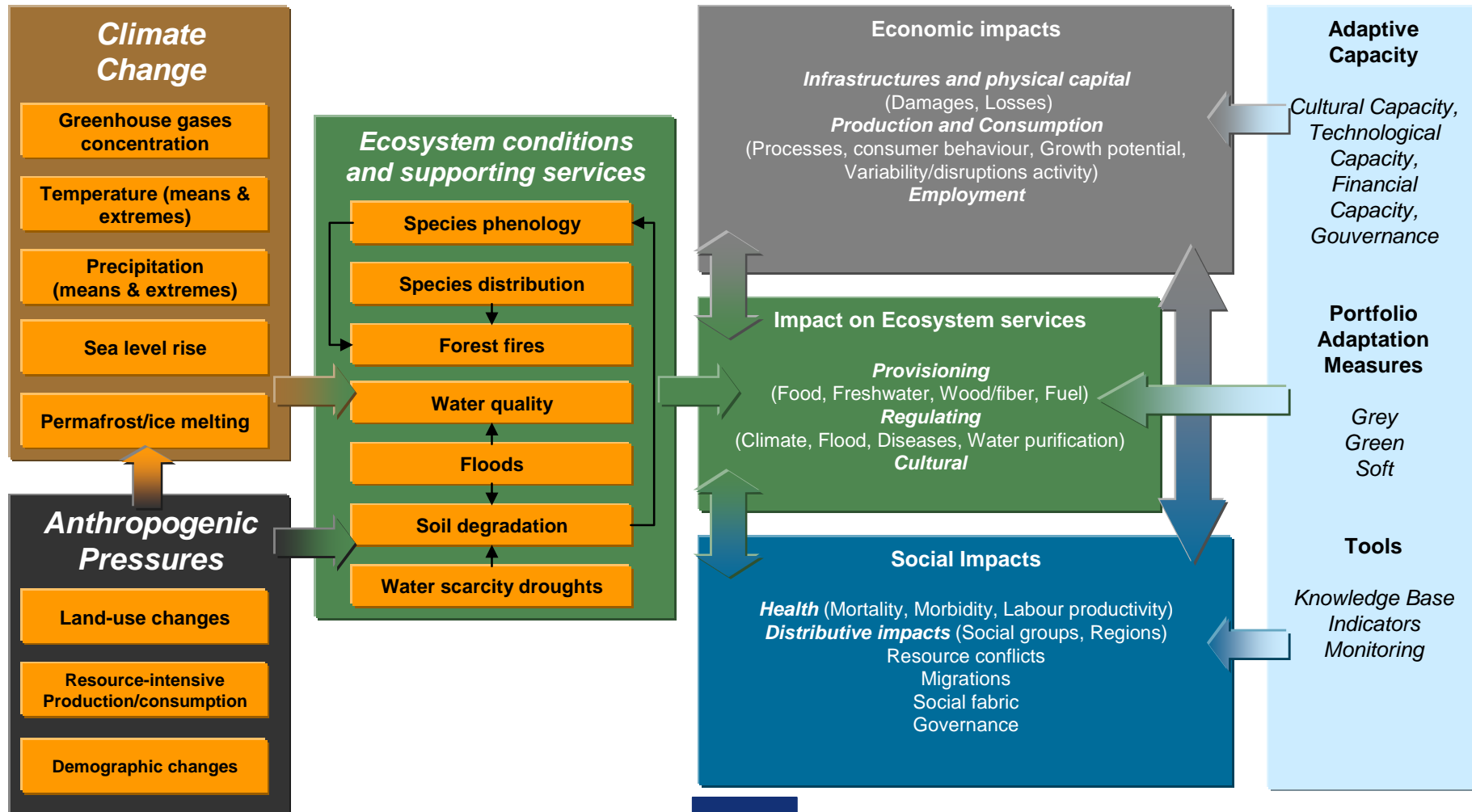


Preparatory action on climate in the Carpathian region

**Assessment of vulnerability of environmental resources
and ecosystem-based adaptation measures**

Jacques Delsalle, DG Environment, Unit B1 – Agriculture, Forest and Soil

2009 White paper on Adapting to Climate Change: Ecosystem pathway of vulnerability and adaptation





Preparatory action – Climate of the Carpathian basin

Objective approved by the European Parliament:

- **to investigate the detailed weather-related and spatial structure of the Carpathians Region with integrated or at least comparable methods.**
- **The basic results will be a contribution to regional climate variability and change studies, and applied climatology.**

2009 budget allocation:

- **Service contract « CARPATCLIM » (lead by Hungarian Meteorological service)**

improve the basis of climate data in the Carpathian Region for applied regional climatological studies

Started in December 2010

- **JRC**

integration of results into the European Drought Observatory





Preparatory action – Climate of the Carpathian basin

2010 allocation: as a follow-up of the Adaptation White Paper, the European Commission proposed to focus work on:

- **Analysis of the vulnerability of water and ecosystems of the region to climate change impacts and other man-made pressures**
- **Identifying potential adaptation measures, focusing on adaptive water management and ecosystem-based approaches.**

Benefits

- **National or Regional adaptation strategies in the Carpathian Region**
- **Danube Climate Adaptation Strategy**
- **Contribution to the forthcoming EU Information System (Clearinghouse) on Climate Change Vulnerability and Adaptation**





Preparatory action – Climate of the Carpathian basin

2010 budget allocation:

- **Service contract « CARPIVIA » (lead by Alterra)**
integrated assessment of vulnerability of environmental resources and ecosystem-based adaptation measures.
Started in December 2010
- **Framework contract « CarpathCC » (lead by Vituki)**
in-depth assessments of vulnerability of environmental resources and ecosystem-based adaptation measures:
 - (1) In-depth study on the key climate change threats and impacts on water resources
 - (2) In-depth study on the impacts of climate change threats on ecosystems
 - (3) In-depth study on the impact of climate change on ecosystem based production systems
 - (4) In-depth study on adaptation measures
 - (5) Supporting stakeholder interaction
 - (6) Integral vulnerability assessments in focal areasStarted in January 2012





Co-ordination with the activity of relevant institutions or networks

- **Convention on the Protection and Sustainable Development of the Carpathians**
- **International Commission for the Protection of the Danube River (ICPDR)**
- **Mountain Research Initiative – Carpathians**
- **United Nations Economic Commission in Europe (UNECE)**
 - pilot projects on adaptation to climate change in transboundary basins under the UNECE Water Convention
- **ERA-NET CIRCLE-2**
- **Drought Management Centre for South-Eastern Europe (DMCSEE)**





Follow-up: EU Policies

Blueprint to safeguard Europe's water resources:

- **Natural Water Retention Measures**
- **2015 River Basin Management Plans**

Biodiversity Strategy

- **Green Infrastructure**

Land as a Resource (2015)

Forest Strategy

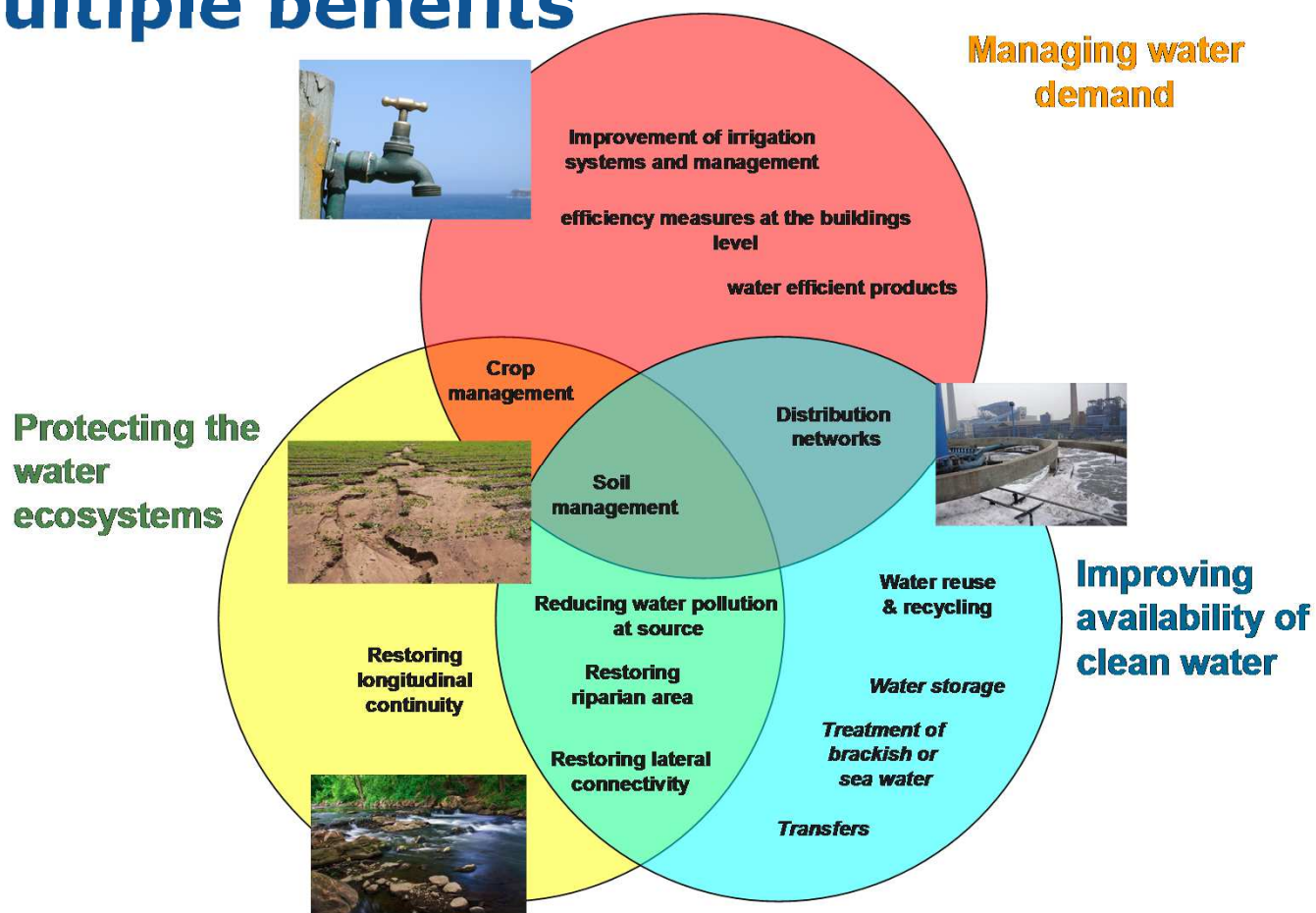
Climate Adaptation Strategy

- **National strategies (report in 2017)**
- **Climate-ADAPT**

Danube Strategy



Blueprint: focus on measures serving multiple benefits



Further integration of results into European Climate Adaptation Platform

<http://climate-adapt.eea.europa.eu/web/guest/home>



The screenshot shows the homepage of the European Climate Adaptation Platform (CLIMATE-ADAPT). The header includes the logo, navigation links (Sign In, Glossary, Contact, Sitemap, Legal notice, About), and a search bar. The main content area features a navigation menu (Home, Adaptation information, EU sector policies, Countries, regions and cities, Tools, Links, Search the database) and several key sections:

- Climate Change Adaptation in Europe:** A central section with a title, a brief description of the platform's mission, and a list of key areas: Expected climate change in Europe, Current and future vulnerability of regions and sectors, National and transnational adaptation strategies, Adaptation case studies and potential adaptation options, and Tools that support adaptation planning. A "Read more" link is provided.
- Adaptation Support Tool:** A section titled "New to adaptation? Use the Adaptation Support Tool" with a circular diagram showing steps 1-6.
- European Countries:** A section titled "What are European countries doing?" with a map and a "Choose your country" dropdown menu.
- Database:** A search bar labeled "Search the database" with a magnifying glass icon.
- Share your information:** A section with a circular icon and the text "Share your information".
- News:** A section with a globe image and a list of recent news items, including "Feb 2014 Examples of green blue adaptation in cities in the EU" and "Feb 2014 Climate change high on new global risks assessment". A "More news" link is at the bottom.
- Events:** A section with a cityscape image and a list of upcoming events, including "10-12 March 2014, CIRCLE-2 conference - Adaptation Frontiers: European Climate Change Adaptation Research & Practice, Lisbon, Portugal" and "27-29 March 2014, ADAPToCLIMATE international conference, Nicosia, Cyprus". A "More events" link is at the bottom.
- EU sector policies:** A section with a landscape image and a list of policies: "Agriculture & Forestry" and "Water management". "Read more" and "View all sectors" links are provided.
- EU information systems:** A section with the "WISE" logo and a list of systems: "Water" and "Biodiversity".



Thank you for your attention!

http://ec.europa.eu/environment/water/adaptation/index_en.htm