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Global Development Assistance

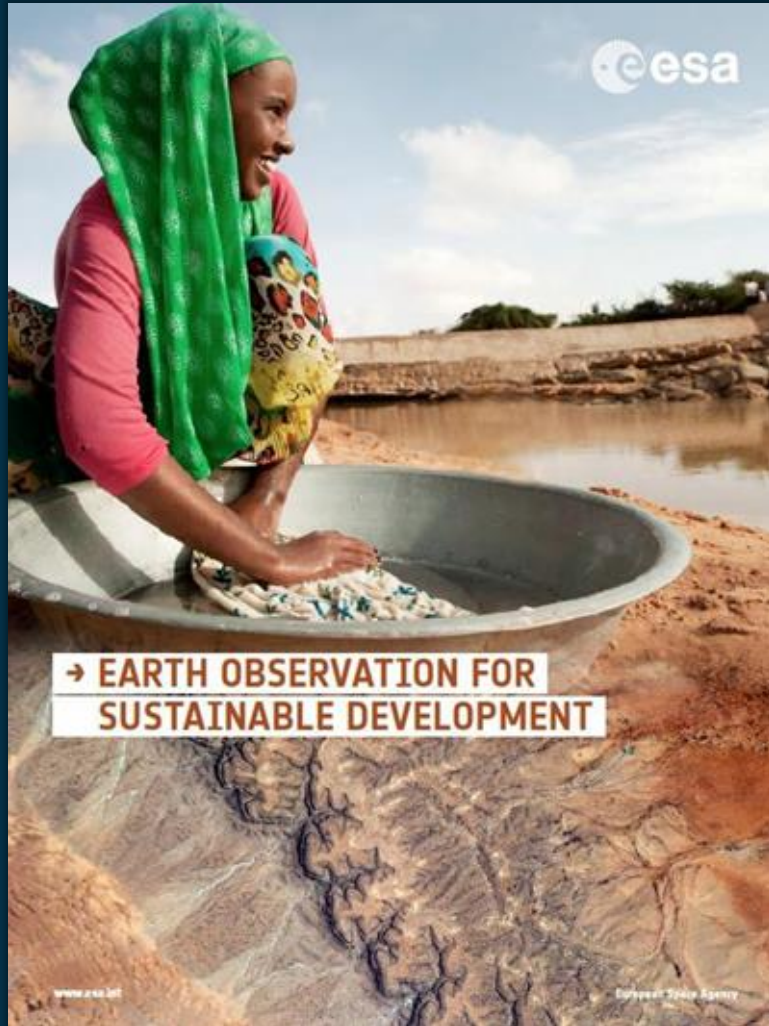
EO tools for Urban Infrastructure



Alex Chunet

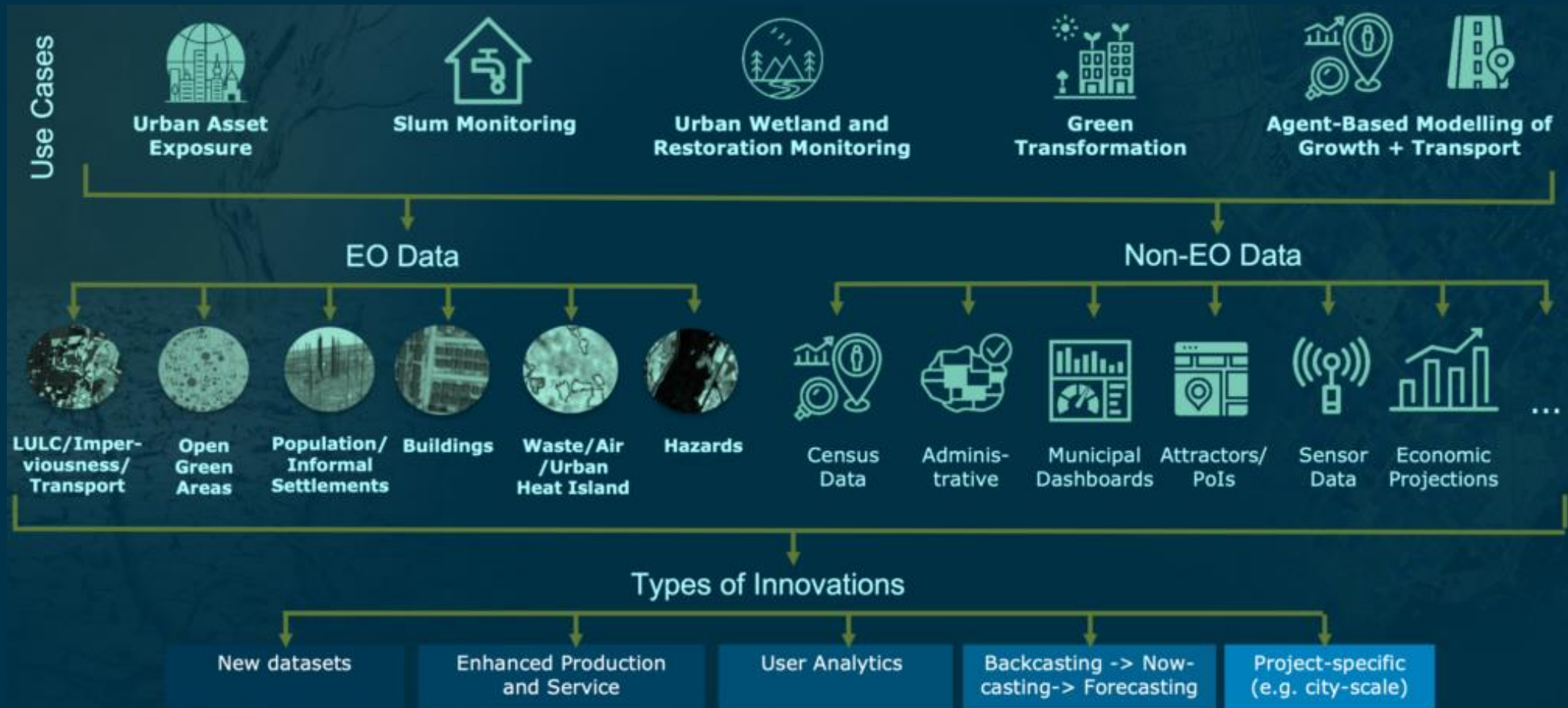
European Space Agency





- **eoworld:** 2008-2015
Small-scale demonstrations of EO services in support of IFI projects to **raise awareness**
- **EO4SD:** 2016-2024 including **EO4SD - Urban development**
Consolidation of requirements and strategic engagement of development stakeholders to **build capacity** on EO services
- **GDA:** 2020-2027 including **GDA Urban Sustainability**
Mainstreaming of EO into development operations and financing, and **skills transfer** to IFI and client state stakeholders

Summary of Urban EO Information and Use Cases



Supporting wetland restoration in Rwanda

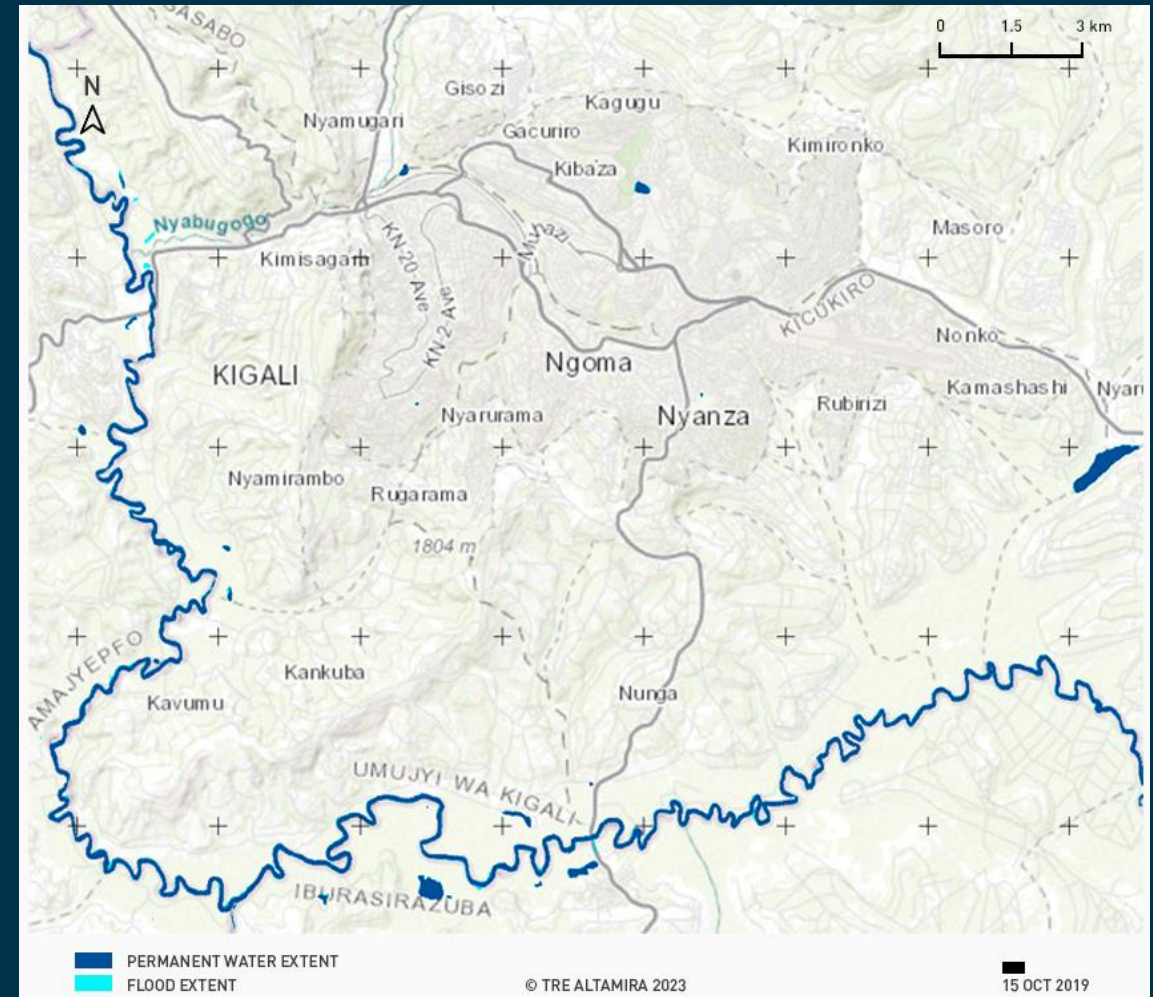
Urban Wetlands can **mitigate the effects of flooding** by absorbing storm water and reducing the likelihood and severity of flooding.

Where Earth Observation can help:

monitoring the qualitative and quantitative changes of wetlands



assessing efficient spending and progress on wetland and conservation restoration



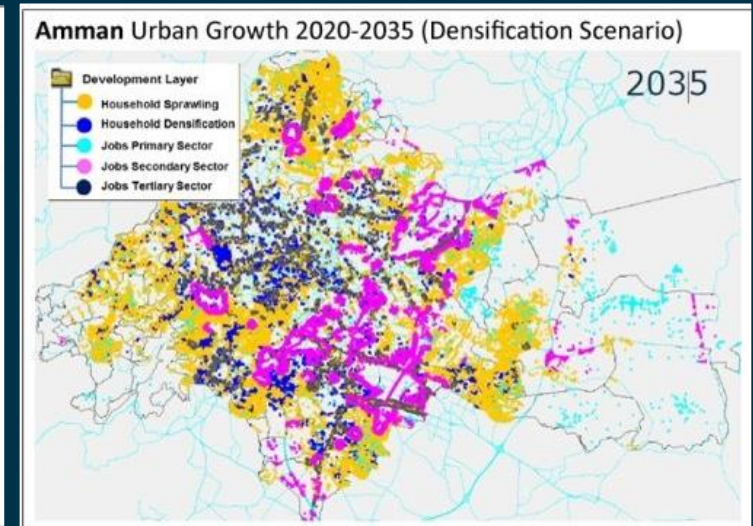
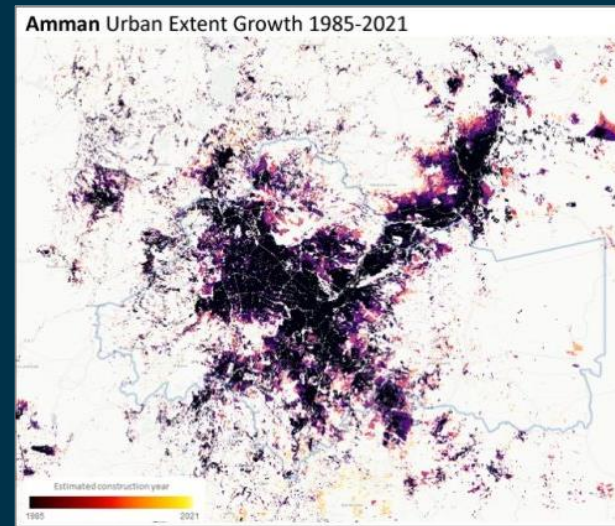
Evidence based-planning for urban sustainability in Amman, Jordan

Providing city-wide assets monitoring to feed into an **Agent-Based Model (ABM)** to support the assessment of various development scenarios by:

→ providing a suite of **baseline products** (land use land cover, settlement extent, percent impervious surface, green areas)

→ **integrating economic indicators** (such as land use prices and development zones)

EO can feed into enhanced city-wide urban monitoring

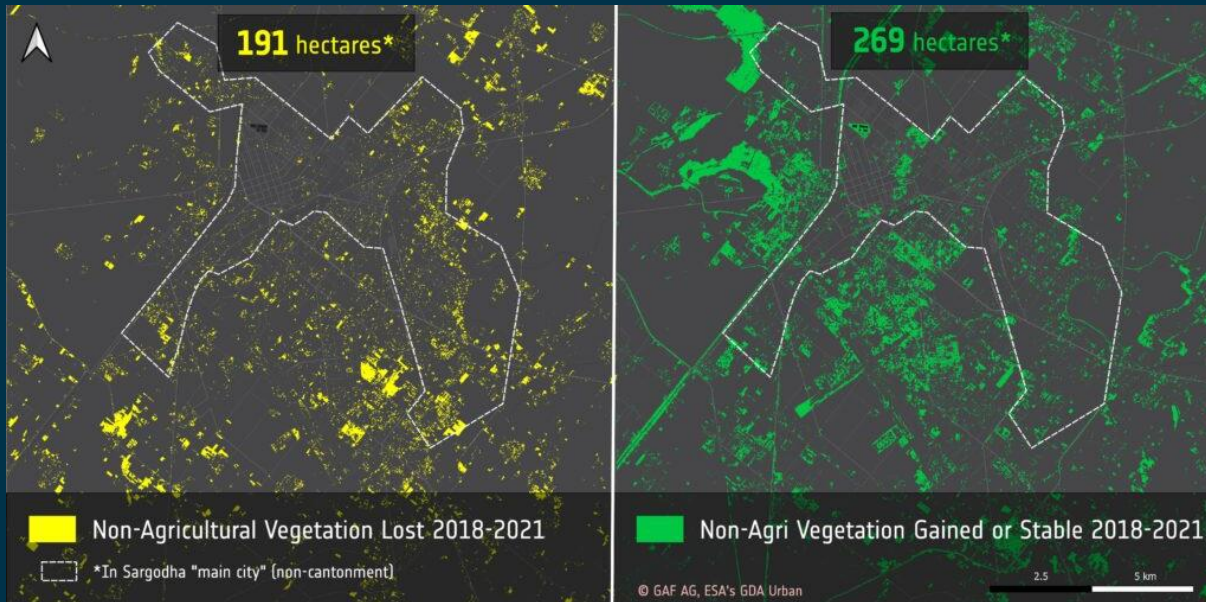


Urban Greening in Sargodha, Pakistan

Supporting ADB, the Government of Punjab and the Municipal Corporation of Sargodha

to develop resilient urban environments by:

→ providing an inventory of green areas



→ evaluating the impact of urban greening to analyse urban heat islands

