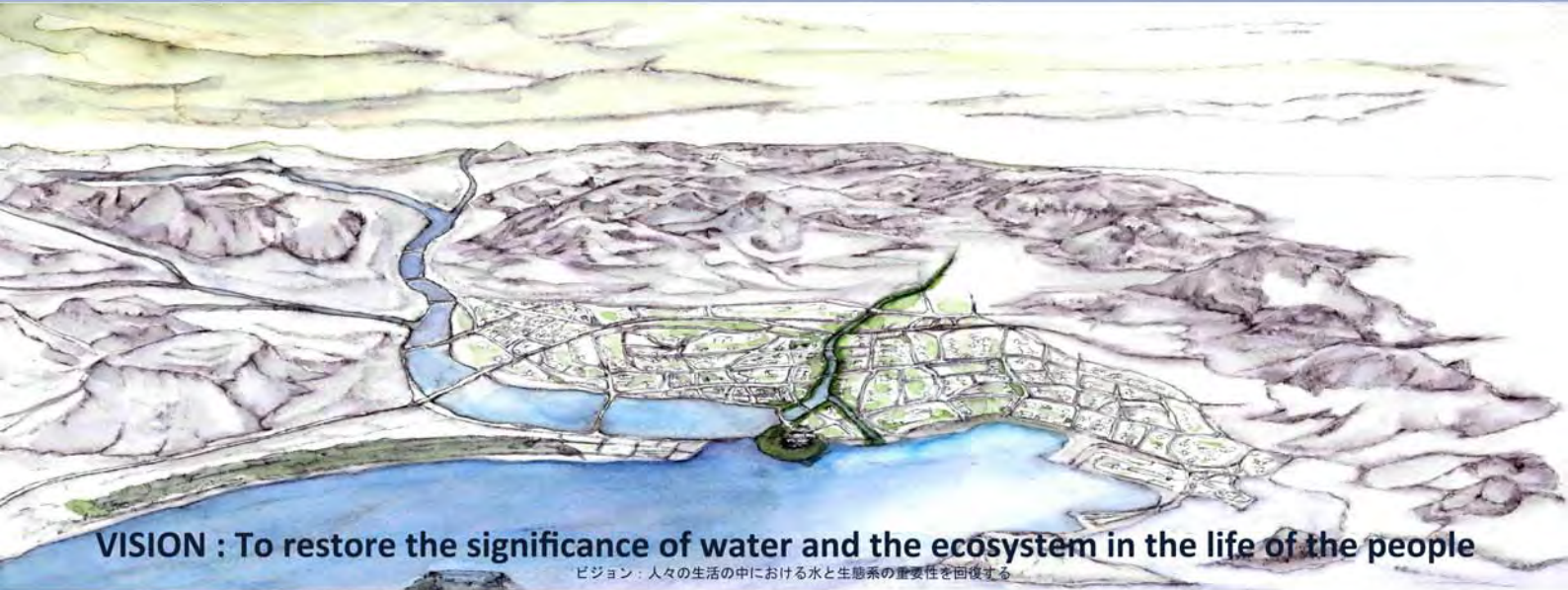


Water: Imagining an Eco-Friendly city at the Intersection of River and Sea

水・川と海の交差点における、エコ・フレンドリー・シティの想像

Mishkat Ahmed | Hsing Chih Lee | Ruchika Jain | Kensuke Wakabayashi | Kasumi Kamura | Ran Duan | Andre Yoshimoto



VISION : To restore the significance of water and the ecosystem in the life of the people

ビジョン：人々の生活の中における水と生態系の重要性を回復する

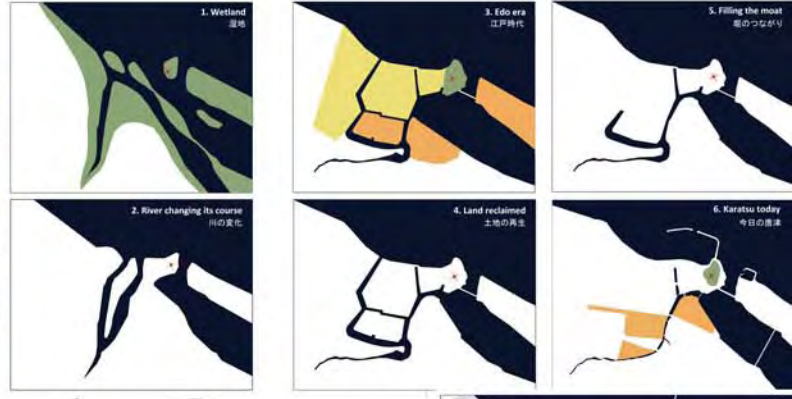
Original ports in the region(1801): This indicates the changing morphology of the river leading to loss of ports 地域の古来の港



Matsuura River watershed: going beyond Karatsu city 松浦川流域



Morphology of the Matsuura and Chouda River estuary 松浦川と町田川の河口の形態



Chouda River: Painting indicating various activities associated with water 町田川：川に関する様々な活用が絵に描かれている

町田川：川に関する様々な活用が絵に描かれている



Tidal effects in the river systems 川の形状と潮の影響

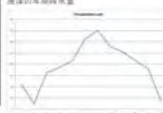


Topography and natural drainage slope of the land 等高線と自然排水

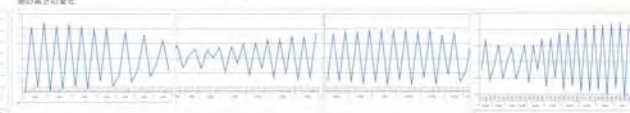
PRINCIPLE 1 - Setting up a new water system for the city, that revitalizes the Chouda River and the Matsuura River and hence has effects on the overall hydrological system of the region

方針 1 市に新しい水システムを導入し、町田川と松浦川を復活させ、今後地域の中のすべての排水システムへと普及させる。

Annual precipitation in Karatsu 唐津の年間降水量



Change in tide levels (source: www.tbone.biol.sc.edu/tide)



Flood control gate of the Matsuura River 唐津川の洪水調整門



Karatsu city has developed at the mouth of the Chouda River and the Matsuura River, the second longest (145.3km) river in Saga Prefecture. The water, initially used as a means to protect the castle town against attacks, defined the shape of the city. The water from Karatsu's natural harbour, used for connecting the region to China and Korea, brought wealthy and cultural richness to the city. Karatsu is a city shaped by water, which is its strongest feature with the potential of bringing back to the city its original vibrancy and prosperity in a sustainable and ecological manner.

Existing condition of the Chouda River in the city 町田川の現状



2010 AII International Architectural & Urban Design Workshop in Karatsu, Japan

「交・まじわり」が編み出す魅力ある唐津へ

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STRATEGY FOR DEVELOPMENT

発展のための戦略

Tourism and income generation for community

ENVIRONMENT 環境

Research, institutes and educational activities

経済

SOCIO-CULTURAL 社会文化性

New public places to reintegrate community

PRINCIPLES

1. Setting up a new water system for the city, that revitalizes the Chouda River and the Matsuura River and hence has effects on the overall hydrological system of the region
2. Allowing a sustainable environment for plants and animals thereby restoring the original wetland habitat of Karatsu
3. Using water as a generator of public spaces that encourages community interaction and gives structure to the city
4. Proposing uses of the waterfront setting guidelines for future development

EXPECTED OUTCOMES

- Creating a unique regional identity
- Attracting tourists to the region
- Improving the daily experiences of the local residents by quality, social and cultural amenities to the environment especially for the elderly -] and connecting the city to the surrounding area, which also enhances a vibrant experience
- Promoting environmental and promoting environmental studies at the regional level



Principle 2 - Allowing a sustainable environment for plants and animals thereby restoring the original wetland habitat of Karatsu

方針2：植物や動物の持続可能な環境を維持することによって、唐津の本来の湿地の生物を再生する。

The river, the bridge and the green

川、橋、そして緑

rain runoff from water from the road drains into the swales

swales intercept rain water

water retention pond (water cleaning of pollutants and dust control)

river (leaf distribution: clear water through the swale system reaches here)

Diag.A: Functioning of the swale system

底辺系の機能

Concept

Swale system transports rain water (Diag A) to the natural water system and then cleans it; hence storm and grey water is separated (Diag B)

底辺系は雨水を自然に運し、浄化する。その浄水、最終的に河川へ注ぎこむ。

Diag.B

Water level and sedimentation changes over time

水位と土留物の変化

Proposed

Proposed urban spaces defined by water

水が作り出す都市空間

a b c d

Proposed urban edges defined by water

水が作り出す都市境界

Existing

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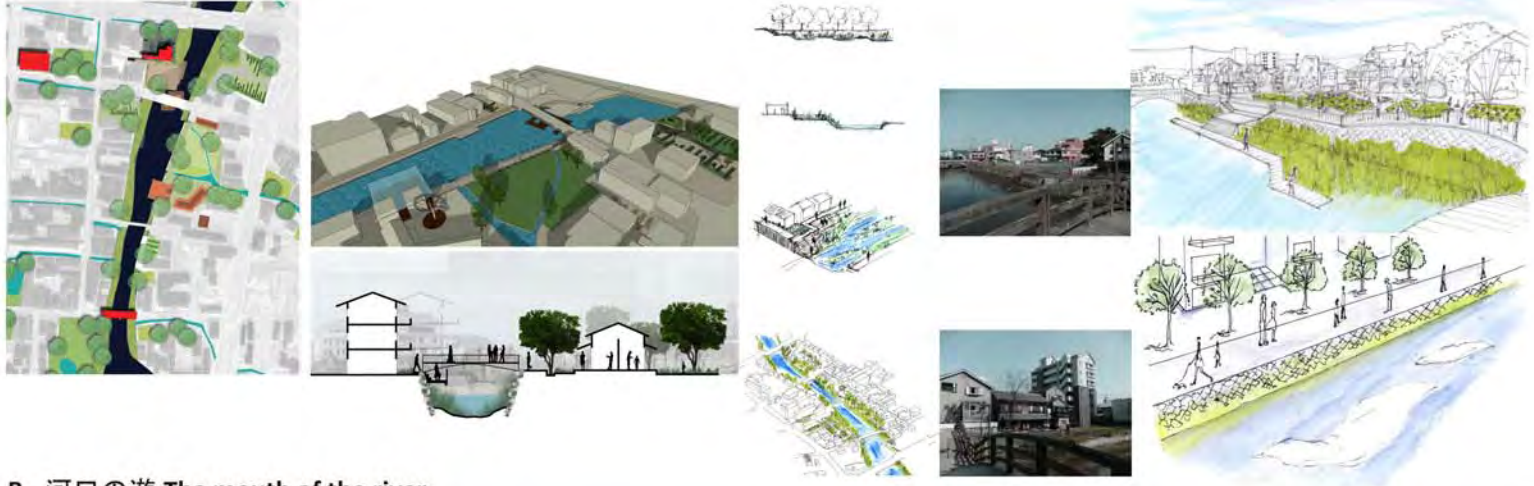
PRINCIPLE 3 - Using water as a generator of public spaces that encourages community interaction and gives structure to the city

方針3：水は地域交流を促す場を作り、街の根幹となる。

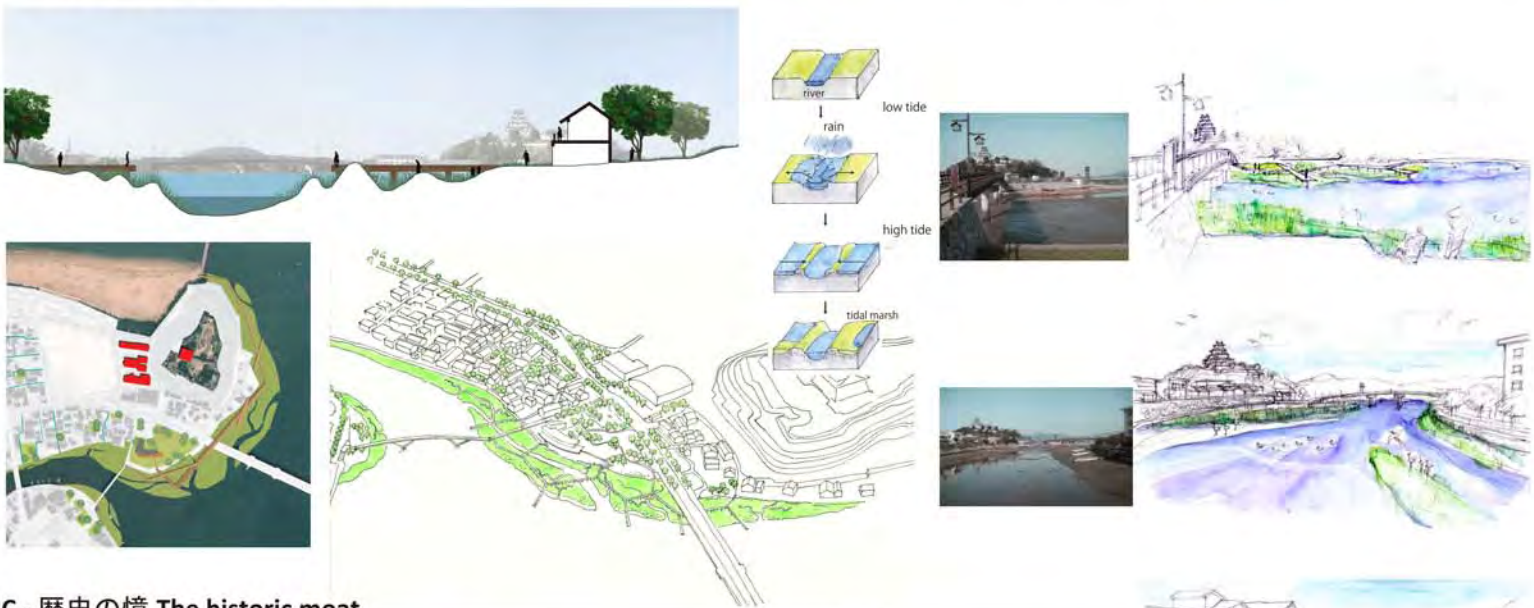
PRINCIPLE 4 - Proposing uses of the riverfront setting guidelines for future development

方針4：川沿いの将来のために、ガイドラインの制定を提案する。

A - 生活の會 The urban river



B - 河口の遊 The mouth of the river



C - 歴史の憶 The historic moat

