Austrian efforts towards a coherent national Event- & Loss Database

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1. **OUTCOME**

   The substantial reduction of disaster risk and losses in lives, livelihoods and health and in the economic, physical, social, cultural and environmental assets of persons, businesses, communities and countries.

2. **GOAL**

   Prevent new and reduce existing disaster risk through the implementation of integrated and inclusive economic, structural, legal, social, health, cultural, educational, environmental, technological, political and institutional measures that prevent and reduce hazard exposure and vulnerability to disaster, increase preparedness for response and recovery, and thus strengthen resilience.

3. **PRIORITIES**

   - Understanding disaster risk
   - Strengthening disaster risk governance to manage disaster risk
   - Investing in disaster risk reduction for resilience
   - Enhancing disaster preparedness for effective response, and to “Build Back Better” in recovery, rehabilitation and reconstruction

4. **TARGETS**

   - Disaster mortality by 2030
   - Number of affected people by 2030
   - Economic loss by 2030
   - Infrastructure damage by 2030
   - DRR national/local strategies by 2020
   - International cooperation by 2030
   - EWS and DR information by 2030

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National Platform

National Actionplan

Action: Set up of National Loss and Damage Database

Implementation of ASDR working group
Status quo as motivation

Various institutions collect data...
...for different purposes
...with different standards

Feasibility study if there is an added value for coordinated action
**Objectives**

- Analysis of usability, comparability and interoperability of available data (monetary)
  - Focus on federal administration and infrastructure relevant operators
- Definition of pre-conditions for data provision
- Implementation concept
- Pilot implementation based on heterogenous data
- Recommendations
DAMAGE.at conceptual work for processes and definitions

* non-exclusive options are connected via solid lines.
DAMAGE.at: Comparison of test data

- Single flood event 2014, region in Salzburg

- Damages listed in 23 communities
- All VIOLA records (left hand side) can also be found in the federal state data base
- Damage categories „buildings“, „agriculture and forestry“, transport/traffic infrastructure“ and „other damages“

Source: VIOLA database for july 2014 (source: ZAMG)
Loss and damage numbers from subsidies (source: Federal state of Salzburg)
DAMAGE.at: Implementation concept

- Original data and their structures remain unchanged
- Original categories still valid
- No re-modelling needed
- Transformed data is EU conform
We should proceed and implement a national database

- Focus on administrative and governance objectives
- Modular implementation
- Focus on clearly defined user groups (important for some providers)
- Collaborate with data provider (PPPs)
  - Highlight their added value
  - Be aware that besides different standards and quality levels it happens that data is simply deleted after the legal retention period!!
ASDR – working group proposal

In cooperation with 2 federal states:

- Floods
- Landslides
- Storms
- Manmade/technical hazards tbd
ASDR DataHub objectives

- **Synergies, standardization & capacity building**
  - Build on existing
  - Compare different data sources
  - Implementation of one common language/vocabulary and an applicable data model

- **Towards an operative hazard and loss monitoring**
  - Support national reporting tasks (e.g. Sendai monitoring, flood directive, national risk assessment, climate mitigation and adaptation strategies,...)
  - Definition of reference scenarios
  - Extent loss and damage DB towards impact orientation

- **Disaster forensics**
  - Interactive platform for data blending and real time analysis
  - Derive (triggering) thresholds

All listed objectives are nationally focused BUT are also linked to international developments
ASDR DataHub – concept

Existing loss and damage data + Data & metadata knowledge + Compliant vocabulary standards + Weather/environmental data

Public infrastructure (z.B. Austrian Power Grid, Austrian Railways,..)

Research based data

Federal administration

Governmental agencies WLV, Environmental Agency Austria Geological survey

Meteorological Service

User

Statistik Austria

UNISDR

United Nations Office for Disaster Risk Reduction

ZAMG

Zentrale Anstalt für Meteorologie und Geodynamik
DRMKC - Risk Data Hub: Answer to Austrian requirements?
In how far does the RDH help member states concerning

- Data and user management

- Preparation of data towards European obligations
  - Is there a minimum requirement of information necessary to be applicable to the RDH and other European obligations/assessments
  - Compliancy with data protection regulations
  - Compliancy with INSPIRE directive
  - Ready interfaces with other platforms

- Harmonization and/or transformation of various data sources

- Data analysis e.g. concerning Sendai indicators also comparing to DesInventar and data blending
  - Supporting on definition of set of Europe wide useful indicators (e.g. how to build a data base and respective infrastructure,...)

- Access to European and other open source data (e.g. COPERNICUS)
Disaster risk management cycle

Supporting risk management

Prevention → Mitigation

Recovery → Adaptation

Response → Preparedness

Building a resilient Europe

Need to interlink scales, structures and requirements/obligations

In how far does the RDH provide a single and simple interface/tool for various purposes and help member states in their daily work?