



GAR in the last 5 years

• Statistics of downloads

Report	2012	2013	2014	March 2015 to July 2015
GAR09	~27,000	~20,000	~23,000	N/A
GAR11	~48,000	~58,000	~33,000	N/A
GAR13		~90,000	~120,000	N/A
GAR15 + pocket GAR				~170,000
Total downloads	~75,000	~170,000	~178,000	~170,000

- GAR09, GAR11 and GAR13: 4 languages (English, French, Spanish, Arabic)
- GAR15: 6 languages (+ Russian, Chinese)
- Pocket GAR15: 7 languages (+Japanese)
- + 30 GARs launches



G∀R

- 12 Technical partners with direct contributions
- 6 Hazards are covered: flood, earthquake, cyclone wind and storm surge, tsunami, volcanic eruption, drought
- Probabilistic Hazard modeling of 5 hazards at global scale
- Probabilistic risk modeling using CAPRA software FEWS NET
- Same arithmetic for all hazards and territories enables comparison
- Datasets and results including national risk profiles will be openly available
- Tangible Earth platform



Global Risk Model



A risky world



Expected future disaster losses annualized over the long term



Fiscal resilience challenged



Potential financing gaps for a 1 in 100 year loss



An opportunity cost for development



The risk to social progress, stability and economic development



SIDS: an existential threat



Average annual loss as a proportion of social expenditure, capital investment and capital stock: top 15 countries



Climate change magnifies risk



Total increase of AAL with climate change to 2050 = US\$ 1.4 billion

The increase in annual average loss due to wind damage in the Caribbean by 2050 as a result of climate change



Climate change in agriculture drought



(Source: Jayanthi, 2014.)

Total amount of AAL and PML of 100 year of mean return period with and without climate change

The increase / decrease in annual average loss due to agricultural drought in the Niger, Malawi and Kenya by 2035 as a result of climate change



The future of the global risk model of GAR15

- **GAR Atlas: the Hidden Veins of Global Disaster Risk.** Launch May 2017 at the Global Platform for DRR, Cancun.
- Improvement of the global exposure information
- Global probabilistic risk assessment of the agriculture sector: 2017 2020
 - Drought, flood, wind
 - Agricultural losses
 - Impacts on food systems, national and local economies
 - Global impacts on markets and food security, complex systems modelling

This scoping meeting is the first step of that process.







#gar15

