The Process of Drawing up Reconstruction Plans in Extensive Disaster-hit Areas Including Community Relocation and Challenges in the Implementation of Plans

Through Reconstruction Planning Support in Minami-Sanriku Town, Miyagi Prefecture, Devastated by the Great East Japan Earthquake

ISHIKAWA Eiko ishikawae@dri.ne.jp

Chief Researcher, The Great Hanshin-Awaji Earthquake Memorial Disaster Reduction and Human Renovation Institution (Kobe, Japan)

DRI

Residents over 65years old are over

Smart shrinking recovery planning

17500 17000

Number of residents (minamisanriku town)

(months after earthquake)

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

Damage

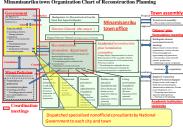
Introdaction

In damage recovery efforts for the Great East Japan Earthquake, the main issues have been how to coordinate public and private entities for effective distribution of limited resources. Local municipalities affected by natural disasters are required to draw up a reconstruction plan for the recovery of their affected area on their own. However, due to the extraordinary circumstances of the Great East Japan Earthquake in which damage was extended over several prefectures, "the diversity of localities affected compared to small or medium sized earthquake-struck areas" and "the difficulties in coordinating many entities, such as national, prefectural and local governments, civic groups and private organizations for consensus-building" became the challenges for recovery from the damage. In addition, since the Great East Japan Earthquake was an unprecedented disaster, efforts to develop support systems related to reconstruction subsidies and projects have been slow in progress. The affected local municipalities had no choice but to draw up a reconstruction plan for their recovery on their own before

the support systems were made clear.

This study summarizes "the transition of the roles of national, prefectural and municipal governments" and "changes in issues hampering the reconstruction plan development processes by local governments", focusing on Minamisanriku-cho, Miyagi Prefecture, where the author has been engaged in supporting activities for reconstruction planning as a quasi-resident adviser since one month after the earthquake. The study also clarifies the position of town and city reconstruction projects, particularly for residential reconstruction projects, including community relocation.

Transition of the roles of national, prefectural and municipal governments



The government has dispatched specialized consultants in city planning and civil engineering to each municipality to support operations of representative departments of reconstruction projects for municipalities, and a concept of multiple land use zoning for land behind levees has been suggested to municipalities while showing a concept of multiple-layered protection and deciding levee heights in order to reduce tsunami damages.

- Trafectures have to recure tourient Catifiques.
- Prefectures have suggested in their reconstruction plan a policy for local development with reduced disaster which is a base of reconstruction projects for manipalities. In addition, they have adjusted reconstruction project for reads and ports managed by application forme of manipalities relating to reconstruction baciety application as well as served as laisons between governments.

Changes in issues hampering the reconstruction plan development processes by local governments





Town hall & Disaster Management Center

Support among local governments e of 7 prefectures in Kansai regio elief goods (rice, drinking water, ••) tched support staff (54,589 persons ved victims (4,497 persons as of De

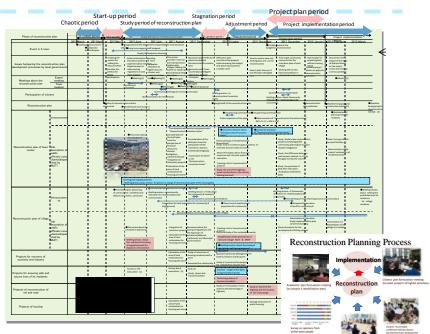


Support staff members dispatched from outside damaged areas Support sain instructs support on the state of the state

Officers of Urban Renaissance (UR) Agency have taker responsibility for construction project planning of restoration public housing and land readjustment projects.

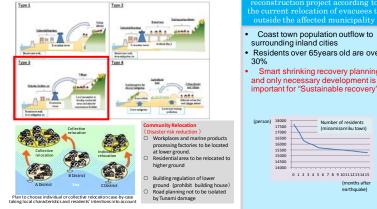
The government has dispatched specialized consultants in city planning and civil engineering to each municipality to support operations of representative departments of reconstruction projects for municipalities.

Establishment of a reconstruction planning system for small coastal municipalities having poor administrative functions



Reconstruction policy

Example guidelines provide by the Reconstruction Design Council



Challenges of Recovery process in light of the diversity of regionality

affecte

- · how to build a consensus for the reconstruction project many communities have formed "keiyakukou", or an association consisting of households within the
 - shared property the gap between the existing rules for relocation and residents' living
 - environments should be considered. What should be the use of the vacant land in low laying area where residential use is forbidden. (To keep people from rebuilding in dangerous areas in the future for long term
 - Disaster risk reduction)
 - Need to <u>balance"value</u> of regional characteristics" and "importance of quick recovery"

- 81% of respondents desire to have jobs within the town (Results of Town People's Questionnaire by Minamisanriku Town)
- Employment is one of most important issue.

