Report: Examples of Recovery Proposals and Recovery Process

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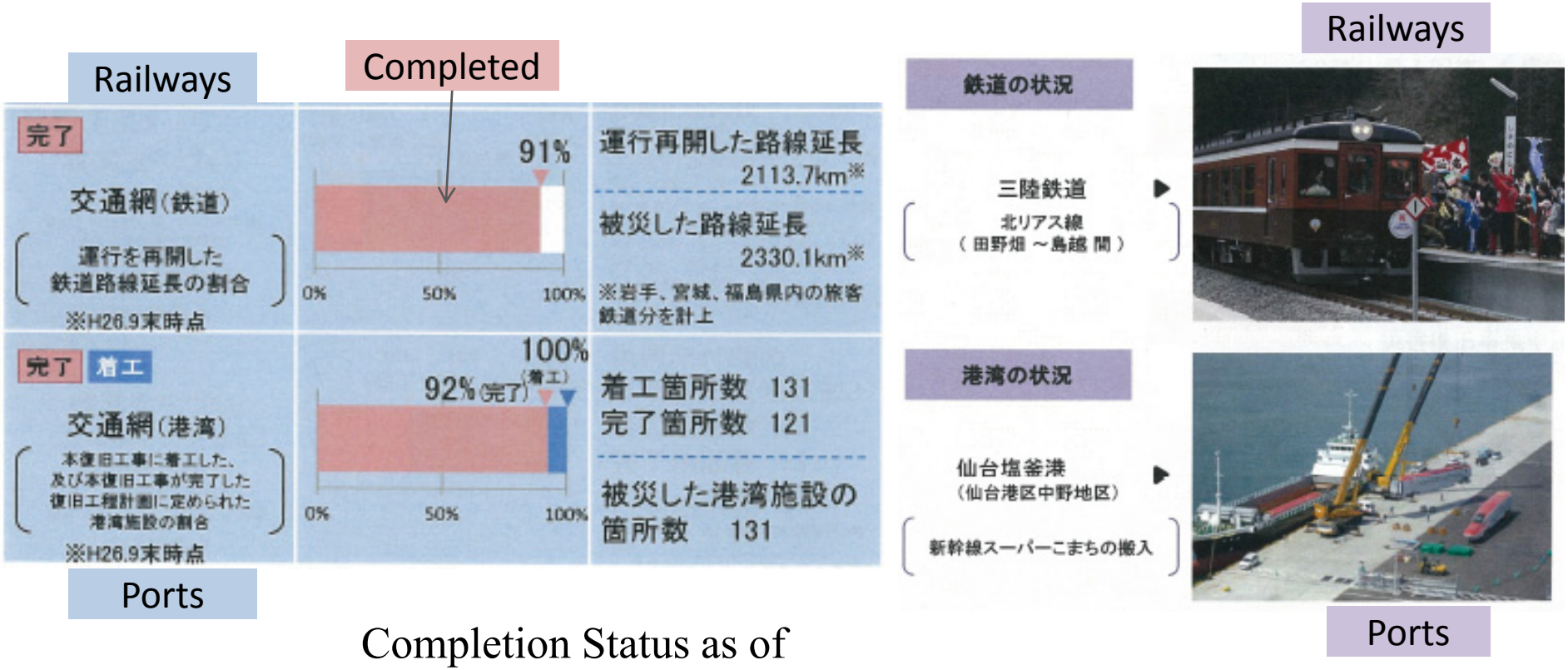
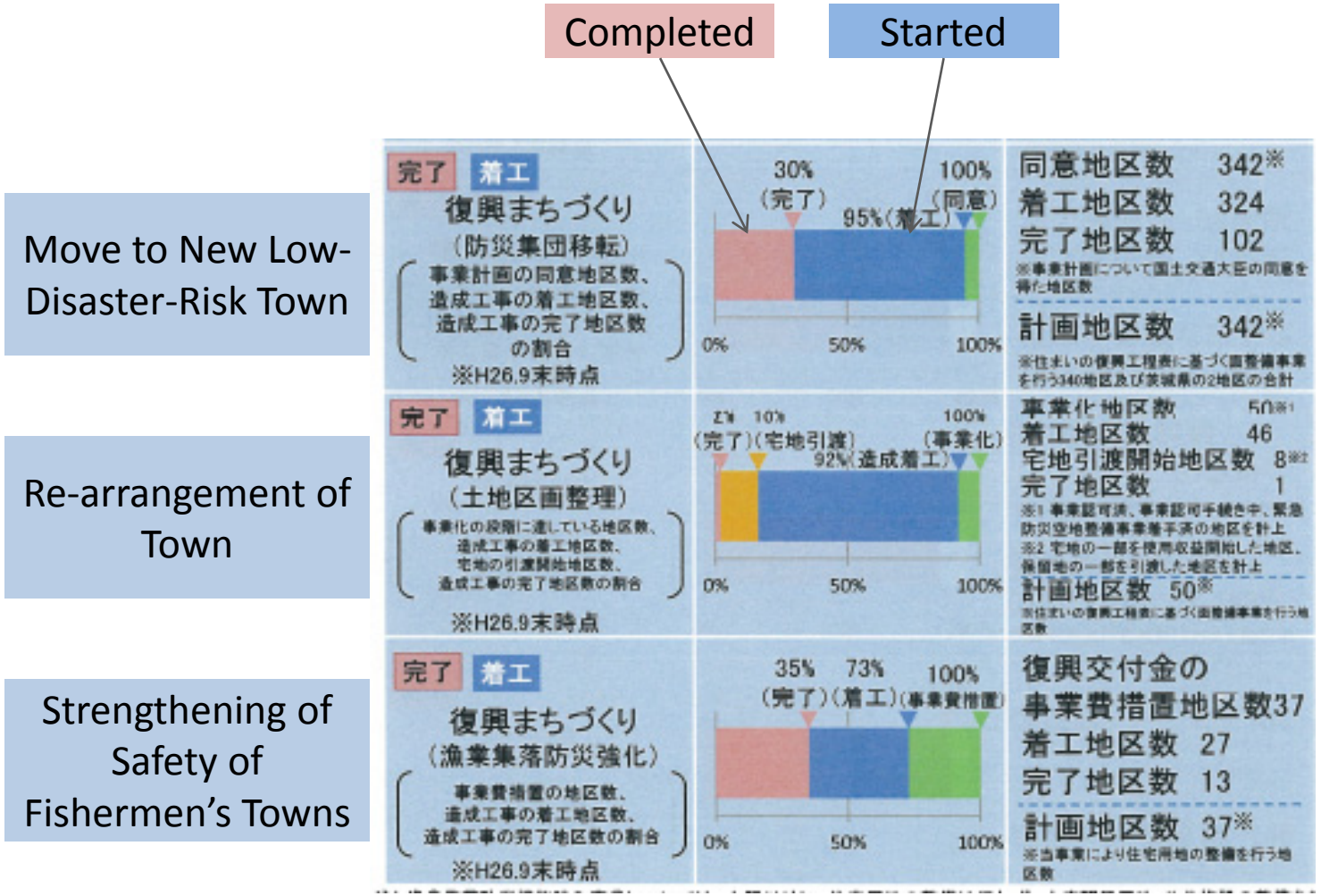
Re-construction Status Information by Reconstruction Agency

According to the informartion by Reconstruction Agency under Minister of Re-construction, re-construction complition 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 residentials might be relatively slow.



Completion Status as of September 2014

City Center Infrastructure

Especially in such

Local Seaside Towns which was totally damaged as a whole town

After Disaster

March 2013

大津浪記念碑

高き住居は
児孫に和楽
想へ惨禍の
大津浪
此処より下に
家を建てるな

図 2-16　三陸大津波の教訓を伝える石碑(1).

図 2-17　三陸大津波の教訓を伝える石碑(2).

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.

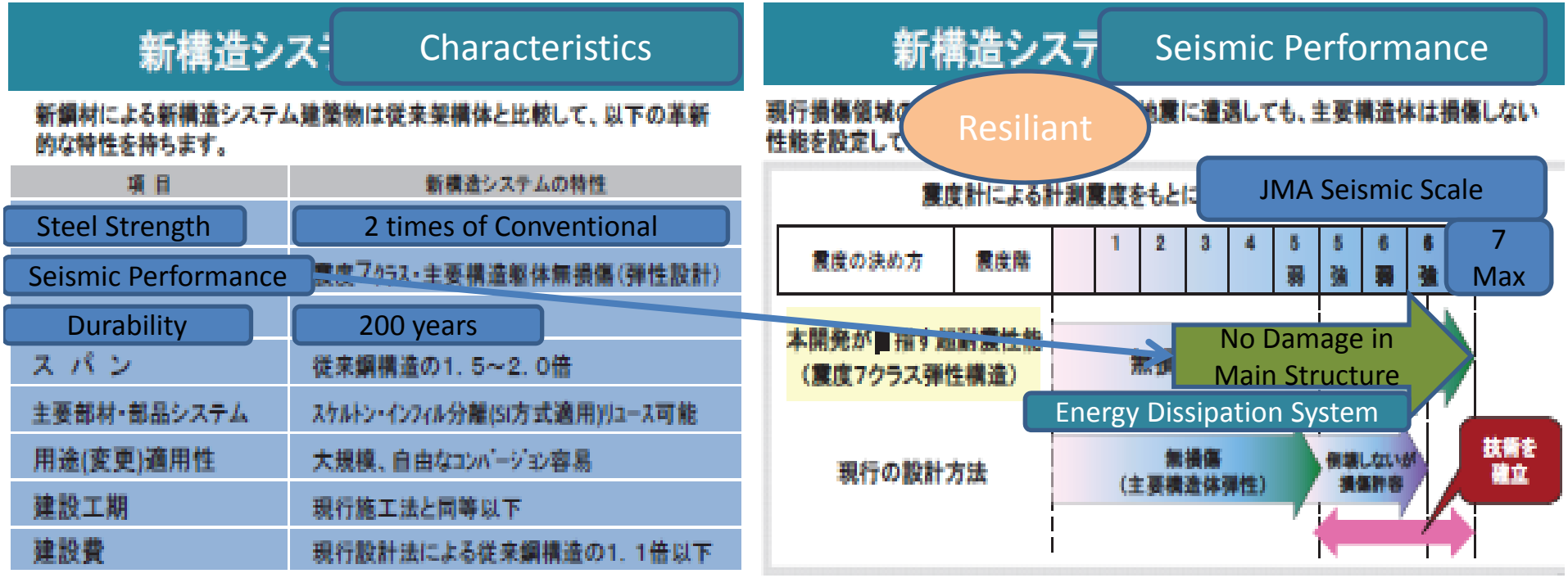
Stone monuments were build on the position which Sanriku tsunami run-upped in 1896

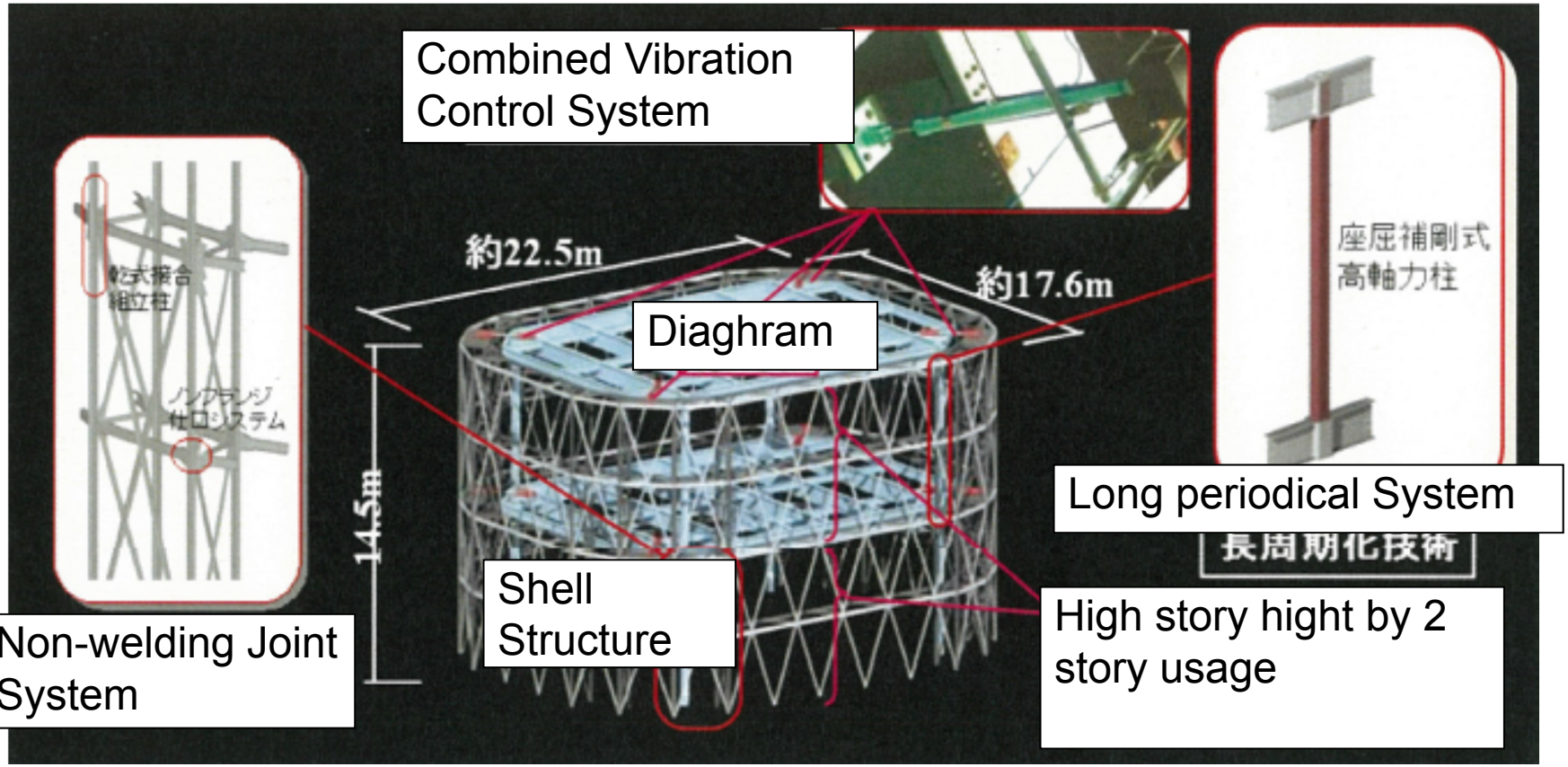
We do something. ***Proposing some ideas.***

An example of Unique Proposals for Reconstruction

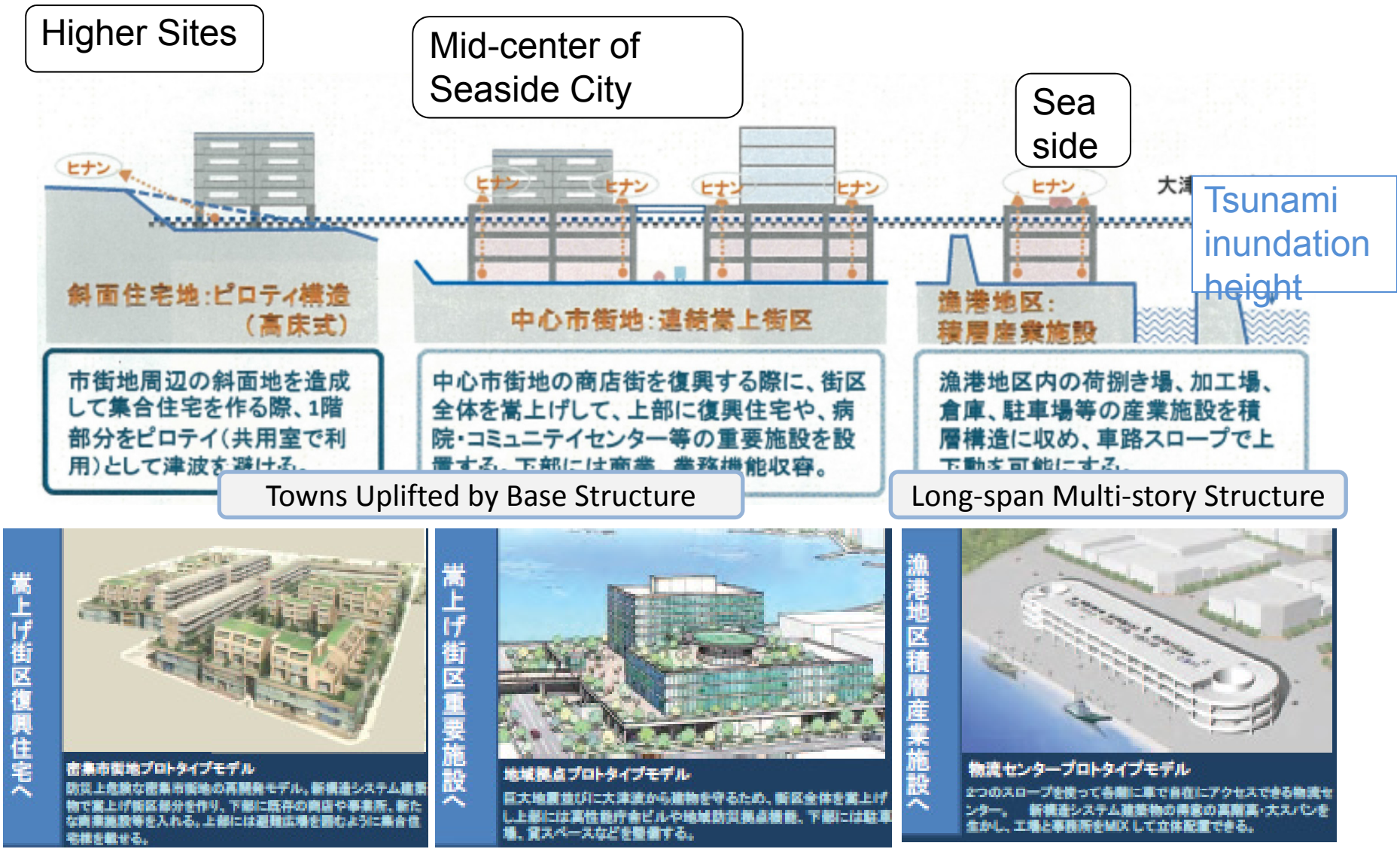
A Proposal with Using New Structure System Building

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 discribed 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

埠頭に並ぶよ　　ンふくしま

As Built

震災直後の

Damaged

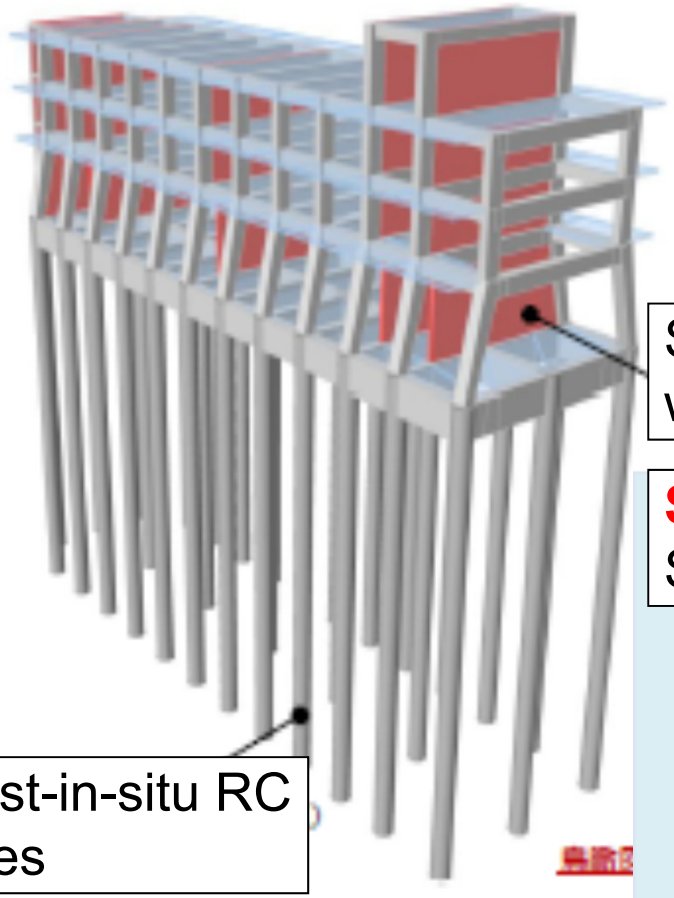
再

Repaired and Re-used

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..

Site

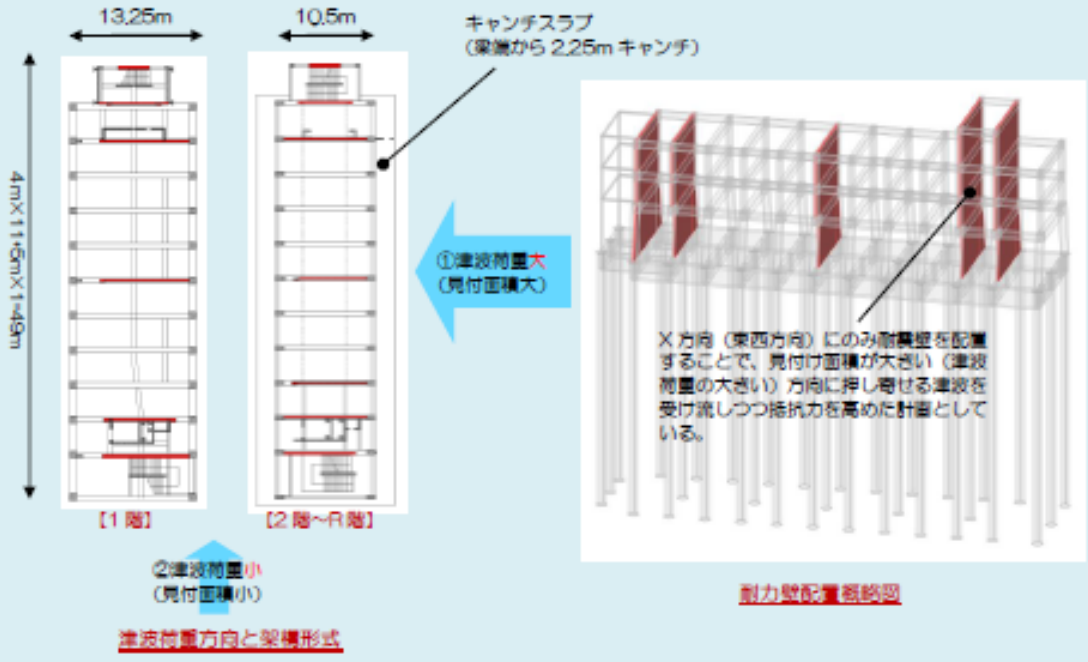


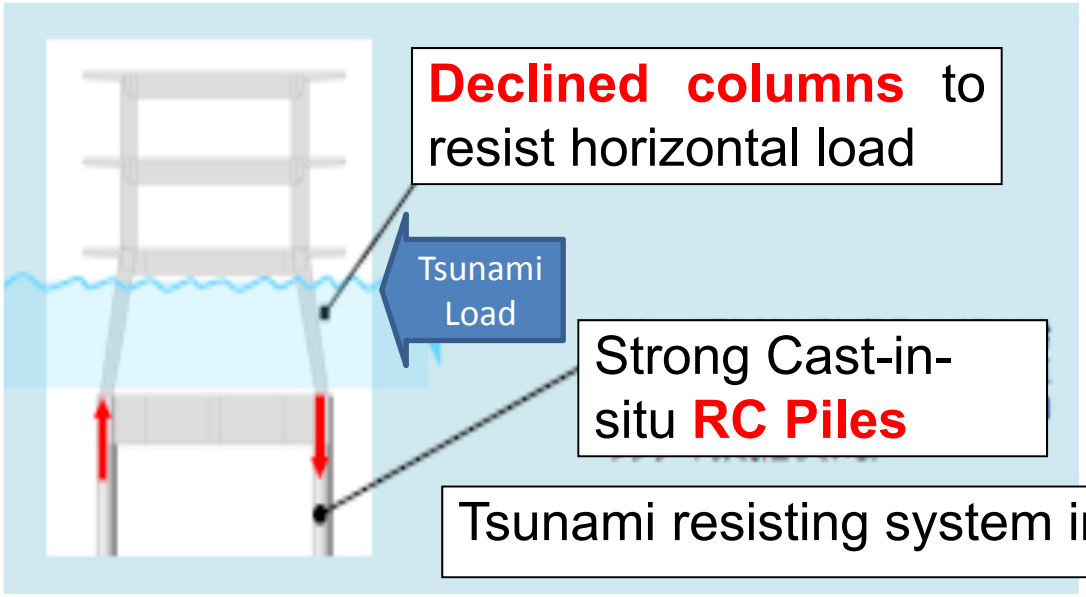
Structural walls

Cast-in-situ RC Piles

Design Concept 1

Structural Wall System and **Pure Framing** System





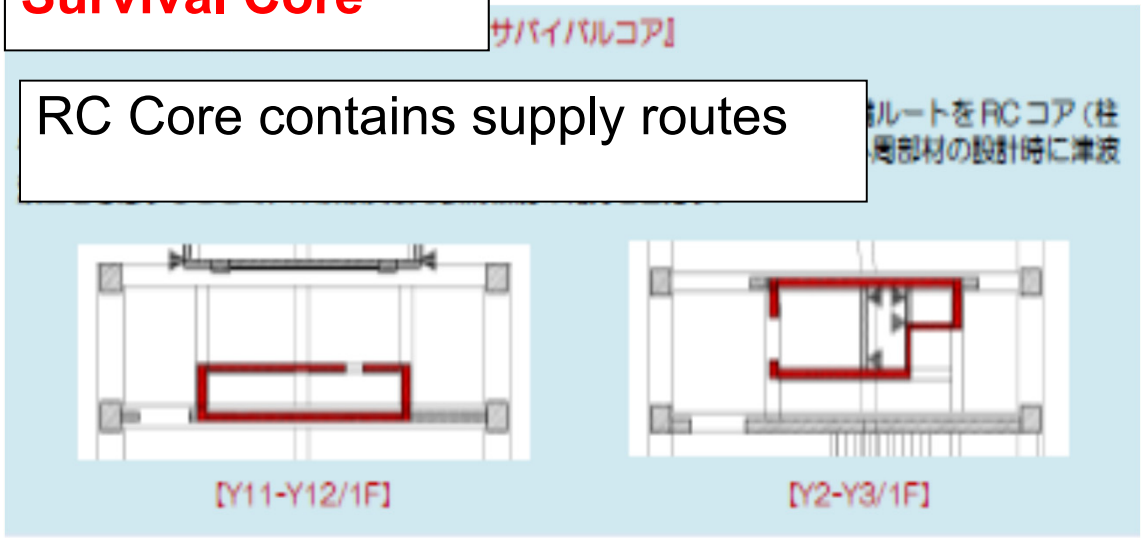
Design Concept 2

New Tsunami Load

Design Concept 3

Survival Core

RC Core contains supply routes



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?