# Challenges in Marine Environment Management in Tokyo Bay

### Dr. Keita Furukawa, OPRI/SPF, COSIE/YNU

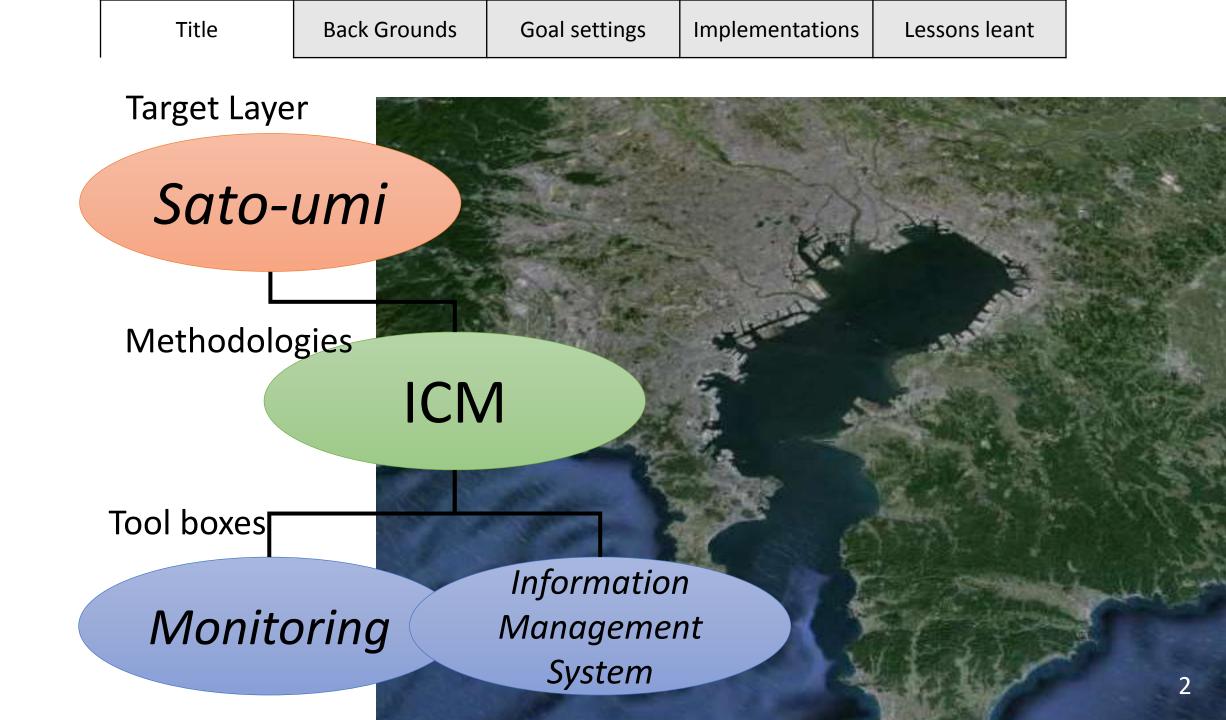


Dr. Keita Furukawa

Image Landsat Data SIO, NOAA, U.S. Navy, NGA, GEBCO Image IBCAO

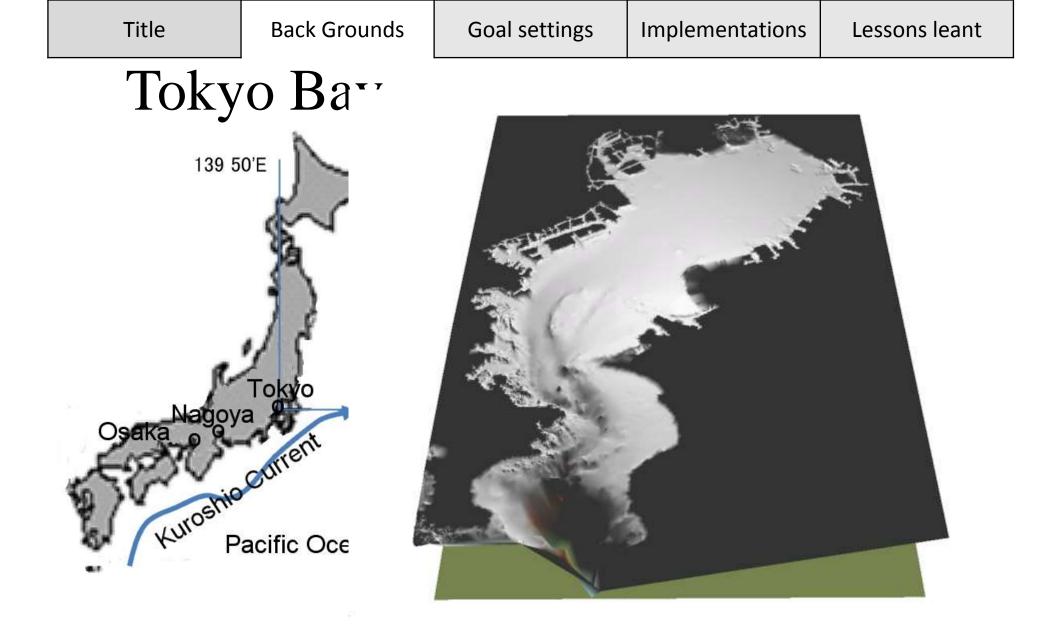








Superpose of geographical map of 1800s and fisheries zone map of 1908



 $50 \text{ km} \times 20 \text{ km}$  of surface, 15 m depth, Open to Pacific Ocean 7,500 km<sup>2</sup>, 26 Coastal cities, 26 million people, 1/3 industries



from "100 sceneries of Tokyo Bay", Kanto Regional Construction Office, MLIT

Title

Lessons leant

## Tokyo Bay at Present

### • Hub of Waterborne Transport







from "100 sceneries of Tokyo Bay", Kanto Regional Construction Office, MLIT

Title

#### Back Grounds

Goal settings

Implementations Less

Lessons leant

### Tokyo Bay at Present

• Human Use and Conservation of Nature







from "100 sceneries of Tokyo Bay", Kanto Regional Construction Office, MLIT

TitleBack GroundsGoal settingsImplementationsLessons leantEnvironmental Hazardsof TokyoBay



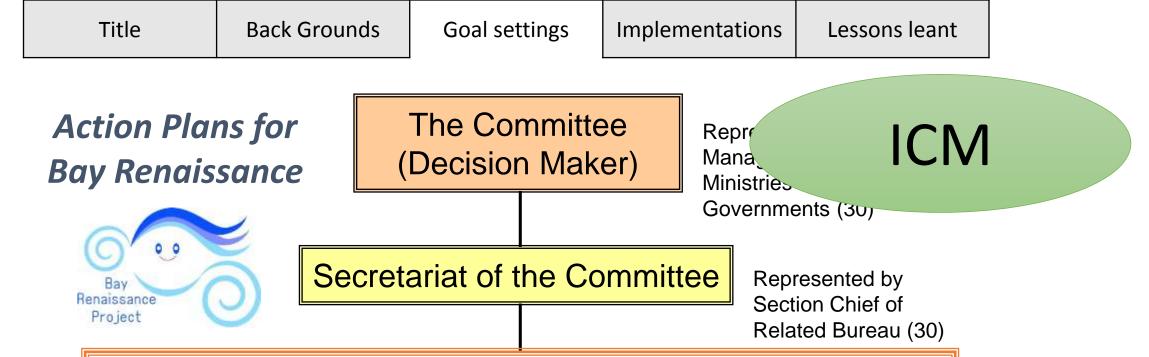
Red tide (Algal broom)



Blue tide (Anoxic Water Upwelling)



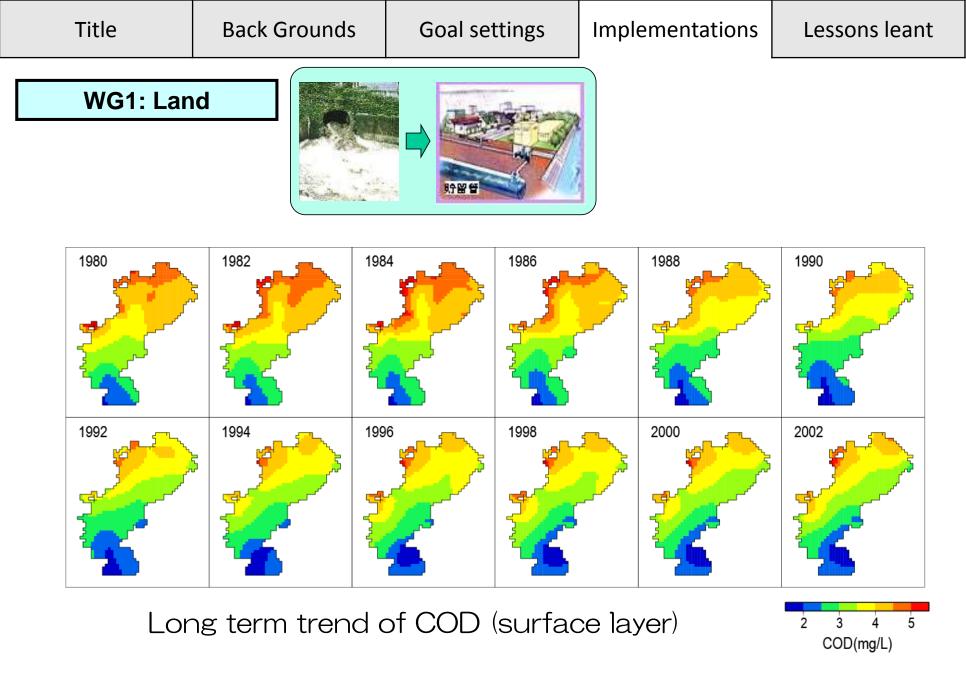
Fish Kill on 2003 (due to Anoxic Water)



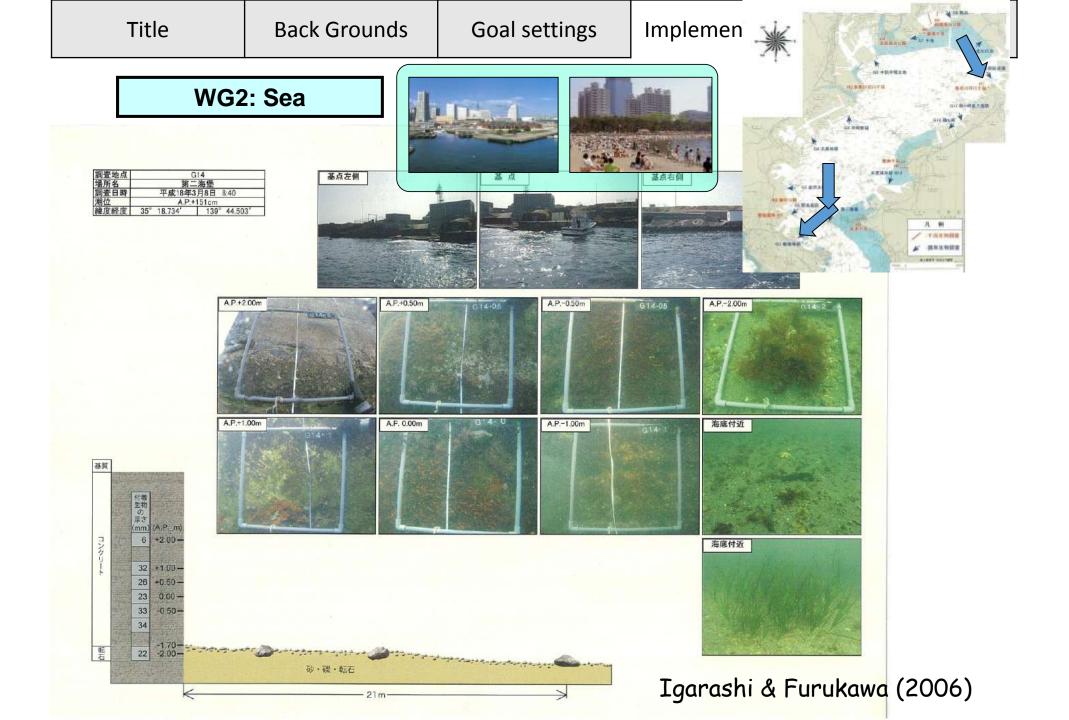
Goal: Restore the beautiful coastal environment for enabling pleasant use and sustaining biodiversity as a wealth of capital.

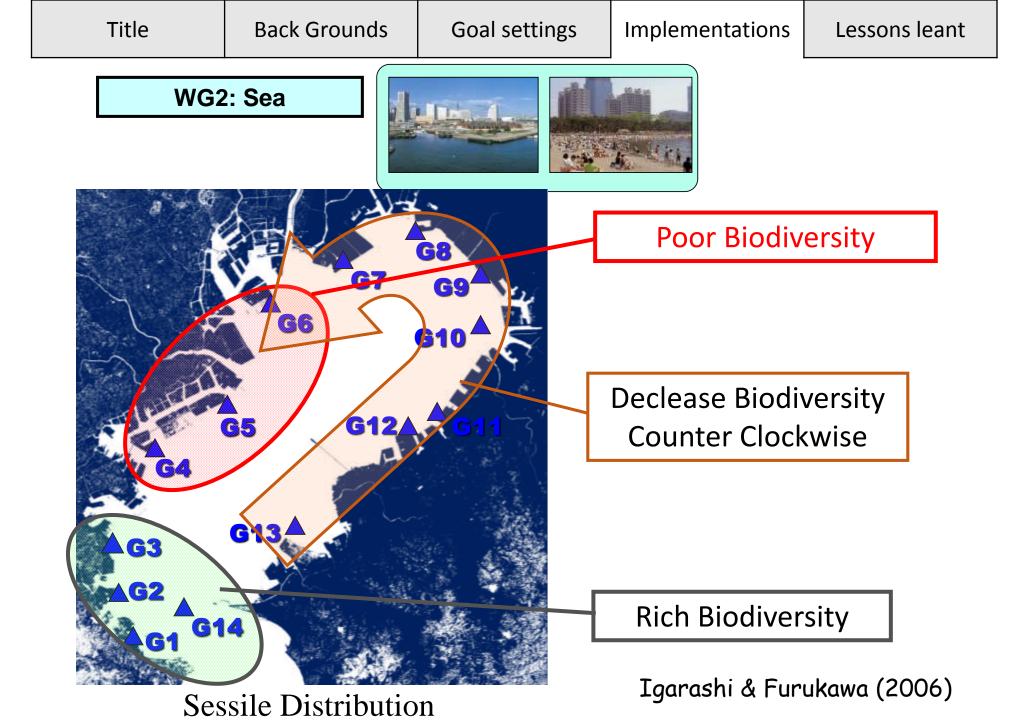


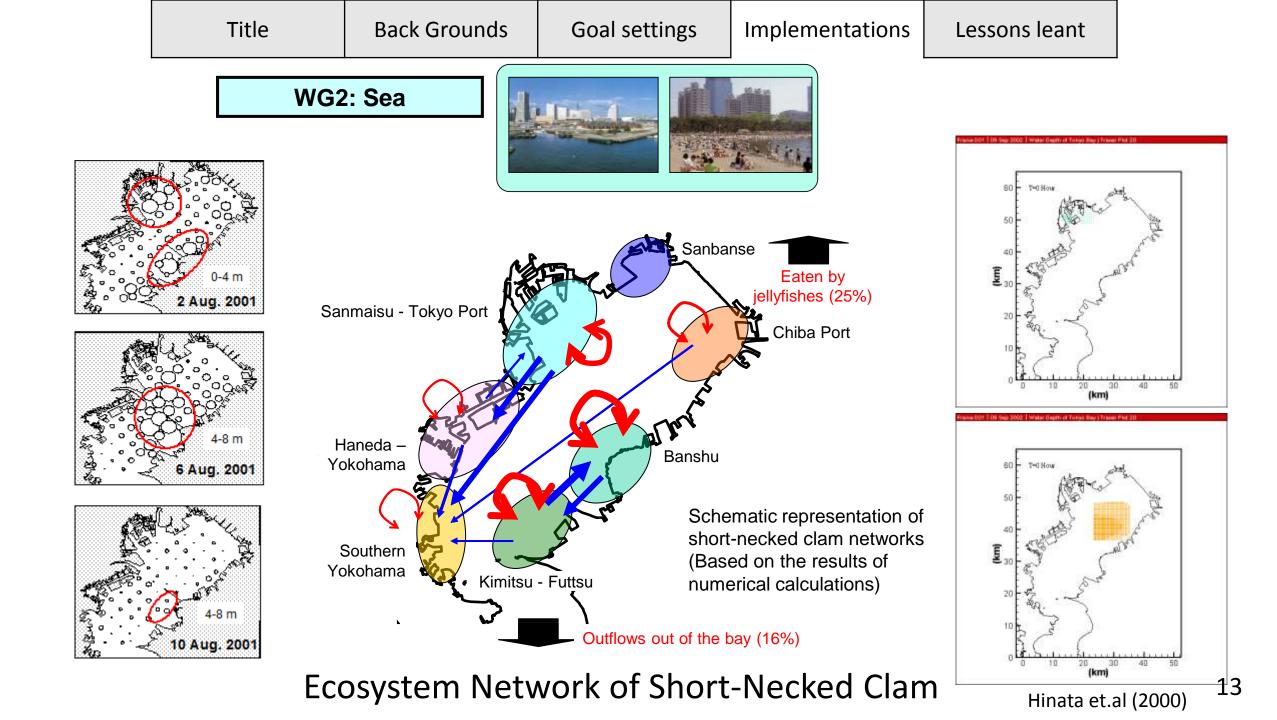
Project started 28th March 2003 as 10 years action plan

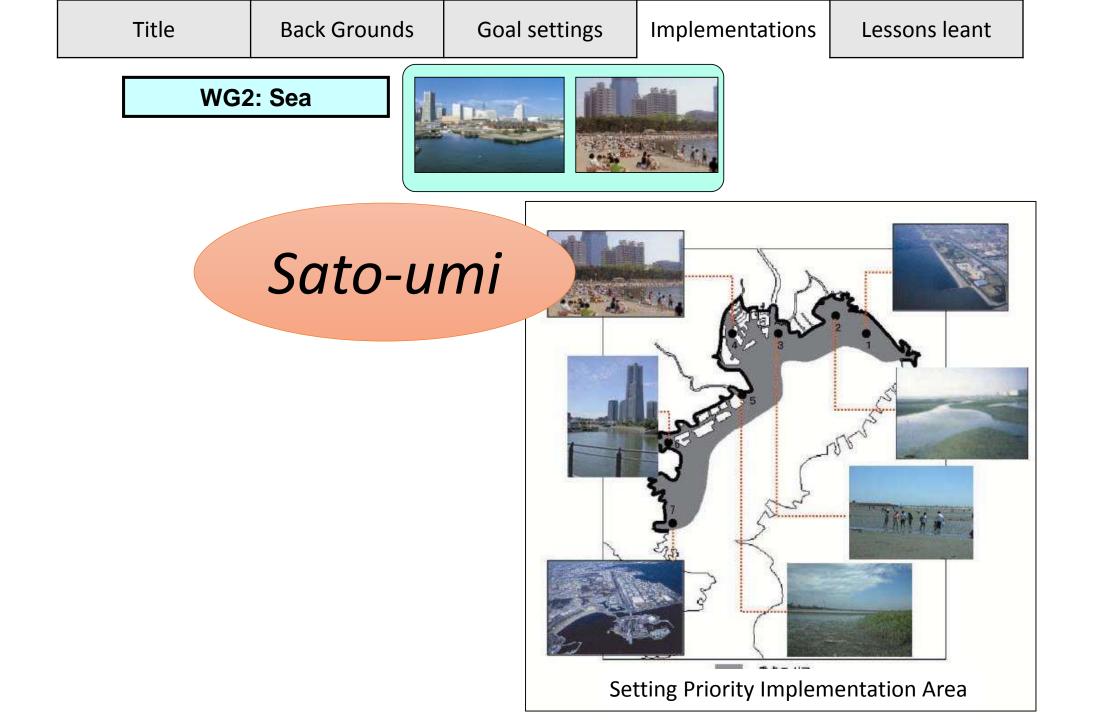


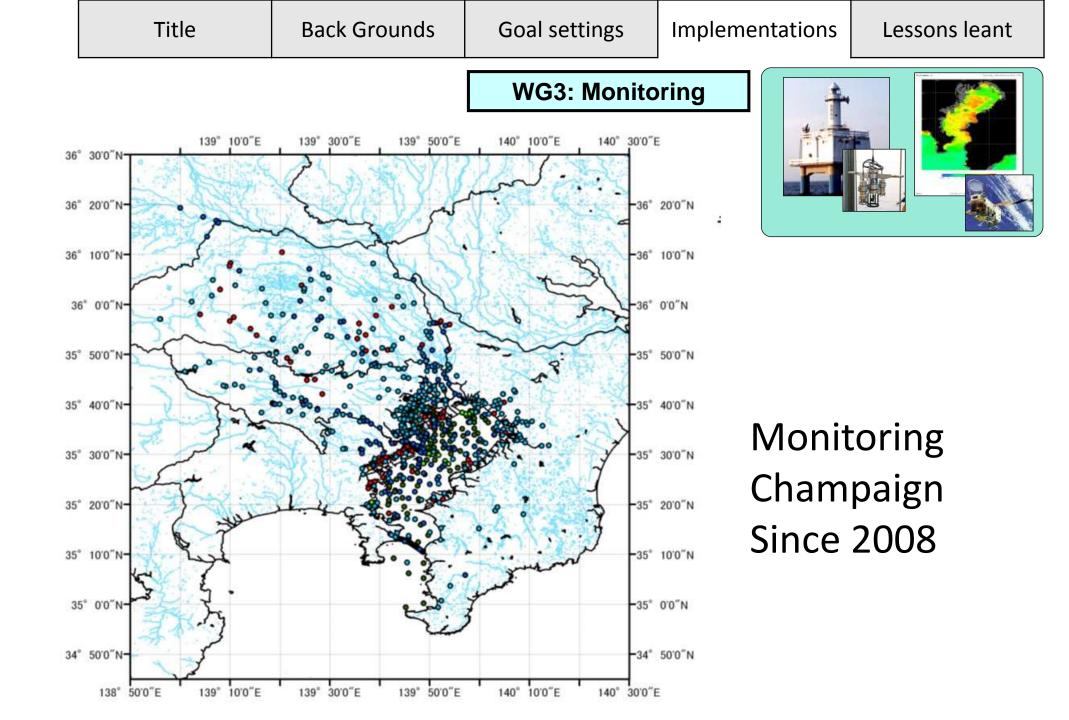
H. Ando (2004), Tokyo Environment Institute



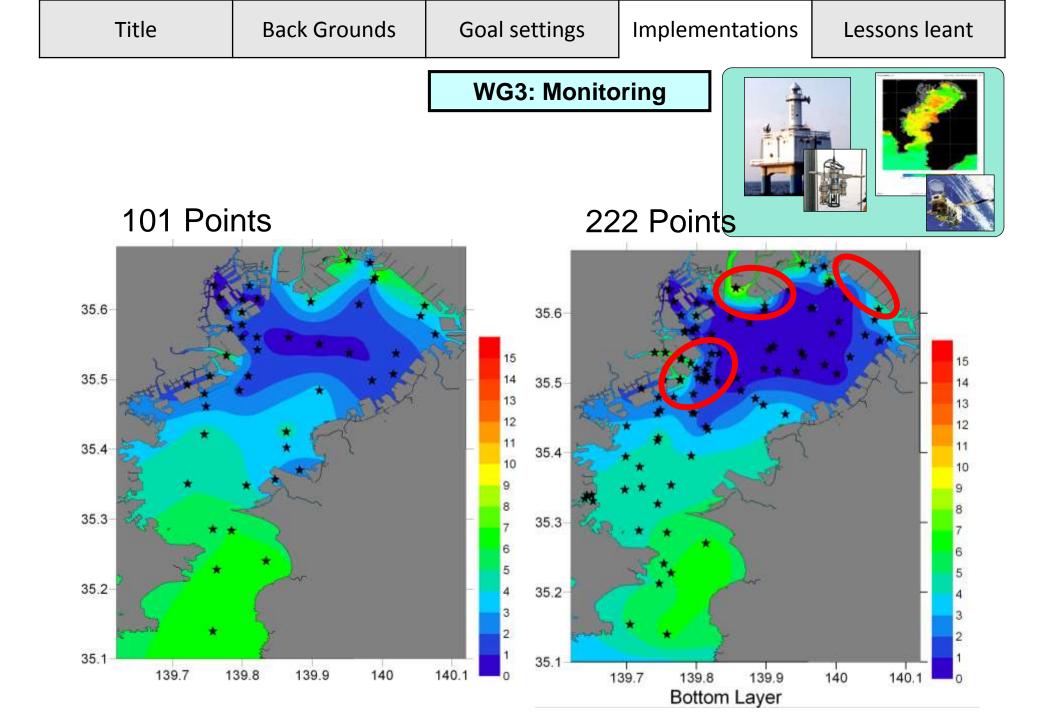


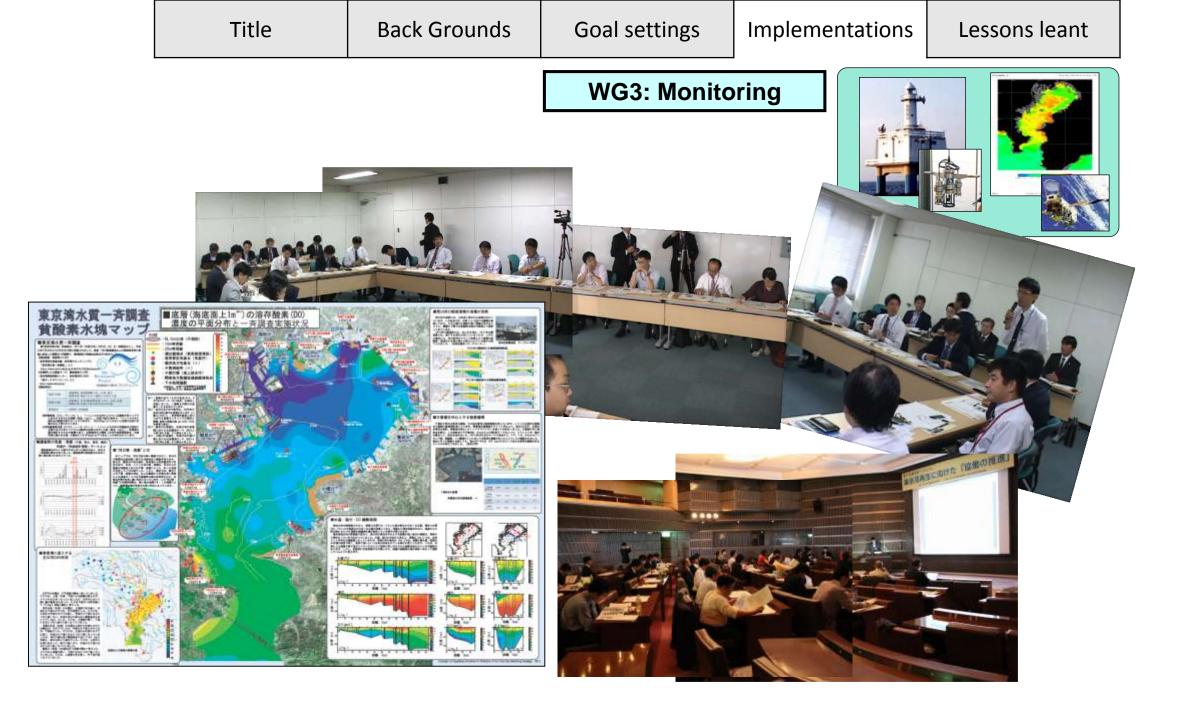




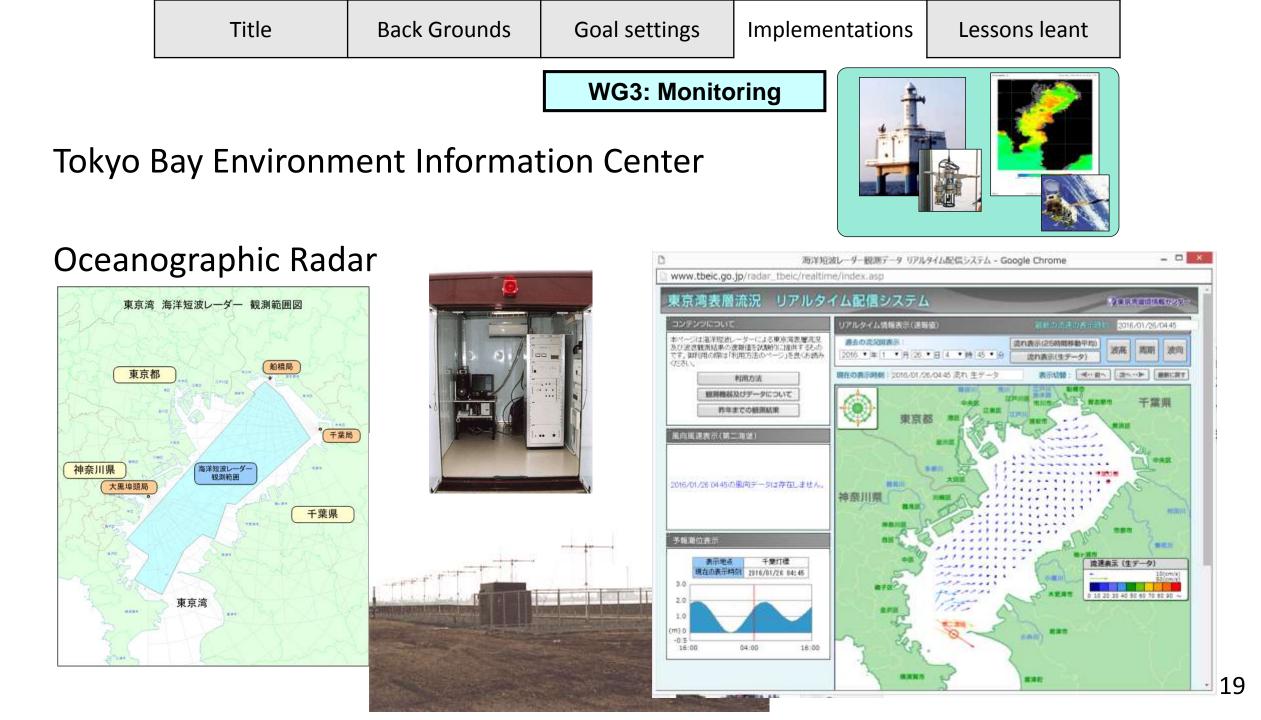


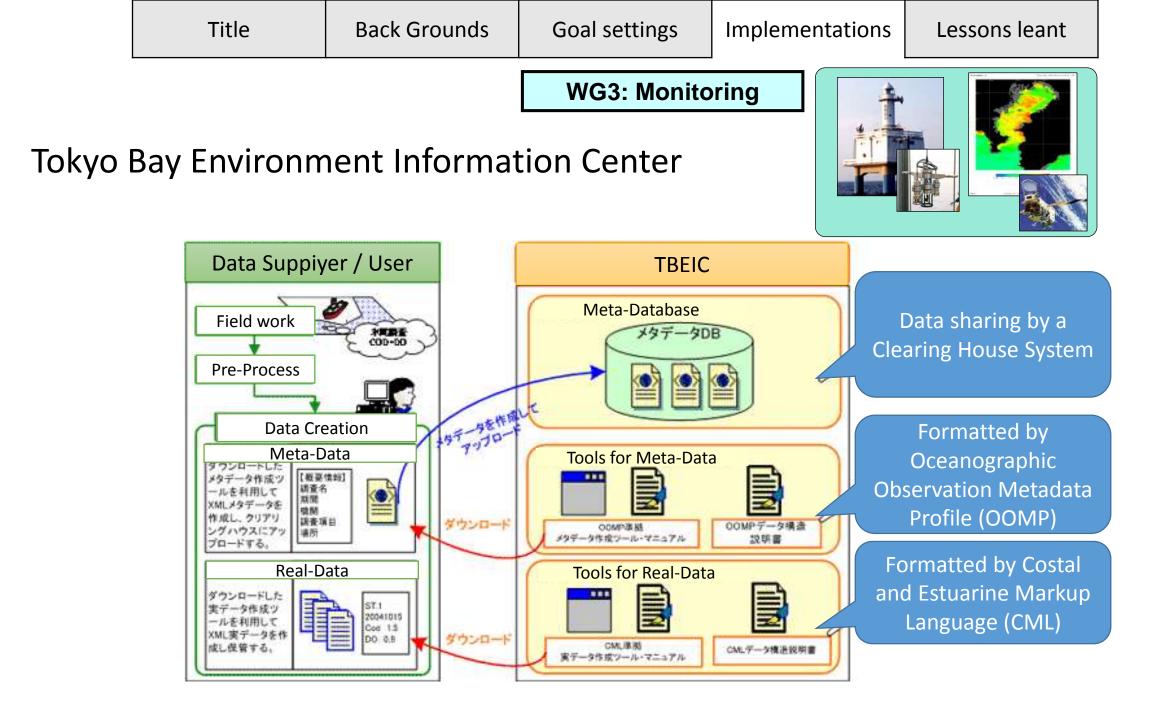
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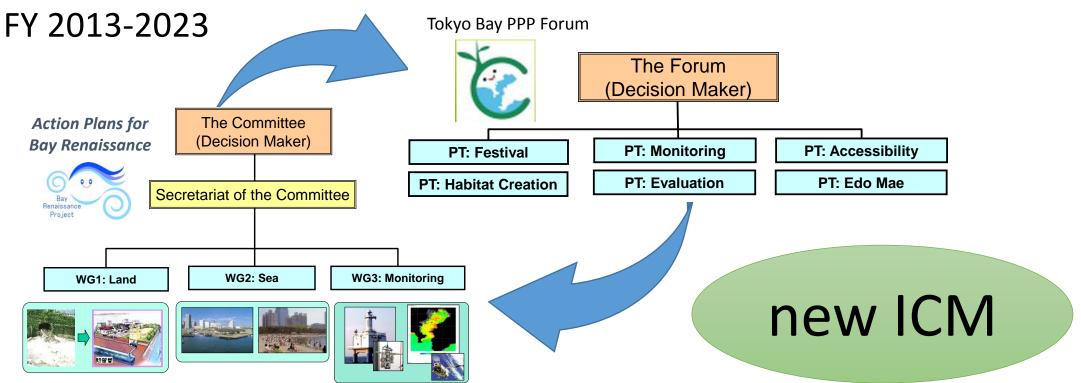
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Second Phase of the Action Plans for Tokyo Bay Renaissance

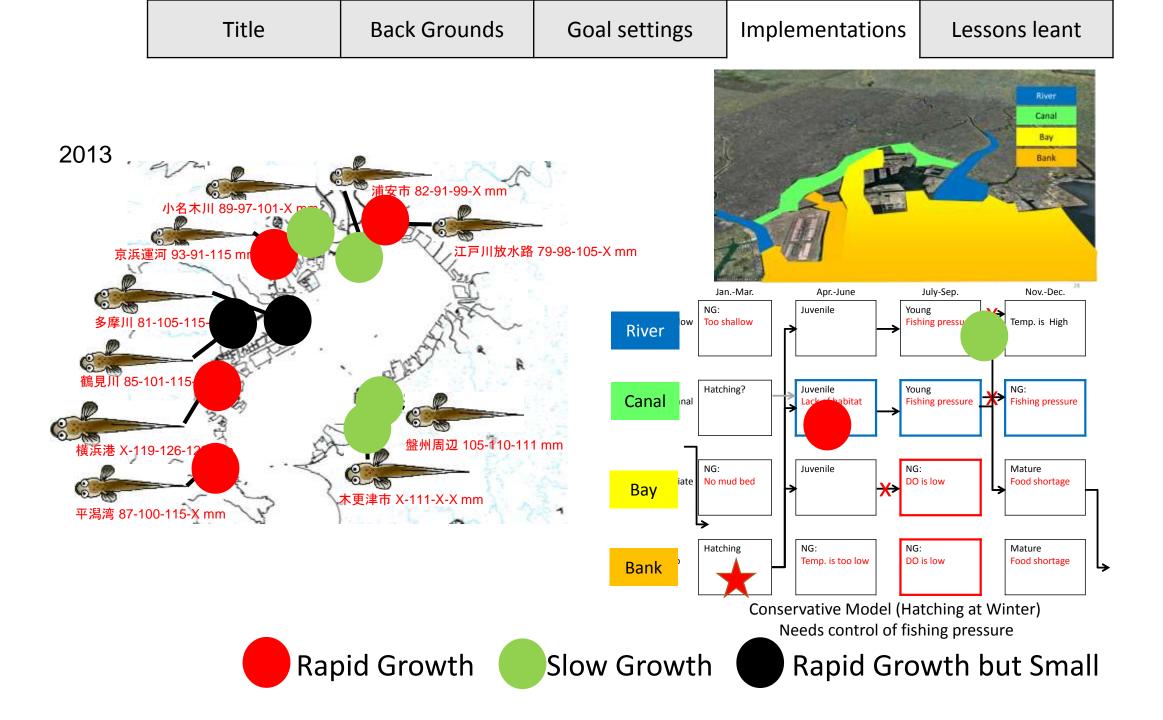


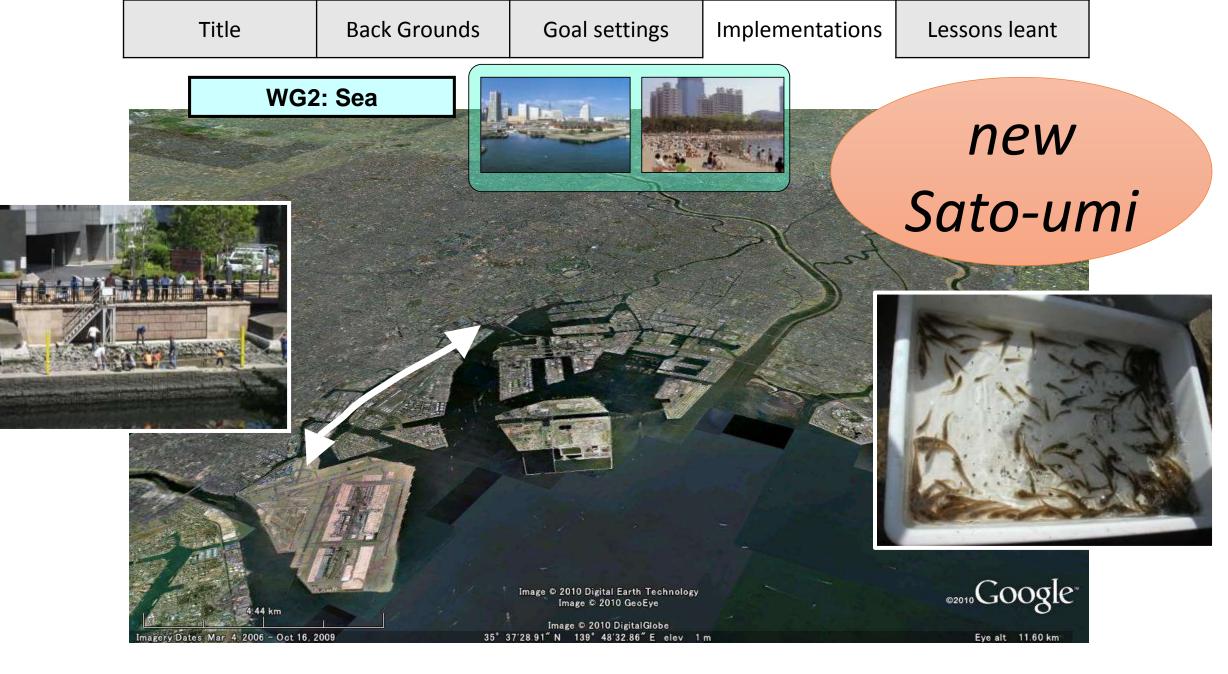
Goal: Restore the beautiful coastal environment for enabling pleasant use and sustaining biodiversity which includes *edo-mae* as a wealth of capital.



Photo by Y. Sawada: Goby fishing boats at Tokyo bay in 1960s







	Title	Back Grounds	Goal settings	Implementations	Lessons leant							
Challenges in Marine Environment Management in Tokyo Bay												
Target La		Needs of ICM tools development under collaboration of scientists, policy maker and public.										
Sato	o-umi	Can MSDI be an ICM tool?										
Methodo	ologies ICM		2) Dynamics	onsidering; e setting and fee s of coastal proo to various stake	cesses							
Tool boxes Moni		Information Management System	<ol> <li>Objects: e</li> <li>Dynamics</li> </ol>	uld represent; e.g. <i>sato-umi,</i> eo : e.g. networkir dication: e.g. go	ng, distribution	26						

TitleBack GroundsGoal settingsImplementationsLessons leant

### Challenges in Marine Environment Management in Tokyo Bay for our future !





# Thank you for your considerations !