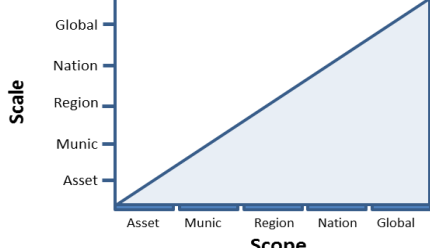


Loss Database Technical Overview Sheet

This technical overview sheet accompanies the JRC report on “Recording Disaster Losses: Recommendations for a European Approach” (<http://publications.jrc.ec.europa.eu/repository/handle/111111111/29296>) and aims to collect information on existing or planned loss databases in a systematic and comparable manner in support of a technical meeting on 15 November 2013. For more information please contact Tom De Groeve, Joint Research Centre of the European Commission (tom.de-groev@jrc.ec.europa.eu).

Purpose of loss database (See Chapter 3)

Applications and use	Scale and scope	Data assessment
<p>Introduction</p> <p>Loss Accounting Disaster forensic Risk modeling</p> <p>Objectives</p> <ul style="list-style-type: none"> Recording of impact Identifying the cause Modelling future losses Measuring trends Learning from the past DRR and mitigation <p>Local users</p> <ul style="list-style-type: none"> Local policy (City mayor) Local expert teams Local research/policy <p>National users</p> <ul style="list-style-type: none"> National policy (National administration) National expert teams National research/policy (Regional GEM) <p>Global users</p> <ul style="list-style-type: none"> International policy (UN, donors, HFA, GAR) EU policy (DG ECHO) International expert teams (PDNA) International initiatives (GEM, GAR) EU policy <p>For which applications is the database designed?</p> <p><input type="checkbox"/> Loss accounting: Click here to enter text.</p> <p><input type="checkbox"/> Disaster Forensics: Click here to enter text.</p> <p><input type="checkbox"/> Risk modelling: Click here to enter text.</p> <p>Who are the main users (ministry, policy, sector)?</p> <p>Ministry of Interior, DG Fire Safety and Civil Protection</p> <p>Are you systematically sharing loss data with other organisations?</p> <p><input checked="" type="checkbox"/> No <input type="checkbox"/> With UN <input type="checkbox"/> With EU <input type="checkbox"/> With other org's</p> <p>What format or standard is used? (e.g. Excel, SQL, XML)</p> <p>Click here to enter text.</p>	 <p>At what scale (precision) are you recording data?</p> <p><input checked="" type="checkbox"/> Asset <input type="checkbox"/> Municipal <input type="checkbox"/> Regional <input type="checkbox"/> Nat <input type="checkbox"/> Global</p> <p>What is the scope or coverage of your database?</p> <p><input type="checkbox"/> Asset <input type="checkbox"/> Municipal <input type="checkbox"/> Regional <input checked="" type="checkbox"/> Nat <input type="checkbox"/> Global</p> <p>What hazard types are covered?</p> <p><input type="checkbox"/> All hazards</p> <p><input type="checkbox"/> A single hazard: Click here to enter text.</p> <p><input type="checkbox"/> Multiple: Click here to enter text.</p> <p>Time period covered</p> <p><input checked="" type="checkbox"/> Historical records (From/to: 1995-2014)</p> <p><input type="checkbox"/> Continuously updated and sustainable</p> <p><input type="checkbox"/> Sustainability not guaranteed</p>	<p>Mandated organisation to collect data</p> <p>DG Fire Safety and Civil Protection</p> <p><input checked="" type="checkbox"/> Mandated <input type="checkbox"/> Academic/Project <input type="checkbox"/> Private</p> <p>What techniques are used to record loss data?</p> <p><input type="checkbox"/> Desk research (media, government reports)</p> <p><input type="checkbox"/> (Sectorial) field assessment teams</p> <p><input checked="" type="checkbox"/> Official reporting mechanism (e.g. insurance claims or police reports)</p> <p><input type="checkbox"/> Remote sensing</p> <p>Other: Click here to enter text.</p> <p>Do you have well-defined entry criteria?</p> <p>Which?</p> <p>Click here to enter text.</p> <p>Is there a quality assurance process?</p> <p><input checked="" type="checkbox"/> Systematically <input type="checkbox"/> Ad hoc <input type="checkbox"/> No</p> <p>Language(s): Bulgarian</p>
<p>Comments: The database is developed based on Massachusetts General Hospital Utility System, Micronetics</p>		

External references: identifiers		<input type="checkbox"/> Considered / important
Do you refer to external database(s), and if yes, which one(s)?	If yes, how do you ensure correct relationships?	
<input type="checkbox"/> Hazard database (e.g. USGS catalogue of earthquakes) Click here to enter text.	<input type="checkbox"/> Manual selection of corresponding records <input type="checkbox"/> Automatic selection	
<input type="checkbox"/> Exposed element database (e.g. cadastre, asset database) Click here to enter text.	<input type="checkbox"/> Mandatory (in workflow) <input type="checkbox"/> Optional (only done when possible)	
<input type="checkbox"/> Loss data (e.g. surveys, forensic study, assessment report) Click here to enter text.	<input type="checkbox"/> We store the corresponding record identifier of external database <input type="checkbox"/> External database uses our record identifier <input type="checkbox"/> Use of common identifier (e.g. GLIDE number) <input type="checkbox"/> Other	
<input checked="" type="checkbox"/> The database is independent. There are no links with other databases		
<p>Comments: Click here to enter text.</p>		

Uncertainty handling			<input type="checkbox"/> Considered / important
Do you handle uncertainty or missing data explicitly in the database?	Do you handle uncertainty by referring to an external database?	If yes, how do you handle uncertainty or missing data?	
<input type="checkbox"/> No, or only in narrative <input type="checkbox"/> For all fields <input type="checkbox"/> For most value fields <input checked="" type="checkbox"/> Only for key fields: Click here to enter text.	<input type="checkbox"/> Hazard database (e.g. USGS catalogue of earthquakes) <input type="checkbox"/> Affected element database (e.g. cadastre, asset database) <input type="checkbox"/> Loss data (e.g. surveys, forensic study, assessment report)	<input type="checkbox"/> Narrative, description <input type="checkbox"/> Qualitative (e.g. high, low) or Flag (e.g. exact, estimated, uncertain) <input type="checkbox"/> Quantitative metric (e.g. ±5km), range (min-max), statistic (e.g. st.dev.) <input type="checkbox"/> Probabilistic (e.g. PDF) <input type="checkbox"/> Storing multiple values, estimates or versions <input type="checkbox"/> Fixed conversion rules (e.g. 1 family = 4 persons; several buildings = 10) <input type="checkbox"/> Other, specify: e.g. assign to smallest administrative area containing the hazard	
<p>Comments: Click here to enter text.</p>			

Hazard (See Table 1) <input checked="" type="checkbox"/> Considered with Click here to enter text. fields in the database		
Geographical location of hazard	Temporal information of hazard	Hazard event classification
How is location recorded in the database? <input type="checkbox"/> Country (ISO3) <input type="checkbox"/> Subnational unit(s) <input checked="" type="checkbox"/> Point (lat/lon) <input type="checkbox"/> Footprint (poly)	How is time recorded in the database? <input checked="" type="checkbox"/> Date and time <input type="checkbox"/> Period (from – to) <input type="checkbox"/> Month only (for uncertain beginning/ending) <input type="checkbox"/> Spatio-temporal dynamic information	Which standard are you using? <input type="checkbox"/> CRED/MunichRe/IRDR standard <input type="checkbox"/> INSPIRE HazardCategoryValue <input checked="" type="checkbox"/> Other (standard internal or external list) <input type="checkbox"/> None (free text, optional)
Which standards are used? e.g. ISO3, NUTS, LAU2, INSPIRE, WGS84, UN GeoOntology	Event type specific attributes	Hazard event identification
	<input type="checkbox"/> All hazard data is recorded in the database <input checked="" type="checkbox"/> Some key data is recorded in the database <input type="checkbox"/> Reference to external hazard database	Do you group records by hazard event? <input type="checkbox"/> Yes, using internal event identifier <input type="checkbox"/> Yes, linked to external event databases (e.g. GLIDE) <input type="checkbox"/> No, only individual loss records
Comments: Click here to enter text.		
Loss indicators (See Tables 2,4-6) <input checked="" type="checkbox"/> Considered with Click here to enter text. fields in the database		
Damage / loss categories (Table 2)	Loss indicators for population (Table 6)	Loss indicators for property (Tables 4,5)
What are you recording? <input checked="" type="checkbox"/> Direct damage / people directly affected <input type="checkbox"/> Indirect loss / damage <input type="checkbox"/> Total loss / damage <input type="checkbox"/> Tangible (economic loss and people affected) <input type="checkbox"/> Intangible (loss of future usage, cultural, env.) For property , are you recording <input checked="" type="checkbox"/> Physical damage <input type="checkbox"/> Monetary loss	Do you break down affected population by <input checked="" type="checkbox"/> Killed <input type="checkbox"/> Missing <input checked="" type="checkbox"/> Injured <input type="checkbox"/> Evacuated <input type="checkbox"/> Displaced <input type="checkbox"/> Homeless <input type="checkbox"/> Victims <input type="checkbox"/> Affected <input type="checkbox"/> Total Based on standard or methodology: <input type="checkbox"/> UNDP/UNISDR (DesInventar) <input type="checkbox"/> EM-DAT <input type="checkbox"/> Internal <input type="checkbox"/> Other: Click here to enter text.	Do you record damage or losses (monetary value)? <input checked="" type="checkbox"/> Damage only; losses are calculated outside of db <input type="checkbox"/> Losses <input type="checkbox"/> Damage and losses Do you record damage / losses (Table 5) <input checked="" type="checkbox"/> At asset level (individual buildings) <input type="checkbox"/> For groups of buildings (e.g. total for city) Do you break down losses per sector (Table 4) <input checked="" type="checkbox"/> per sector <input type="checkbox"/> per loss owner (who bears the loss) <input type="checkbox"/> Other: Click here to enter text.
Comments: Click here to enter text.		
Affected element (See Tables 1,3,4) <input checked="" type="checkbox"/> Considered with Click here to enter text. fields in the database		
Geographical location of assets / losses	Population (killed, injured, displaced, etc.)	Property (damaged or destroyed)
Is location recorded separately for affected elements? <input type="checkbox"/> No, only the hazard is georeferenced <input type="checkbox"/> Country (ISO3), Subnational unit(s) <input checked="" type="checkbox"/> Point (lat/lon) <input type="checkbox"/> Footprint (poly)	Do you break down population by (see Table 3) <input checked="" type="checkbox"/> Age, Gender, Marital status, Education, etc. <input type="checkbox"/> Risk category (e.g. ECLAC method) Based on standard: <input type="checkbox"/> ECLAC <input type="checkbox"/> Other: Click here to enter text.	Do you break down property by (see Table 3) <input checked="" type="checkbox"/> Buildings versus Civil works (e.g. energy lines) <input checked="" type="checkbox"/> Crops / Moveable property (e.g. cars) <input type="checkbox"/> Structural properties (e.g. material, age, stories) <input type="checkbox"/> Classification (standard based) Based on standard: <input type="checkbox"/> EuroStat CC <input type="checkbox"/> HAZUS <input type="checkbox"/> Syner-G <input type="checkbox"/> Other: Click here to enter text.
	Sectorial	Loss ownership
	Do you group affected elements by sector (e.g. energy, health, transport, residential) <input checked="" type="checkbox"/> Sectorial approach like ECLAC and Solidarity Fund <input type="checkbox"/> Mapped to national governmental departments <input type="checkbox"/> Other <input type="checkbox"/> No	Do you record who bears the loss in case of damage? <input type="checkbox"/> Systematically <input type="checkbox"/> Ad hoc <input checked="" type="checkbox"/> No Do you include these groups? <input type="checkbox"/> Public <input type="checkbox"/> Individual / business <input type="checkbox"/> Insurance
Comments: Click here to enter text.		