Experimental practices of reconstruction design in Ishinomaki city

災害復興実践学の可能性：石巻市等における復興実践

This exhibition features the actual situation, challenges, and good practice of whole reconstruction process in Ishinomaki city, which is one of the heaviest damaged municipality in disaster affected area by The Great East Japan Earthquake and Tsunami. Disaster Reconstruction Design and Management field of IRIDeS have been collaborated with Ishinomaki City to discuss, organize, and achieve their reconstruction plan from the summer of 2011. A considerable attempt is to give an opportunity to understand and discuss how successful practice achieved and what kind of factor in social structure would obstacle it. This is an exhibition highlights sharing the value and creativity with the audience by showing interdisciplinary works in collaboration with civil engineering, urban planning and architecture experts.

東日本大震災において最大の被害を受けた石巻市。東北大学と本自治体の包括協定に基づいて、発災以来4年近くに渡って行って来たこの自治体における復興計画の検討、策定、実装のプロセスを紹介する。これらを通じて、今震災における復興計画の実際の姿とそこにおける具体的な課題、さらにはその学術的意味を提示する。津波で壊滅的被害を受けた半島拠点地域を復興させるプロジェクト、市街地の再生に向けて本組織が自治体や民間と取り組んでいる再開発事業計画、その他美しいふるさとの再生を目指した橋梁デザインなど、土木・都市・建築の専門家が一体となって創造的環境の実現を目指した事例を展示する。

3-7
Nikkori Housing Complexes in Kitakami Area Town and Community Building Utilizing Sports Facilities

5-6
Design for Higher Area for Relocation Part 6, Magaki District, Kahoku Area

4-5
Plans for Levees that Highlight Distinctive Local Features Part 2, Isehata District, Ogatsu Peninsula

3-6
Relocation Plan to Higher Ground that Increases Sustainability in Isehata District in the Central Part of Ogatsu Area

2-3,2-4
Support for Town and Community Building in Large-Scale Disaster Prevention Collective Housing Complexes in Futago District, Kahoku Region

2-7
Ogatsu Integrated Elementary and Middle School Basic Plan & Basic Concept Workshops

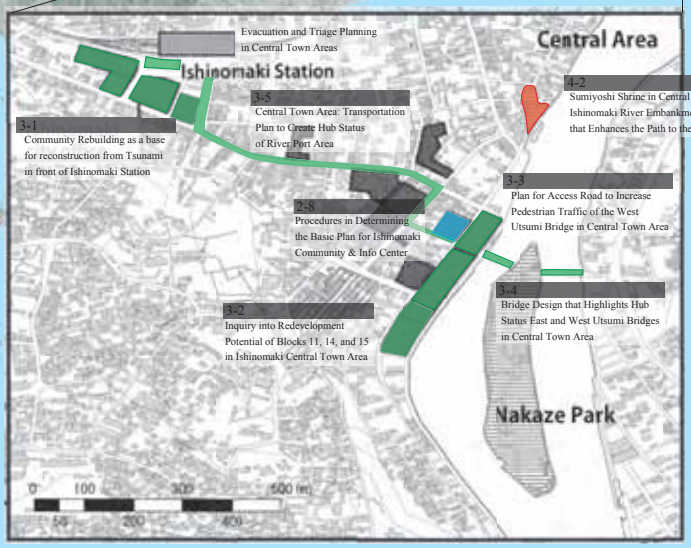
4-3
Plan to Alter River Course with Consideration for Use of Low, Flat Land Ohara River in the Central Part of Ogatsu Peninsula

5-5
Design for Higher Area for Relocation Part 5, Mizuhama District, Ogatsu Area

2-6
Watanoha Middle School Basic Plan & Basic Concept Workshops

2-5
Land Readjustment Project to Recall Memories of Town Blocks in Kadonowaki District, Central Town Area

5-1
Design for Higher Area for Relocation: Part 1, Sudachiyashiki District, Oshika Area



Evacuation and Triage Planning in Central Town Areas

3-5
Central Town Area: Transportation Plan to Create Hub Status of River Port Area

4-2
Sumiyoshi Shrine in Central Ishinomaki River Embankment Design that Enhances the Path to the Shrine

3-1
Community Rebuilding as a base for reconstruction from Tsunami in front of Ishinomaki Station

3-3
Plan for Access Road to Increase Pedestrian Traffic of the West Utsumi Bridge in Central Town Area

2-8
Procedures in Determining the Basic Plan for Ishinomaki Community & Info Center

3-4
Bridge Design that Highlights Hub Status East and West Utsumi Bridges in Central Town Area

3-2
Inquiry into Redevelopment Potential of Blocks 11, 14, and 15 in Ishinomaki Central Town Area

5-2
Design for Higher Area for Relocation Part 2, Ooyagawa District, Oshika Area

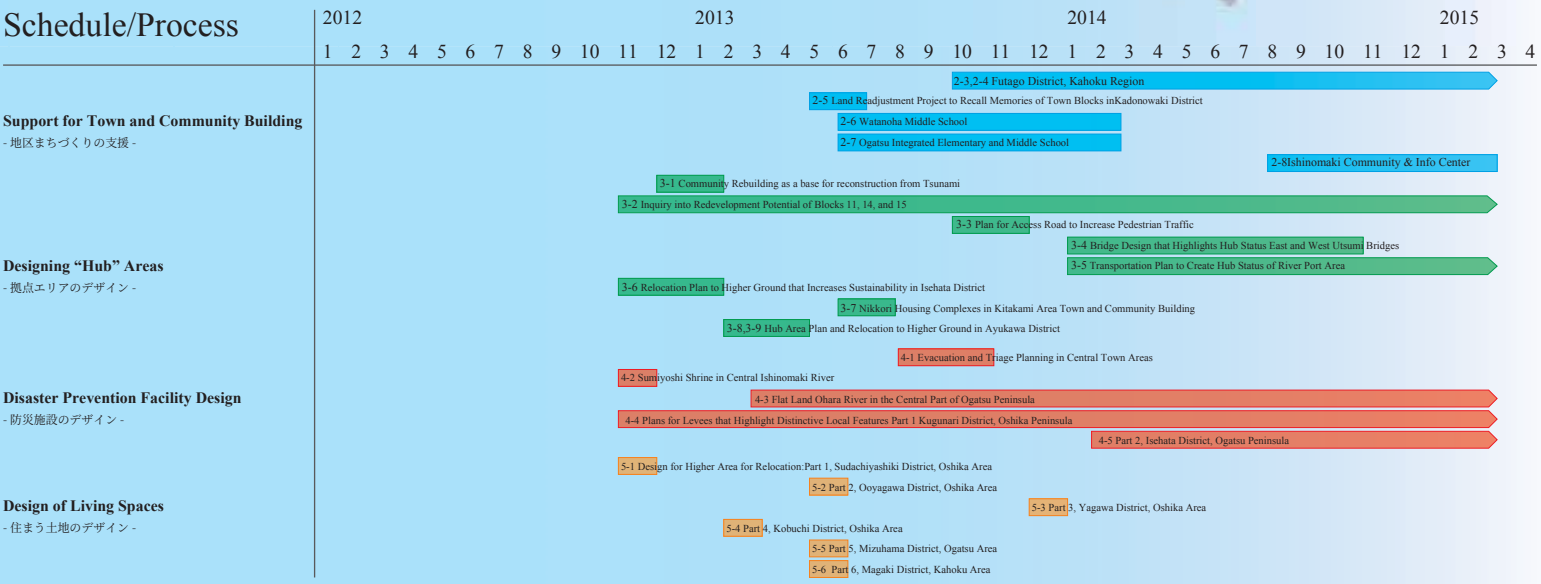
5-3
Design for Higher Area for Relocation Part 3, Yagawa District, Oshika Area

5-4
Design for Higher Area for Relocation Part 4, Kobuchi District, Oshika Area

4-4
Plans for Levees that Highlight Distinctive Local Features Part 1 Kugunari District, Oshika Peninsula

3-8,3-9
Hub Area Plan and Relocation to Higher Ground in Ayukawa District, Oshika Peninsula

Schedule/Process

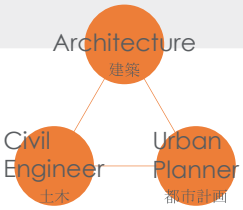


×

TOHOKU UNIVERSITY

IRIDeS

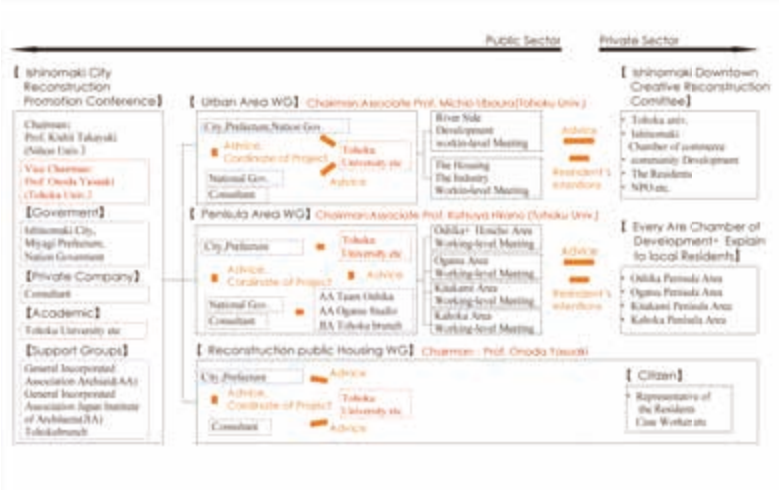
Practical team in Tohoku University



This exhibition the main efforts of the reconstruction planning support that were made by Disaster Reconstruction design & Management, International Research Institute of Disaster Science,made a framework agreement with Ishinomaki city in April 2014, starting supports from the points of view of urban and civil engineering, architecture, and disaster prevention experts.

Collaboration System

Government × University



Practical Efforts

Integration government & Citizens × Planning & Design

Inquiry into Redevelopment Potential

Designing "Hub" Areas:Case1 Ishinomaki Central Town Area

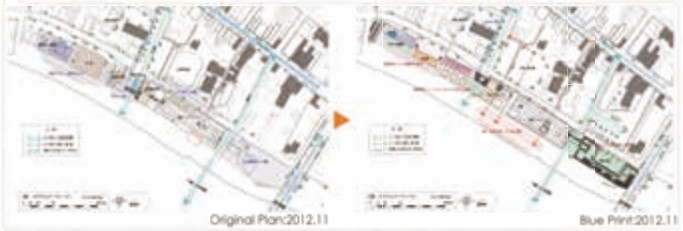
View From New Utsumi Bridge : Original Plam

2012.11

View From New Utsumi Bridge : Blue Print

2012.11

Detail plan: Ground Plan for river port's second floor promenade



Conceptual Model

2015.3

Consultation with City and Private Sector,Tohoku Univ.

2015.3

The objective of this project is to propose plans for facilities that consider the central urban areas' relationship with their being a river port, and the area's history and landscape as a river port. Included in the plans are a plaza that would connect the East and West Utsumi Bridges that are planned to be reconstructed and the New Utsumi Bridge, a transportation hub to connect the area in front of the station with the river port, and architecture that connects the river and town—that is, architecture with span divisions that take advantage of the alleys remaining in adjacent sites, and whose height considers the view from the New Utsumi Bridge and the Nakaze area while still guaranteeing the necessary functions.

Hub Area Plan and Relocation to Higher Ground

Designing "Hub" Areas:Case2 Ayukawa-hama,Oshika Penisula

Conceptual Model for the Hub Area (model created in collaboration with Kazuhiro Kojima Studio,Y-GSA,Yokohama National University)

2013.3

Back Ground:Master Plan

Hub Area Plan : Original Plam

2014.9

Hub Area Plan : Blue Print

2014.9

The objective of this project is to make higher grounds for relocation which are adjacent to the pre-existing residences more appealing and to prevent dispersion of the community as well as to create a hub area for visitors.Concretely, the plan for relocation to higher ground was amended, and a plan was proposed for a hub area that would bring together the higher grounds near already existing residences with fishing industry, commerce, and tourism facilities, along with another plan to create a network of roads that would make the higher ground relocation areas more convenient. Consequently, a council with residents was held and their opinions are currently being incorporated.