Report: Examples of Recovery Proposals and Recovery Process

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Re-construction Status Information by Reconstruction Agency

According to the information by Reconstruction Agency under Minister of Re-construction, re-construction completion status is pretty high, some are over 90% especially for the road or infrastructure in the city.

Completion Status as of September 2014
However, restoring of towns and residential might be relatively slow.

Completion Status as of September 2014
City Center Infrastructure

After Disaster

Especially in such

Local Seaside Towns which was totally damaged as a whole town

March 2013
Stone Monument of Large Tsunami
A house at the heights is well-being for your children and grand children. Remember the large Tsunami that caused a great terrible disaster. Don’t build your house under this level.
Stone monuments were build on the position which Sanriku tsunami run-upped in 1896
An example of Unique Proposals for Reconstruction

A Proposal with Using New Structure System Building

This New Structure System Building was studied from 2004 to 2008 by the combined organization of government body and industrial sectors. It was a system using Innovative Structural Materials and the concept is described as below.
Basic Concept of System
Concept of Proposed Re-constructed City with New Structure System Buildings
Implemented?

Some examples of Re-constructed or Repaired Projects

Aqua-Marine Aquarium
A Tsunami Evacuation Building

This is an example of a Tsunami evacuation building actually designed and to be constructed at seaside of Iwaki City in Fukushima Prefecture. The design considered the allocation of structural walls against Tsunami load, column shape at 1st floor and the core system, etc.
Structural Wall System and Pure Framing System

Design Concept 1

Structural walls

Cast-in-situ RC Piles
Design Concept 2

- Declined columns to resist horizontal load
- Tsunami Load
- Strong Cast-in-situ RC Piles
- Tsunami resisting system in the short-span direction

Design Concept 3

- Survival Core
- RC Core contains supply routes

New Tsunami Load
Should we design and construct any building in the area inundated by high Tsunami?

What kind of design concept shall we apply, not only Structural Design but Architectural and Town Planning Design?