

### Trends in Earth Observation Adoption for Development Assistance: an Analysis of International Financial Institutions' Demand

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<sup>1</sup>ESA - European Space Agency, <sup>2</sup>World Bank, <sup>3</sup>Asian Development Bank, <sup>4</sup>ABD international, <sup>5</sup>Caribou Space



## EUROPEAN SPACE AGENCY'S SUPPORT TO INTERNATIONAL DEVELOPMENT

**RAISING AWARENESS:** 

2008-2015

SMALL-SCALE DEMONSTRATIONS OF EO SERVICES

**CONSOLIDATING REQUIREMENTS** STRATEGIC ENGAGEMENT OF STAKEHOLDERS

2016-2023

Mainstreaming EO into development OPERATIONS & SKILLS TRANSFER

**Since 2020** 

















ASIAN DEVELOPMENT BANK

# DEDICATED PROGRAMMES TO GEOSPATIAL TECHNOLOGIES

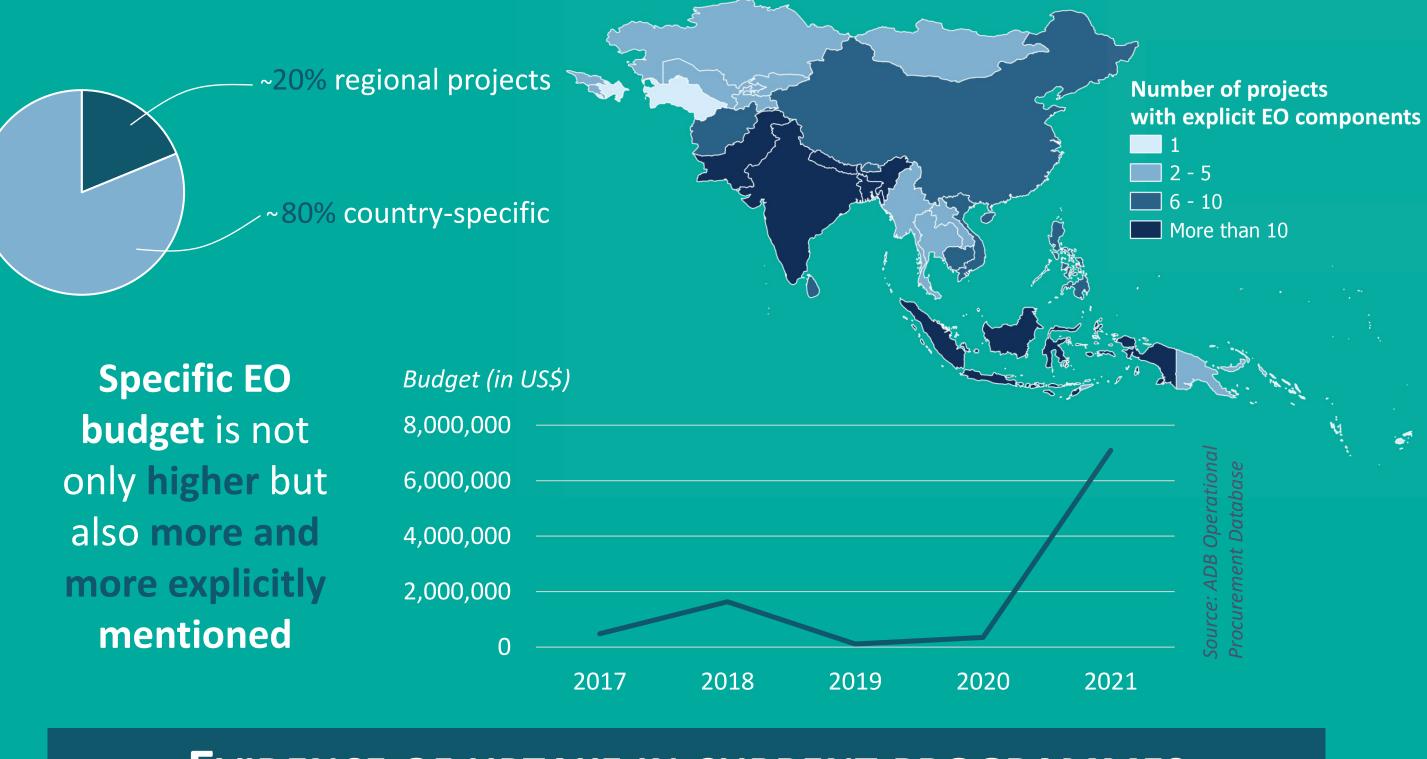
### **EO for Development and Digital Transformation Initiative**

**Launched by the Digital Technology for Development Unit** Supports coordination under the ESA partnership, complementing GDA

#### EO IN ADB STRATEGY 2030

EO is mentioned in 3 out 7 operational priorities of ADB Strategy 2030 **Operational Priority 5 Operational Priority 4 Operational Priority 3 Promoting Rural Development** Making Cities More Climate Change, Disaster Resilience, and Food Security Livable **Environmental Sustainability** HISTORIC ANALYSIS OF EO USE

**117** projects identified from 2016 to 2021 with explicit EO components<sup>2</sup>



#### **EVIDENCE OF UPTAKE IN CURRENT PROGRAMMES**

**Empowering Developing Member Country's to Use Multispectral Satellite Images** 

- ✓ Current and Future actions in Cambodia, Timor-Leste and Indonesia
- ✓ Funding of 1.05 Million US\$ with possibility of more

Supporting the Establishment of the Armenian Spatial Data Infrastructure

- ✓ Using EO to support the Cadastre Committee
- ✓ Future possibility to create an interoperability tool for urban planning

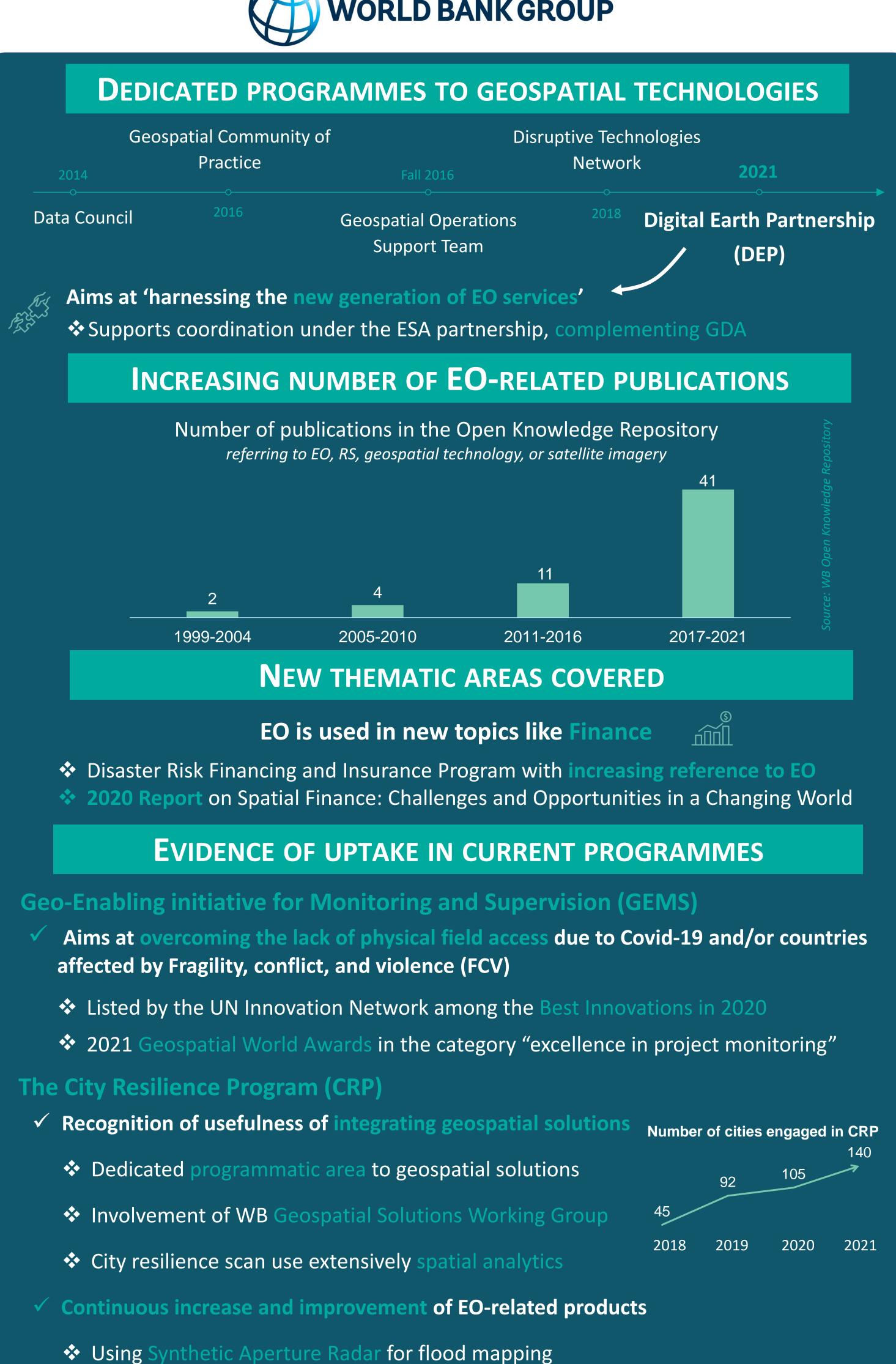
#### THE WAY FORWARD

Promising cases for 2022, in Indonesia and possibly in Cambodia

According to a manual screening analysis

Coastal & Marine subjects as new emerging thematic areas for EO applications

# **WORLD BANK GROUP**



Incorporating more and more night-time light intensity in analyses

Analysing land subsidence risk through remote-sensing technologies

Localising urban heat island through remotely-sensed Land Surface Temperature

"All of us have always been fascinated by the potential that this technology gives us in the development space." Now it has gone beyond the fascination. Now we are entering a stage where we can actually turn the beautiful images into real management decisions." Juergen Voegele, VP Sustainable Development, World Bank

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Mobilisation from space and development finance