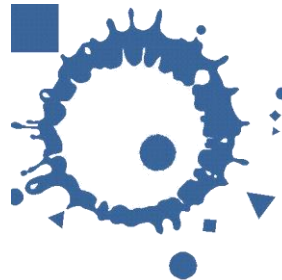


# Update on EM-DAT activities

**TAG Meeting, Washington DC  
24-25 October 2016**

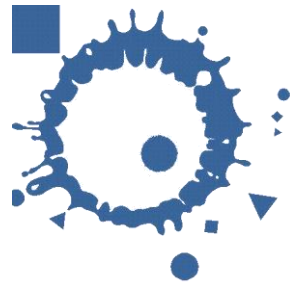
Regina Below – Debarati Guha-Sapir



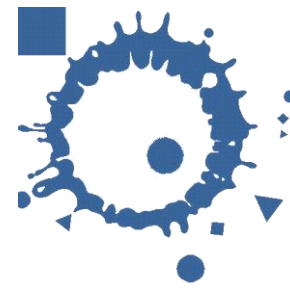
**Centre for Research on the Epidemiology of Disasters**

# **Main outputs/recommendations of the TAG (Dec. 2014)**

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- 1) Involvement in community effort and opening collaborations with institutions (sharing resources)**
  - 2) Role of EM-DAT at national and regional level : model at country level, building a regional hub, and linking EM-DAT with other databases (national and sub-national levels)**
  - 3) Widening the access of data; addressing reliability issue; building analytical interface**
  - 4) Standards and indicators**
-



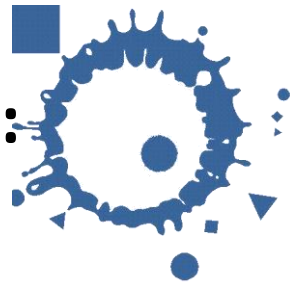
# Main activities

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- 1. EM-DAT maintenance, visibility and usability**
  - 2. Peril definition and classification - Human and economic losses indicators**
  - 3. Geo-referencing of EM-DAT data and mapping interface**
  - 4. Improving disaster data collection at national and regional level**
-

# **1. EM-DAT maintenance, visibility and usability : Where we stand in 2014**

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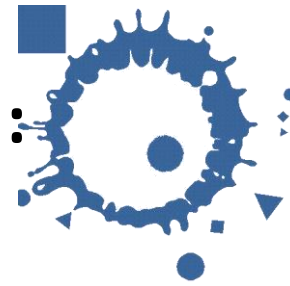
## **Development and completion of the new EM-DAT data entry interface**

- => facilitate data entry and validation process**
- => better control of the system**
- => easier integration with other systems**

**Final aim: Develop futures services and tools for the  
users**

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# **1. EM-DAT maintenance, visibility and usability : what has been achieved?**



## **1. Automatization of additional procedures:**

- Geo-referencing tool**
- Electronic sources archives**
- Data request process**

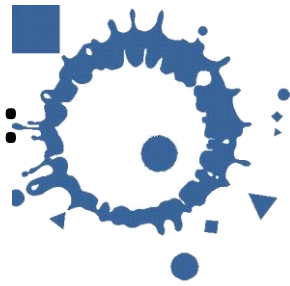


**Data entry interface**

## **2. Search tools standardized ([www.emdat.be](http://www.emdat.be))**

## **3. Visibility : Facebook and Twitter**

# **1. EM-DAT maintenance, visibility and usability : what has been achieved?**

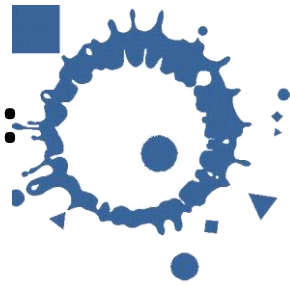


## **3. Visibility : Production of documents**

- **CRED Crunch newsletter**
- **Articles in scientific magazine**
- **Annual Disaster Statistical Review**
- **Statistical Annex - World Disaster Report (IFRC)**
- **Special reports (UN-IDSR)**
  - **Human cost of natural disasters**
  - **Human cost for weather related disasters (Cop-21, Dec.2015)**
  - **Poverty and death: Disaster mortality (World Disaster day, Oct.2016)**
  - **Brief on Tsunami (Tsunami day, Nov. 2016)**
- **Contribution notes (Global Sustainable Report)**
- **Press conference (UN-ISDR)**

# **1. EM-DAT maintenance, visibility and usability : Ongoing and future plans**

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## **1. Maintenance database & development of web powered tools**

## **2. EM-DAT usability**

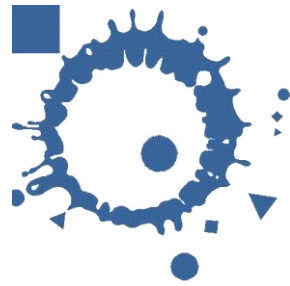
**User survey : Improving of search options tools and review the open data access policy ; Have a better tracking of the use and users of EM-DAT**

## **3. Agreements with specialized institutions : improve the quality of data, sharing resources and linking databases**

**Some initiatives : UGSG: Geological disasters; NASA: Flood and drought ;  
Smithsonian Institution Global Volcanism program: Volcanoes; Next : Others  
partners (i.e. DFO, floods)**

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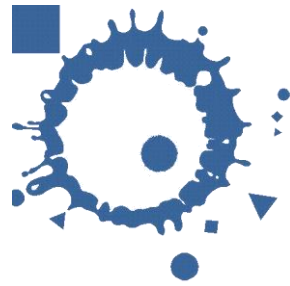
# **Example of a collaborative initiative: CRED/EM-DAT and USGS/Pager**



- **Difficulties to associate earthquakes from the two data-sets**
- **EM-DAT : 1300 earthquakes reported**
  - Missing value : 70% local time, 20% magnitude, 13% Lat/long, 0.5% localisation**
- **Filling the data gaps : temporal and geographical information + magnitude**
- **Adding new fields: Epicenter, ID number of USGS database**
- **Refining the data entry methodology**
- **Exchange on the impact information**



## **2. Peril/disaster definition and classification, human and economic losses indicators: what has been achieved?**



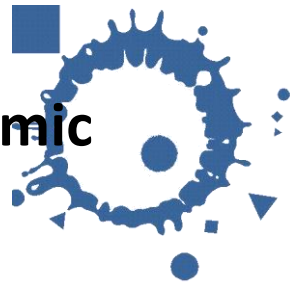
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**Within the IRDR (Integrated Research on Disaster Risk) Data Group:**

- 1. Disaster/peril classification and definition: final version and integration**
  - 2. Human and economic losses indicators: guideline**
-

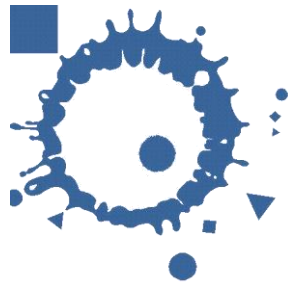
## **2. Hazard definition and classification, human and economic losses indicators: ongoing and future plans?**

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- 1. Retrofitting of historical data**
  - 2. Creation and integration of new indicators**
-

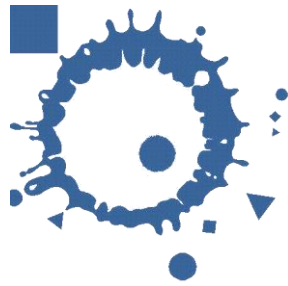
### **3. Geo-referencing of EM-DAT data and mapping interface: what has been achieved?**



- 
- 1. Geo-referencing of the impact (footprint) of natural disasters (biological excluded)**
  - 2. 2000-ongoing**
  - 3. Over 6000 entries**
  - 4. Admin 1 and Admin 2 levels**
-

**3. Geo-referencing of EM-DAT data and mapping interface: what has been achieved?**

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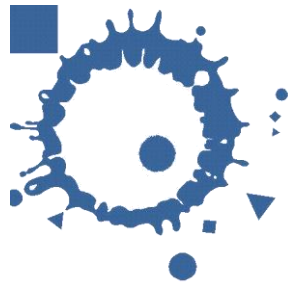


**5. Geo-referencing tool integrated into data entry interface**

**6. Methodology/protocol**

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### **3. Geo-referencing of EM-DAT data and mapping interface: ongoing and future plans**



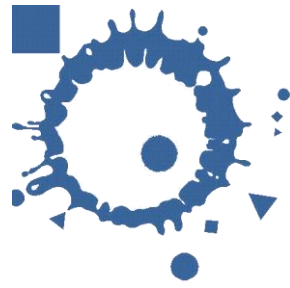
#### **1. Statistical analysis on the geo-referenced data and filling the gaps**

**=> Looking for new tools, source of information, expanding collaborations**

#### **2. Development and implementation of a mapping and query interface for the geo-referenced EM-DA data**

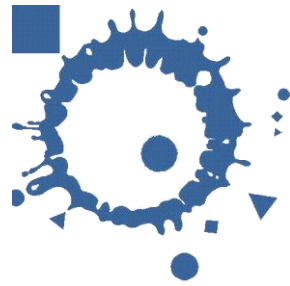
**=> Developing the web-tools to use and apply the geo-referencing work and develop refined products for the users**

## **4. Improving disaster data collection at national and regional level: Involvement in the past**



- **Study on ‘Strengthening the quality, reliability and sustainability of national and regional disaster database’ : 6 Asian countries, identify strengths and weaknesses in national and sub-national databases**
- **Expert Consultation on Sustainable disaster databases for South and Southeast Asia, Bangkok (2012), OFDA/World Bank**

## **4. Improving disaster data collection at national and regional level: Activity description**



**Goal: Strengthen the capacities of national and regional authorities to collect more accurate disaster data**

**Final outputs:**

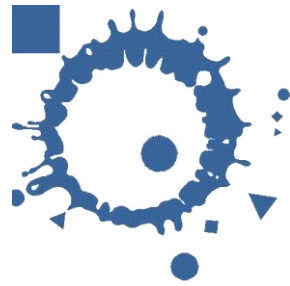
**(1) Set of data collection guidance documents, protocols for data validation**

**(2) Regional workshops**

**(3) Development of software for data management including a complete guideline and training**

**=> Concrete case-studies from which results and recommendation will be used at a regional level**

## **4. Improving disaster data collection at national and regional level: Ongoing and future plans**

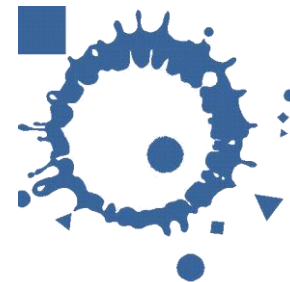


- **Case-study (1) Typhoon Haiyan, Philippines**

**Aim : have a better estimations of the demographic proportions among victims in future disasters and define better survival times and morbidity patterns**

- **Two other cases studies (to be chosen)**
- **Starting discussion for the Regional Data Hub (UN ESCAP)**





**Thank you!**

**[www.emdat.be](http://www.emdat.be)**