

Developing a resilience assessment tool for the Lisbon Region



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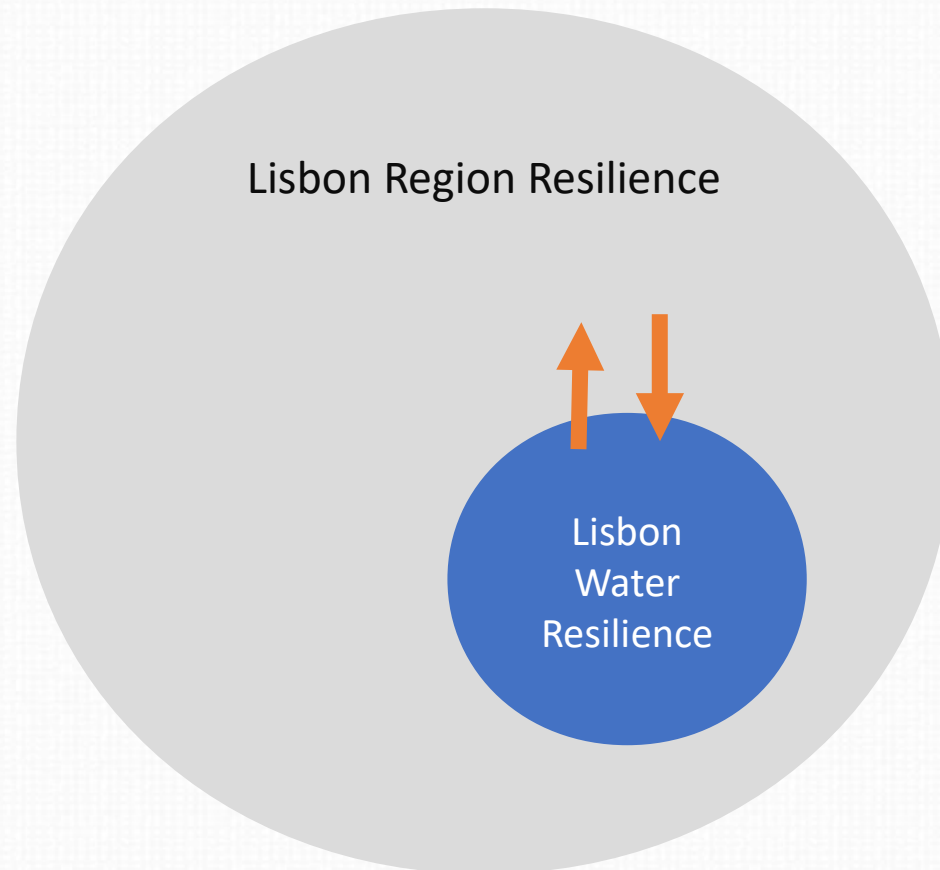
International affairs

Challenge

“The lack of a resilience monitoring tool for the Lisbon Region”

Agenda

1. **Preliminary Resilience Index**
2. Water Resilience Assessment Model



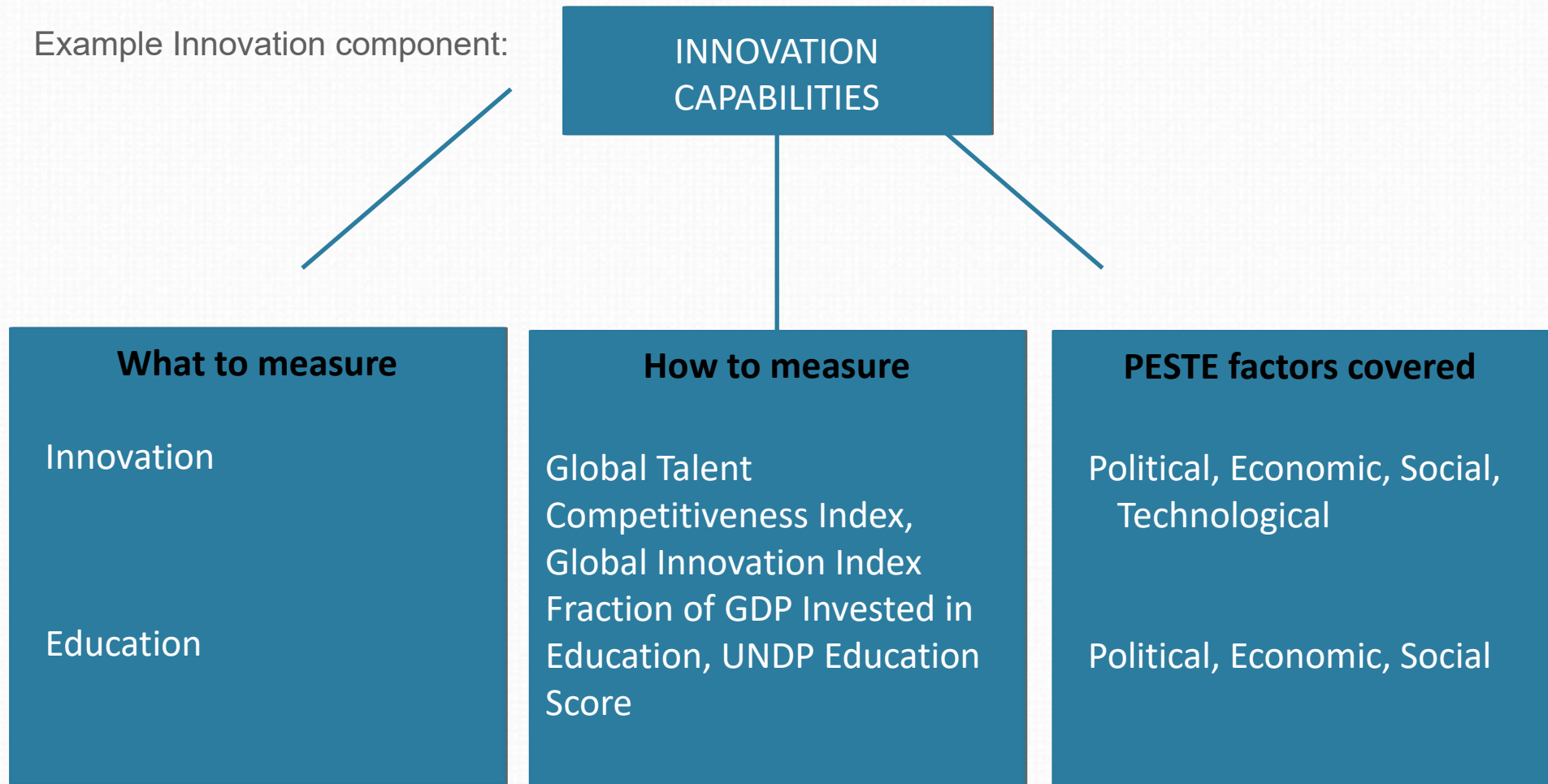
Resilience components	Definition
Resistance	How resistant the system is to change; the difficulty of changing the system.
Adaptability	The social-economic features that allow for necessary change.
Innovation capabilities	The contributions that society makes in changing the structures of local and global systems through innovations.
Disruption Elements	Definition
Disasters	Disasters in the region, for example natural disasters like floodings and forest fires.
Conflicts	Conflicts in the region, for example between different social groups.
Economic pressure	Pressures from economic factors, for example an economic crisis.

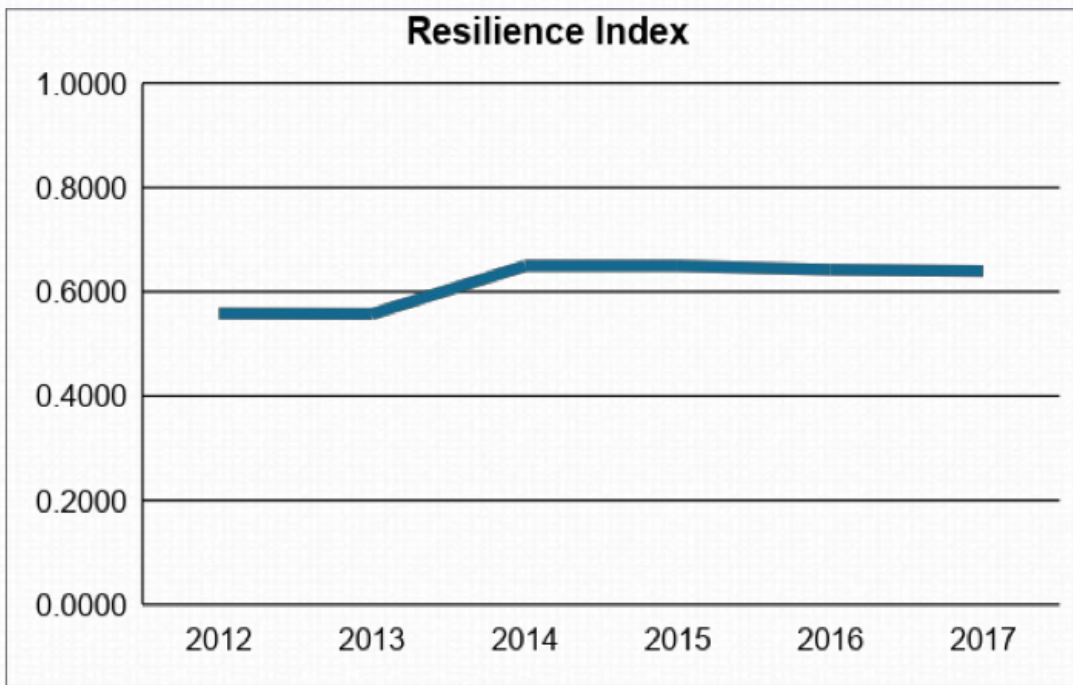
Holling (1973), Walker, Holling, Carpenter & Kinzig (2004)

Structure of Index Components

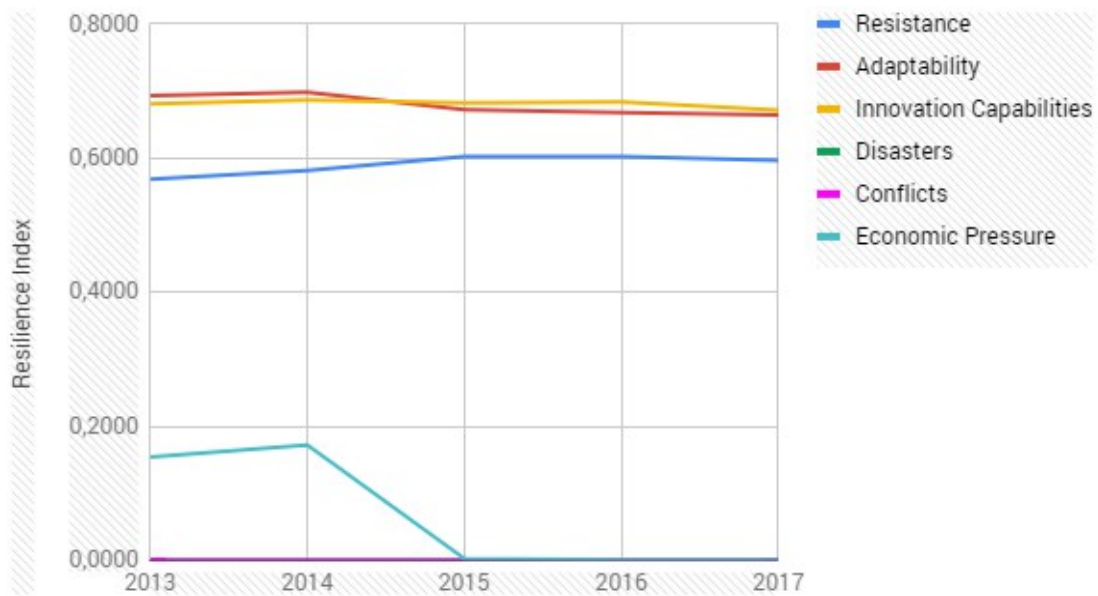
- All index components consist of sub-components that reflect what we want to measure within this component

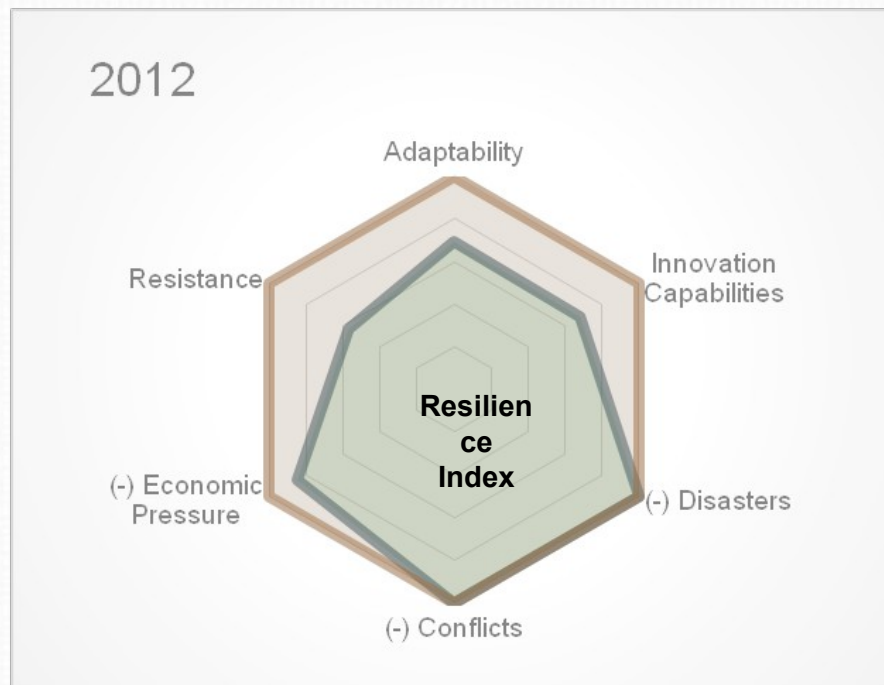
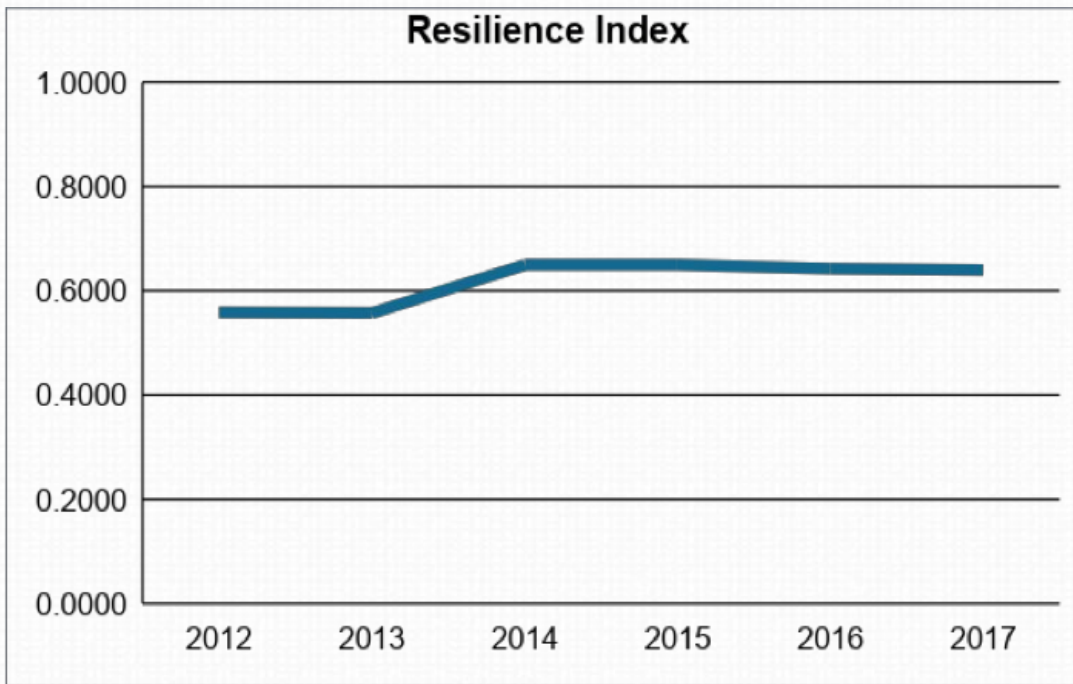
Example Innovation component:

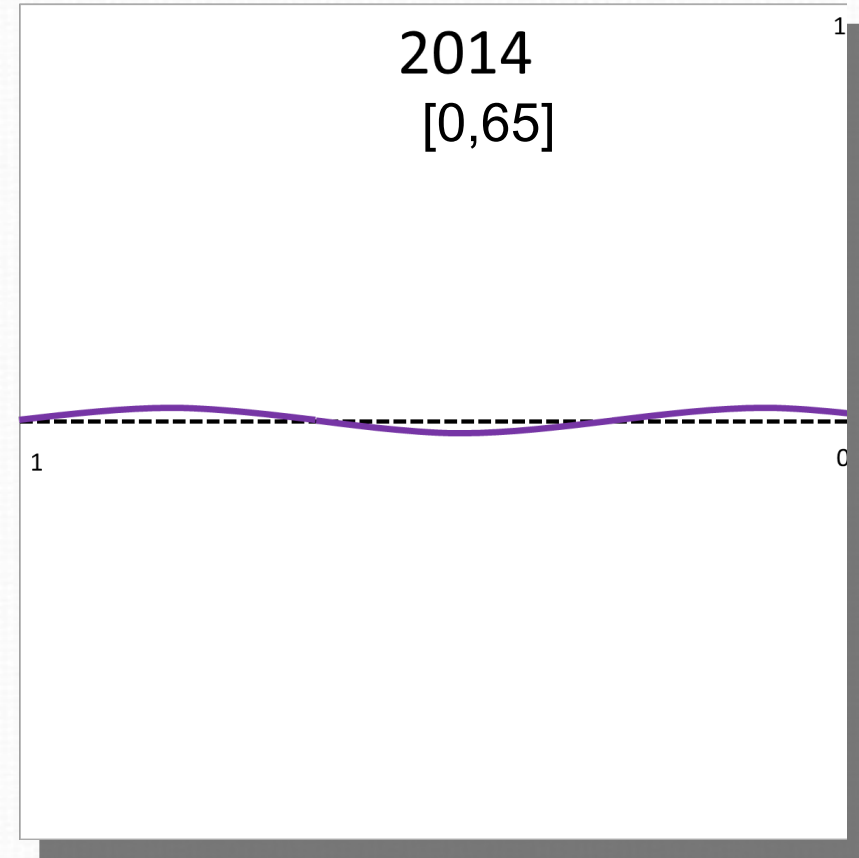
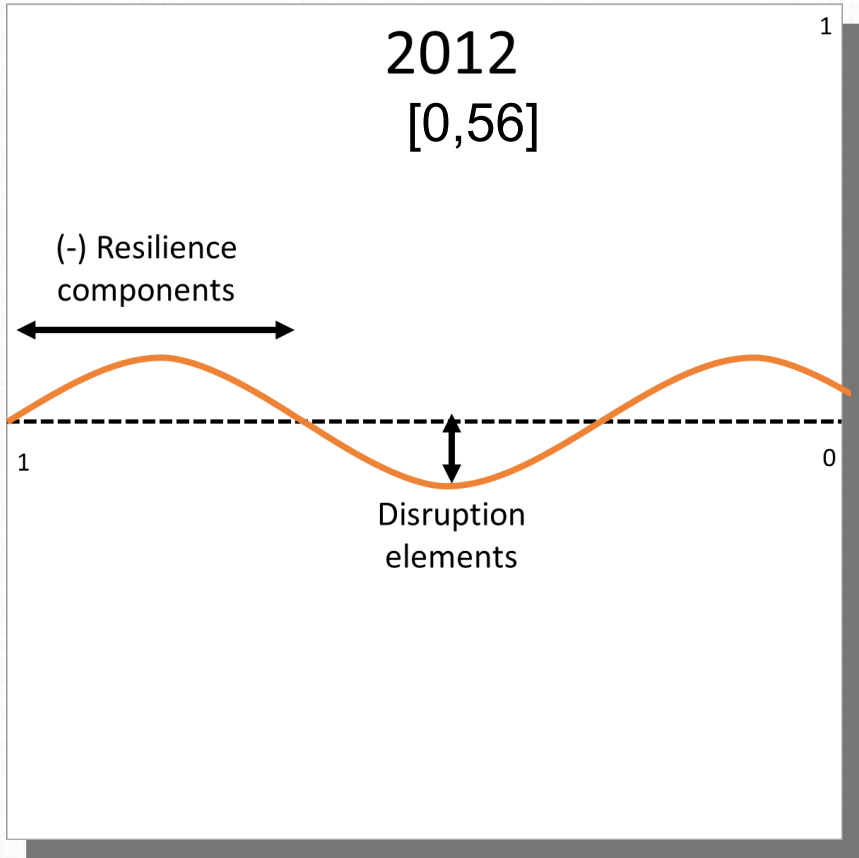




Resilience Index per component







Insights

- Metabolic representation
- Easy to communicate

- Effortless yearly update
- Potential for automated tool

Thank You