

Roundtable 4

Adapt to challenges linked to climate change and prevent extreme phenomena: implementation of the flood directive, drought risk reduction

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Climate change is an evidence

- ▶ Even if climate change is an evidence, phenomena vary largely from one region to another:
 - More frequent and severe extreme events (floods and droughts) and associated damages
 - Less rainfalls / more rainfalls (season, region)
 - Less snowpack
 - Saline intrusion in aquifers
 - Sea level rise,...

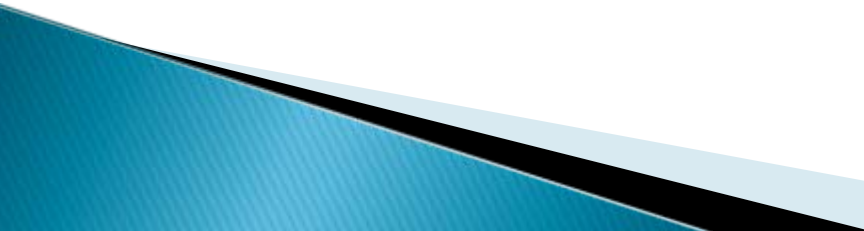
In addition increase of antropogenic pressures:
demography, food,.....

Public participation


Climate manages all of us

- ▶ How to teach? There is a need to develop public awareness (stakeholders, citizens, childrens)
 - ▶ How to involve people? How to develop public participation (in RBMP, DMP, FRMP)
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Flood directive and WFD


- ▶ Not only a laws but also to tool boxes
 - ▶ Protecting environment /human
 - ▶ They need to be combined in order to allow integrated water management and to ensure efficiency
 - ▶ 2015 will be date for convergence: first Flood risk management plan and second riverbasin management plan
 - ▶ FD is a relevant tool to prepare people to find solutions for climate change adaptation
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Dealing with uncertainties

- ▶ Population is increasing
 - ▶ Less water available/more water demand
 - ▶ Reliability and comparability of the climate models
 - ▶ Downscaling (from global to local scale)
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Adapting to climate change

Before strong events

- ▶ Develop early warning systems
 - ▶ Floods, drought and marine submersion forecasting
 - ▶ Landuse plans
 - ▶ Management plans (FRMP, DMP, RBMP)
 - ▶ Develop public awareness and participation
 - ▶ Develop data collection and gathering
 - ▶ Develop resilience
 - ▶ Develop no regret measures (non conventional waters)
 - ▶ Develop collaboration between local national and international partners
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Adapting to climate change

During strong events

- ▶ Early warning alert
 - ▶ Ensuring an appropriate intervention of civil protection services
 - ▶ Preparing the restoration
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Adapting to climate change

After strong events

- ▶ Compensation of damages (restore, rebuild,...)
- ▶ Insurance systems, private/public

Finally adapting to climate could be

- ▶ Working a lot on preventive measures in order to develop resilience and decrease potential damages
 - ▶ Being proactive and developing knowledge to reduce uncertainties could be a key for success
 - ▶ Developing water demand management
 - ▶ Balancing supply and demand at local, regional, national scales
 - ▶ Enhancing public participation
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