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The role of risk perception and behaviour in local resilience assessments

Risk PACC 1st Awareness Workshop, Brussels 27 June 2022 Karsten Uhing, Fraunhofer IML



A new local reality



Systemic reliability is no longer dependable!



The local level is increasingly exposed to the unexpected!





EU member-states are in the middle of a paradigm shift <u>From Risk to Resilience Thinking*</u>

How does this translate to the local level?



*In line with Sendai FWA and the Agenda 2030

4 local steps to assess local resilience











The concept of Local resilience can be broken down into in 6 **Dimensions!**

For these Dimensions LOCAL DATA needs to be:

- collected
- operationalised
- interpreted







RESILOC Inventory (DIP Framework)



At the baseline of research the DIP Framework had:

- DRR: 13 indicators, 55 proxies;
- Economic: 9 indicators, 32 proxies;
- Environmental: 17 indicators, 58 proxies;
- Governance: 8 indicators, 30 proxies;
- Infrastructure: 16 indicators, 60 proxies;
- Social: 7 indicators, 25 proxies.



Localiszing Resilience Assessments

Assessing local resilience requires Resilience Indicators that reflect a local reality!

- 1) Indicators need to be useful/understood \rightarrow
- 2) Indicators need to be usable
- Local Resilience Teams (LRTs) need to be involved in:
- Scenario Building
- Selecton of Resilience Indicators
- Localization of Resilience Indicators



 \rightarrow





Local context

Data avalability







1) Direction

In which direction is the Indicator measured to describe an increasing contribution towards community resilience?



Determining Local Resilence Indicators

dicator



How relevant is a Resilience Indicator Proxy in a local context?

100



אוֹג RESILOC



Determining Local Resilence Indicators



Which value is required in a local context?



🕷 RESILOC 🌔

Output from the RESILOC Platform



2022-01-24 21:14:12 (UTC), M4.4 - Senggigi, Indonesia



2022-01-24 21:14:12 (UTC), M4.4 - Senggigi, Indonesia

trans

Water

radio .

nobil.

(what if v1.0) social co GIBSE (B) labou labou. trans Economic water Economic RESIL RESIL ... easy radio easy. mobil. disast. Sofd. Busiconnont Environne Sorb land use land use. multi-sta. multi-st.

Local Communities are empowered to assess their





The RESILOC solution is currently trialled and validated

Village

Tetovo – Bulgaria





West Achia – Greece **Municipality/Region**



Where is the link to Risk PACC?







Thank you for your attention



Visit us at: https://www.resilocproject.eu/



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