



Sango (Coral) Map Project

Result achieved through two-year activities
and future perspectives-

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Today's outline

1. Introduction

-What's the Sango Map Project?-

2. Results

-Who participated this project?-

3. Outputs

-What was this project applied to?-



アカホシカニコ

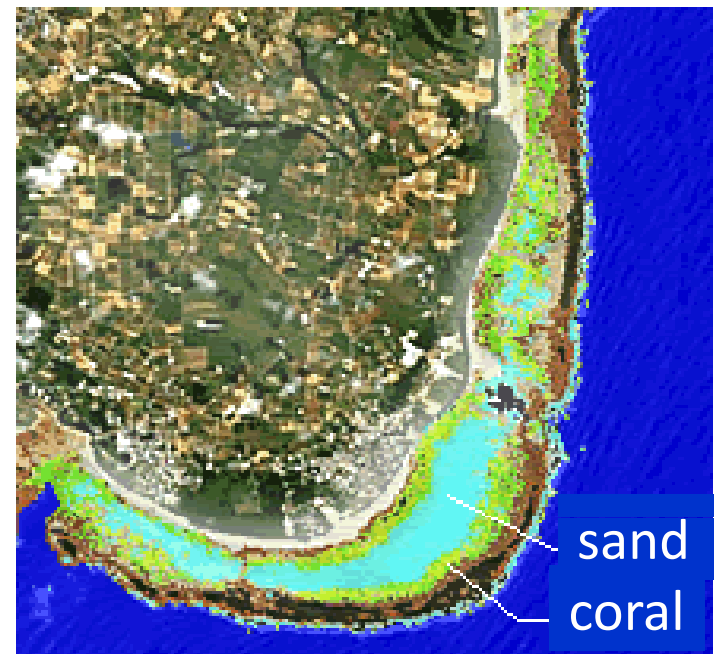


What's the Sango (Coral) Map Project

One of the monitoring program
Anybody can participate.

To gather information on coral occurrence from
various people.

For example,
snorkelers, divers,
Interpreter, researchers
elementary school students,
etc.



Who made coral map?

This project was organized by coral-reef researchers, environmental educators, NPOs and diving services, etc.

It has started through discussion in the International Year of the Reef (IYOR) activities in 2008.



Why should we make the Coral Map?

We only have a old map (in 1990~1992).

Old



After 1992, there was significant decline of Japanese coral reefs due to bleaching and *Acanthaster planci* outbreaks, etc.



オニード

We should understand the current status of coral reefs around Japan.

There are few conservation actions in which everybody can participate.

New



サンゴ礁
調査業務報告書より引用

Introduction

Participants

Just submit occurrence information of corals.
The results are presented on the web using the Google Map API.



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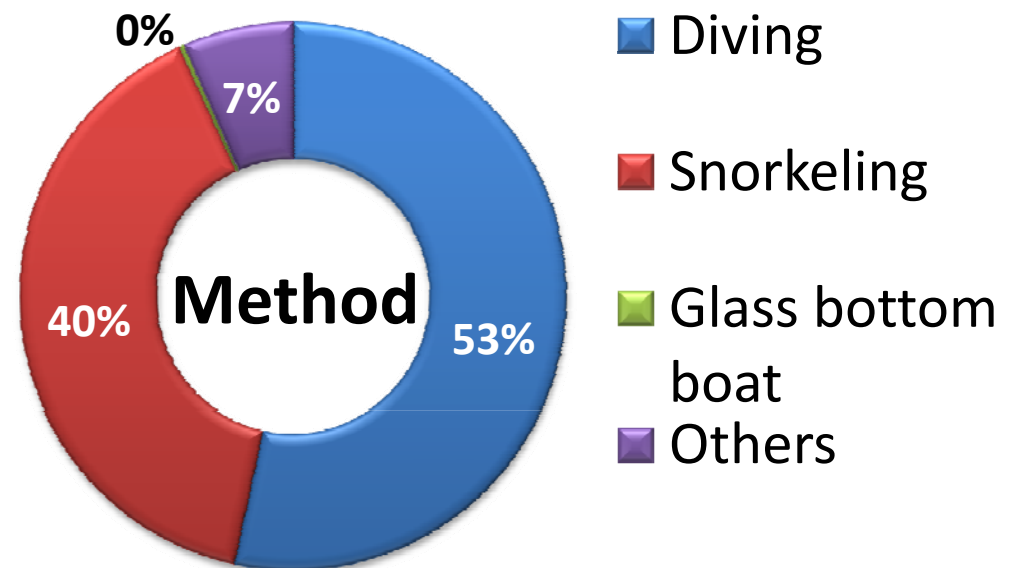
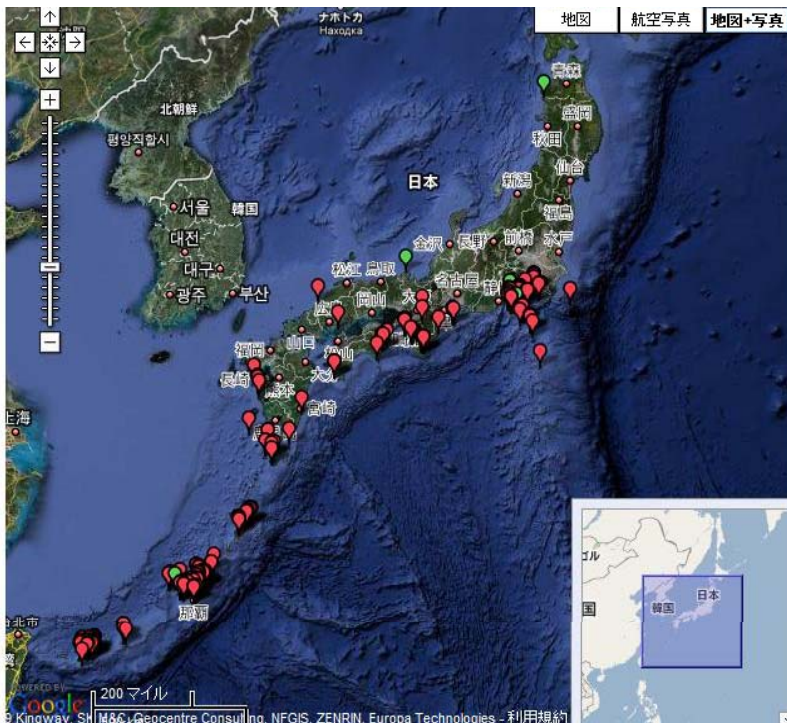
Results

Collected data (1 Jul. 2008 - 26 May 2010)

Data : **367**

Number of persons: **148**

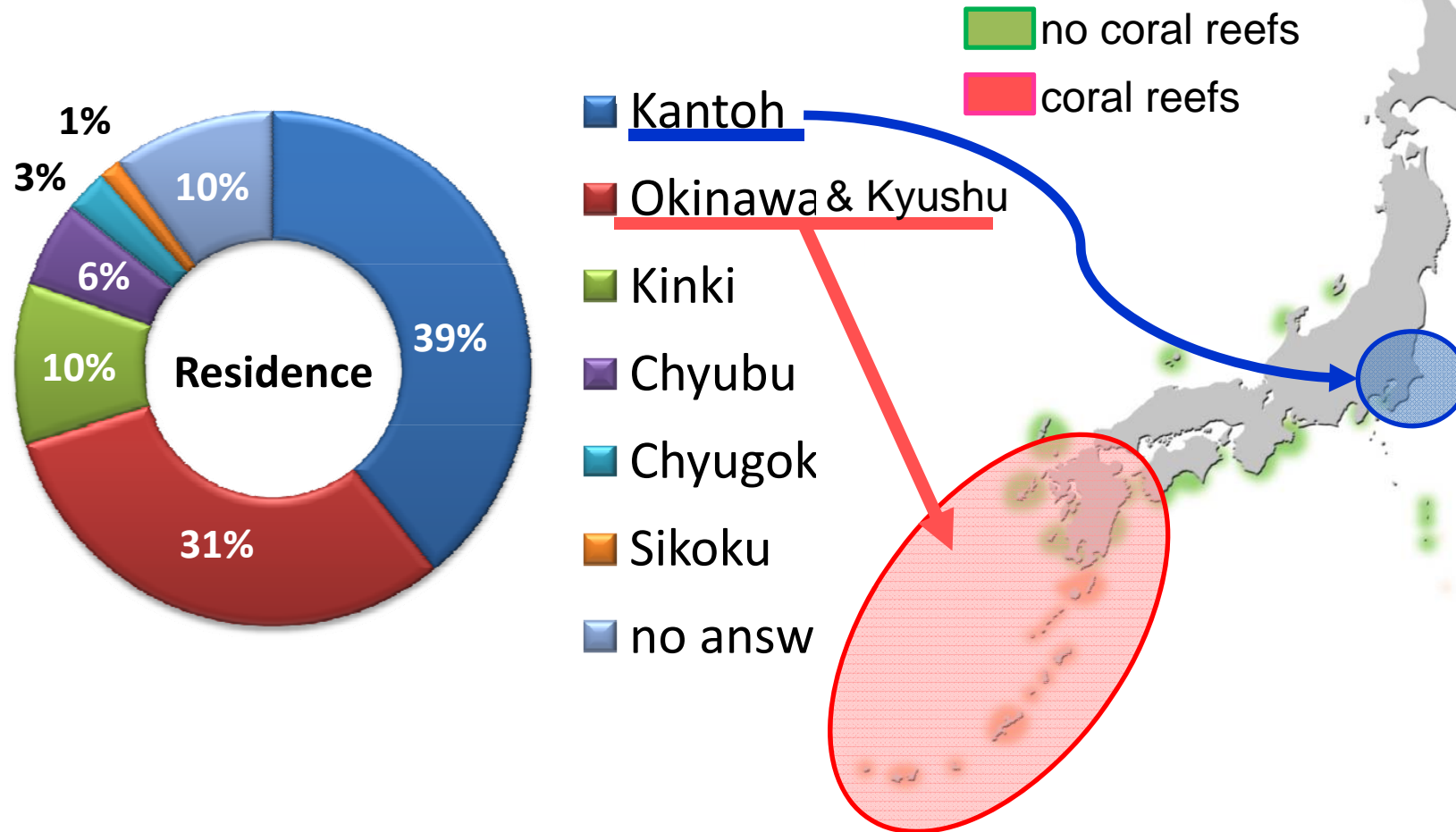
Access number of website : **29000**



Diving is most common 53%

Results

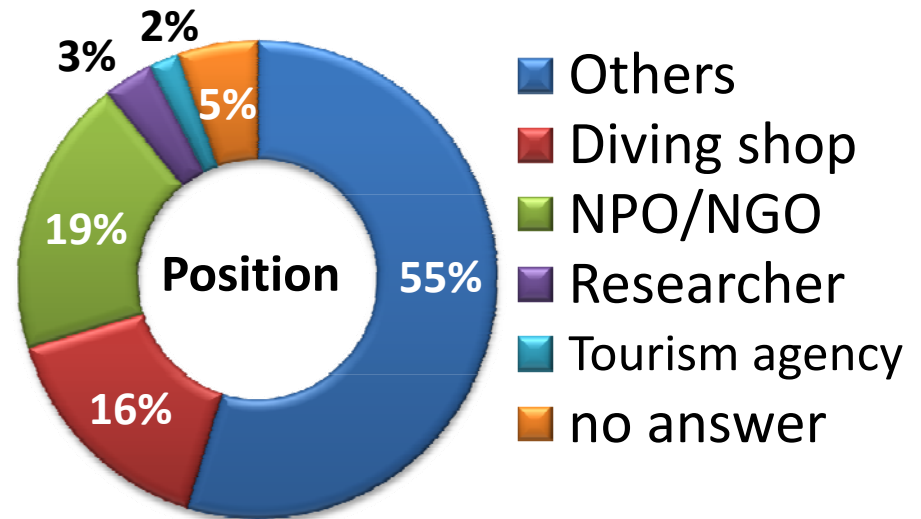
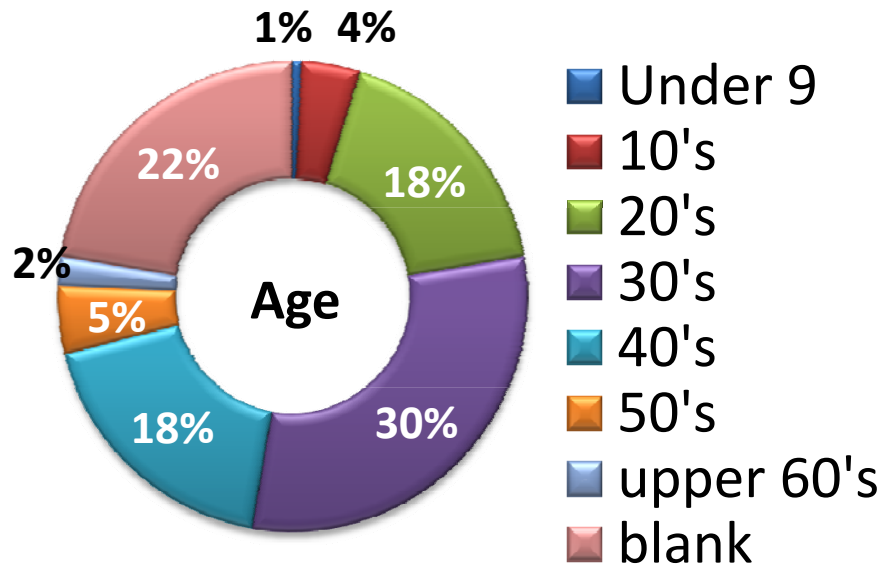
Who participate it? (n=148)



This demonstrated the high level of interest in coral reefs , even there are no coral reefs.

Results

Who participate it? (n=148)



Various people participated in this Sango map project.

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3. Outputs

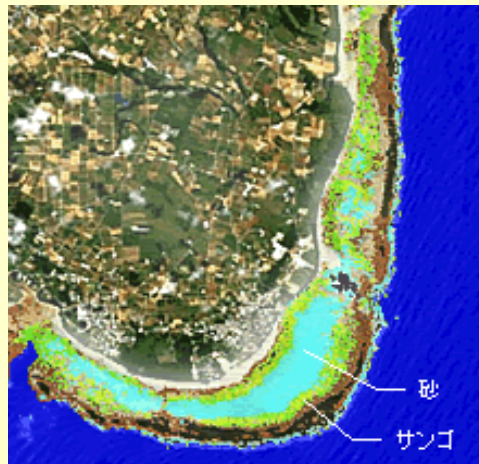
-What was this project applied to?



Outputs

Made the coral distribution map

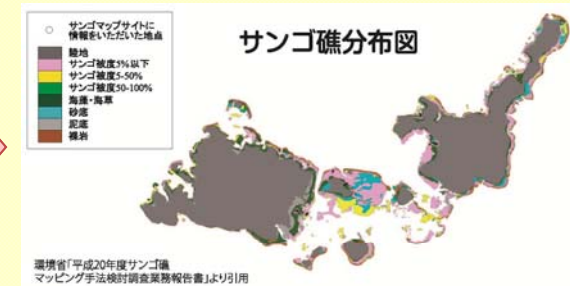
Step1 Remote sensing



Step2 validate map



Step3 Finalizing map!



Ministry of the Environment (2009)

Sango map data have contribute to make the coral distribution maps that made by the Ministry of the Environment, Japan.

Outputs

Collaborate with nature tours



We have collaborated with nature tours and organized workshop to promote Sango Map Project around Japan

Outputs

Collaborate with diving shop & NPO

Diving program

Focus region with NPO



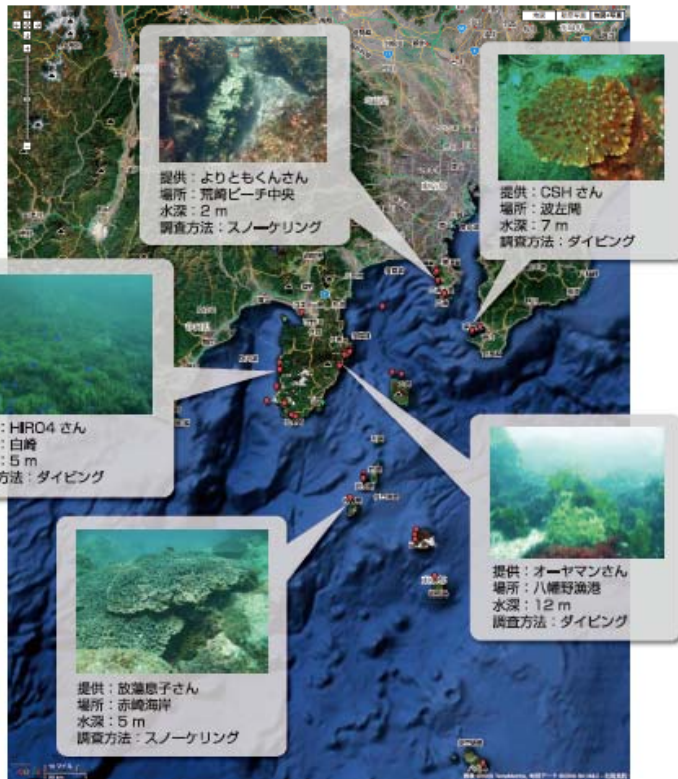
We have developed this project to PADI Specialty and we had focus region with NPO that group organized coral transplant activities for divers and snorkelers.

Outputs

Published academic papers & developed data base

Global warming effect

Northern area (Kanto region)



本州にもサンゴがたくさんいることが改めてわかります。関東周辺は、サンゴの分布北限域にあたります。地球温暖化による水温上昇で、サンゴが増え、分布域が北上する可能性があります。今後の継続的なモニタリングが必要です。

日本サンゴ学会誌 第11巻, 71-72 (2009)

フォトギャラリー

最前線のサンゴ：千葉県館山のエンタクミドリイシ群体の変化

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キーワード: 地球温暖化, エンタクミドリイシ, 千葉



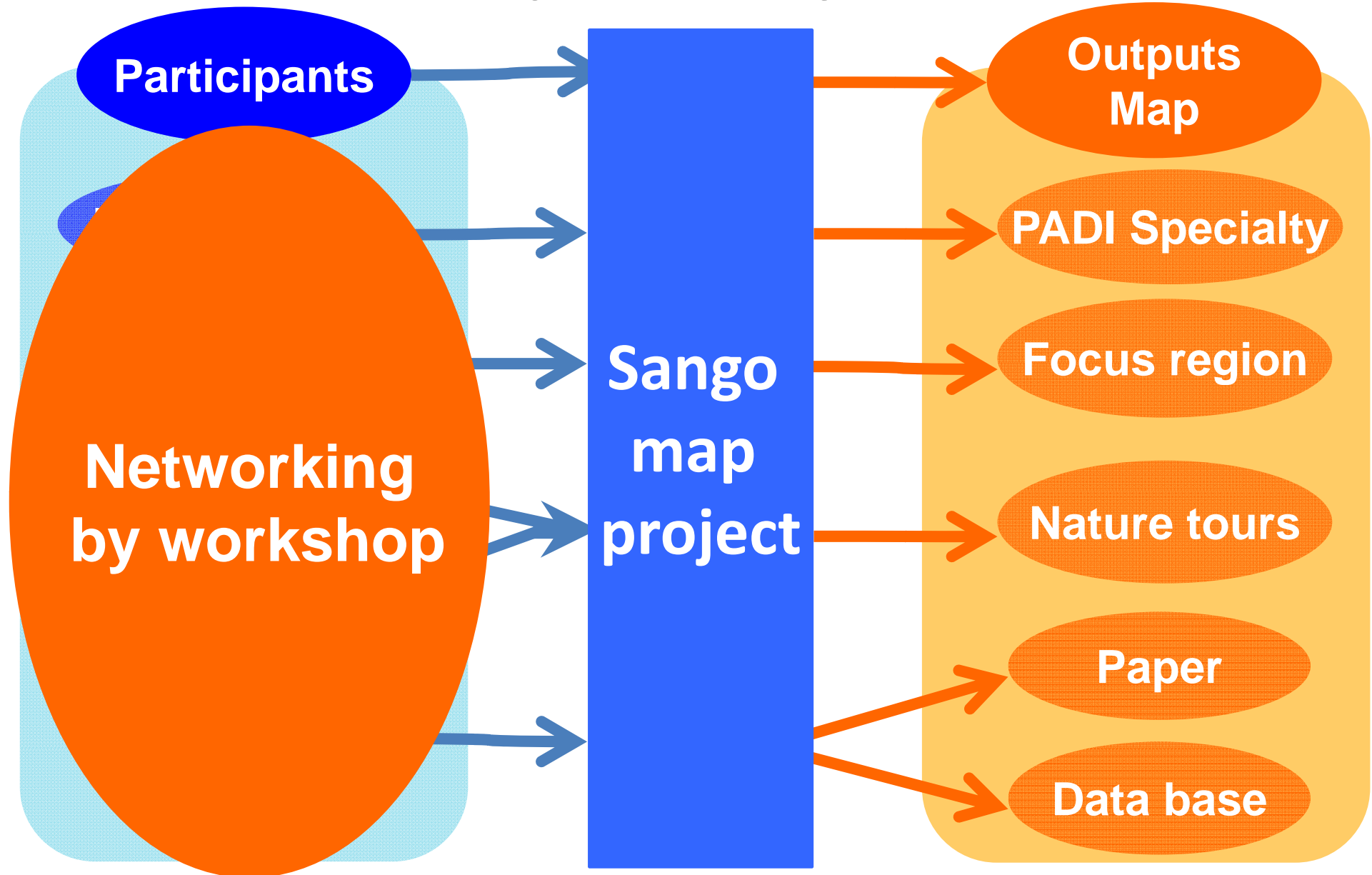
Monitoring Database

Bleaching, spawning,
high latitude occurrence



Summary

Developed at many fields in 2009





Result achieved through two-year activities

This success would be because of wide range of networks with various stakeholders and simplicity of the method .

We built up the flow the easily action which can participate even child to contributable action for politics and academics.

We have developed Sango map project to many field activities.

For example, children's nature tours, diving program and collaborate with the group that held coral transplant activities.



Challenges & Perspectives

1. It is still few data and participant.



To promote this project to be as a first step to encourage people to participate in other monitoring programs such as Reef Check toward further collaboration with various stakeholders in order to conserve coral reefs.

2. Participants couldn't image how their information will help it.



To set up the blog in website to communicate with participants.

To develop this project toward monitoring database that includes spawning and bleaching information, etc.