**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-groeve@jrc.ec.europa.eu).

|  |
| --- |
| **Purpose of loss database (See Chapter 3)**  |
| **Applications and use** | **Scale and scope** | **Data assessment** |
| For which **applications** is the database designed?☒ Loss accounting: Click here to enter text.☐ Disaster Forensics: Click here to enter text.☐ Risk modelling: Click here to enter text.Who are the **main users** (ministry, policy, sector)?Click here to enter text.Are you systematically **sharing loss data** with other organisations?☐No ☐With UN ☐With EU ☐With other org’sWhat format or standard is used? (e.g. Excel, SQL, XML)Click here to enter text. | At what **scale (precision)** are you recording data?☐Asset ☐Municipal ☐Regional ☐Nat ☐GlobalWhat is the **scope or coverage** of your database? ☐Asset ☐Municipal ☐Regional ☐Nat ☐Global**What hazard types are covered?**☐All hazards☐A single hazard: Click here to enter text.☐Multiple: Click here to enter text.**Time period covered**☐Historical records (From/to: 19xx-20xx)☐Continuously updated and sustainable☐Sustainability not guaranteed  | **Mandated organisation** to collect dataClick here to enter text.☐Mandated ☐Academic/Project ☐PrivateWhat **techniques** are used to record loss data?☐Desk research (media, government reports)☐(Sectorial) field assessment teams☐Official reporting mechanism (e.g. insurance claims or police reports)☐Remote sensingOther: Click here to enter text.Do you have **well-defined entry criteria**? Which?Click here to enter text.Is there a **quality assurance process**?☐Systematically ☐Ad hoc ☐No**Language(s)**: Click here to enter text. |
| Comments: Click here to enter text. |

|  |
| --- |
| **External references: identifiers ☐ Considered / important** |
| Do you **refer to external database(s)**, and if yes, which one(s)? | If yes, how do you **ensure correct relationships**? |
| ☐Hazard database (e.g. USGS catalogue of earthquakes)Click here to enter text.☐Exposed element database (e.g. cadastre, asset database)Click here to enter text.☐Loss data (e.g. surveys, forensic study, assessment report)Click here to enter text.☐The database is independent. There are no links with other databases | ☐Manual selection of corresponding records ☐Automatic selection |
| ☐Mandatory (in workflow) ☐Optional (only done when possible) |
| ☐We store the corresponding record identifier of external database☐External database uses our record identifier☐Use of common identifier (e.g. GLIDE number)☐Other |
| Comments: Click here to enter text. |
| **Uncertainty handling ☐ 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**? |
| ☐Narrative, description☐Qualitative (e.g. high, low) or Flag (e.g. exact, estimated, uncertain)☐Quantitative metric (e.g. ±5km), range (min-max), statistic (e.g. st.dev.)☐Probabilistic (e.g. PDF)☐Storing multiple values, estimates or versions☐Fixed conversion rules (e.g. 1 family = 4 persons; several buildings = 10)☐Other, specify:e.g. assign to smallest administrative area containing the hazard |
| ☐No, or only in narrative☐For all fields☐For most value fields☐Only for key fields:Click here to enter text. | ☐Hazard database (e.g. USGS catalogue of earthquakes)☐Affected element database (e.g. cadastre, asset database)☐Loss data (e.g. surveys, forensic study, assessment report) |
| Comments: Click here to enter text. |

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