Disaster risk management

Risk assessment

For a specific spatial and time scale.

Hazard assessment
Flooding area / inundation depth / drag (depth x velocity)

Exposure assessment
Elements present in hazard zones

Vulnerability assessment
Sensitivity / resilience of exposed elements

Disaster risk management

Risk reduction measures

Hazard Reduction RRM
- Engineering based.
- Nature-based.

Exposure Reduction RRM
- Engineering based.
- Nature-based.
- Coastal/urban planning and architectural.
- Social and institutional.
- Emergency planning (early warning systems and evacuation).

Vulnerability Reduction RRM
- Risk mapping and assessment.
- Coastal planning and architectural.
- Social and institutional capacity.

Interactions between the different components of Risk Assessment and the pre-event approaches of Risk Reduction Measures

* For a specific spatial and time scale.