









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

Rapporteur: Giorgio Pineschi SOCESID



-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)?





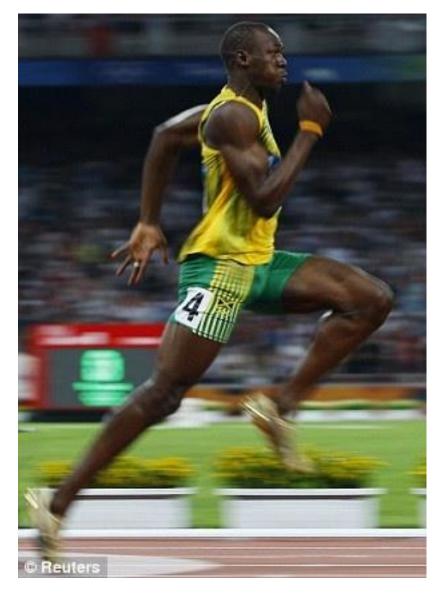






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- To understand from nature and to mimic <u>natural</u> <u>functions</u> to react to extreme events driven by CC;
- <u>Resilience</u> of global energy and food systems;
- ➤ <u>Groundwater</u> represents a resilient system, providing fundamental contribution for aquatic ecosystems functionality;
- ├ "Green" and "Blue" solutions, complementary to "Grey" ones;
- ➤ <u>Multifunctionality</u>: 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 <u>appropriate scale</u> (global/local, RBD, Water Body), <u>international cooperation</u>;
- ➤ Need for a shift in **planners mentality**;
- Exploring trade-offs with <u>economic and social goals</u> and <u>PES understanding</u>;
- Need to <u>monitor</u>, evaluate and disseminate the benefits in terms of ES and to provide operational tools to all stakeholders;
- ➤ Public participation, education and <u>awareness</u> 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..)