



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

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- 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..)