Session 2: Water Resources and aquatic ecosystems management in a changing climate

Rapporteur: Giorgio Pineschi

- What kind of nature based solutions can help to reduce the natural risks related to water and climate change (floods, droughts, soil erosion...)?

- What are the criteria to be followed in order to ensure rapid, efficient and sustainable nature based solutions (multiple benefits, no-regret, complementary to "grey infrastructures", low cost, conflict-resolution)?
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➢ To understand from nature and to mimic natural functions to react to extreme events driven by CC;
➢ Resilience of global energy and food systems;
➢ Groundwater represents a resilient system, providing fundamental contribution for aquatic ecosystems functionality;
➢ “Green” and “Blue” solutions, complementary to “Grey” ones;
➢ Multifunctionality: the added value of nature-based solutions;
Usain Bolt
100 mt (9” 58)

Ashton Eaton
Decathlon World Champion (10” 21)
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- To work at the **appropriate scale** (global/local, RBD, Water Body), **international cooperation**;
- Need for a shift in **planners mentality**;
- Exploring trade-offs with **economic and social goals** and **PES understanding**;
- Need to **monitor**, evaluate and disseminate the benefits in terms of ES and to provide operational tools to all stakeholders;
- Public participation, education and **awareness** on the effects of CC on the water cycle;
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- Technical (monitoring) and legal tools (national and international rules) to support conflicts management;
- River Restoration: to give back space for the river to perform its natural functions (wise use of floodplains, sediment management, etc..)