

# The Flood Risk Directive

*Erik Mostert*

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# What are European directives?

- European laws
- Drafted by the European Commission, adopted by the Council and the European Parliament
- Binding on MS with respect to results
- Enforcement by European Commission and European Court of Justice

# Main points FRD

- Preliminary flood risks assessment
- “Flood hazard maps” and “flood risk maps”
- Flood risk management plan
  - Objectives
  - measures

## Definitions (art. 2)

- Flood: “temporary covering of land not normally covered by water”
- Flood risk: “combination of the probability of a flood event and of the potential adverse consequences for human health, the environment, cultural heritage and economic activity (...)”

# Preliminary flood risk assessment (art. 3-5)

- 1) maps of basin, 2) description of past floods with significant effects, 3) assessment of potential consequences (optional)
- Based on available or readily derivable information
- Identification of areas with potential significant flood risks, now or in the future
- Not necessary if already done or decision to make maps and plans anyway (art. 13.1)

# Maps (art. 6)

## “Flood hazard maps”

- Three scenario's: a) extreme events, b) medium probability ( $\geq 100y$ ), c) high probability (optional)
- Flood extent, water depth, flow velocity (optional)

## “Flood risk maps”: show potential adverse consequences:

- Number of inhabitants potentially affected
- Type of economic activity
- IPPC-installations
- Other info (optional)

# Flood risk management plans (art. 7-8)

- “Appropriate objectives” for the management of floods
- Measures for achieving the objectives
- Consideration of:
  - Effects on human health, economy, environment, cultural heritage
  - All “aspects”: Prevention, protection, preparedness, ...
  - Costs and benefits
  - Potential retention areas, spatial planning, nature conservation



# River basin approach

- Maps etc. for all national river basin districts
- International districts: coordination
- MS cannot take measures that increase flood risks in other countries
- MS have to “encourage active involvement of all interested parties” in planning

## Time schedule (22.12)

2011: Preliminary flood risk assessment

2013: Flood maps

2015: Flood risk management plans

Review and update every 6 years

# Question 1

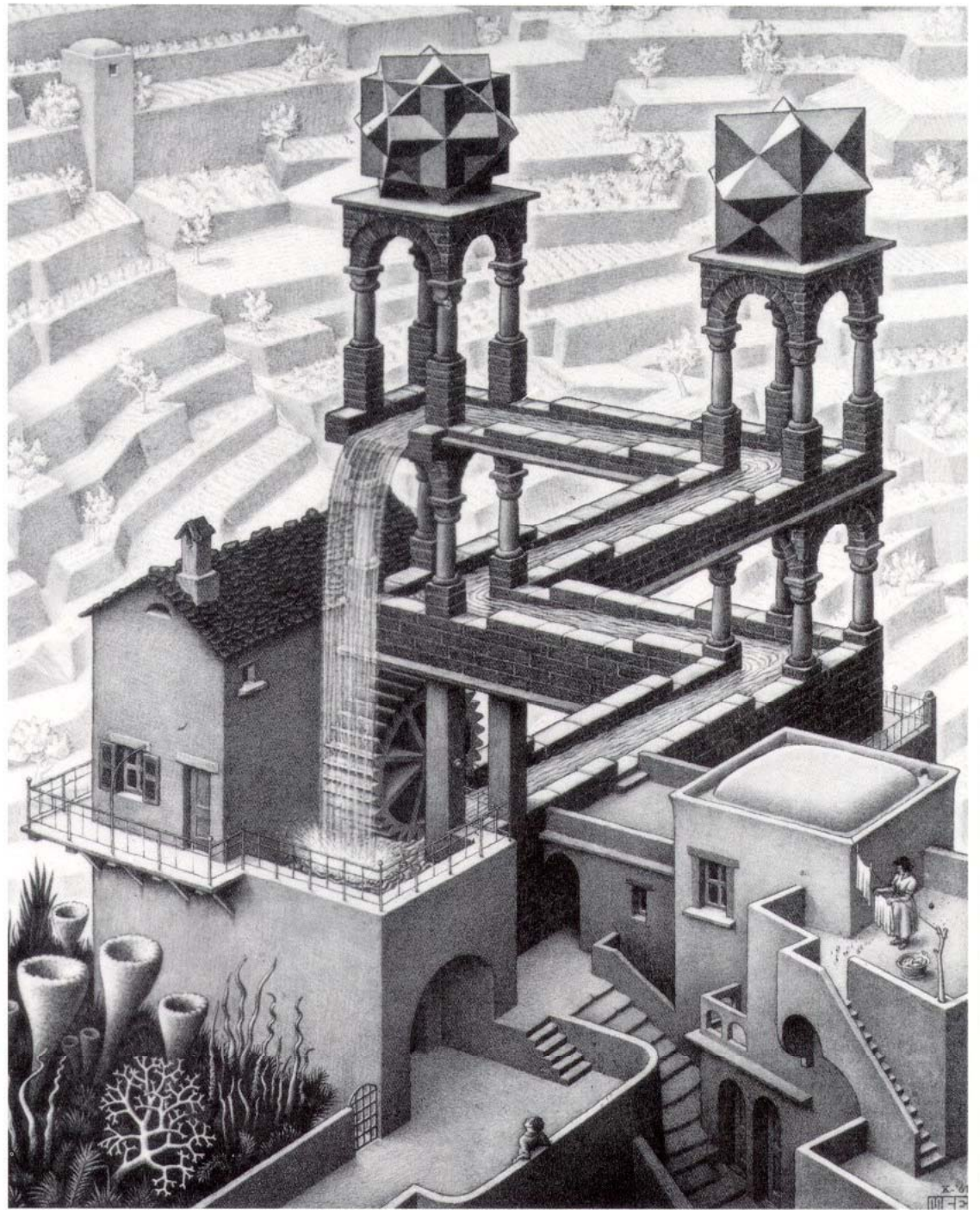
- Where do changes come in? Do they have to be considered?

## Question 2

- What is the relevance of the flood risk directive for my (your) research?

The

End



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