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Roundtable 2: “Agriculture and climate change”
Chairs, Rapporteurs and Keynote speaker

Chair: Mr. Jacques Ganoulis, Special Secretary for Water, Ministry of Energy and Environment, Greece

Co-chair: Ms. Tarja Haaranen, Director, Water protection Programme, Ministry of the Environment, Finland

Rapporteur: Ms. Jovana Rašeta, Principal Engineer for Water Protection, Public Water Management Company, Serbia

Co-Rapporteur: Ms. Eija Hagelberg, Project Director, Baltic Sea Action Group, Finland

Keynote speaker: Ms. Marja-Liisa Tapio-Biström, Ministerial adviser, Ministry of Agriculture, Finland
Panelists

Mr. Víctor Cifuentes, Head of the planning bureau, Hydrographic Confederation of the Guadalquivir, Spain
Ms. Stéphanie Laronde, Director of International Cooperation, International Office for Water (IOWater), France
Mr. Aliaksandr Pakhомau, Head of Sector, Central Research Institute for Complex Use of Water Resources, Republic of Belarus
Dr. Galina Stulina, Lead expert on climate change, Interstate Coordination Water Commission of Central Asia (SIC ICWC), Uzbekistan
Mr. Mariusz Adynkiewicz-Piragas, Head of Regional Research Department, Institute of Meteorology and Water Management, Poland
Key words

Communication, inclusivness, involvement, bottom up approach, heavy rain, soil erosion, nutrient cycle, rainfall pattern and T variation, droughts, land-use, KNOWLEDGE AND EXPERIENCE EXCHANGE, WFD principals, Sectoral Policies, environmental measures, synergies, NBS, innovative approach, PATIENCE&PERSISTANCE
Key questions

- Where are we? What are the challenges? What is the base for our future work?
- Is win-win situation with water and agriculture possible?
- How to communicate climate change issues among different stakeholders to provoke dialog and actions?
- Which kind of changes in governance we need?
Key messages and recommendations

Message N°1 : Climate change causes problems both to environment and food production. We have to solve those problems **together**.

Tools to solve these problems are:
- **Sustainable** soil management
- **Innovative** water management (micro catchment, NBS, nutrient recycling)
- **Holistic** approaches for diffuse pollution management- measures in RBMP and in rural development plan in coordination
- Training and development programmes (innovative production, innovative technologies)
Key messages and recommendations

Message N°2: Modeling of crops should include phenomenon of climate change. Shortening the required period for each crop, it means that we can have double yield. Future adaptation to climate change should consider different aspect of their appearance so the question is can we take some benefits from climate change.

Message N°3: Heavy rains represent one of the crucial problems in agricultural areas. Development of risk reduction and management tool to deal with heavy rains, in accordance with WFD and FD. Development the indicators which can help to design the maps of potentially affected areas. Catalogue of risk reduction measures - Forestry, Spatial planning, agrotechnical... technical and non technical measures, taking consideration water management and public engagement.
Key messages and recommendations

Message N°5 Implementation of NVZ can protect water quality, which measures will be best to address to which area according to the risk assessment. Use the suggested measures to control over the use of fertilizers, application of best technologies for management of animal waste, etc.) and on protection from agricultural pollution (arrangement of vegetative strips, creation of bioplato etc.)

Message N°6 In case of increased effects of climate change, basins are dryer, warmer, huge variability of rain and increase of temperature, hipper regulation of agricultural is essential for food production WM systems have to be adapted to more severe scenarious. The irrigated surface has to be kept under strict control in order to cope with this.
Key messages and recommendations

Key recommendation N°1
Because the rising temperatures are causing multiple challenges for both agriculture and environment, multi-beneficial measures are needed. Measures have to be chosen on regional level, not on European level, as the circumstances vary tremendously across the continent.

Key recommendation N°2
**Develop synergy of stakeholders in water and agriculture**, together with:
- Patience and persistence (process is not linear)
- Cross sectoral approach
- Bottom up approach-inclusive process
- Networking, knowledge and experience sharing and exchange
Key messages and recommendations

We are in the middle of this huge and complex learning process, we will never be accomplished. Climate change is causing continuous changes. Adaptation is needed in all levels.