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**The 7th World Water Forum
12-17 April 2015, Daegu-Gyeongbuk, KOREA**



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Session 4.3.4.

**Building trust: Facilitating data &
information exchange between riparian
countries in transboundary basins**

**Daegu
16 April 2015**

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Why data and information sharing
is important for transboundary water
resource management ?





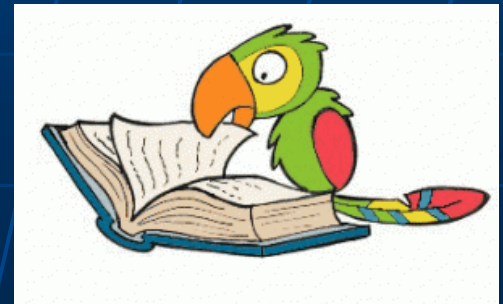
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Develop confidence among countries



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- Transboundary water resource management = managing water shared by several countries, usually in competition / conflict
- To develop cooperation as base of collaborative water management, need to build confidence between countries
- Data & information sharing = base for it!
- Agreement on the data





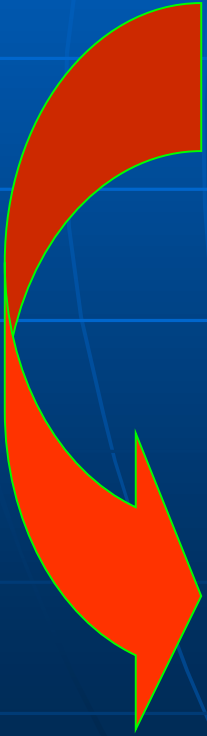
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Transboundary Basin Management needs reliable Data & Information



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- Many owners of water data & information: administrations, basin organisations, professionals, water service operators, research, NGOs, ...
- Heterogeneity among data : harmonisation
- Incomplete: areas without data, parameters missing, groundwater ?



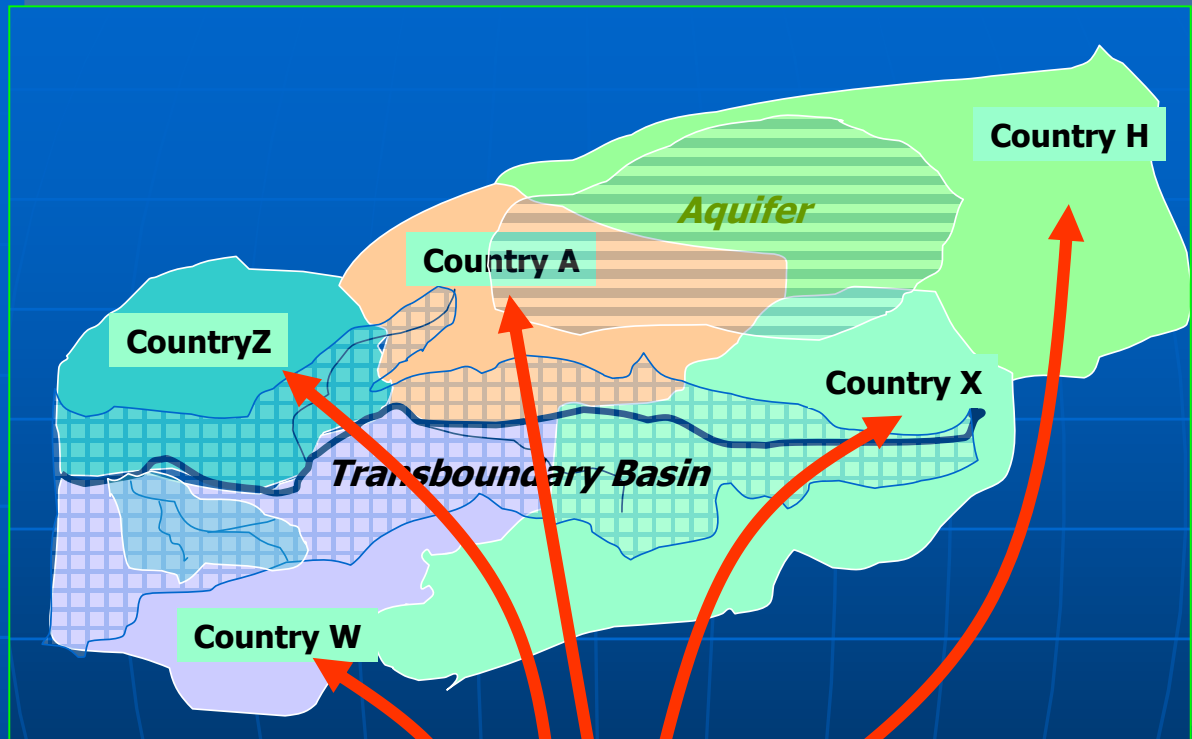
Data often no reliable
Different definitions among countries
Different methodology among countries



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Basin Organisation

**Definition, Methods
Harmonisation
Agreemt. parameters**



Reliability + confidence

More cooperation possibilities



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Transboundary Basin Management needs rel ICPDR example information



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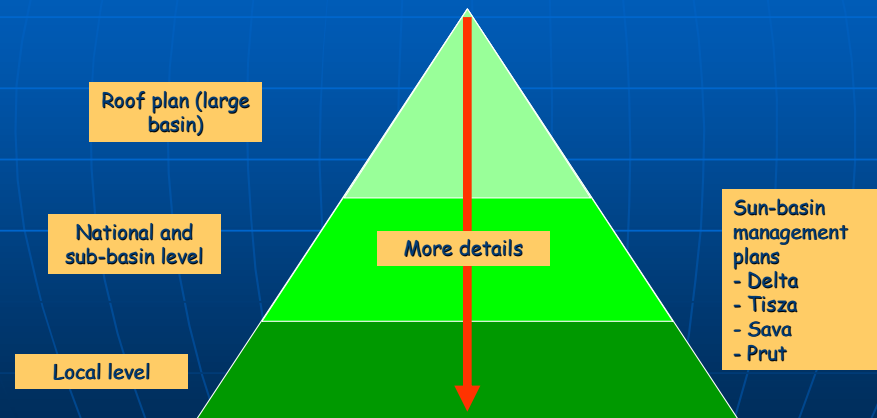
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Framework of the Management Plan



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- 3 levels for coordination





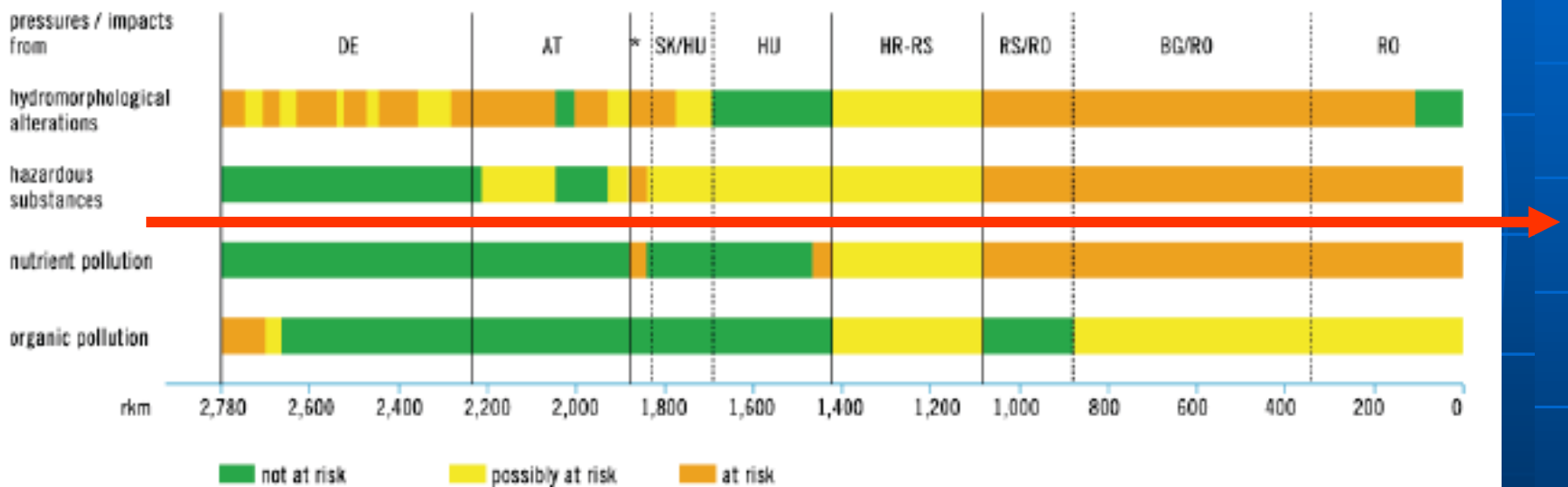
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Transboundary Basin Management needs reliable Data & Information



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Figure 2: Results of the risk analysis for the entire Danube River length (DBA, 2004).¹⁸ (*: SK territory).



source

mouth

Absolute need of same approach



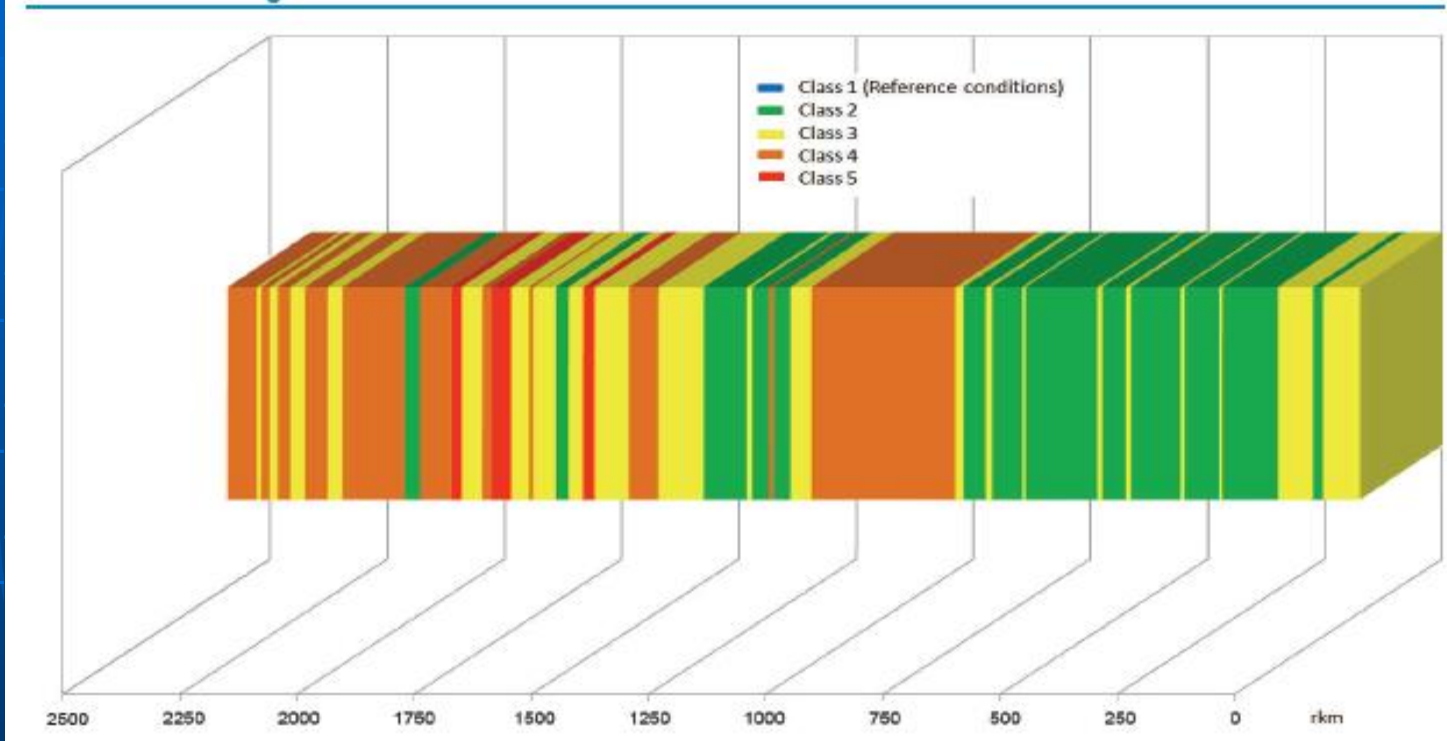
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Transboundary Basin Management needs reliable Data & Information



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Figure 11: Overall hydromorphological assessment of the Danube River in five classes as longitudinal colour-ribbon visualisation.⁴³



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mouth

Absolute need of same approach



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Management Plan & Strategy need Data & Information for efficiency

Basin Management Plan medium/ long

Which Adaptations

- Institutions (bodies, legislation)
- Investments
- Capacities
- Research

data

data

data

Base line

- water, uses
- land
- activities

Different Scenarios

**Trends (population...)
Development will
Climate change ...**

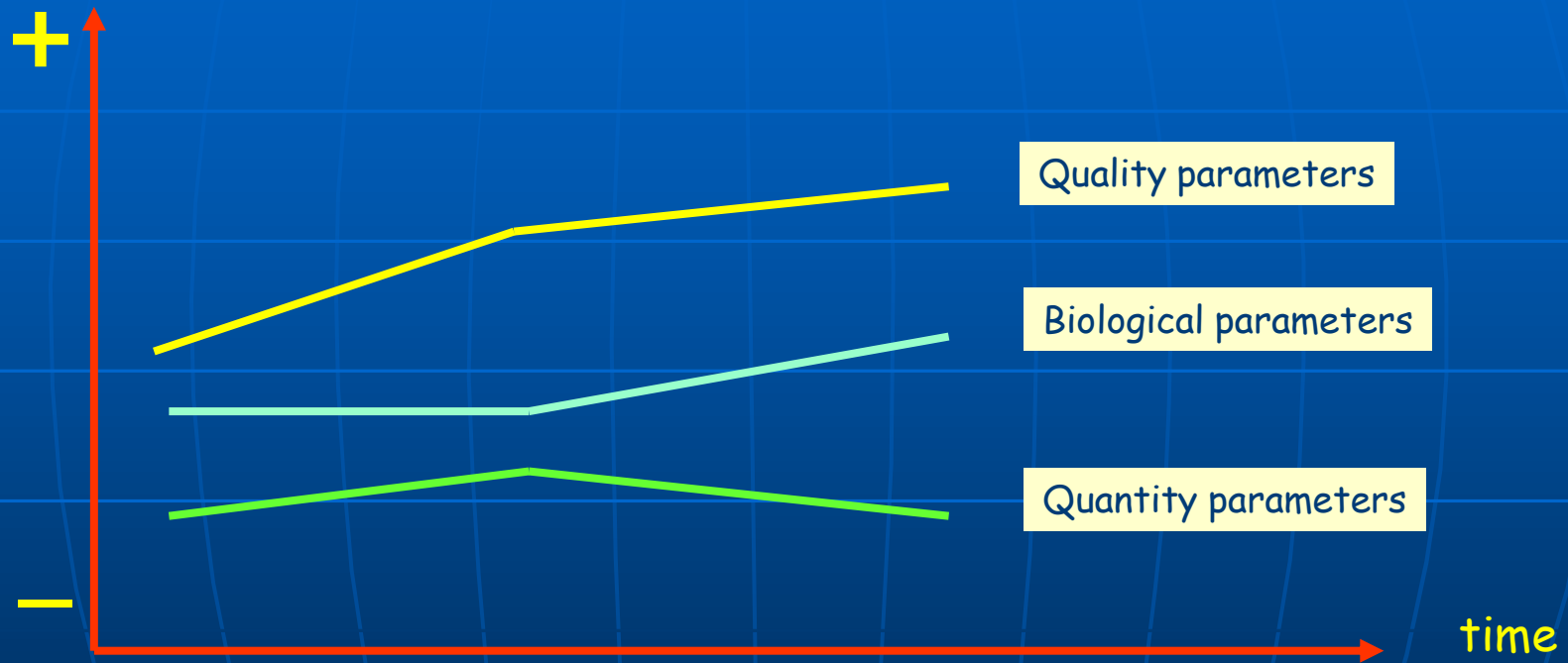


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Data & Information required for Evaluating Progress



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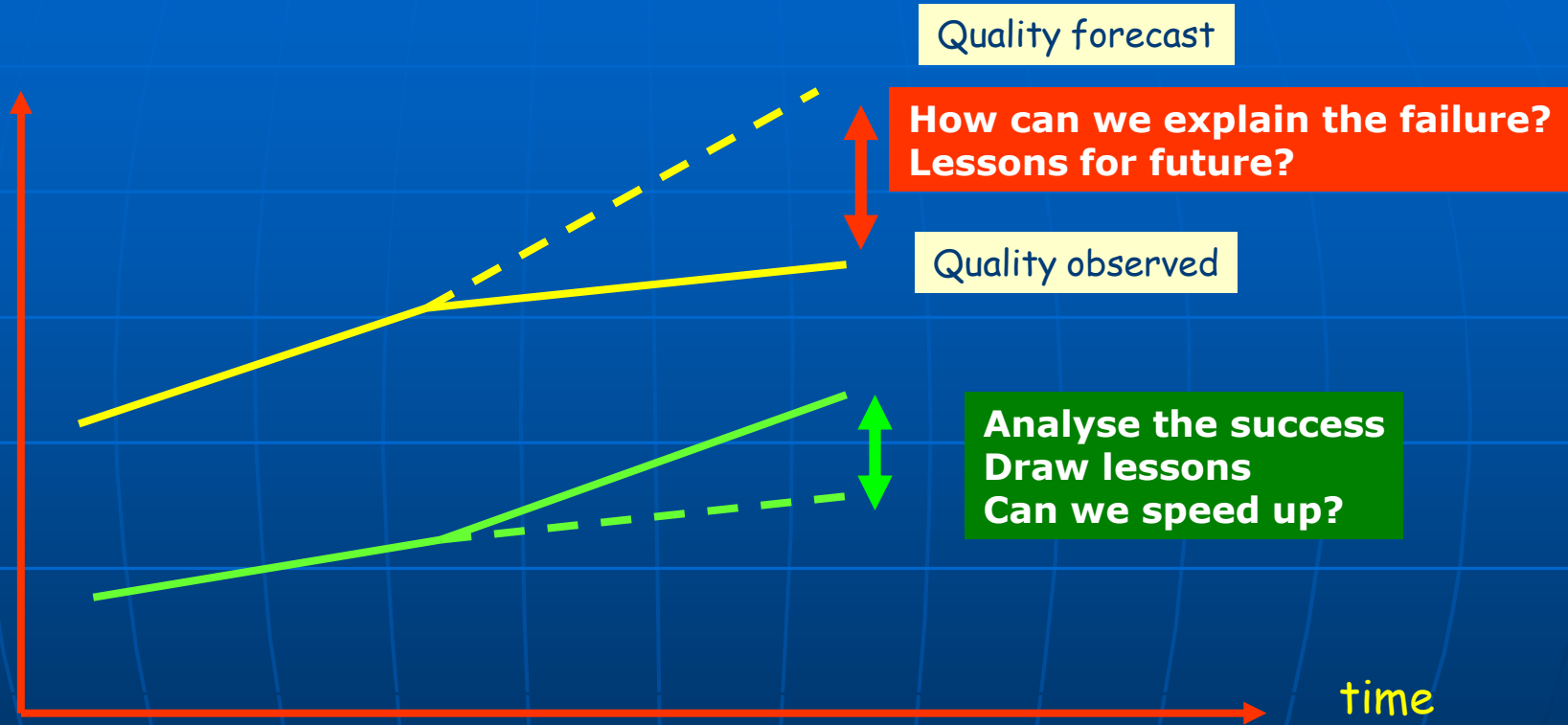


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... and analysing gaps with planning



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The need of Knowledge, Data & Information for an efficient water management at basin level

Which data?



- Water resources: quantity, quality, uses, ... availability and potential
- Population, impacting activities, ...
- Urbanization, changes in land uses
- Institutional organization
- Regulation and its application



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The need of Knowledge, Data & Information for an efficient water management at basin level



- Efficient Water Information System, established at basin level
- Reliable monitoring system to measure progress



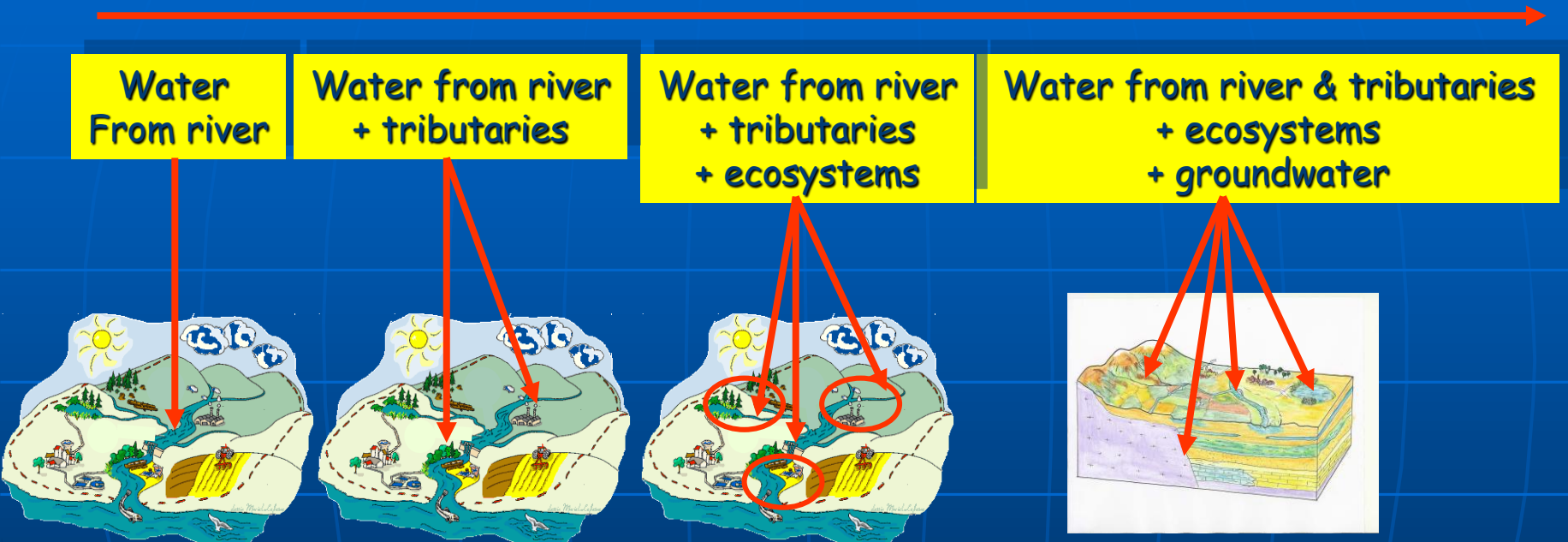
Evolution in water management



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Management area



Basin - territory management

All water resources (surface and groundwater)
Total run-off
Links with impacting activities and developments
Ecosystem as important user



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Evolution in water management



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Management area

Water
From river

Water from river
+ tributaries

Water from river
+ tributaries
+ ecosystems

Water from river & tributaries
+ ecosystems
+ groundwater

Complexity increase - Importance of Data grows up

Basin - territory management

All water resources (surface and groundwater)
Total run-off
Links with impacting activities and developments
Ecosystem as important user



Thanks for your
attention!

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