



Osaki City  
Industry and Economic  
Industrial Policy Section



We Send Our Message to a Broad Range of  
People!

### Kabukuri-numa Fuyumizutambo Project

As of FY 2011

- "Fuyumizutambo Hirometai (Promotion Task Force)"  
(PR Organization)
- Training Programs on Agro-Community Business  
(human resources development)
- Experiment of prevention of salt damage (by the tsunami)  
on the Fuyumizutambo paddies
- Experiment of utilization of the biomass energy produced  
from reeds growing around Kabukuri-numa (renewable  
energy)
- Videos, picture books and websites



# The Outline of Osaki City



Population: approximately 136,000  
 Area: 796.76km<sup>2</sup>  
 rice paddy: 21%  
 forest: 54%  
 Highest temperature: 36°C  
 Lowest temperature: -16°C

3

# Environmentally-Friendly Rice Cropping Projects in Osaki City

Rice Project in Naruko  
 (Naruko Hotspring Area in Onikobe District)



"Sanshimai" rice harvested with consideration for nature conservation



"Fuyumizutambo" Rice (Tajiri District)

燕栗沼  
 ふゆみずたんぼ  
 プロジェクト

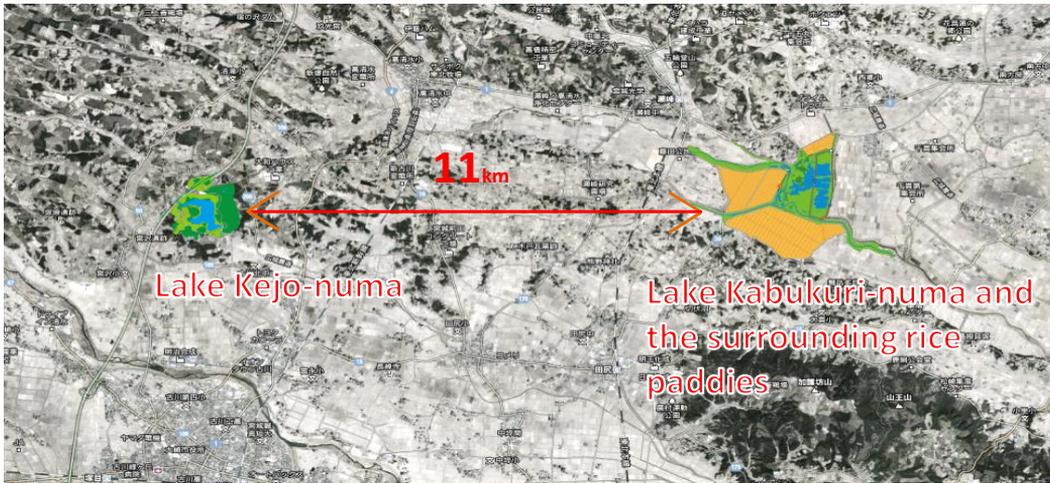
Kakuhari Wetlands "Fuyumizu Tambo" Project



Rice harvested in the habitat of the endemic fish *Pseudorasbora pumila pumila* (Kashimadai District)



## Two Ramsar Sites



Two wetlands of international importance are located in close proximity in Osaki city.

5

## Lake Kabukuri-numa and the Surrounding Rice Paddies



Lakes	Rice Paddies	Total
164ha	259ha	423ha

- The first Ramsar Site that has the word of “rice paddies” in its name, which also covers the broad area of surrounding rice paddies.
- It indicates that the rice paddy was recognized not only as the important place for food production but also for sustaining biodiversity.

## White-Fronted Goose

### Feature:

**Migratory waterfowl which breeds in Russia and winters in Japan.**

**Wingspan: 150cm**

### Behavior:

Feeds on grain of rice and grass in rice paddies in daytime, and roosts in lakes at night.

### Population:

80% of the geese which migrate to Japan winter around Osaki city.  
180,000 individuals fly to this area.



## “Fuyumizutambo” is...

To disperse and expand the roosts of the geese by filling the surrounding rice paddies with water during winter while improving the water quality and secure their wintering sites.

- **Take advantage of geese (waterfowl) for agricultural practice in the surrounding area of Lake Kabukurinuma**
  - Production of value-added rice
  - The rice harvested in the paddy where the geese fly into (the proof of safety)
  - Establishment of a reproducible rice cultivation system while securing the feeding ground for geese.



# From Conflict to Coexistence

Policy to shift from negative factors to positive ones.

- Migratory birds are **nuisance**.  
(because of their feeding damage)
- Maintaining the Fuyumizutambo is **troublesome**

- Broad rice paddies can be a **good feeding and roosting ground**.



NGO

Providing instructions and advice from experts:  
 > importance of Kabukurinuma and its surrounding paddies  
 > Techniques in prevention of feeding damage, based on the accurate knowledge of the behavior of migratory birds, etc.



Osaki city

Ordinance on Indemnity for Feeding Damage (since 1999)  
 If certified as organic farming under any authorities such as JAS, the compensation will be 30,000 yen/farmer in case of damage.

Fuyumizutambo Subsidiary (2004~2009) 8,000 yen/10 a

In 2005, "Kabukuri-numa and the Surrounding Rice Paddies" was designated as Ramsar Site (for the first time with Rice Paddies in its title).

# from Osaki to the World

## Ramsar Site "Kabukuri numa and the Surrounding rice paddies" "Fuyumizutambo"

Continuous efforts by Osaki City focusing on the functions of rice paddy as a wetland

Along with the efforts by Sado City (Japanese crested ibis) and Toyooka City (Oriental stork), this project has come to known nationwide.

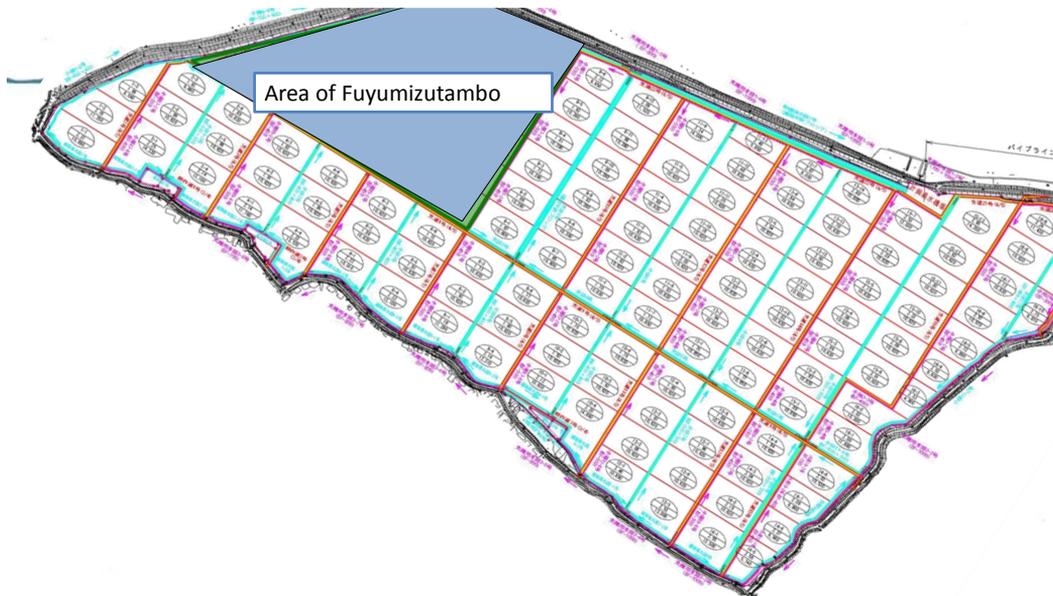
At Ramsar Convention/COP10 (Korea), a resolution: "Enhancement of Biodiversity in Rice Paddies as Wetland" was adopted thanks to the leadership of Japanese and Korean NGO's.

An old idea: Rice Paddies = a Site of Low-Productivity has changed into new agricultural values: = "an Important Site" which sustains diverse lives including human.

Propagating the information about Osaki's biodiversity-oriented activities domestically/internationally in order to add value to its agricultural products.



## Land improvement project considering biodiversity



### Multifunctional Fuyumizutambo and its Evaluation

#### Flood Prevention Effect of Fuyumizutambo

Estimation of the economic value of the flood alleviation/absorption by Fuyumizutambo (Shinpo Fuyumizutambo Cooperative)

➤ based on the cost of hypothetical construction and maintenance of a dam equivalent to the rainwater storage effect of forests

➔ **27,021,075 yen/year**

#### Adoption to National Policy

The government recognized the contribution of Fuyumizutambo to its conservation and improvement of biodiversity.

The Ministry of Agriculture, Forestry and Fisheries has adopted **direct financial supports** to the farmers who conduct environmentally-friendly agricultural practice:

**Reduction of chemical fertilizer and pesticides by 50%**

+

**Winter-flooded rice paddy (e.g. Fuyumizutambo)**

#### 環境保全型農業直接支援対策の概要



農業分野においても地球温暖化防止や生物多様性保全に積極的に貢献していくことが重要となっています。農林水産省は、平成23年度から、環境保全効果の高い営農活動に取り組む農業者に対して直接支援を開始します。

農林水産省