

EVIDENZ

Earth Observation based information products for drought risk reduction on the national level

EvIDENz Workshop

4th June 2018

Pretoria, South Africa















Project call

- EO methods to support international initiatives and conventions
- Scientific methods for innovative information products and services
- Support preparations to bring German and European satellite missions into use
- Results shall contribute to monitoring systems
- Methods shall allow use in developing and a transition countries
- Links to Capacity-building activities









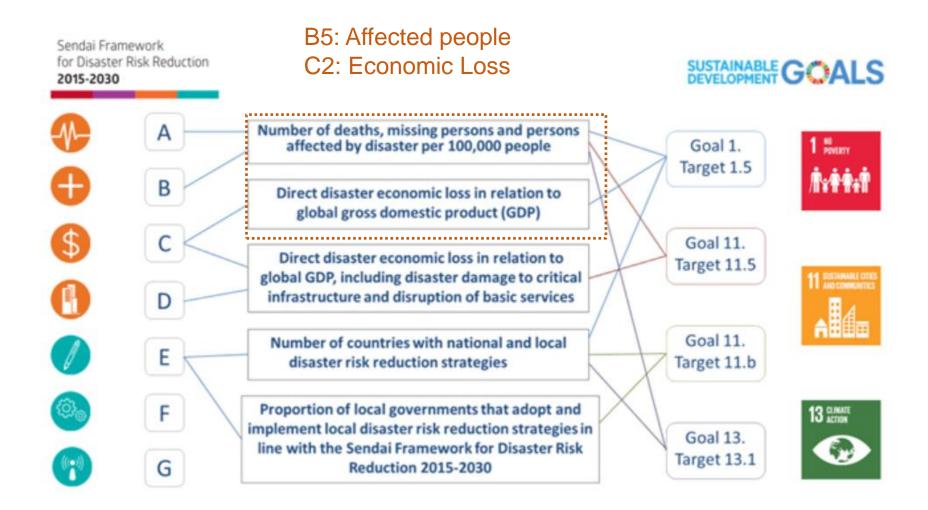








SDGs and SFDRR

















The EvIDENz-Framework

A: Schematic representation of EvIDENz elements

UN-SPIDER International **Conventions**

and Initiatives

National level implementation

EVIDENZ

Drought hazard indicators

Input data

SFDRR

"Priorities for Action" Goal and targets

SDGs

Goals, targets, indicators

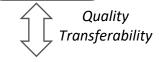
UNFCCC

Measures/ Goals of NAPAs

National Needs

- Disaster and Risk Management Knowledge on Needs









Development of Products to address the Sendai Indicators

- People and livestock 1. affected
- 2. **Economic loss**
- 3. Drought hazard monitoring: extent, intensity and frequency
- Agricultural exposure, vulnerability and risk
- 5. **Drought classification**
- 6. Recommended practices

Satellite Sensors

- Sentinel 1 & 2
- AVHRR
- MODIS
- Processing chains: Hazard, Exposure

ZFL

Socio-economic

- Statistics (incl. Agriculture)
- Census data. ADP*
- Method: UNU-EHS Vulnerability and
- Risk assessment
- *Agricultural dependent population















EVIDENz Stakeholder Workshop – East London 2nd and 3rd Nov. 2016

- Meteorological drought assessment well developed
- Agricultural and socio-economic drought and impact characteristics not so well developed
- Sendai framework implementation in very initial stages
- Transition from response-based disaster management to risk reduction
- integration of vulnerability aspects and assessment of Sendai framework indicators were stated as specific needs and gaps
- More inter-institutional cooperation and capacity development is needed









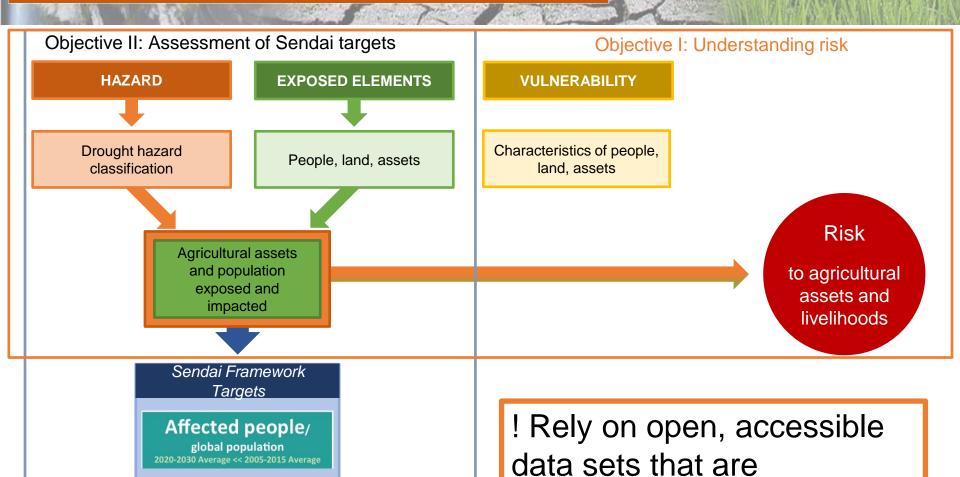








2. EvIDENz approach







Economic loss/

2030 Ratio << 2015 Ratio







national level!



representative for the



Acknowledgements

We would like to acknowledge:

BMWi for funding the EvIDENz project

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