

Resilience for Tomorrow

Rikuzentakata's Challenges over 2011 Tsunami Disaster

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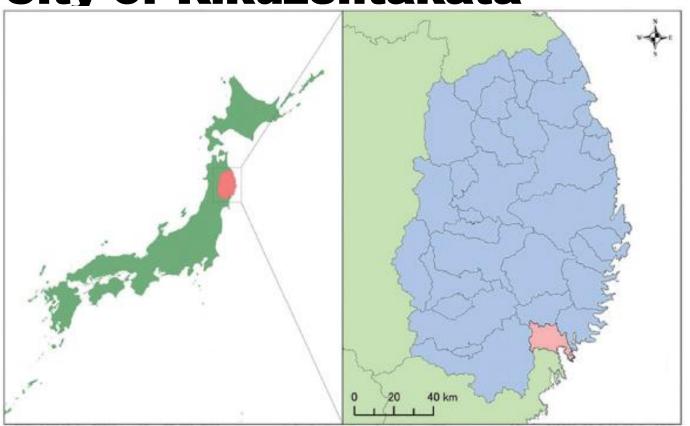
Session overview

- Introduction
- Tsunami Devastation
- Recovery and Rebuilding entire City
- Lessons Learnt
- Forward





City of Rikuzentakata



Rikuzentakata

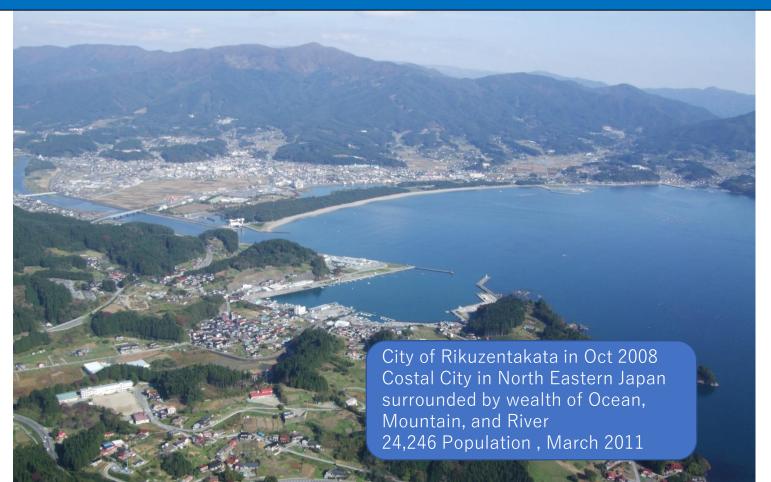


San Francisco



5

Before Tsunami Disaster



Just after Earthquake 3:10pm



Tsunami 3:25pm



Tsunami 3:26pm



Tsunami 3:27pm



Tsunami 3:29pm



Tsunami 3:35pm



At Fire Station 15:27:06















Huge Tsunami attacking the inner city ≪ video ≫



15:28:08



15:28:52



15:30:42





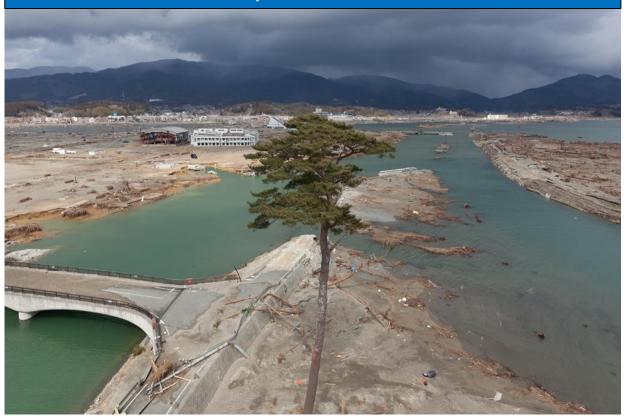
City Hall







Miracle Pine only survived among 70,000 trees



A Life at an Emergency Shelter



Damage in Rikuzentakata

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Maximum inundation height		17.6 m
	Inundation area	$13\ km^2$ (5.5% of the total city area of 232.29 km²)

<Major damage>

(1) Human damage

(As of

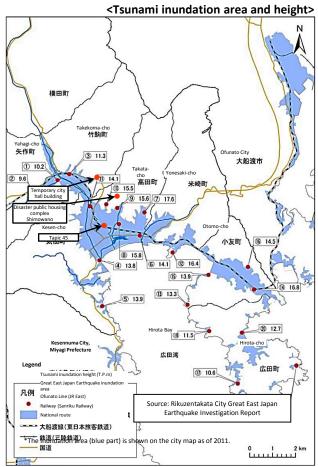
February 28, 2017)

Classification	Number of people	Remark
Confirmed dead	1,556	Including 46 related deaths
Reported missing	203 (200)	The figure in parentheses () shows the number of people registered as dead.
Total	1,759	7.3% of the total 24,246 population as of February 28, 2011

(2) Building damage

(As of February 20, 2017)

Tebruary 20, 201				
Classification	Households suffered		Remark	
Completely destroyed	3,806	by tsunami	3,802	
Completely destroyed		by earthquake	4	
Almost destroyed/Half	240	by tsunami	220	
destroyed		by earthquake	20	
Partially destroyed	3.984	by tsunami	46	
Partially destroyed	3,964	by earthquake	3,938	
	8,030	by tsunami	4,068	99.5% of the total 8,069
Total		by earthquake	3,962	households as of February 8, 2011





Renewing Projects



- 1. Seawall Improvement
- 2. Disaster Area Land Readjustment
- 3. Collective Relocation to higher land
- 4. Disaster Recovery Public Housing
- 5. Development and Rebuilding Roads
- 6. Building All of Public Facilities
- 7. Tsunami & Reconstruction Memorial Park
- 8. Development of Central Downtown Area





Basic Concept for Renewing City

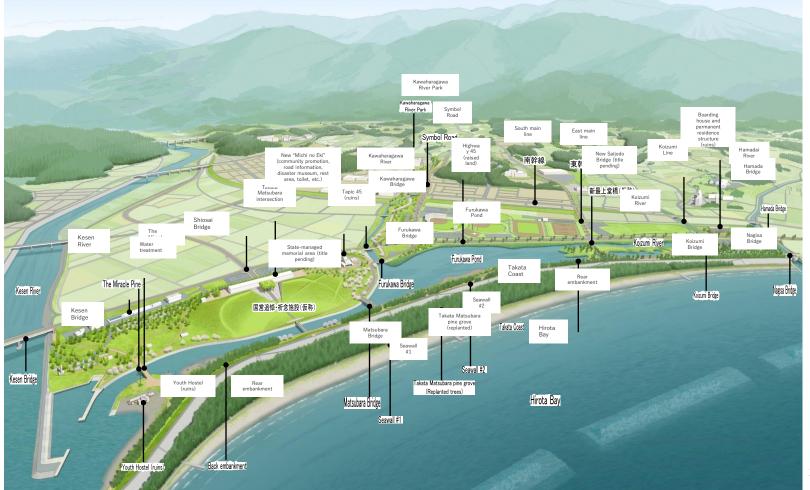
開助属田市中め大壌

- Sharing "BUILD BACK BETTER" to the world on the rebuilding the entire City from below ZERO, and "Resilient City" - Strong infrastructure against natural disaster
- 2. Business development in the area of "Inclusiveness and Accessibility", No one is left behind to proceed the reconstruction plan and to create the society for anyone who wish to make a dream together (SDGs)

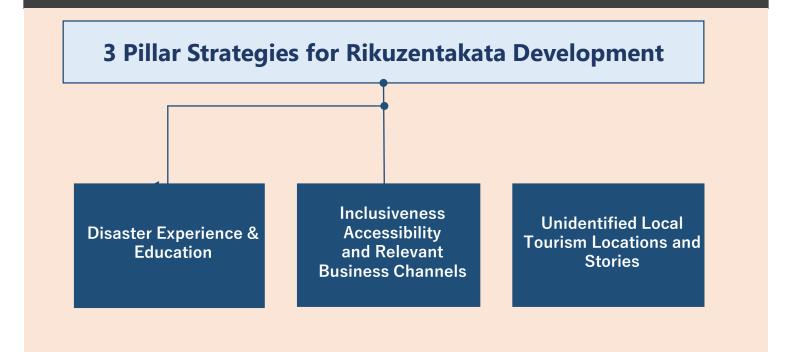


- Rikuzentakata Global Campus for Disaster Management
- Social Inclusiveness Projects
- Tourism from outside of Japan
- New Business Development

Rikuzentakata Tsunami Memorial Park

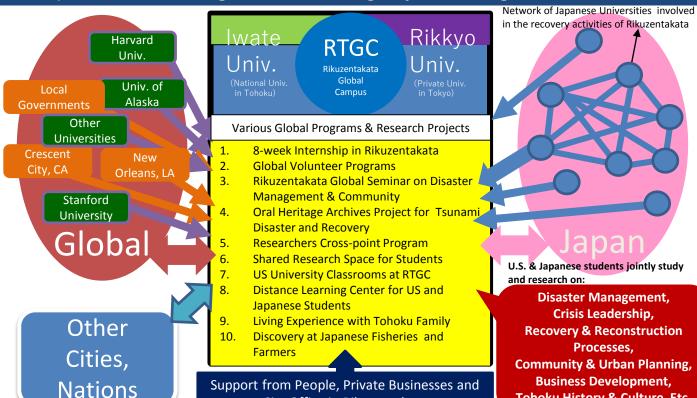


Concept for Development of Tourism Based City



Rikuzentakata Global Campus (RTGC)

Experiment & Learning at the Innovating City Rebuilding From Devastation



City Office in Rikuzentakata

Tohoku History & Culture, Etc.

X The Contents in this paper is just an idea and the plan of RTGC is now under consideration.

Intentional Inclusion Action Plans with diversified groups









A city where normalizing is the norm



Lessons Learnt from Disaster for Tourism

- Disaster is unpredictable, but Preparedness is crucial
- Disaster Management Manuals
 - City Officials
 - Schools
 - Tourism Industry
- 4 language signs in the City
 - : Japanese, English, Chinese, Korean
- Citywide Emergency Drill



Pictogram

Universally understandable







津波避難場所 図4



津波避難ビル 図5



Thank you, Questions are welcomed later on

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