

## **Program 2: Fair Use and Management of Diverse Resources**

### **Program Goal**

Taking tradeoffs into account, this program provides multifaceted options to stakeholders involved in production, distribution, and consumption of resources, in order to realize fair use, optimal management, and wise governance of diverse resources including energy, water and ecological resources.

### **Mission**

As has been pointed out in recent years by initiatives such as Future Earth, since global environmental problems are interlinked, it is not effective to attempt to solve isolated issues and co-design and co-production of results together with a range of stakeholders is essential. Recently, the nexus structure among energy, water and food has been emphasized as a resource issue, but in order to build a highly sustainable society, we need to safeguard humanity's base for survival through more comprehensive understandings that take into account not only these resources, but also ecological resources including ecosystem services and cultural resources. In particular, the comprehensive management of diverse resources, taking into consideration cultural resources that are related to high quality of life and spiritual abundance, has become important.

Resources are produced, circulated and consumed at different spatial scales by diverse stakeholders and throughout these processes there is a need for arrangements for fair use and management and methods for their evaluation. Also when considered as economic activities, the use of renewable natural resources is the key to the realization of a sustainable society and a transition of values and action from conventional thinking centered upon manufacturing capital towards an understanding of prosperity that includes hitherto externalized natural, human and social capital is needed. On the other hand, although in Asia large changes are occurring against the background of rapid economic growth, population increase and urbanization, also remaining are highly sustainable traditions of resource use that are culturally connected with the abundant subsistence base and that provide important suggestions for the future image of resource use.

While such case studies have been accumulated at RIHN thus far, there remain areas that are under-researched (for example resources such as energy, or enterprises as global stakeholders). In this program, we aim to explore resource use across multiple resources and spatial scales and with diverse stakeholders by developing new projects to address such areas while at the same time incorporating novel ideas from young scientists. Further, we will explore the conditions necessary for a transition of values and transformation of human behavior and propose policies and socio-economic institutions for the realization of fair resource management as well as criteria for their evaluation.