Development of Disaster Management Bases Integrated in Town Development by Cooperation of Residents

Region	Kamaishi City, Iwate Prefecture	Important Aspects to Realize "Better Reconstruction"		Development of Disaster Management Bases Integrated in Town Development; and Process of Consensus Building among Residents		
Overview of Efforts	 Kamaishi City of Iwate Prefecture, with a population of about 40,000 (before the earthquake), is one of regions seriously damaged when the Great East Japan Earthquake occurred. About 30% of the total households was damaged mainly due to the tsunami, and a large number of casualties was suffered. Reconstruction and town development of the city is promoted in two different ways, "Urban style" and "Fishery village style". The former mainly promotes development by readjusting land parcels, and the latter mainly promotes population resettlement. As for the promotion system for reconstruction, Council of Reconstruction & Town Development and Liaison Council of Landowners have been established. They are promoting the reconstruction by determining projects suited to the actual situations of disaster affected 21 districts. 					
Points of Efforts	 Promotion of Town Reconstruction in Accordance with Regional Characteristics In Kamaishi the land use policy by district has been developed to create two type of districts, "District developing a new town as non- flooding area by relocating to upland and installing multiple defenses" and "District adopting building regulations for land use", based on the regional characteristics. 		Land Use Policy: 3 Key Points		Seawall Development Concept	Land Use Concept
			Securing Safety > Secure the overall safety by focusing on the execuation of the residents and combining developments of and use, evacuation and disaster maagement facilises. Poeroid pool disaster public housing for those who lost their houses due to the earthquake and have difficulty in securing housing by themateus. > Secure land for housing by annuing a certain level of safety with multiple disaster defenses, so thathousing will not be lost. Creation of Facuation Mechanism > Raise the awareness of disaster preparedness through disatter preventine of disaster public and rule, any control for our of the rule. > Develop asystemenabiling asysteme housing asystem	*	Is the case of high frequency transmit (occurs in most every several decides to every hundred; yees or more. Magnitudes of Sannibus Transmits, in Meij and Stova periods in charabith, minimus were intrusion into linear are with searabit sand breakwaters, as small as possible. The case of the biggest transmit (geater than the high-frequency transmit, exceeding the capacity limit of messure by seavails and breakwates. Magnitude of case that just present in Camadity, minimus to protect these of people's y combining hard development and soft measures.	Develop a district-specific land use policy with the idea of two district types, based on simulation results of water intrusion by the biggest trunnami against the development agest height for the high-frequency trusmani. Combine handdevelopment and soft measures in the policy. > District development agest height defenses > District development agest height defenses > District development agest height defenses > District development agest height development and the soft intrusion is foreseen, by adopting building regulations for land use.
	 Establishment of Council of Reconstruction & Town Development by Respecting Residents Playing the Key Role Immediately after the earthquake, opportunities to hold dialogue between the city administration and relevant parties such as residents, business operators and landowners have been established in a style of social gathering organized by the city administration, in disaster-affected districts within the city. District reconstruction revolves around the exchange of opinions among Council of Reconstruction & Town Development of each district, Liaison Council of Landowners, and the city administration. While incorporating inputs from the residents as much as possible, a comprehensive town development policy has been determined and developed, including plans for not only housing but also elementary and junior high schools , as well as attracting the 2019 Rugby World Cup, a sports complex, etc. 			Tow Co	ncil of Reconstruction & n Development, Liaison puncil of Landowners Various Committees (Future Town PJT, etc.) Experts Organization	Comprehensive Promotion Council
	 3. Promotion of Town Development in Cooper Businesses In September 2012 a memorandum of understanding disaster public housing with Kamaishi Plant of Nippon signed. The housing was developed through a public- the construction was completed in February 2015. The Nippon Steel plant located close to the former sh was partially rented to attract Aeon Town in March 20 Kamaishi Chamber of Commerce and Industry and bu shopping district were reflected in the determination to 	on development of Steel Corporation was private partnership, and opping district of the city 14. Requests by usinesses in the	Image of Development		Joint Store Facility	Information Exchange Center

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Status of Reconstruction and Land Use in Unosumai and Kerobe Districts





← Instead of relocating to upland, incorporate building regulations to town areas existed before and prepare for disasters such as tsunami.

Figure: Planned construction site of elementary & junior high schools



Land Use Policy of Kerobe District and Current Status





← Relocate the residential area to upland and develop new fishery-related facilities in the coastal area.

Figure: Site after relocation





Source: Kamaishi City, Basic Plan for Reconstruction & Town Development of Kamaishi City