

FIG Working Week 2012
Rome, Italy, 6-10 May 2012

The Green and Blue Infrastructure, a new way of thinking about space ?

Xavier Prigent – France



The Green and Blue infrastructure

1st PART

Foundation of the concept in political speech

2nd PART

Concept and scientific notions behind the thinking

3rd PART

Evolution of the concept towards regional planning and the integration of green and blue network in planning to think about space differently

4th PART

Role of surveyor in regional planning concept

1st PART

FOUNDATION OF THE CONCEPT IN POLITICAL SPEECH



INTERNATIONAL SCALE

- Earth Summit, Rio – 1992
- Convention on Biological Diversity – 1993
- Earth Summit, Johannesburg – 2002
- The World convention on Biological Diversity, Kuala Lumpur – 2004



EUROPEAN SCALE

- Bennett Report - 1993
« The Pan-European Ecological Network »
- Ministerial Conference, Sofia – 1995
- Kiev Declaration– 2003
- Natura 2000



NATIONAL SCALE

- The Law for Regional Planning and Sustainable Development of territories (Voynet-Act, 1999)
- National Biodiversity Strategy - 2004
- Grenelle Environment Forum - 2007



2nd PART

CONCEPT AND SCIENTIFIC NOTIONS BEHIND THE THINKING



SCIENTIFIC CONCEPTS

Two scientific concepts shape this way of thinking in terms of network

- Landscape ecology
- Conservation of biology



Definition : An ecological network can be defined as a natural infrastructure that connects specific natural sites to allow exchange between flora and fauna.

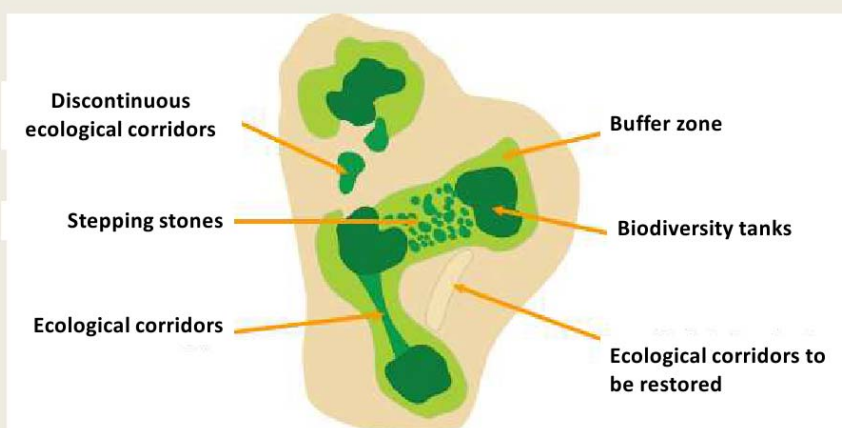
The concept of « green and blue infrastructure » refers to land ecosystems (green network) and water ecosystems (blue network).

TWO MAJOR FEATURES

- Ecological functionality : preservation of species, reproduction, genetic exchanges...
- Spatial and landscape functionality : organization and functioning of natural and human habitats.



STRUCTURING ELEMENTS



3rd PART

EVOLUTION OF THE CONCEPT TOWARDS TO THINK ABOUT SPACE DIFFERENTLY



EVOLUTION OF THE CONCEPT

- The original idea appeared in the XIXth Century.
- Architects, geographers, agronomists, planners...
- Urban sprawl, transportation infrastructure... : factors in the fragmentation of natural habitats
- A desire to urbanize differently : a balance between the various structural elements which mold the landscape



GREEN AND BLUE NETWORK

To preserve and restore
the ecological continuity



The need to ensure
the compatibility of
planning documents

- The green and blue network becomes a tool for planning and for local involvement
- A new way of thinking about city and space.



4th PART

ROLE OF SURVEYOR IN REGIONAL PLANNING CONCEPT



AN ENGAGEMENT FOR SUSTAINABLE DEVELOPMENT

- 2008 : The French Surveyors Association signed an agreement with government to promote sustainable development.
- The first Agenda 21 developed by a professional organization



THE SURVEYOR : A MAJOR PLAYER IN REGIONAL PLANNING

- Ability to analyse the major trends of the territory
- Ability to understand and manage the different procedures
- Knowledge of local structures



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