Pilot to Plan<u>et</u>

Scaling Innovative Missions into Operational Services

• Discussion Pannel 4

The 32nd IAF Workshop on "Resilient coasts, resilient

Earth: Innovative Space solutions for coastal resilience and emergency management"



PilotProject to Sustainable Service

Success Always Belongs For Those Who Are Prepared

User-Centered Design and Demand Alignment Data
Interoperability
and Integration
with Existing
Systems

Political and Institutional Support

Sustainable Business or Funding Model Scalability from Day One

1

- Co-design with end users
- Early engagement with downstream users (e.g., emergency responders, analysts)
- Use open standards,
 APIs

2

- Align with national geospatial data strategies or SDGs
- Engage national stakeholders early

3

- Align with national & global priorities (e.g., climate, disaster resilience, food security)
- Include financial
 viability in the
 design phase
- Explore service based or
 subscription
 models
- Interoperable architectures, m o d u l a r components
- Localized versions for different countries

Continuity & Reliability

Success Always Belongs For Those Who Are Prepared

Mission-Critical Applications

- Persistent user needs (e.g. food security, disaster response, climate monitoring)
- Drives long-term demand and investment

"If it solves a real, recurring problem — it lasts."

Reliable, Scalable Technology

- Move from experimental systems to operational-grade infrastructure
- · Standardization, QA, lifecycle management



Institutional Continuity

- Stable mandates, funding pipelines, trained teams
- Ensures the service outlives the project phases

Strategic Partnerships

- National agencies, commercial providers, international frameworks
- Shared risk, extended coverage, and political support

Adapting National Lessons for Global Resilience

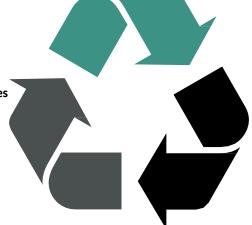
Success Always Belongs For Those Who Are Prepared

Contextual adaptation to local geographic & socio-economic needs

- Inclusive stakeholder engagement: governments, communities, partners
- Early investment in local capacity building and institutions

Foster multi-level partnerships connecting local & global scales

- Build interoperable, regionally adaptive systems
- Build partnerships to share risks, resources, and responsibilities



Co-design solutions for relevance and trust

- Integration of space data with local knowledge/traditional practices
- Invest continuously in workforce training and technical capacity

THANK YOU

Hoda Awny Elmegharbel hoda.awny@egsa.gov.eg

•••••