



**October 14, 2014**

**Living In Harmony With Nature**  
**~ The Challenge For Toyooka City ~**

Deputy mayor of Toyooka City, Japan  
**T suyoshi MANO**





豊岡市

# October 14, 2014



Mayor of Toyooka City, Japan  
Muneharu NAKAGAI



Pyeongchang



Toyooka



Kyoto



Kobe



Osaka







Photo : Fuji Kougeisha





Photo : Okano NII





The Maruyama River



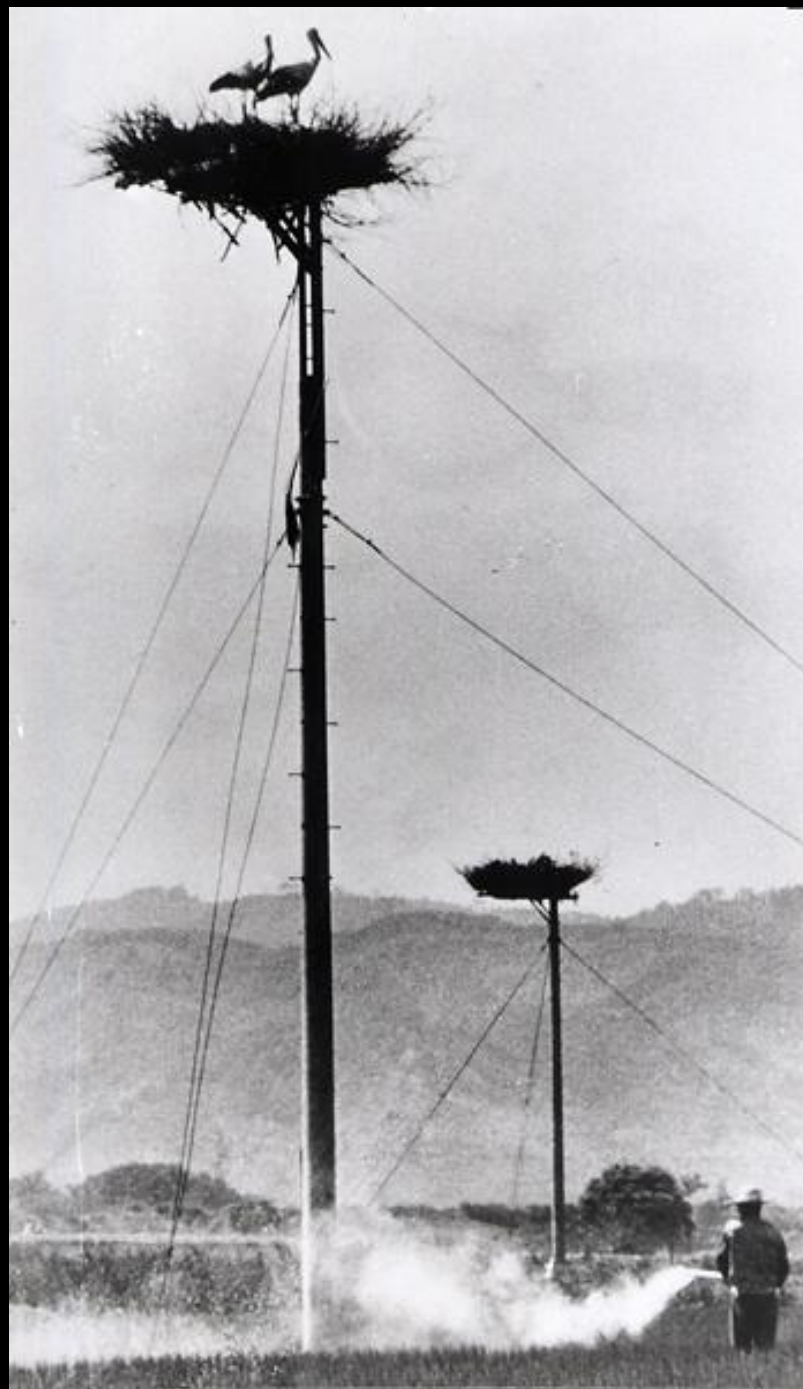


**October 20, 2004, Typhoon No.23**













**Captive 9 5**

**Wild 8 3**

**The first chick was hatched in 1989**

# **Aims of returning storks into the wild**

**1 ) Keeping promise to storks**

**2 ) Contribution to the  
preservation of wildlife**

**3 ) Creation of a rich  
environment in which  
even storks can live**





**Hyogo Prefectural Homeland for the Oriental White Stork**





**Toyooka Municipal Ecomuseum Center for the Oriental White**





**Toyooka Municipal Ecomuseum Center for the Oriental White**





**Paddy field biotope** **12ha**





**Maintaining water during the winter  
season**

**189.3ha**





**Fish ladder to paddy fields**

**110 sites**





**Stork-Friendly Farming**

**292.7ha**

# Wetland restoration around rivers by the Ministry of Public works

57ha





September 24, 2005







September 24, 2005





**2007**



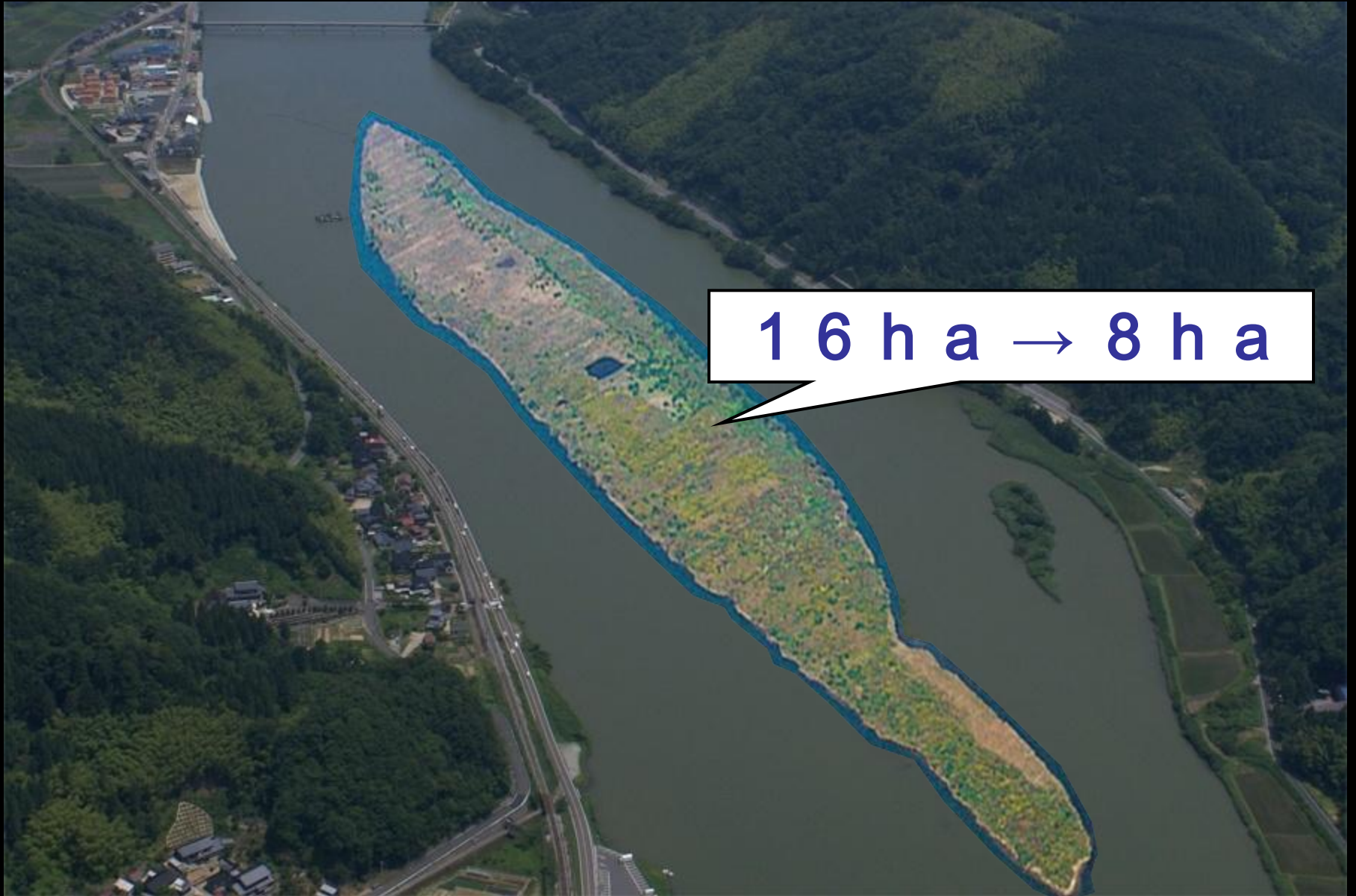
# The Maruyama River



Hinoso island in 2002 ( Wetland restoration around rivers )



# The Maruyama River



16 ha → 8 ha

Hinosa island in 2007 ( Wetland restoration around rivers )













Photo : Yuichi yuri





Photo : Hideo Arakawa





Wetland park

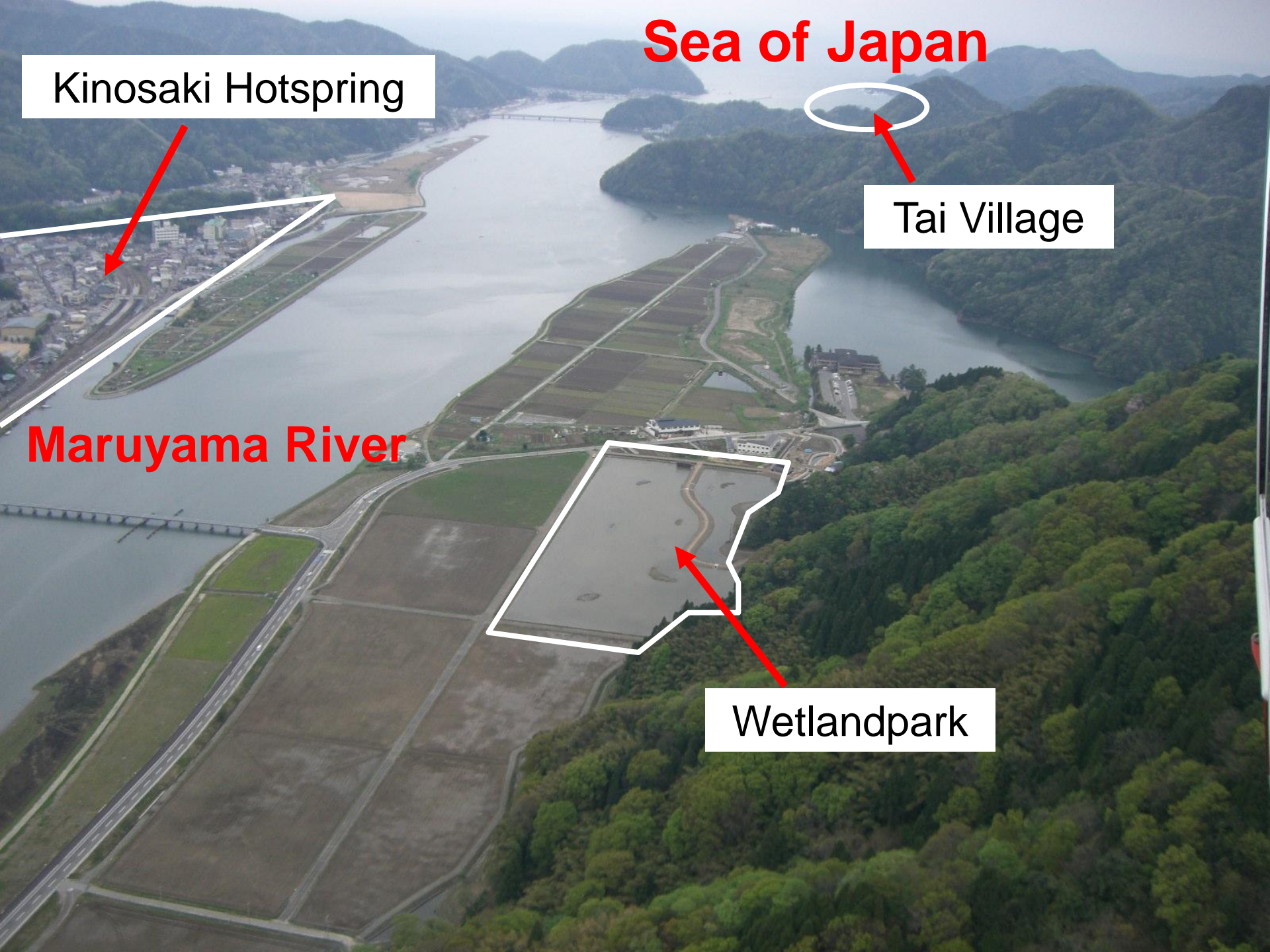












Kinosaki Hotspring

Sea of Japan

Tai Village

Maruyama River

Wetlandpark





Photo: Osamu Oka















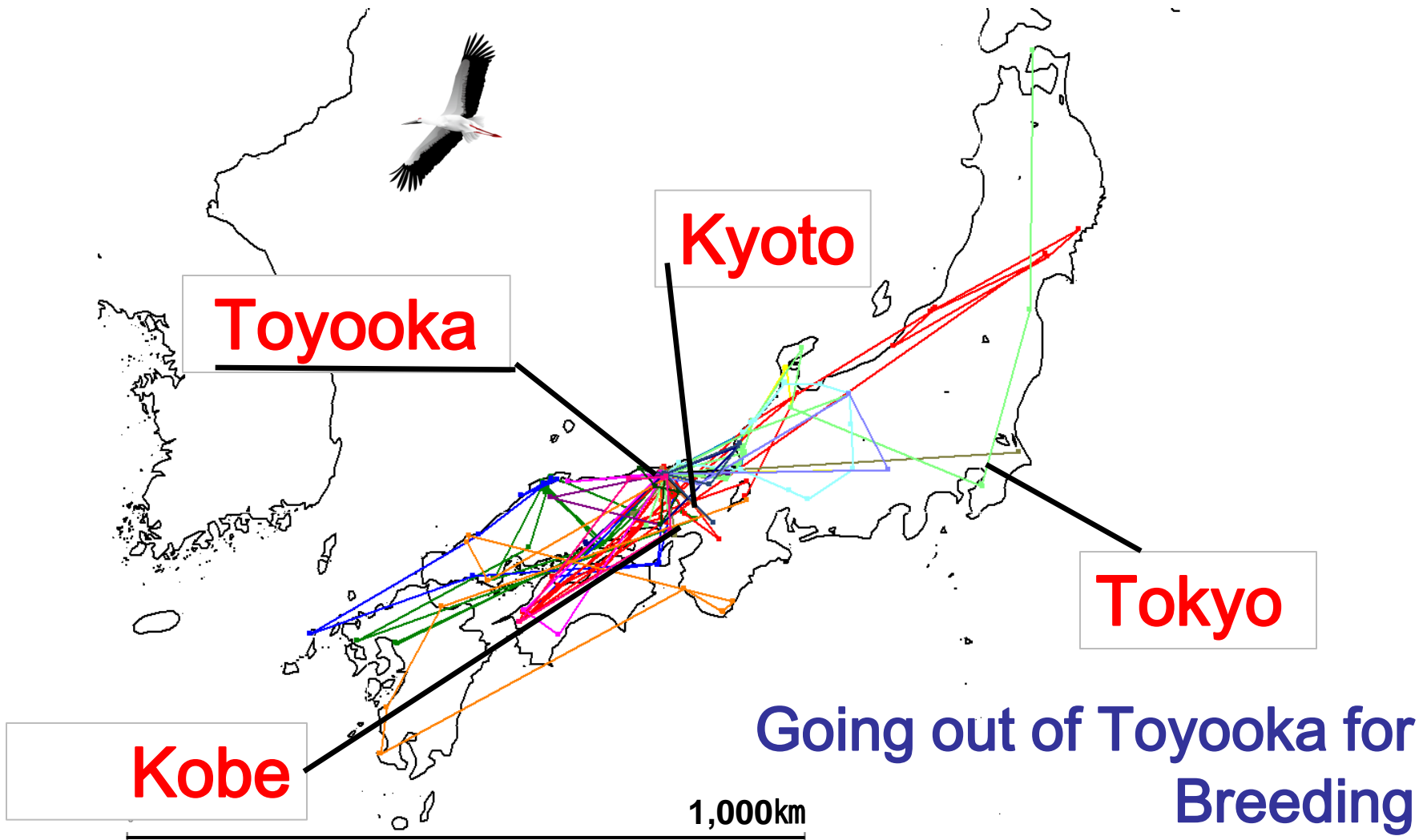








# Moving range for Storks

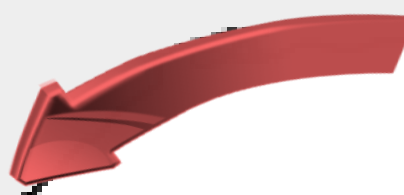




**South Korea**

**Toyooka**

**Nagato**





We are now  
moving on  
to the next step · · ·

# Creating Toyooka Eco-Valley

**Sustainable cooperation  
between environment  
and economy.**



# Eco-friendly company



A company producing solar cells







Nestling pole for Oriental White Storks



Stork-Friendly Farming



Stork-Friendly Rice



# Stork-Friendly Rice

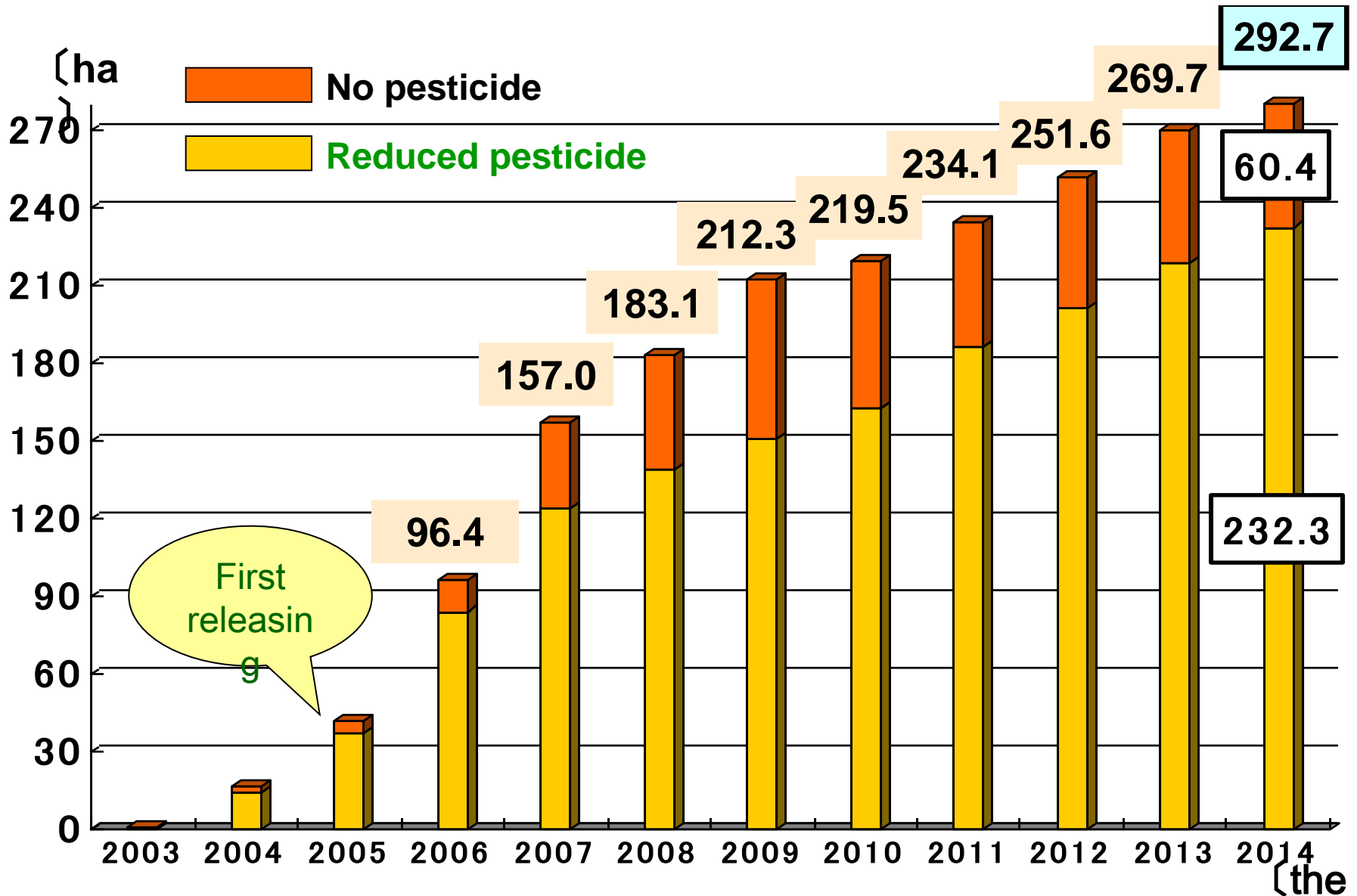


From 60% to 100% more expensive



# Stork-Friendly Farming

## Change of the planted area ( Rice )

























# What's reintroduction of storks in Toyooka?

Activity Expansion

Environment – Economy Development

Human Resource Development

Wetland Restoration

Environment Friendly Farming

Storks

1965

1989

1997

H10  
1998

H11  
1999

H12  
2000

2001

H14  
2002

H15  
2003

H16  
2004

2005

2006

H19  
2007

H20  
2008

H21  
2009

2010

2013

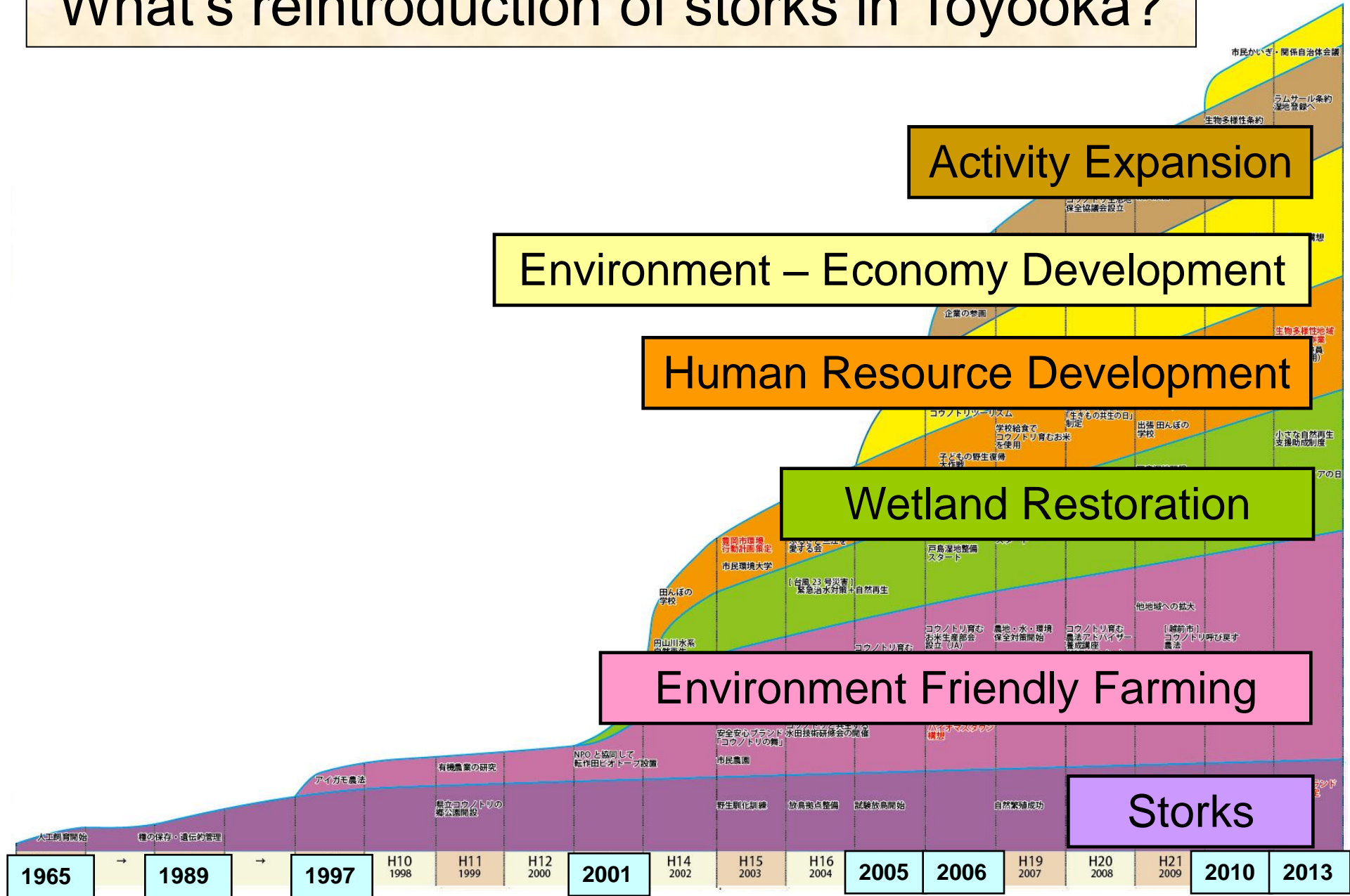






Photo: Fuji Kougeisha

The Izushi River, 1960





Photo : Kobe Newspapers

**The Izushi River, October, 2007**





**The Maruyama River, October, 2008**





Photo: Eiichi Hanaya

**The Maruyama River, October, 2009**



# Living in harmony with **Stork** and Nature

TOOOOKA  
RAMSAR 2012



**Lower Maruyama River and the surrounding rice paddies**