



GIS is the future of development



Reina Otsuka – Digital Innovation Specialist

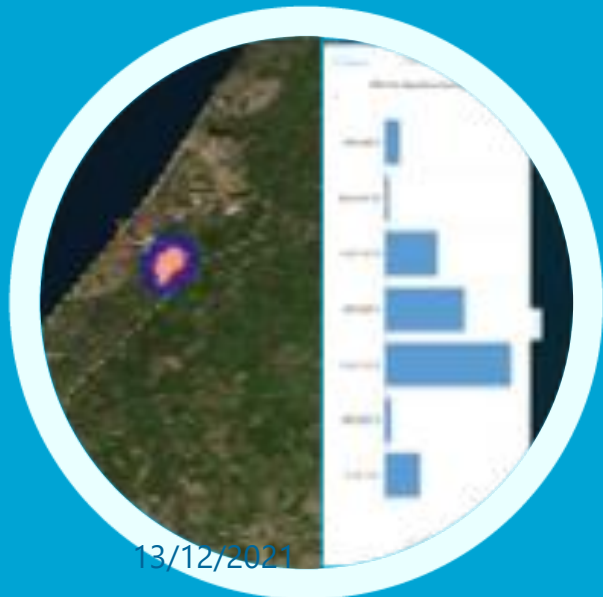
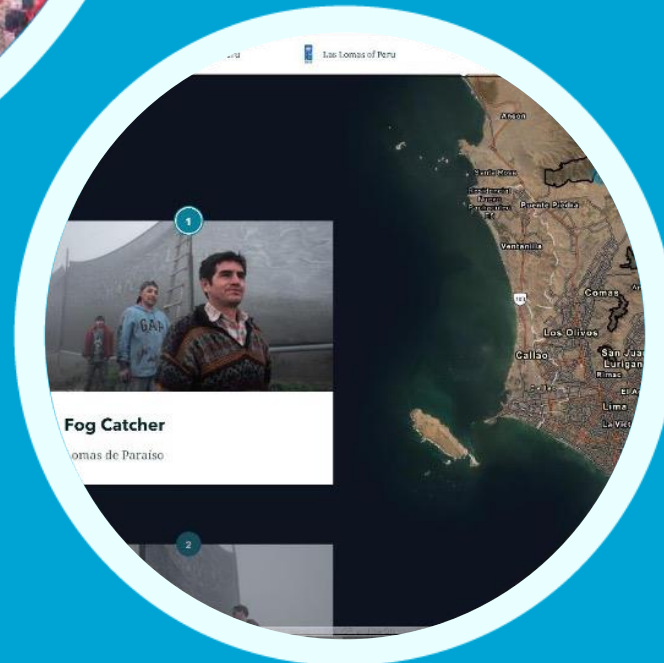
Bertrand Frot – Deputy CIO

13/12/2021

Local Analysis and Monitoring: Environment, Poverty, Disaster recovery, Reconstruction...

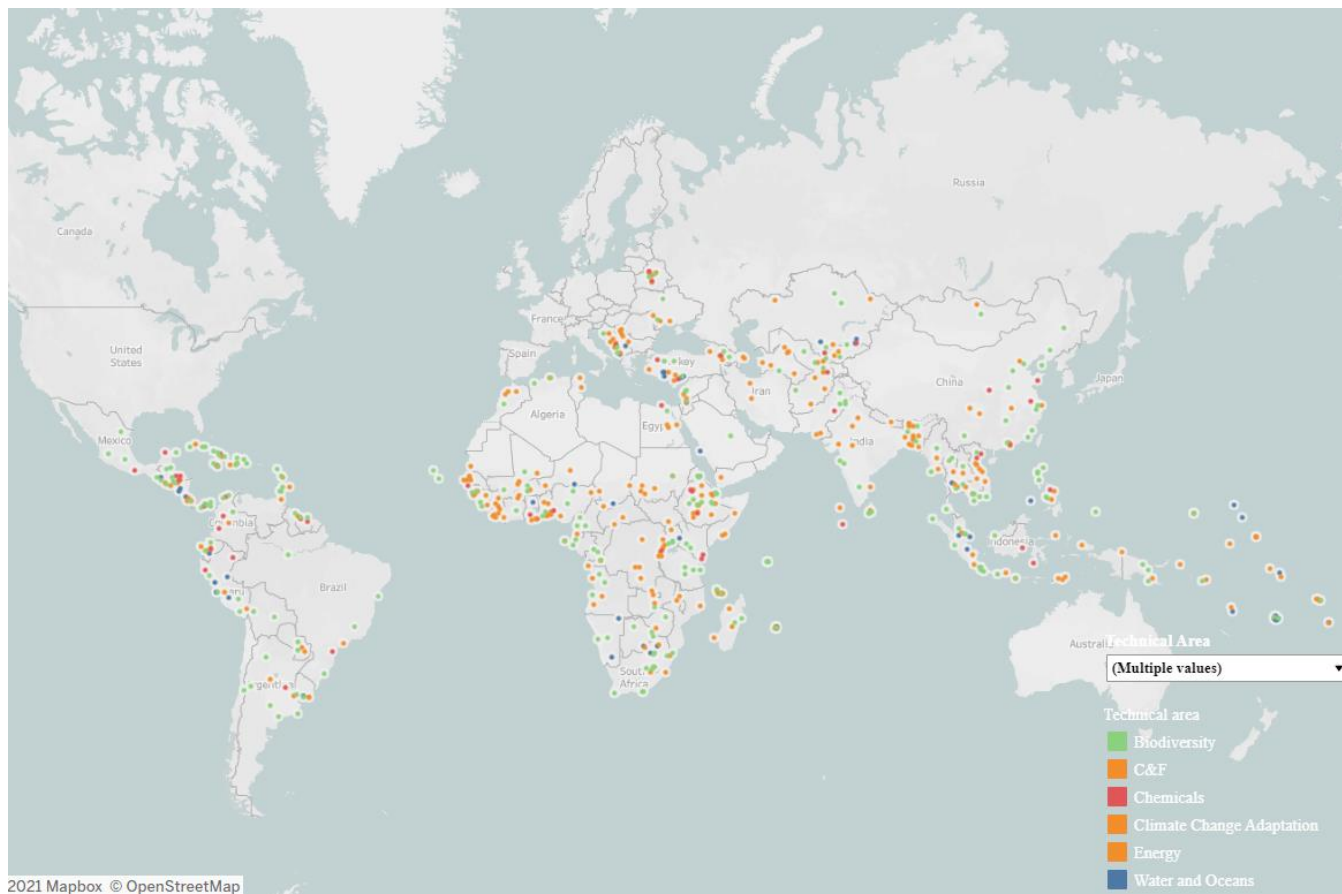
GIS and satellite imagery analysis have become a standard tool to complement local data

UNDP uses space data in the Human Development Report





UNDP's Nature Climate Energy Portfolio



Active portfolio

5 Billion USD

of projects

754

of countries

146

Source of funds

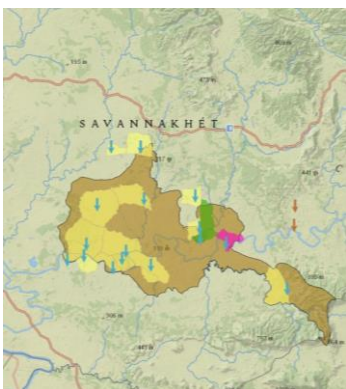
45

Technical areas

7



On a Digital Transformation Journey for Climate & Environment



DATA



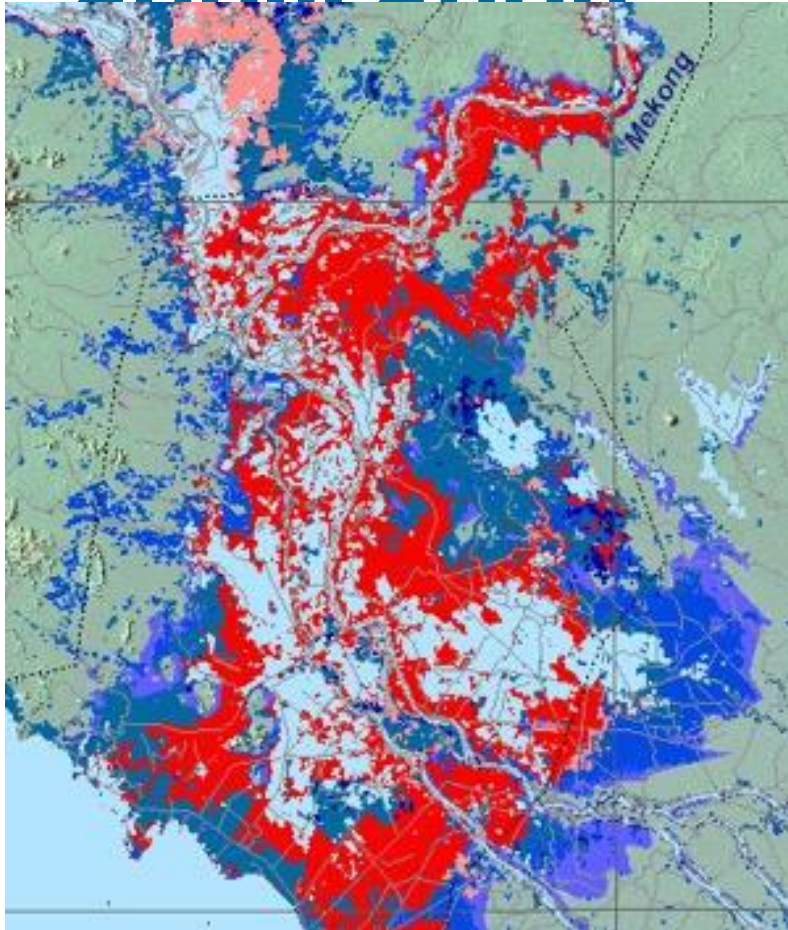
INNOVATION



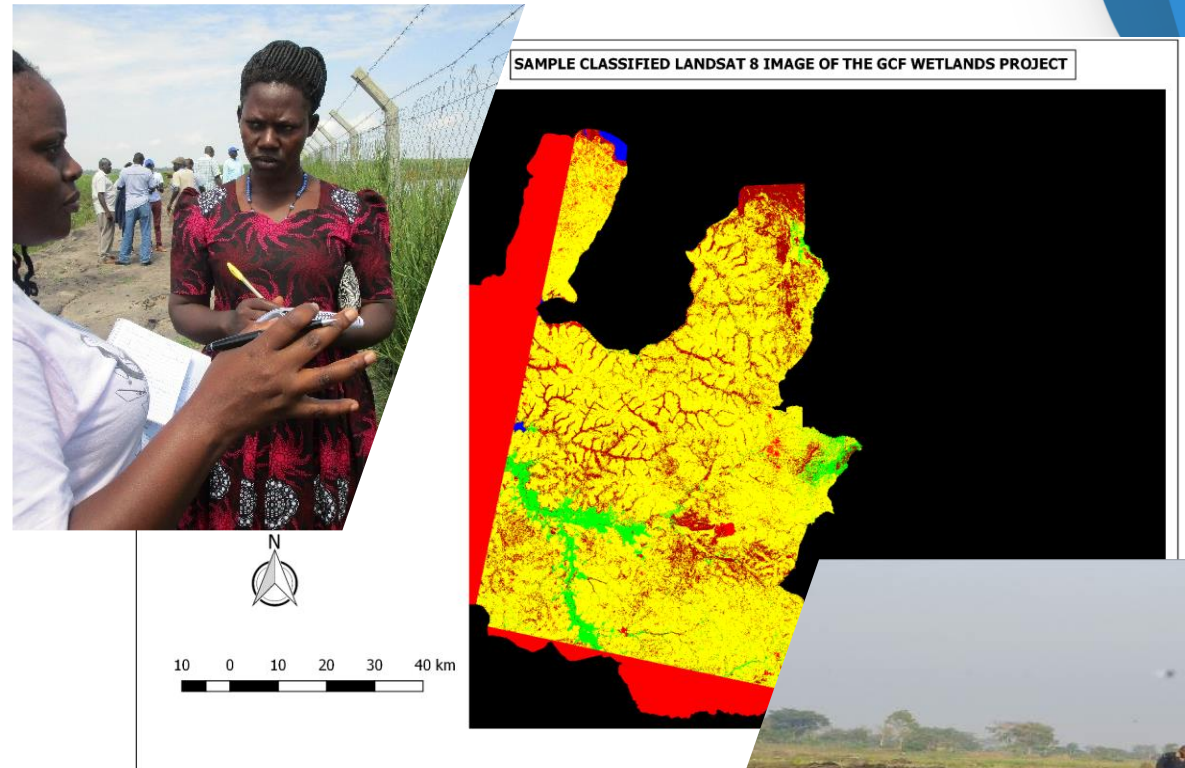
INCLUSIVITY &
SAFEGUARD

Toward 'a structural transformation, particularly for green, inclusive, and digital transitions'
(UNDP Strategic Plan 2022-2025)

Trend 1 Capacity for sustainable application



Vietnam, Climate Risk Assessment

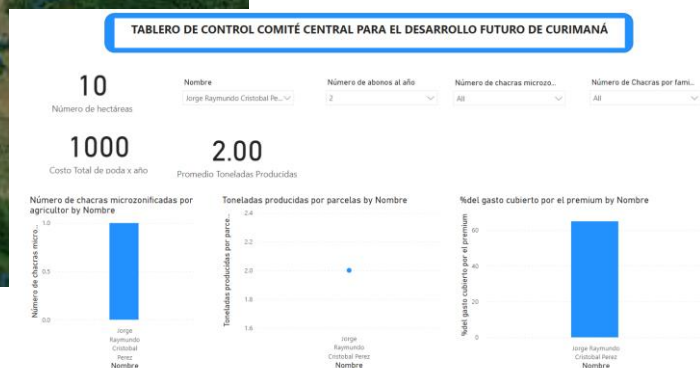
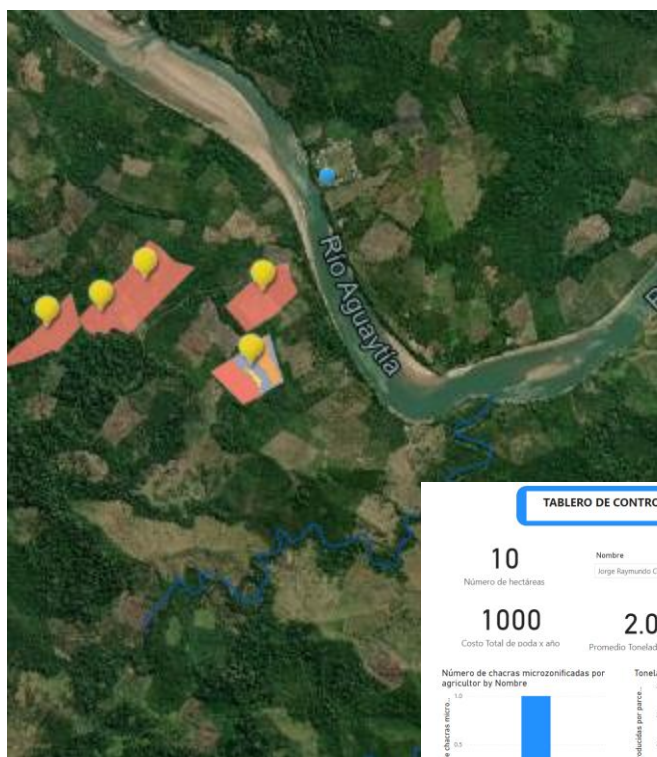


Uganda, Wetland Analysis

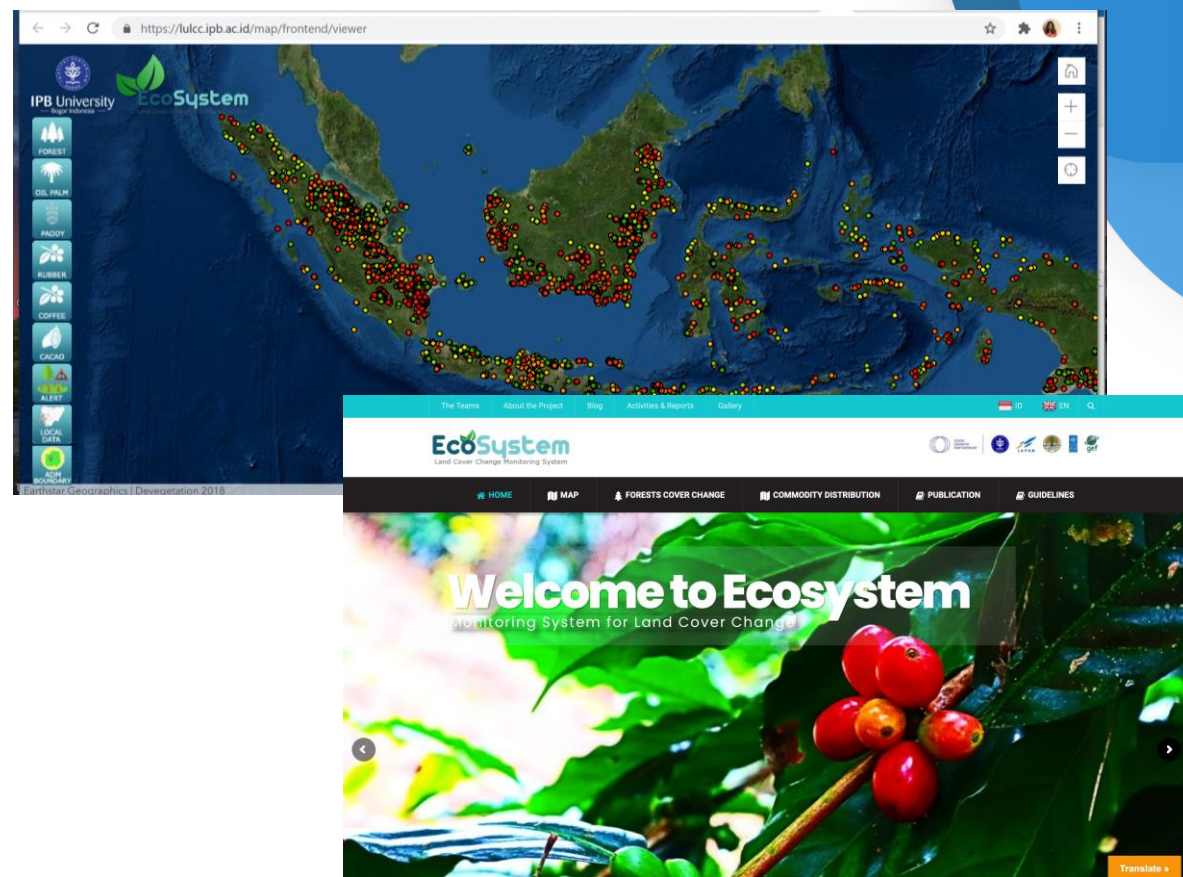




Trend 2 It is a part of new 'value' creation



Peru, Sustainable Productive Landscape in the Peruvian Amazon



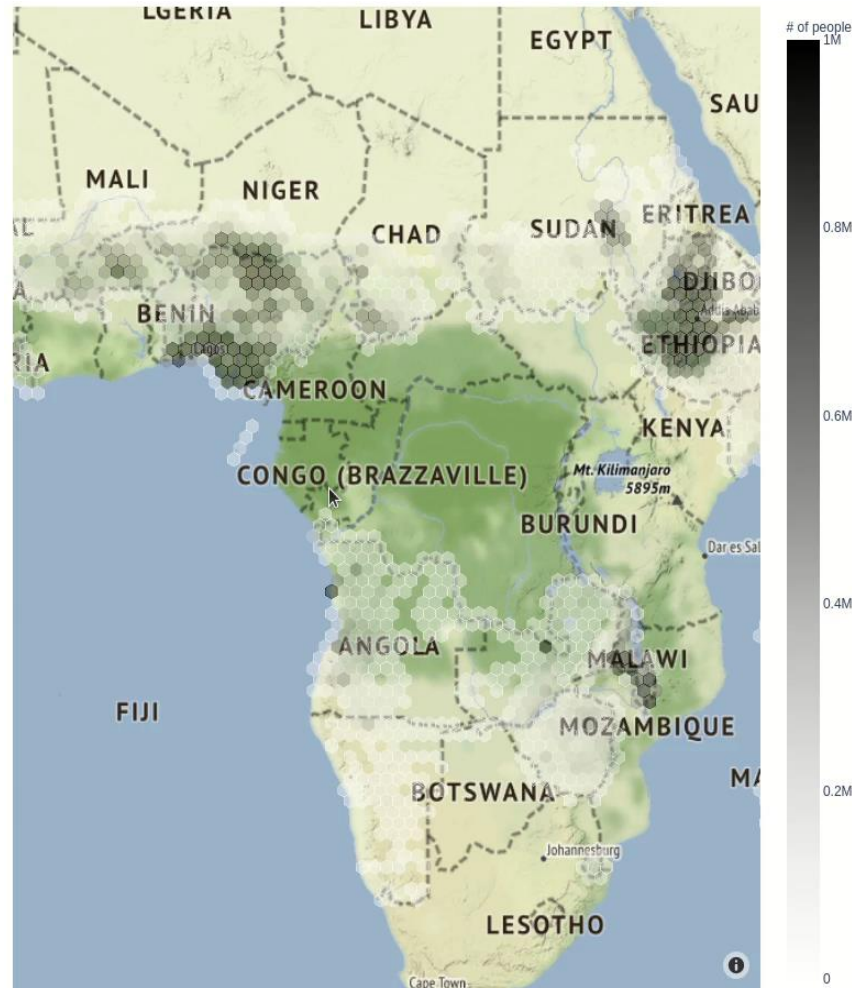
Indonesia, Satellite Monitoring: EcoSystem and INA-Alert



Trend 3 Integration with business process



Trend 4 From bespoke to scale





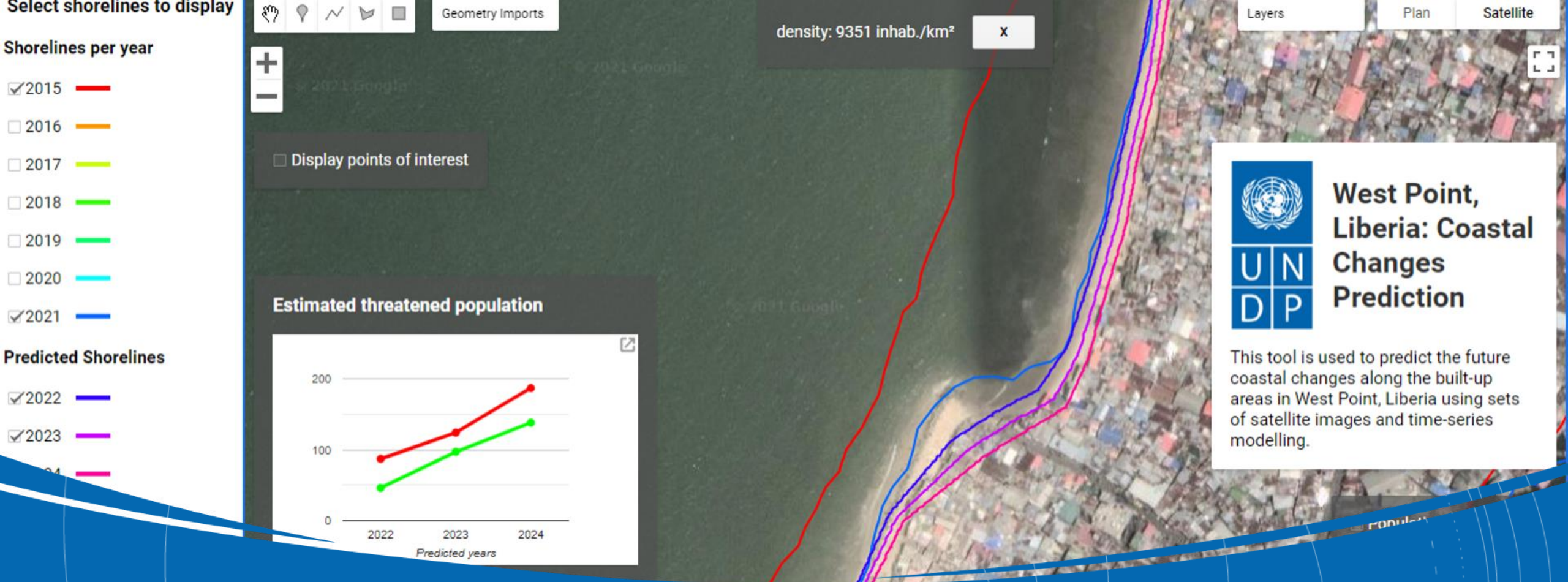
Partnership is key to all of these!

- 1. Capacity building** – open data, open source, innovation ecosystem
- 2. Part of a 'value' chain** – value-based design, multidisciplinary
- 3. Seamless integration** – interoperability, cloud, tech integration
- 4. From bespoke to scale** – ML/AI, ground proofed research

A key to success | open data and partnerships



UN-GGIM
UNITED NATIONS
COMMITTEE OF EXPERTS ON
GLOBAL GEOSPATIAL
INFORMATION MANAGEMENT



The next challenge:
**Data models to scale up
 analysis and scenarios**

$$\begin{aligned}
 &\text{Space Data} \\
 &+ \\
 &\text{Local data} \\
 &+ \\
 &\text{Algorithms/Models} \\
 &= \\
 &\text{Scalable Scenarios}
 \end{aligned}$$