



*Towards a water secure world*

# Integrated Drought Management Programme in Central and Eastern Europe

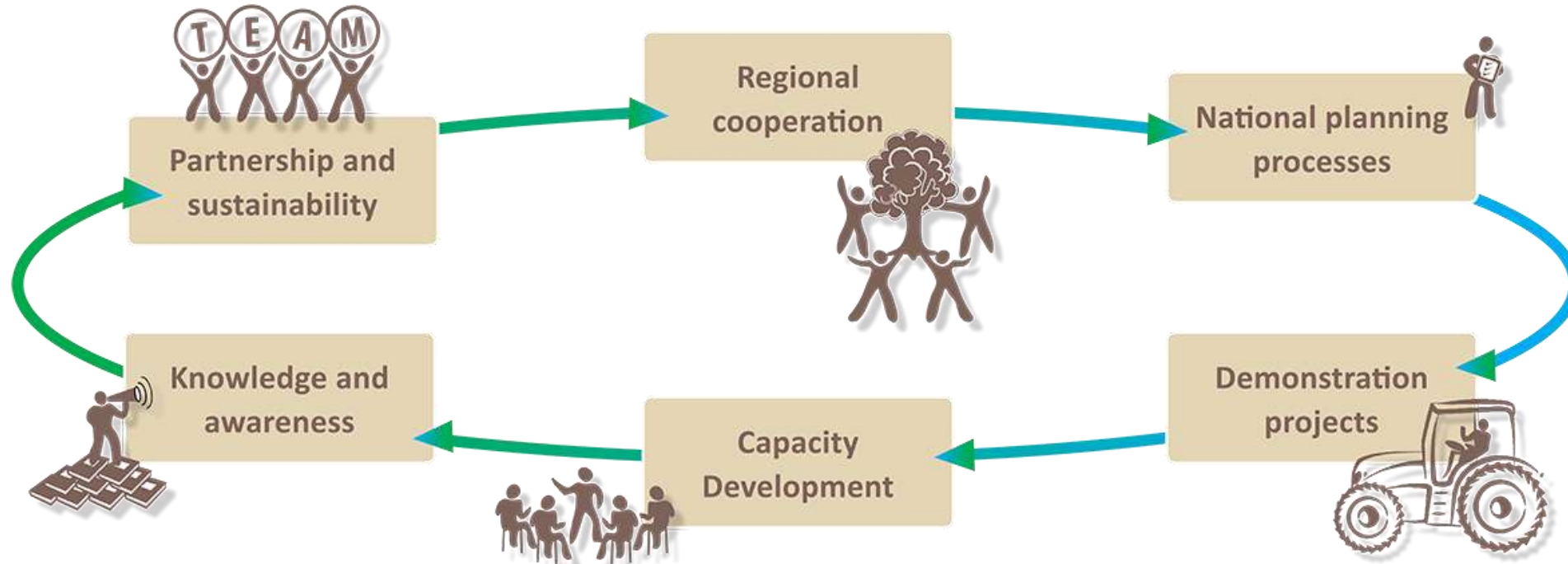
7th World Water Forum  
European examples and instruments for effective adaptation  
to climate change  
15 April 2015, Gyeongju

Richard Muller, Regional Coordinator



# Challenges

- ✓ Variability and change in precipitation
- ✓ Increased frequency of extreme weather events in the future
- ✓ Well developed meteorological and hydrological monitoring but not as a support for decision makers
- ✓ Limited sharing of information among countries





# Partners



10 countries

40 organizations

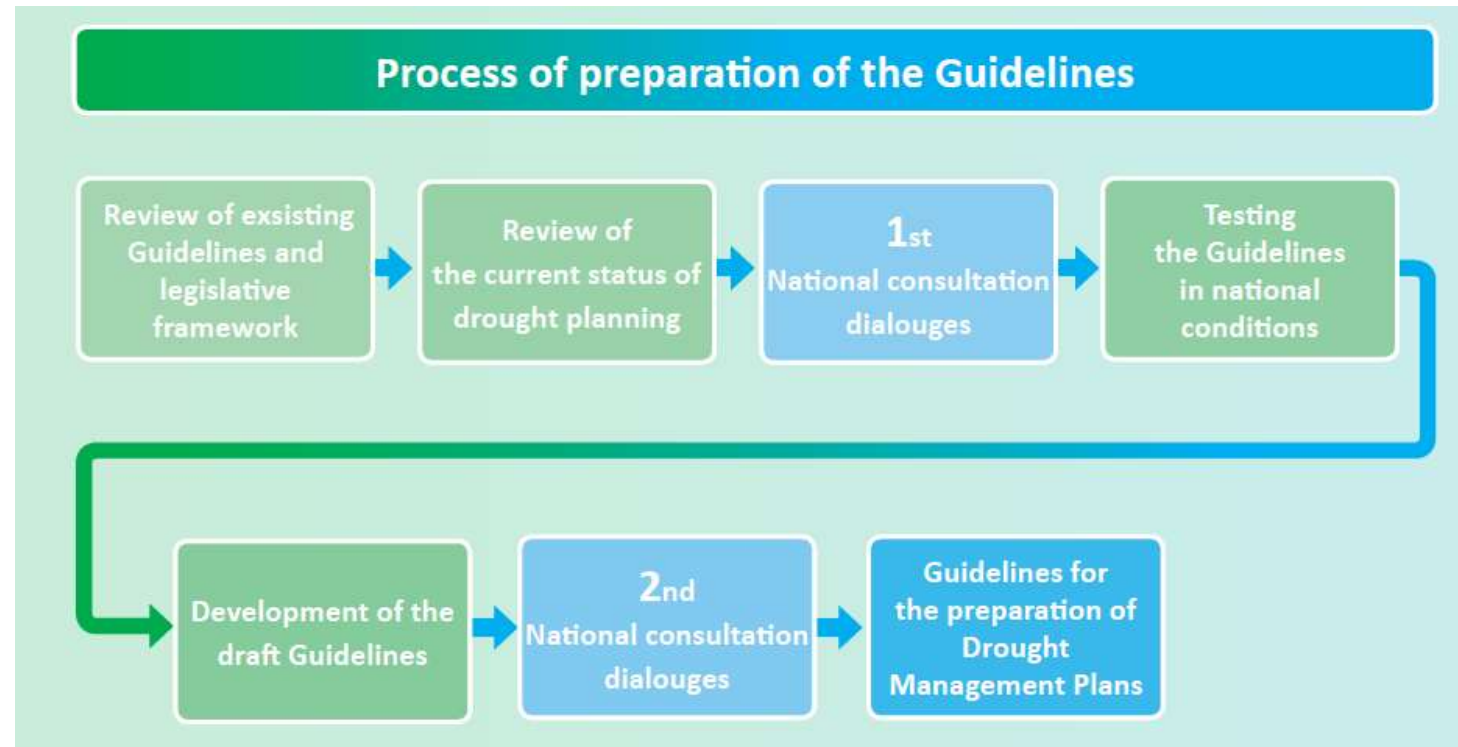
- ✓ Universities
- ✓ Hydro-meteo services
- ✓ Research institutes
- ✓ Ministries & state agencies
- ✓ River basins directorates
- ✓ Drought Management Center for South East Europe



# Preparation of Drought Management Plans

- ✓ the first step from crisis management to risk management approach
- ✓ to minimize the adverse impacts on the economy, social life, environment when drought appears
- ✓ to be prepared in advance
- ✓ directly linked to Water Framework Directive & River Basin Management Plans

- ➔ **Development of the Guidelines for preparation of the Drought Management Plans within RBMP – support tool**
- ➔ **Organization of the National Consultation Dialogues (20 in 2 years in 10 countries) – acceptance at the policy level**



Gather key stakeholders dealing with drought issues from relevant sectors

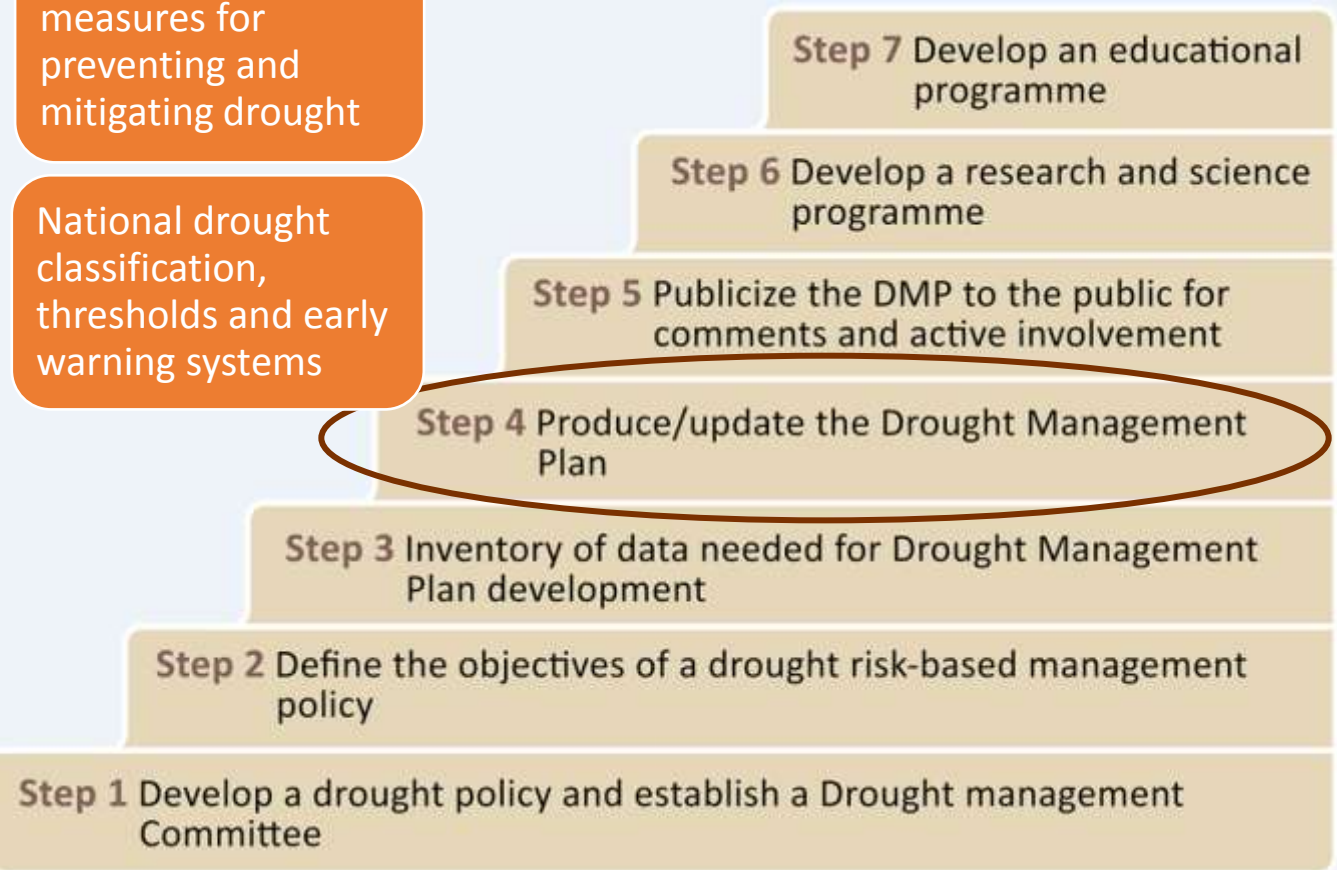
Collect information about the current status of the implementation of DMPs and measures within RBMP according to WFD

Provide basic information on what already exist (GWP/WMO Guidelines, Communication from Commission in 2007)

Suggest further steps in development of the national drought risk-based management strategy and its implementation

National program of measures for preventing and mitigating drought

National drought classification, thresholds and early warning systems





# Demonstration projects

## Natural small water retention measures



Adjust to extreme climate variability; it helps retain water in the land during wet periods and slows down flood waves during flood periods

Hungary, Poland, Slovakia and Slovenia



## Increasing soil water holding capacity



Test the methods for improving water infiltration into the soil profile

Czech Republic, Poland, Slovakia and Slovenia



## Drought impact on forest ecosystems



Measures for forest adaptation, and for mitigating the negative effects of climate change

Bulgaria, Lithuania, Slovenia and Ukraine





# Demonstration projects (2)

## Remote sensing agricultural drought monitoring methods

Hungary, Slovakia and Romania

Identification of agricultural drought characteristics & monitoring method through the application of remote sensing data



## Agricultural drought monitoring and forecasting

Moldova and Ukraine

Upgrade data assessment and forecasting tools to support drought management and monitoring



## Drought Risk Management Scheme

Lithuania, Poland and Romania

Developing a framework for an integrated operational drought risk management system that can be adjusted to a given drought context





Thank you  
for your attention

[www.gwp.org/GWP-CEE/IDMPCEE/](http://www.gwp.org/GWP-CEE/IDMPCEE/)

[www.droughtmanagement.info](http://www.droughtmanagement.info)

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