### **LE:NOTRE Institute**

#### Virtual Roundtable: LANDSCAPE, GREEN INFRASTRUCTURE AND THE EUROPEAN UNION

online seminar 'Green Infrastructure – Exploring the Scope of an Integrative Concept' organized by Nürtingen-Geislingen University (DE) in cooperation with the LE:NOTRE Institute

Introductory presentation **PROGRESSING GREEN INFRASTRUCTURE Tradition and Innovation for Sustainable Europe** 

MARIA-BEATRICE ANDREUCCI\_ AIAPP\_member of IFLA EU

Facoltà di Architettura



SAPIENZA UNIVERSITÀ DI ROMA

# Background

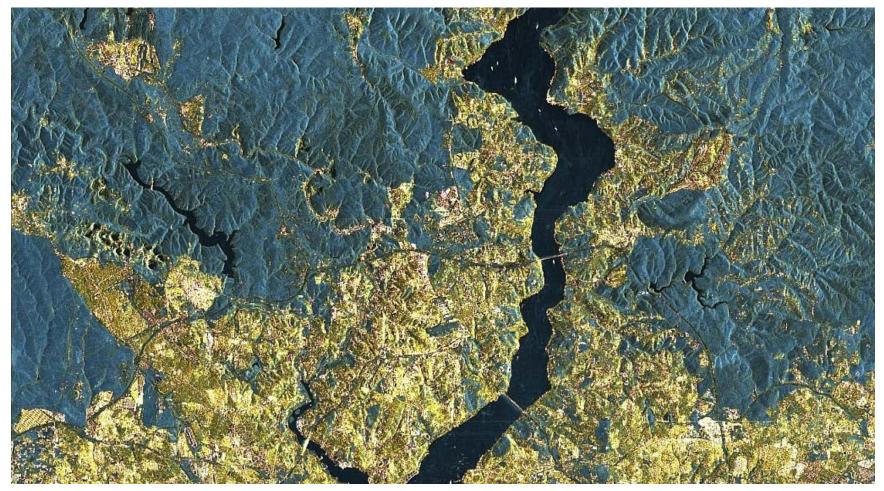
- Human society depends on the benefits provided by nature such as food, materials, clean water, clean air, climate regulation, flood prevention, pollination and recreation
- However, many of these benefits, frequently referred to as ecosystem services, are used as if their supply is almost unlimited and treated as free commodities
- true value is not fully appreciated

# Threats

- Major threats to biodiversity in the EU are climate change, land fragmentation, land use changes, overexploitation of natural resources, the spread of invasive alien species, and pollution
- Despite action taken to combat biodiversity loss and ecosystem degradation, these continue pose serious challenges for the EU

# Living in an urban world

http://cdn.theatlantic.com/static/mt/assets/science/Istanbul.jpg



## Living in an urban world

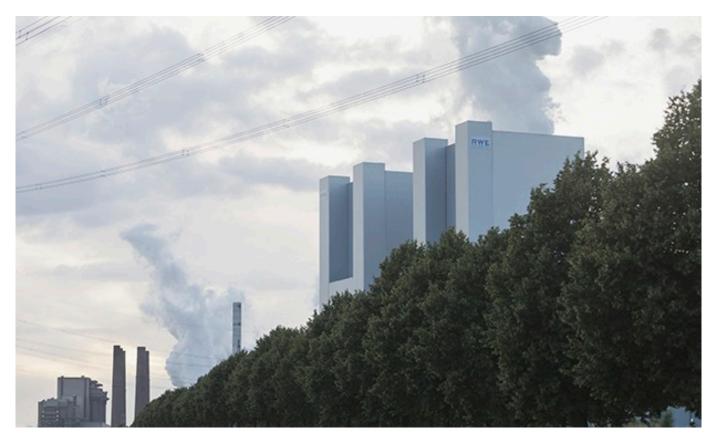


http://www.lafarge.com/sites/mediacenter/files/urban-sprawl-primarily-a-cultural-phenomenon.jpg

# Increasing environmental pollution load

Photo credits: Juergen Schwarz/Getty Images

## Gravenbroich (D)



# Increasing environmental pollution load



#### algae bloom in the Baltic Sea

Source: http://news.nationalgeographic.com/news/2010/02/100305-baltic-sea-algae-dead-zones-water

# Increasingly severe consequences of climate change

Copenhagen flooding, 2011



http://assets.inhabitat.com/wpcontent/blogs.dir/1/files/2013/08/Copen hagen-Climate-Adaptation-Plan-1.jpg

# Decreasing stocks of natural resources

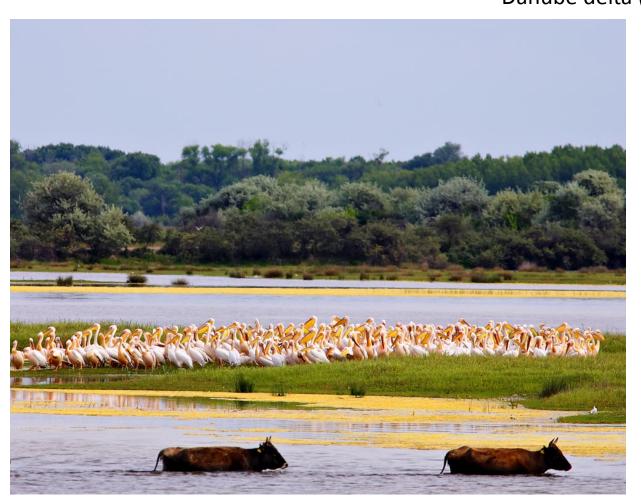


Photo credits: Daniel Petrescu

## WHERE DOES EUROPE COME FROM?

## Tradition\_water management



Cornelis van Eesteren, Amsterdam General Expansion Plan: Watergraafsmeer constituent

# Tradition\_skilled agriculture

Source: https://arrangementsabroad.files.wordpress.com/2013/05/douro-valley.jpg

Douro valley (P)



# Tradition\_Climate management



Photo credits: Shutterstock.com

## GREEN INFRASTRUCTURE TRADITION AND INNOVATION FOR SUSTAINABLE EUROPE

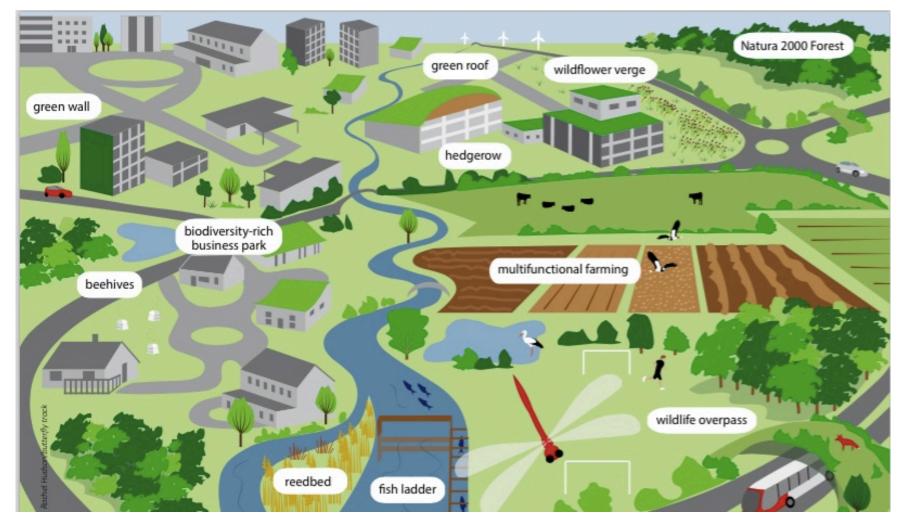
# Innovation

http://www.greenroofdesign.co.uk/media/GreenRoofDesign\_003\_m.jpg

### 8,000 m<sup>2</sup> Basel Main Exhibition Hall Green Roof



# Multifunctionality



Source:http://europa.eu

# **Triple Bottom Line Approach**

Source: http://europa.eu



# GI Landscape Architecture and the European Uninion