International Forum on the "FutureCity" Initiative

Reconstruction of disaster-affected area

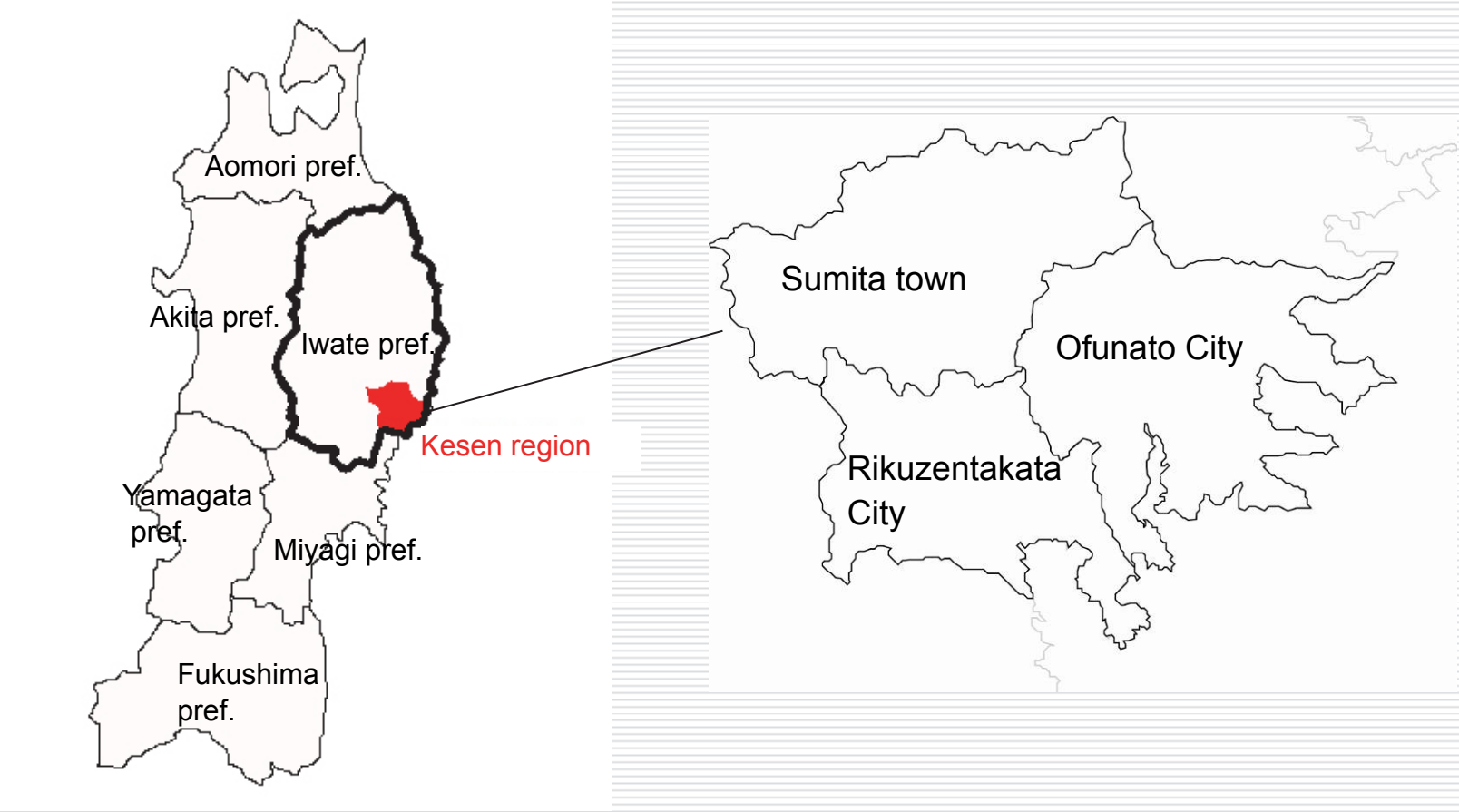
- Kesen Region Future City-

February 21,2012

Presentator

Mayor of Ofunato City, Kimiaki Toda

Location of Kesen region



Casualties and damages by the Great East Japan Earthquake

(As at 31st January, 2012)		Rikuzentakata City	Ofunato City
Deaths		1,554	339
Missing		294	87
Total of death and missing		1,848	426
Affected households	**Total collapse**	3,803	2,776
	Partial destruction (large scale)	118	424
	Partial destruction	116	708
	Some damage	428	1,468
Affected households		4,465(55.3%)	5,376(36.5%)

Note: % figure to total number of households as at January end, 2011.

Rikuzentakata City
– Aftermath in the urban district

“A lone pine tree” which become a symbol hope in the disaster.

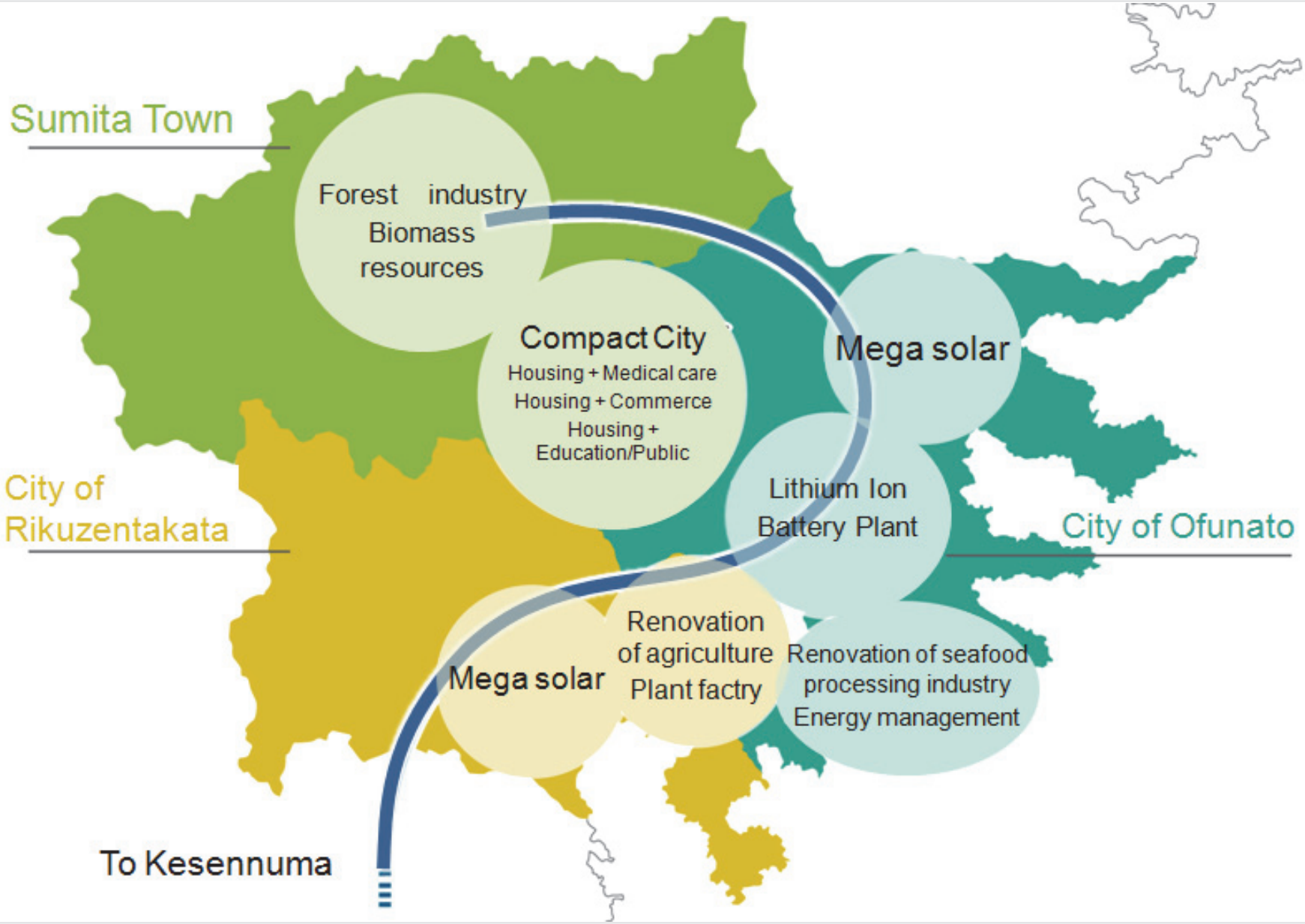
Rikuzentakata City - Now

Ofunato City
– Aftermath in the urban district

Ofunato City - Now

New Years at the temporary retail center (Ofunato City)

Multilateral collaboration between 2 Cities and 1 Town for materializing future visions



Multilateral collaboration between 2 Cities and 1 Town for materializing future visions

Targeted visions for the future and initiatives

Target visions for the future

Local production for local consumption or decentralized energy society

Inter-linked Compact Cities

Industrial development and innovational development of social infrastructure

Environment

- Solar power generation plant with storage battery
- Hybrid energy system
- Smart Grid utilizing renewable energy

Super Aging Society

- Inter-linked compact cities established at upland area
- Elderly-friendly transportation system / advance electric transports
- Reinforcing disaster preparedness at the elderly living areas
- Advanced model for nursing/welfare
- Creation of employment for the elderly

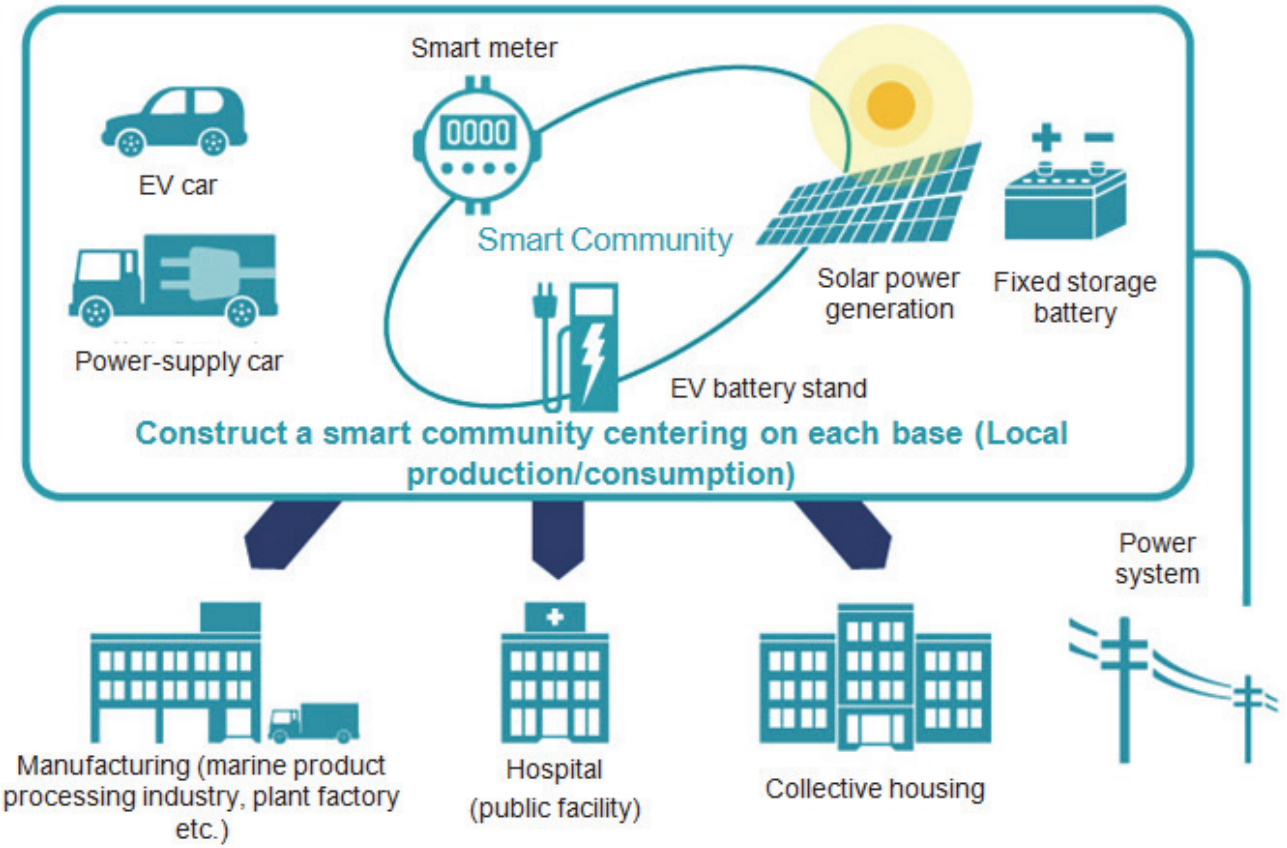
Other (Industrial development)

- Promotion of large scale stationary electric energy storage industry
- Promotion of agriculture, forestry and fisheries industry using advanced technology
- City/town planning co-existent with forest resources

◇ Environment

Solar power generation plant with storage battery

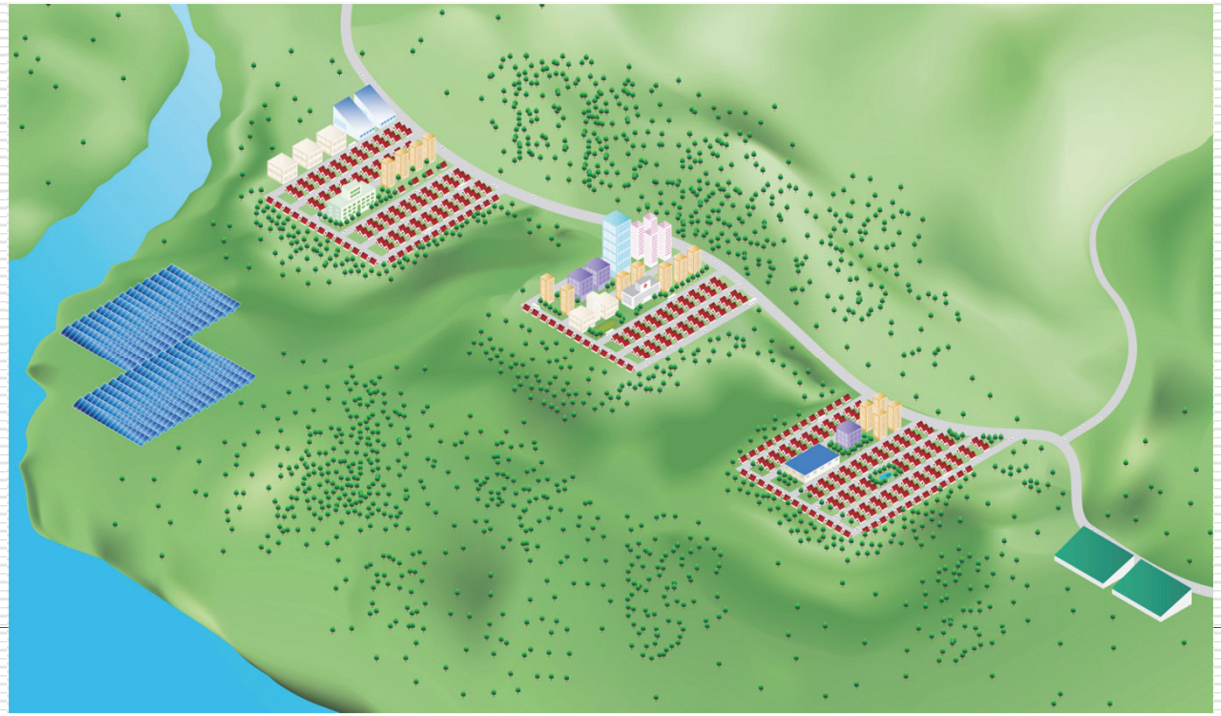
Materialize locally produced/locally consumed energy system on a partial scale in small cities by introducing solar power generation with decentralized storage battery system. This scheme will be a leading case in the world.



◇ Super-aging Society

Inter-linked compact cities established at upland area

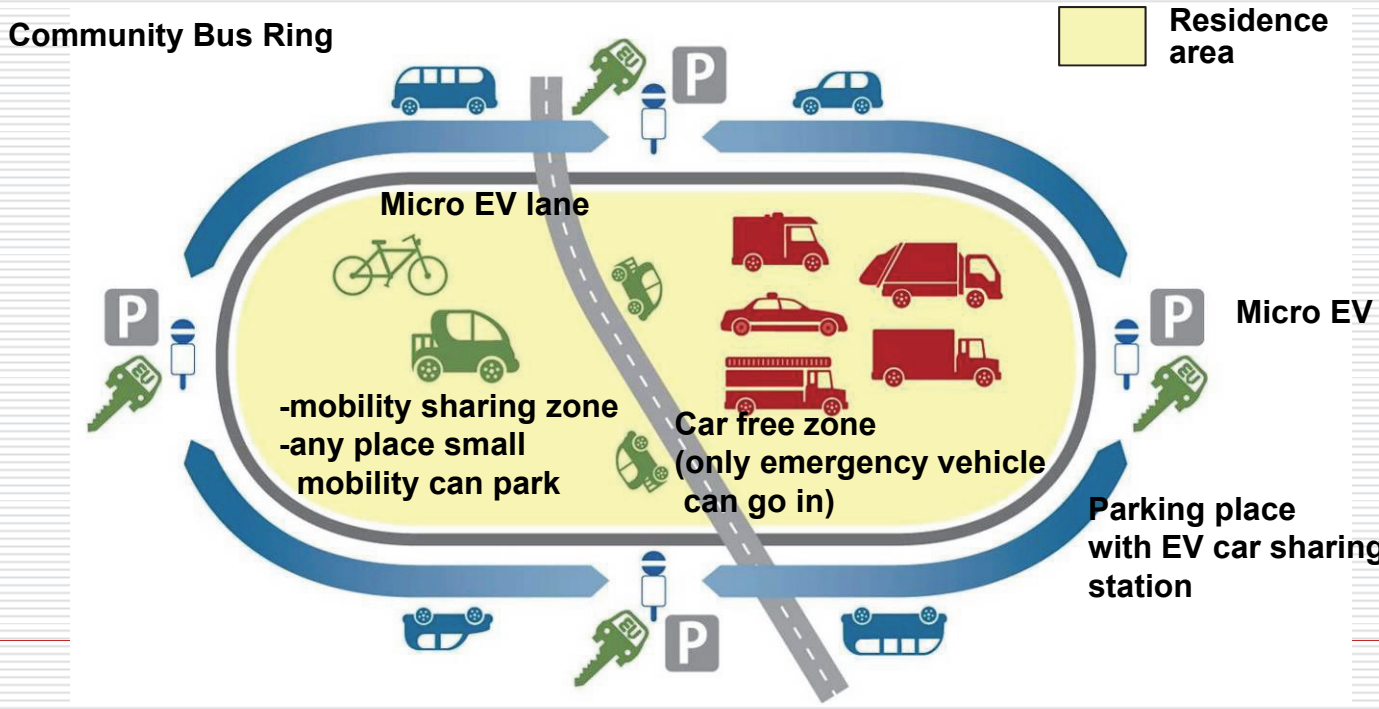
Establish compact cities where houses for the elderly, public facilities, medical care facilities, work place and shops, etc. are all in the vicinity. Within the compact city, there will be no steps and elderly people can walk or use micro EV to transfer.



◇ Super-aging Society

Elderly-friendly transportation system / advance electric transports

With compact cities, we will create a city/town with minimum physical transfer cost for the elderly. For example, we will make the city/town compact and introduce elderly-friendly transportation (such as on demand mini EV bus, introduction of micro EV, car free zone, barrier free zone, etc.)



Micro EV

◇ Super-aging Society

Create an advanced model for nursing care and welfare

There are a number of group homes for elderlies with Alzheimer disease, mentally or physically handicapped persons and physically and they accept people from outside the area of 2 Cities/1 Town as well. The area is fit both for rehabilitation as well as for elderly's final home as it benefits from little snow and more sun in comparison to other areas of Tohoku. We will become a nursing/welfare model representing Tohoku Region by way of utilizing this history of dealing with nursing/welfare as well as favorable climate conditions.

◇ Super-aging Society

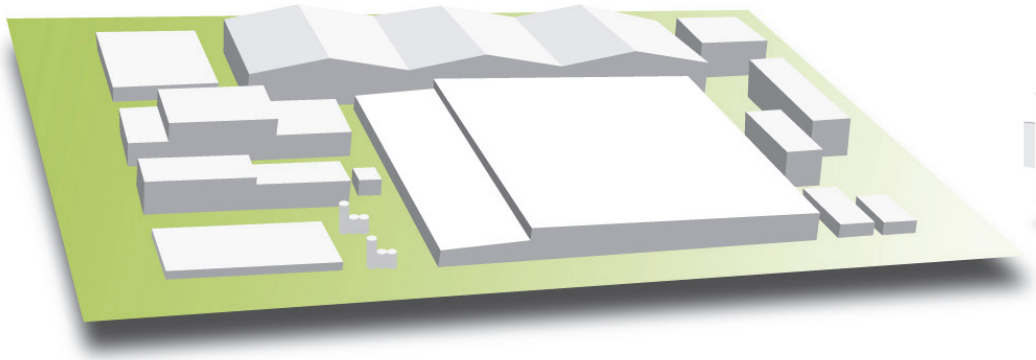
Create jobs for the elderly (reconstruction of agriculture)

As a result of the earthquake, many agricultural properties suffered from flooding, causing job losses for elderly farmers. We will create job opportunities for the elderly by way of utilizing high technology such as vegetable plant so that they can work and contribute to the society.

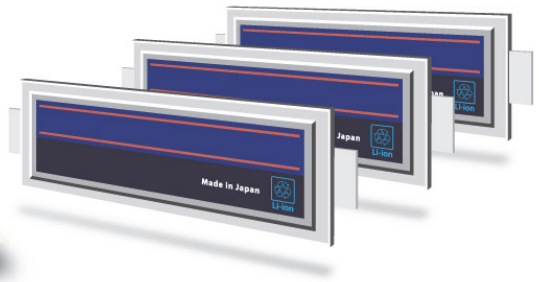
◇ Industry promotion

Promotion of battery industry (large-scale stationary lithium-ion storage)

- We will establish a base for industries relating to renewable energy by way of inviting corporations that manufacture large scale stationary type storage batteries which eventually will become an important facility for 21st Century urban construction around the world.
- We will target annual production of 1GWh (equivalent to 40,000 electric cars) in FY2014.
- Our final target is maximum 10GWh per annum.



large-scale stationary storage battery industry



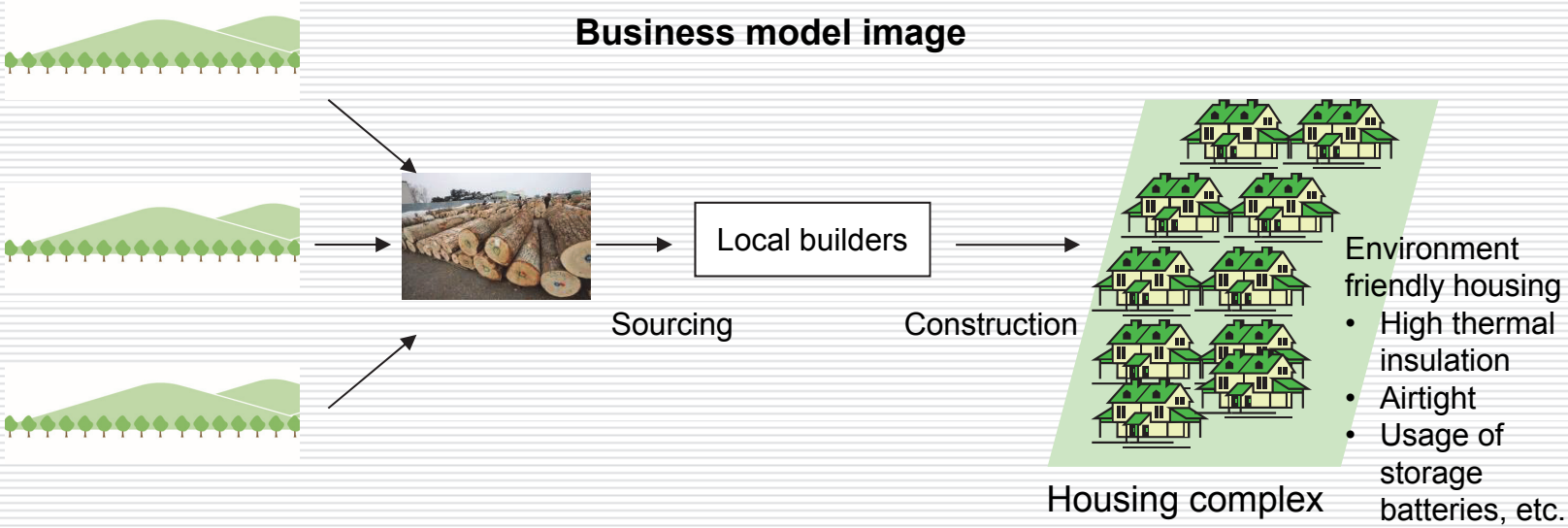
large-scale stationary lithium-ion storage battery

◇ Industry promotion

Development model of wooden environmental housing complex

In accordance with the policy by the Ministry of Land, Infrastructure, Transport and Tourism which promotes high profile environment-friendly housing such as high thermal insulation, airtightness, usage of storage batteries, etc, we will create a model for a housing area that copes with environment by way of developing detached houses and housing complexes built by local builders using local lumber.

Business model image



Thank you for your attention.

Restoration from the earthquake is a challenge to the future.

All of us within the region shall continue to work together with hopes and dreams for the future.

We will appreciate your concerns and continued supports.