



Urbanization, Biodiversity and Ecosystem Services : Challenges and Opportunities

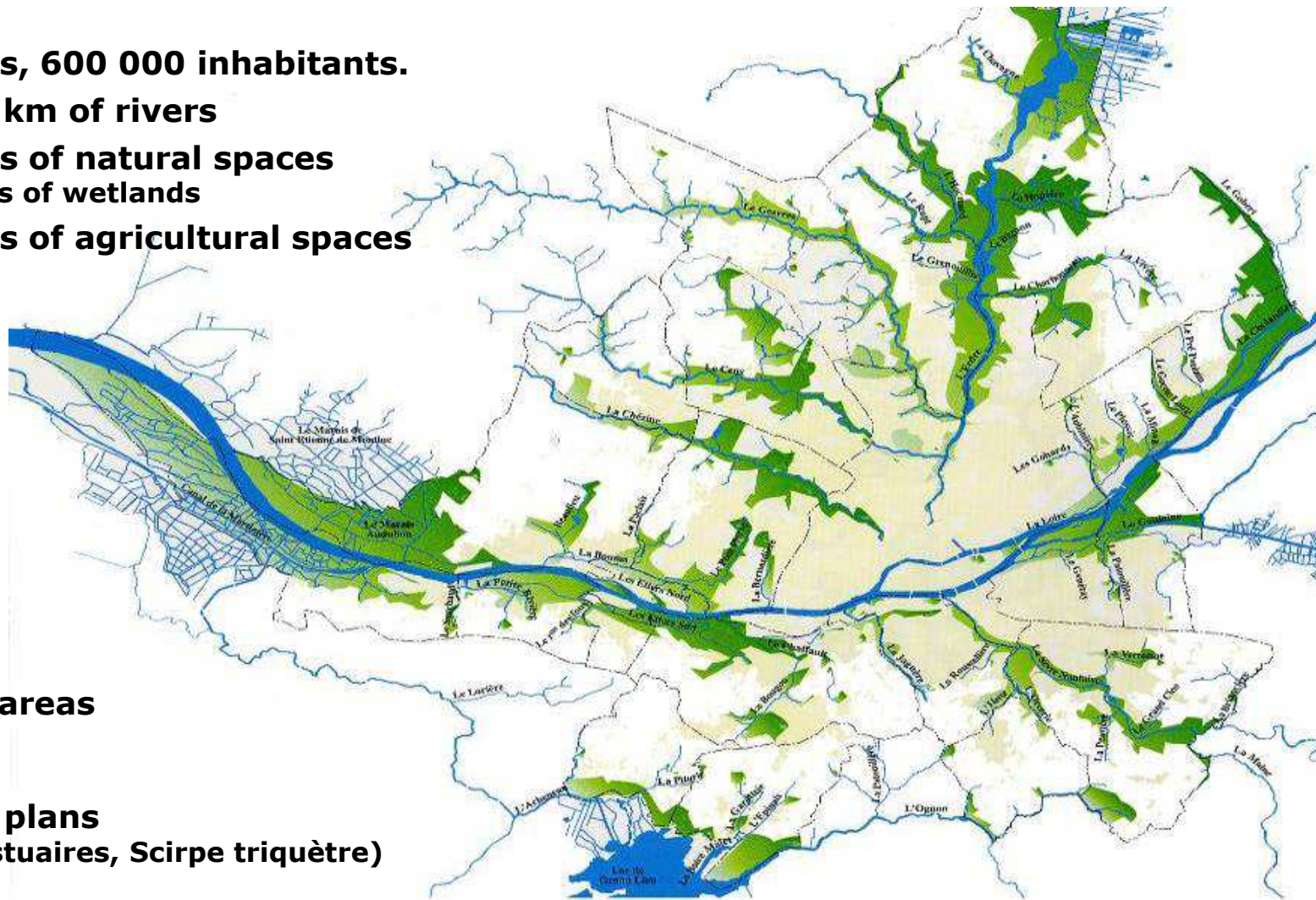
Royal Belgian Institute of Natural Sciences - Brussels
10 October 2013

Ronan DANTEC – Nantes Métropole

Nantes Métropole « green and blue » »

A natural configuration in favor of biodiversity

52 000 hectares, 600 000 inhabitants.
more than 250 km of rivers
15 500 hectares of natural spaces
=> 9 500 hectares of wetlands
15 000 hectares of agricultural spaces

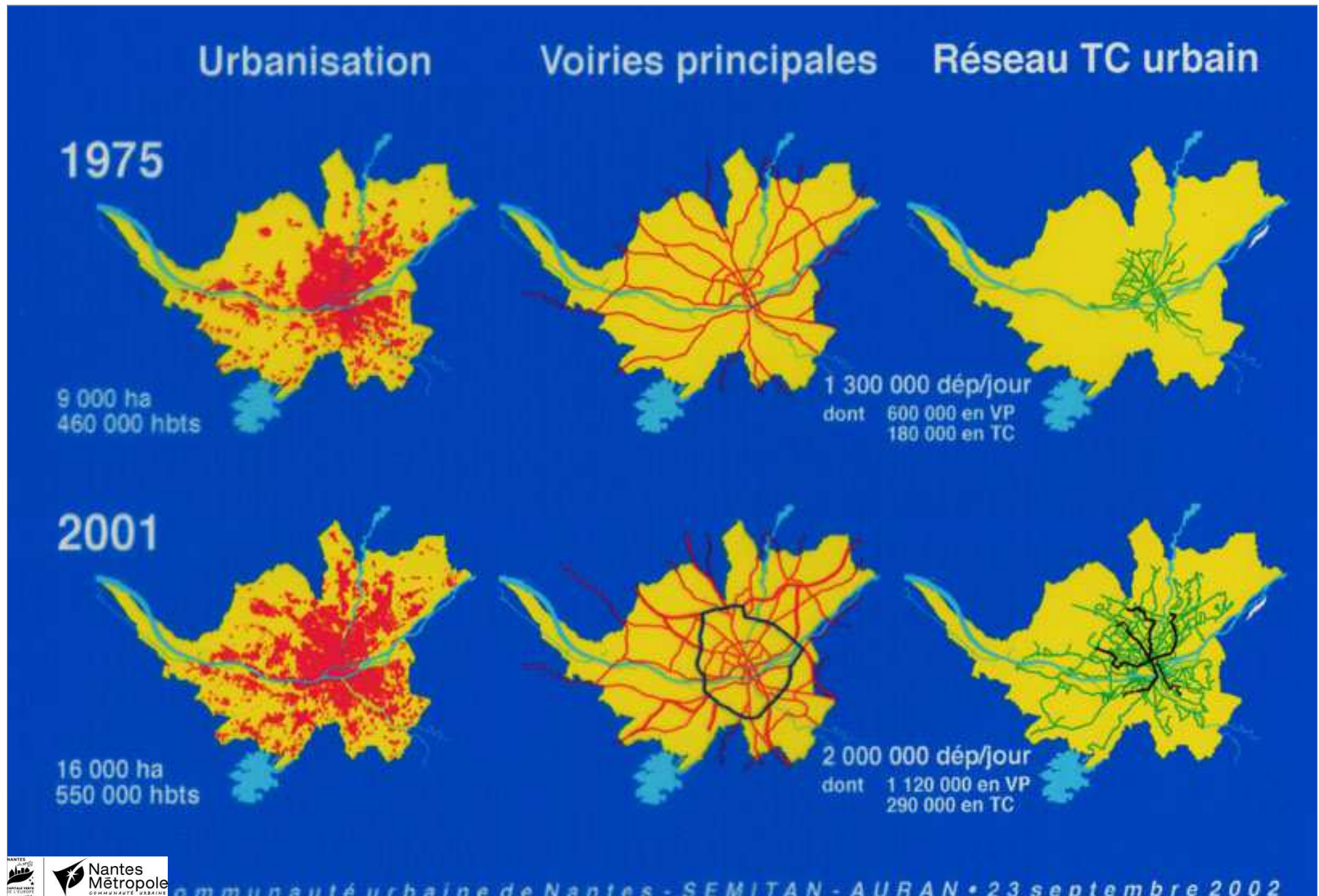


4 Natura 2000 areas
4 ZICO
33 ZNIEFF
2 conservation plans
(Angélique des Estuaires, Scirpe triquètre)

■ Espaces urbanisés
■ Espaces naturels protégés liés aux cours d'eau

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Land fragmentation

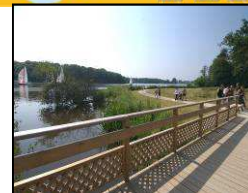


Biodiversity in Nantes Métropole public policies

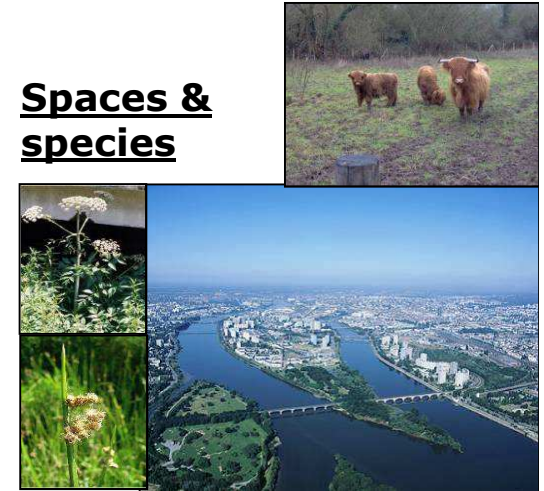
Aquatic ecosystems



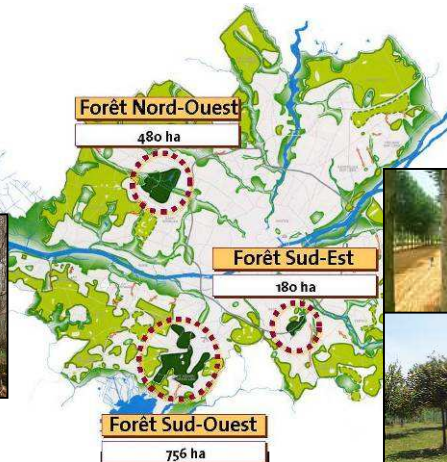
Pedestrian pathways



Spaces & species



Urban forests



Periurban agriculture

Découvrez les produits du terroir nantais



Spaces and species preservation

Collect and complete the naturalist knowledge



Partnership with scientists



Inventories (wetlands ...)



Assessment of natural spaces



Naturalist inventories



Diagnosis biodiversity / agriculture



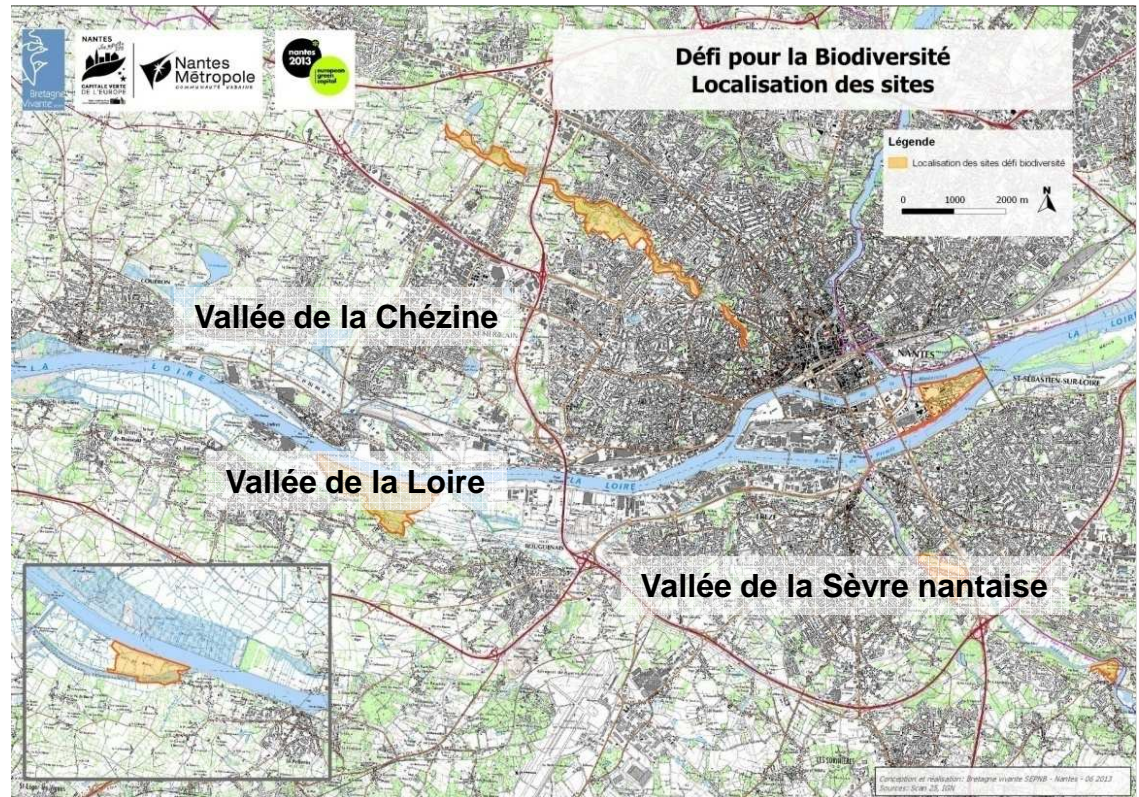
The 24 hours of biodiversity

The project

- naturalists teams distributed in 10 different sites
- a base camp (Jardin des Plantes of Nantes) for the identification of species and the database
- discovery trips and workshops open to public

A successful day

- 70 naturalists
- many participants
- Diverse and complementary partners (City of Nantes and other cities belonging to Nantes Métropole, CBNB, Ecopole, naturalist associations...)



- 836 recensé species (328 fauna and 508 flora)
- 8 more indigenous vegetable species found in Nantes Métropole
- indicators on ecosystems
- assessment on differences between urban and rural

Spaces and species management

Implementation of an adapted management

Management guide for each type of spaces



Conservation plans for protected species



Management plans for remarkable areas



Actions of wetlands preservation



Green and Blue Belts (Trames Vertes et Bleues)

Reinforce the ecological continuities

Assess and protect the ecological corridors

Strengthen the pedestrian continuity in natural spaces

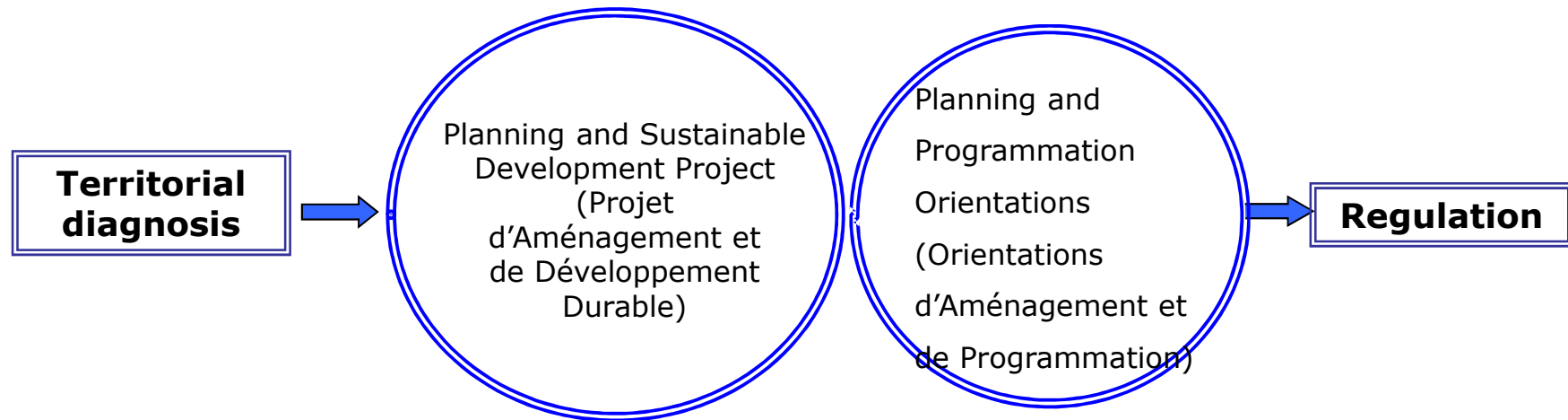


Green and Blue Belts integrated in urban planning documents

PLU

=

**Local Urban Development Plan,
coordination of several public policies**



● **Ecosystems assessment**

● **Reference framework for urban planning policies**

● **- On specific aspects**
● **- On strategic sectors**

➤ **ENVIRONMENTAL PERFORMANCE OBJECTIVES**

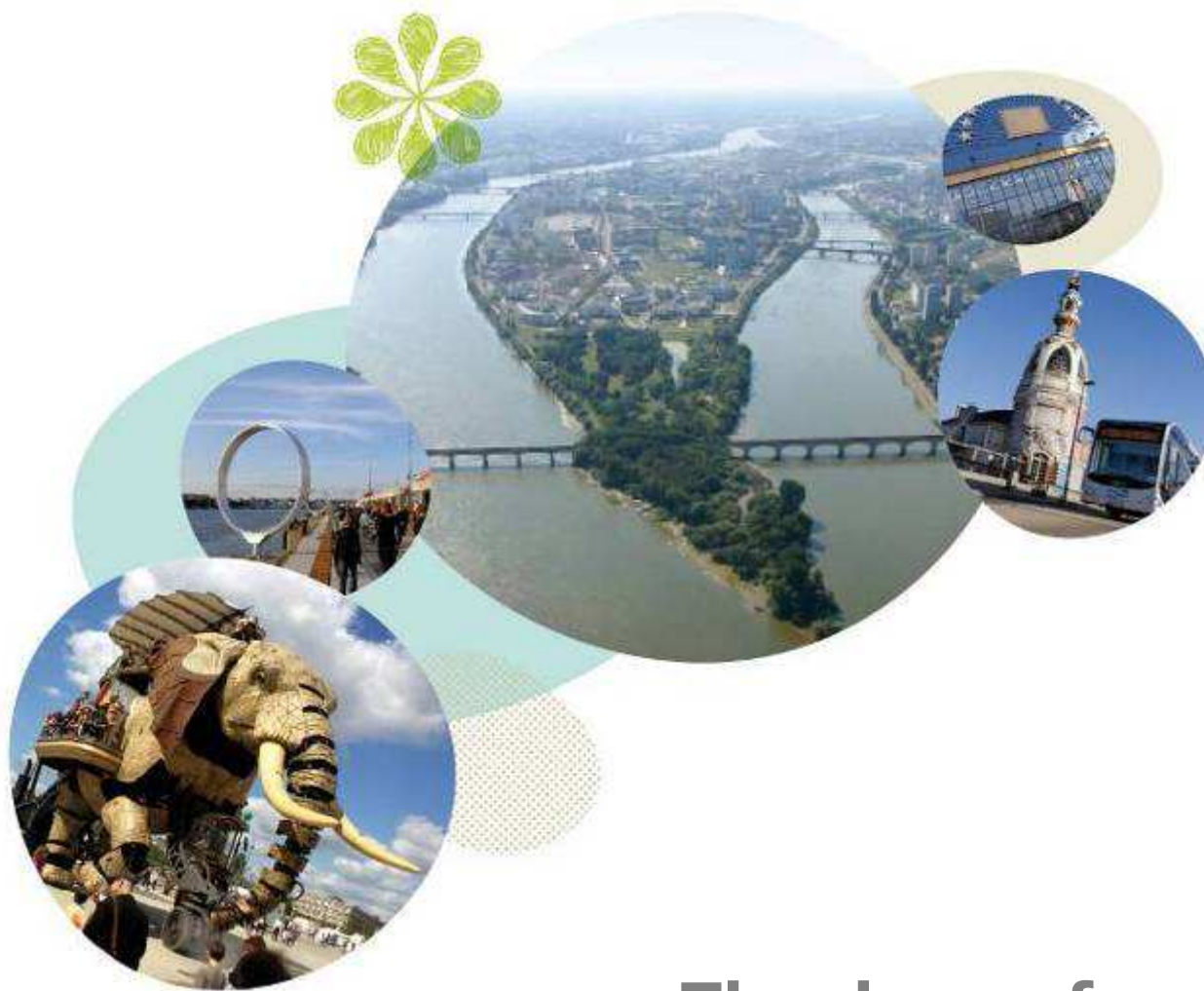
Local actors' awareness about biodiversity

Define a communication plan to raise public awareness about biodiversity

Encourage companies to commit to biodiversity conservation

Inform and educate cities and Nantes Métropole employees on biodiversity





Thank you for your
attention