UNIVERSITY OF TWENTE.

DEPARTMENT OF URBAN AND REGIONAL PLANNING AND GEO-INFORMATION MANAGEMENT (PGM)

Johannes Flacke

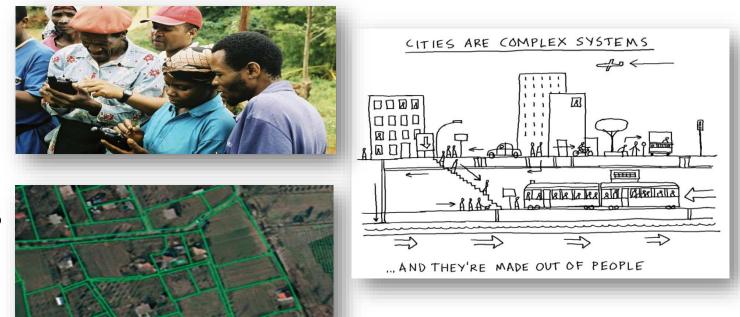
Mini Symposium on Sustainable Research Software Development for Geo-Information Science and Earth Observation 17 November 2022



FACULTY OF GEO-INFORMATION SCIENCE AND EARTH OBSERVATION

PGM RESEARCH THEME PLUS

- People
- Land
- Urban
- Systems





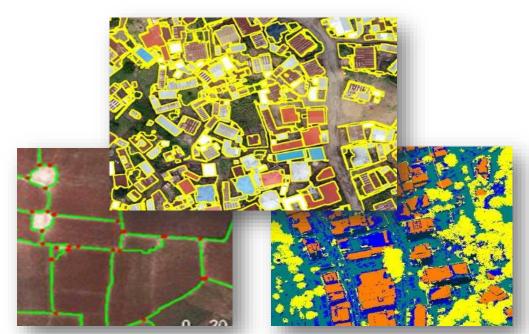
OUR RESEARCH

- Spatial and temporal dynamics within complex urban regions and their hinterland;
 - Current situation, transformation processes, and future trajectories of land/urban systems
 - Interactions between people, land tenure and land uses, and urban systems, over time;
 - Human needs and behaviour
- Participatory and inclusive planning and decision-making
- Socio-spatial equity; climate change and disaster impacts; sustainable development;



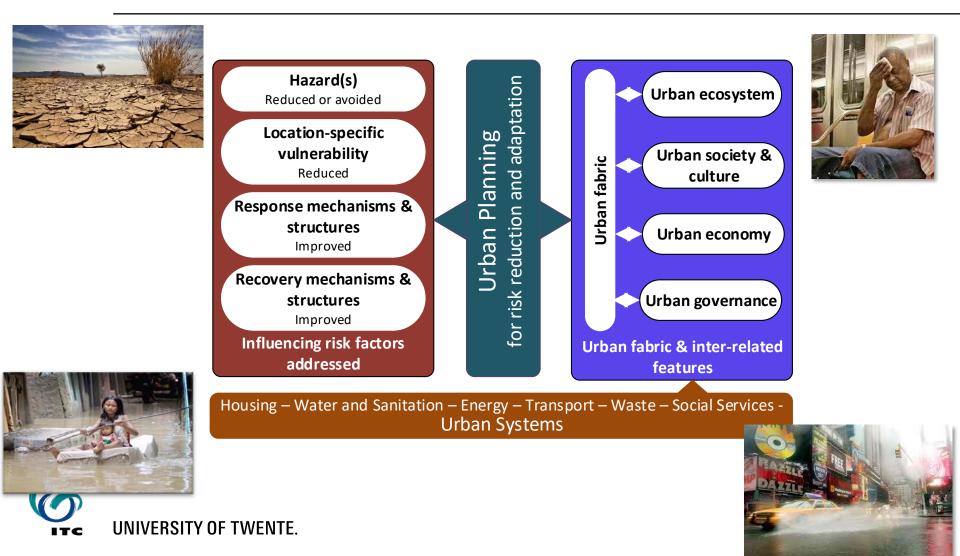
RESPONSIBLE LAND ADMINISTRATION AND LAND INFORMATION MODELLING

- How to combine geo-ICT and institutional arrangements for land tenure
- Automation in feature extraction, tailored geo-ICT solutions, crowdsourcing, blockchain, ..)
- Fit-For-Purpose approach (time, money, quality)
- Community participation and government acceptance
- Impact

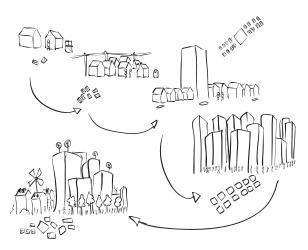




HOW CAN URBAN PLANNING CONTRIBUTE TO DISASTER RISK REDUCTION?



Sustainable Infrastructure – Infrastructuring











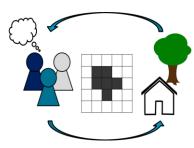
Advanced Geo-I & EO for Collaborative Planning



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Human environment interactions in cities





How do we consider the environment in our land-use decisions?

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