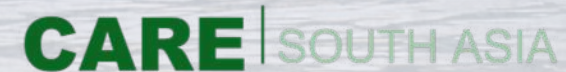


PLANNING WORKSHOP ON Impact-Based Forecasting and Climate Services

21–24 January 2025 | Bangkok, Thailand

Decision Support Systems and the Link to IBF

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Background

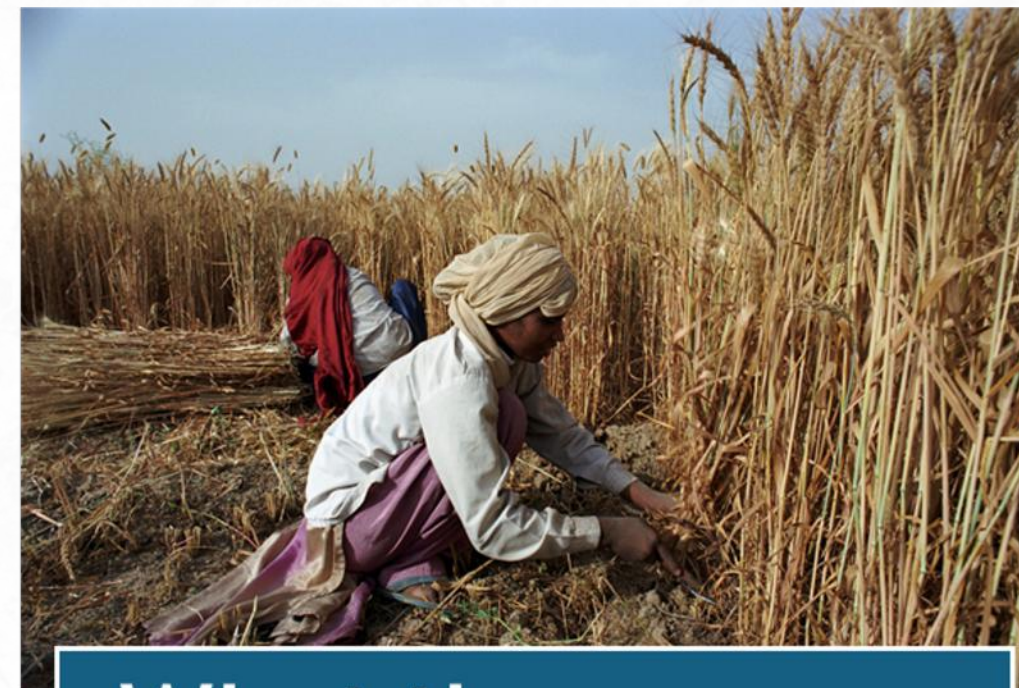
Weather systems impact citizens - across all aspects of society - everywhere in the world - all the time to a minor or major extent.



What the weather will be



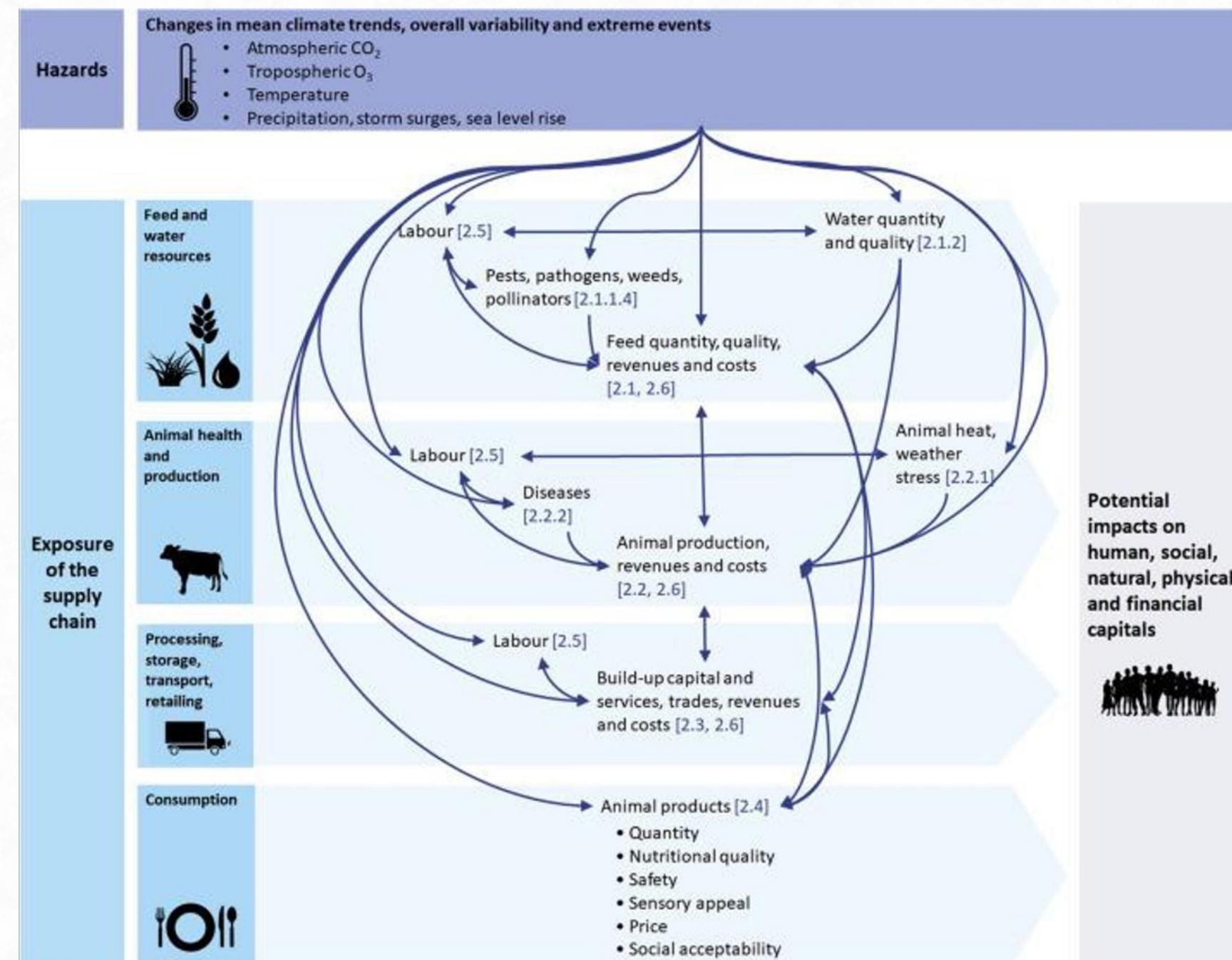
What the weather will do



What the *person* should do

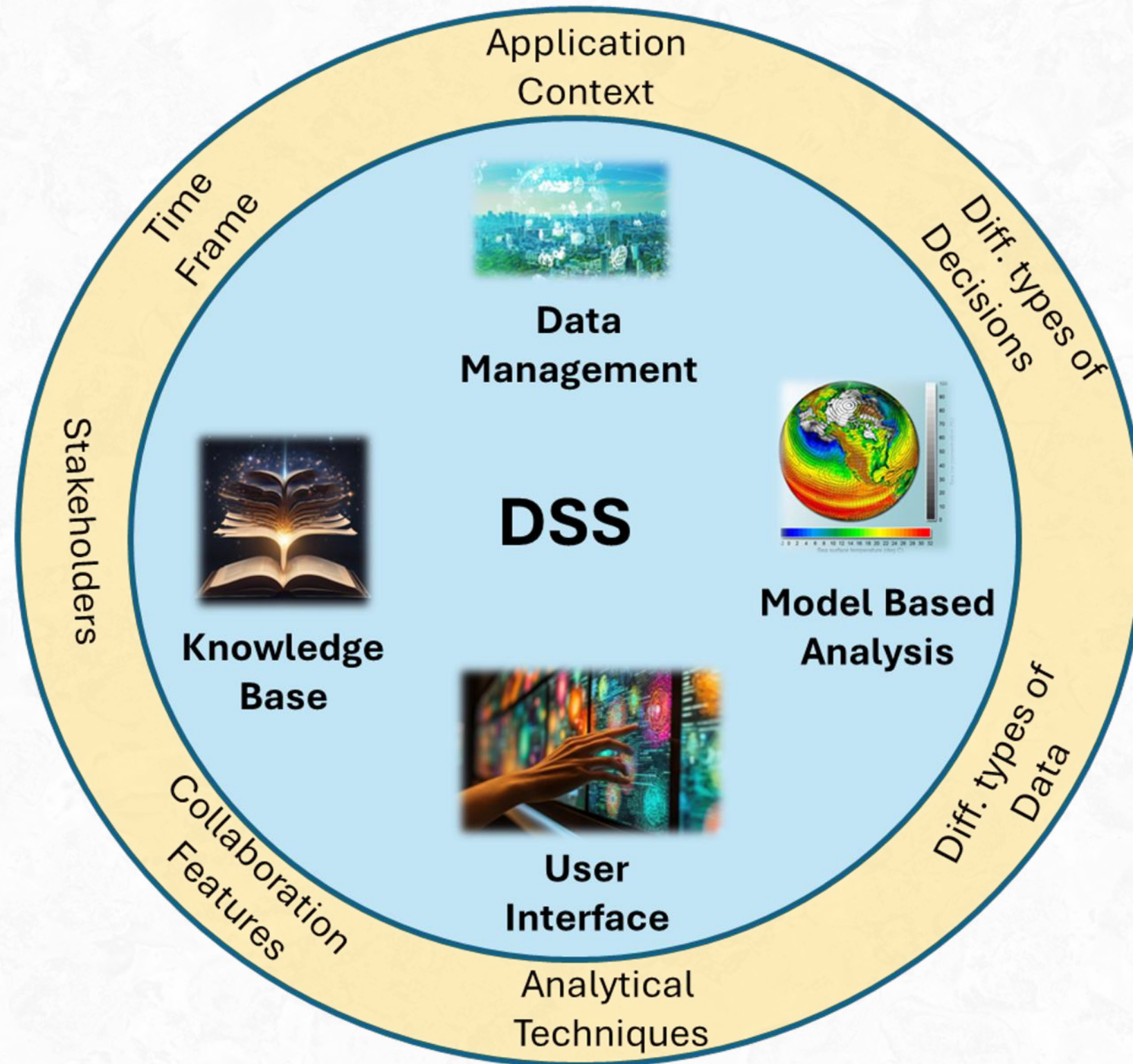
Background

- Wide array of decisions
- While many decisions are straight forward, constantly new scenarios emerge and need to be evaluated
- Complex interactions to be considered in decisions (e.g. multi-hazard interactions)
- The temporal context matters



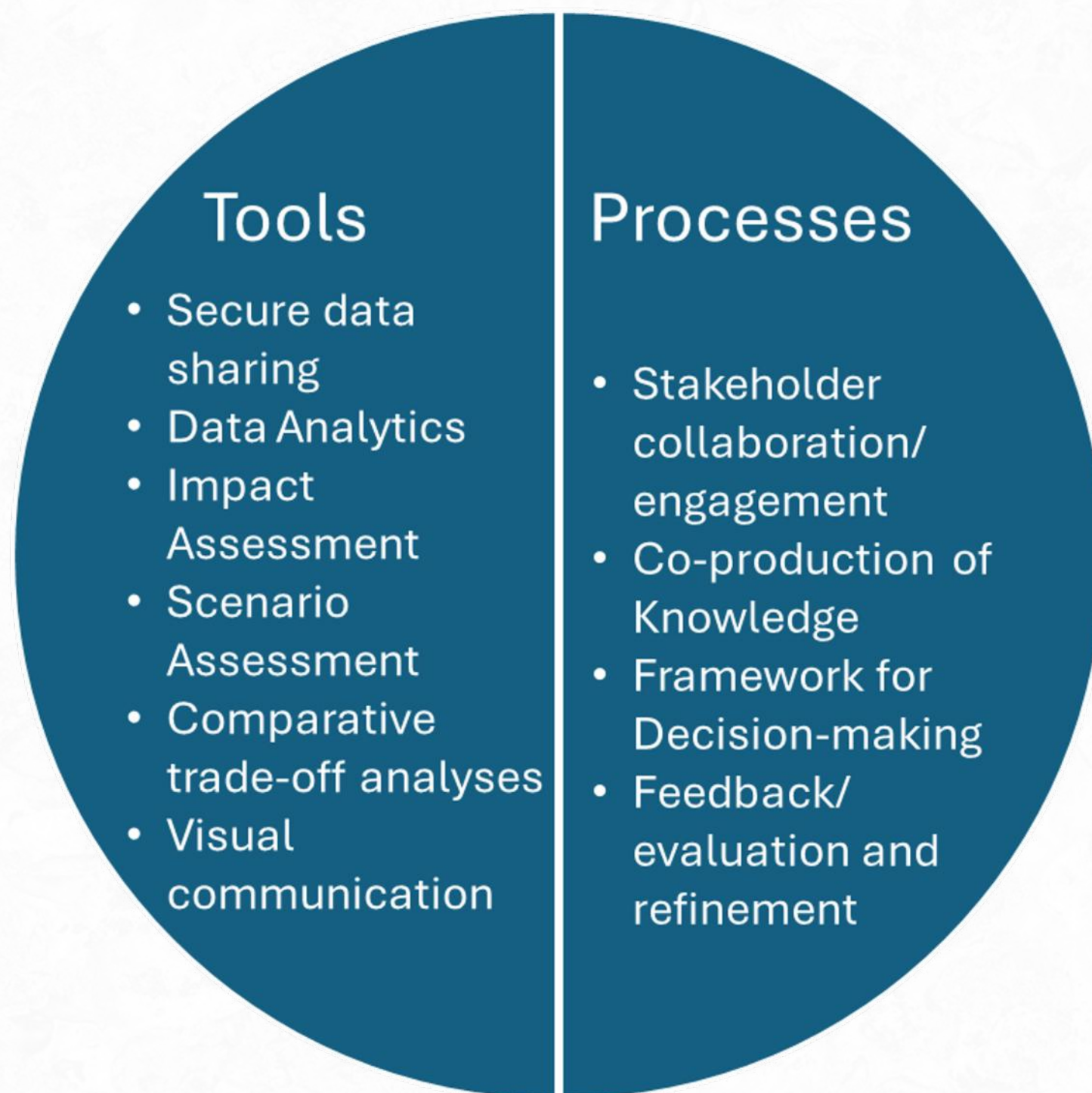
<https://www.sciencedirect.com/science/article/pii/S2211912420301413>

Decision Support Systems



DSSs are computer-based information systems that help to analyse data, provide insights and support decision-making activities.

Decision Support Systems: Tools & Processes



Decision Outcome:

- Enhanced understanding of the problem and potential solutions;
- Discussion/consensus on interventions

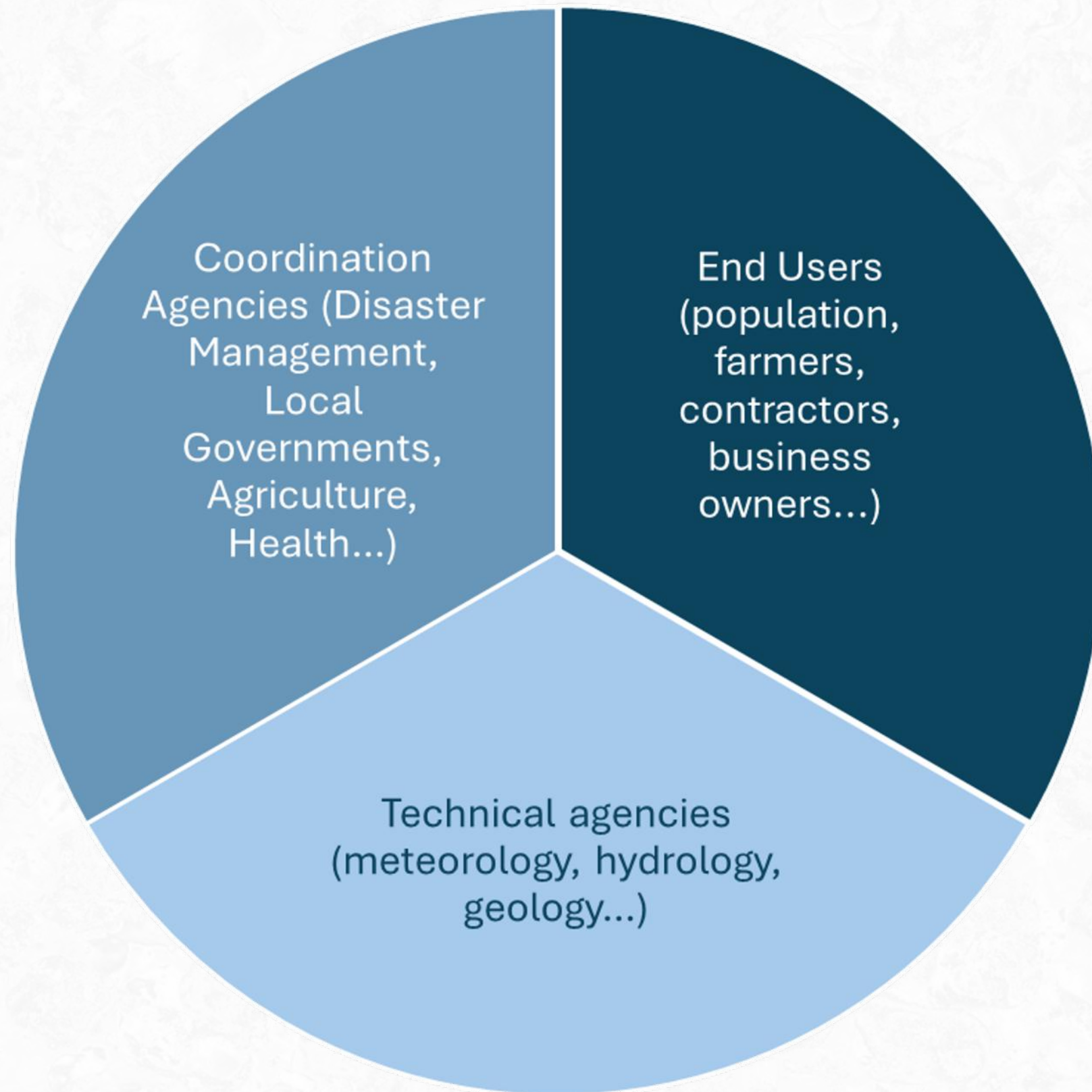
Process Outcome:

- Enhanced relationships, trust and communication among stakeholders

Overall Outcome:

- Effective Decision Making

Decision Support Systems: actors



Opportunities DSSs offer for wider use of hydromet information and forecasts

- DSSs as tool facilitate interactions/collaboration among technical agencies, coordination agencies and end users.
- Everyone contributes their data/information and their knowledge/expertise.
- DSSs allow the user to manipulate data and ask / analyze complex questions.
- DSSs allow everyone – including end users - to provide inputs/feedback.

Strengthening of DSS in the context of SAHF

A proposal to the “Climate Risk and Early Warning Systems - CREWS” Global Initiative has been prepared by WB, WMO, RIMES and UNDRR – currently with the SAHF Executive Council for review and endorsement



One key activity: Establishment of a Virtual Regional Platform for hydromet-informed DSS:

- The region has already many successful examples of DSS (Tamil Nadu System for Multi-Hazard Potential Impact Assessment, Alert, Emergency Response Planning and Tracking TN-SMART, Mobilise in Sri Lanka, the Krishi DSS in India, an aquaculture DSS by IWMI etc.)
- What can we learn from each other?
- Can we collaborate and align our activities to create synergies and achieve a greater impact in the region?

Strengthening of DSS in the context of SAHF

Establishment of a Virtual Regional Platform for hydromet-informed DSS to:

- establish exchange and collaboration among all interested actors active in this field, including WB, RIMES, SAHF, WMO, IFRC, University of Salford, ICIMOD, ESCAP, UNDRR, IWMI, WFP, ADPC etc.
 - extract lessons learnt and develop blueprints/frameworks that can be implemented at the country and subnational level for the co-creation, experimentation and validation of DSSs
 - establish a regional DSS for training and experimentation purposes enabling government officials (technical and decision-making levels) to better understand the opportunities DSS offer
- Close collaboration with the IBF activities being planned in this workshop



Thank you