber and virtual space. We need to develop following four functions:
  - ✓ to collect and store scientific knowledge and information on various activities related to DRR
  - ✓ to collect and store lessons learned from previous efforts and good practices of DRR designed and implemented based on scientific and technological principles
  - ✓ to promote dialogue
  - ✓ to promote international cooperation to support individual countries
- It is important for stakeholders of each country and locality to engage in the improvement of disaster resilience and sustainable development in an inclusive manner while maximizing integrated scientific knowledge. Facilitators play a critical role in achieving this goal.

Facilitators should provide appropriate scientific knowledge, experience and approaches for each locality and lead effective introductions of experience and resources from the outside. They should also assist stakeholders involved in protecting their lives and assets and continue leading the livelihoods and businesses by wisely applying science and technology.