

Research topic: *Urban vulnerabilities: mapping socio-ecological hotspots in the city of Oslo*

Research line: environmental justice, multicriteria analysis

Research group: **URBAG** Integrated System Analysis of Urban Vegetation and Agriculture

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Social-ecological vulnerabilities are the exposure to social and environmental risks, in combination with the capacity of groups or ecological systems to adapt to changes in their environments. Its distribution responds to two main factors: exposure, referring to the extent to which beings and places are open to harmful events (e.g., areas with higher probability of sea-level rise), and sensitivity, which describes the degree to which beings and places can be distressed by harmful events (e.g., children living in areas with higher probability of sea-level rise). Vulnerability analysis will consider these aspects to provide a picture of the state of the urban environment in order to enhance the efforts for the improvement of sustainability, resilience and equity

Supervisor:
David A. Camacho (ICTA)

Main aim: to produce vulnerability maps for the Oslo municipality region, considering social and ecological indicators.

MAIN TASKS:

- Revision of indicators depicting relevant urban risks in the Oslo Municipality
- Compilation of geo-graphically explicit datasets depicting selected indicators
- Mapping of indicators using geographic information systems (GIS)
- Aggregating maps based on weighted indicators