



GMES and EU policy:

Synergies for a better use of EO capacities

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GMES and EU Policy

- 1. Why an EU lead GMES programme?**
στρατηγία (strategy) + συνεργός (synergy)
- 2. What is needed from/wanted for GMES?**
service pull + technology push
- 3. How will GMES be delivered?**
3 components +
centralised/decentralised

1. Why an EU lead GMES programme?

στρατηγία EO is strategic

- Security, risk and crisis management
 - Spatial planning
 - Monitoring of natural resources, incl. raw materials
 - Meteorology and Climate monitoring
- >> European capacities make sense (autonomy where appropriate)

1. Why an EU lead GMES programme?

συνεργός EO requires synergies

- EO costs for a comprehensive programme like GMES go beyond resources of a single nation
 - EU profile internationally increased
 - Market potential for EU wide, regional and local applications services
- >> Pooling of resources at EU level fosters innovation and competitiveness for all

Article 189 TFEU: Basis for space policy

Why?

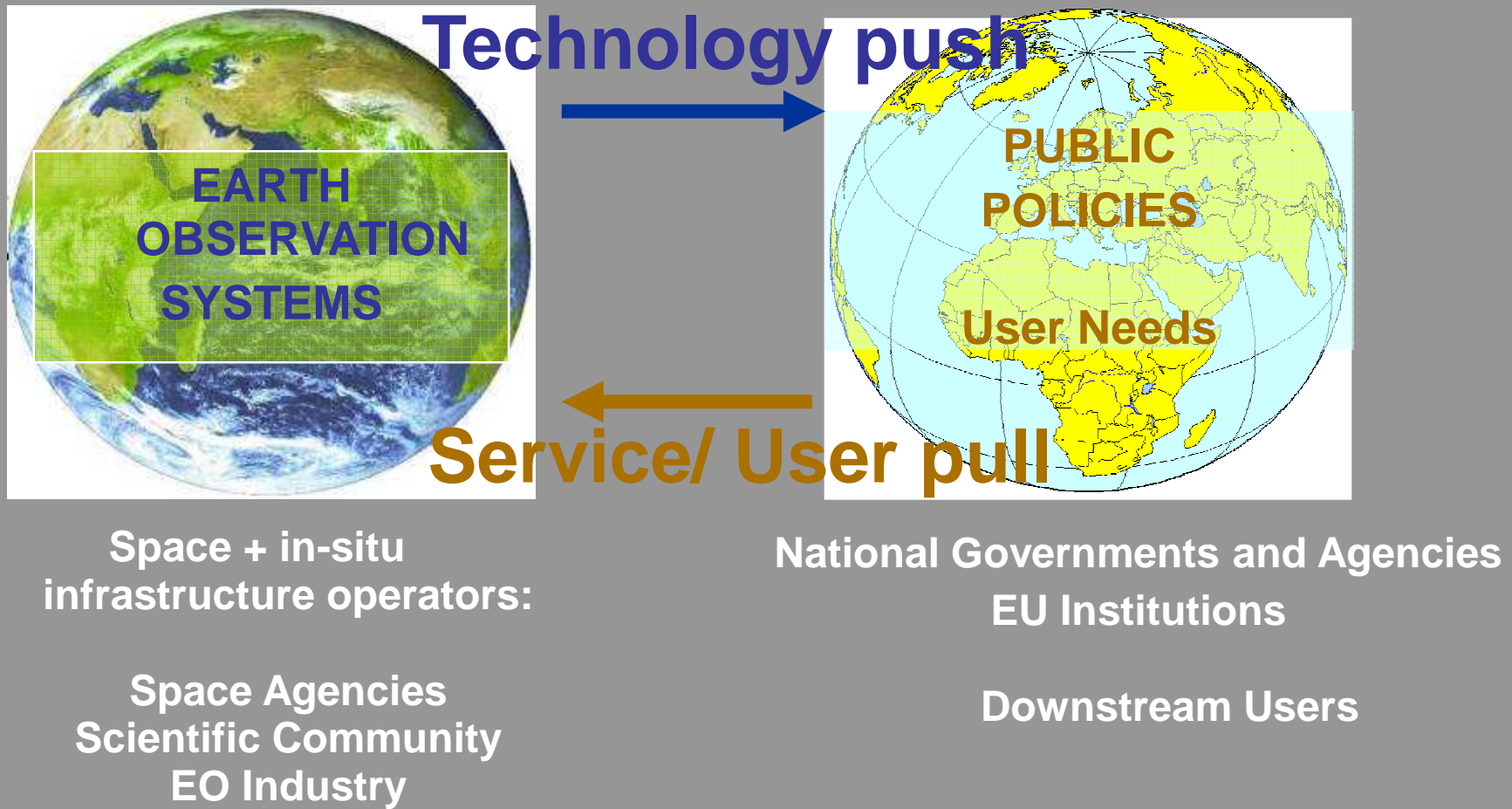
- “to promote scientific and technical progress, industrial competitiveness and implementation of EU policies”

What?

- “promote joint initiatives, support research and technological development and coordinate efforts needed for the exploration and exploitation of space.”

2. What is needed/wanted?

Information services for policy-makers and other users



2. What is needed/wanted? Example: Supporting EU Environment Policy

GMES should contribute to:

- Supporting **policy priorities** (biodiv, resources, water, air...)
- Defining the “**bigger picture**” (policy links; EU / global)
- Underpin **long-term sustainability**
 - GMES will create space observation infrastructure responsive to user needs
 - GMES will coordinate in-situ infrastructures (transboundary issues, gaps in European-wide monitoring, harmonisation efforts etc.)
- Delivering on **needs in Member States** (compliance monitoring/reporting needs, implementation of legislation ...), regions, citizens, education
- Complementing other efforts:
INSPIRE Directive,
SEIS, etc.

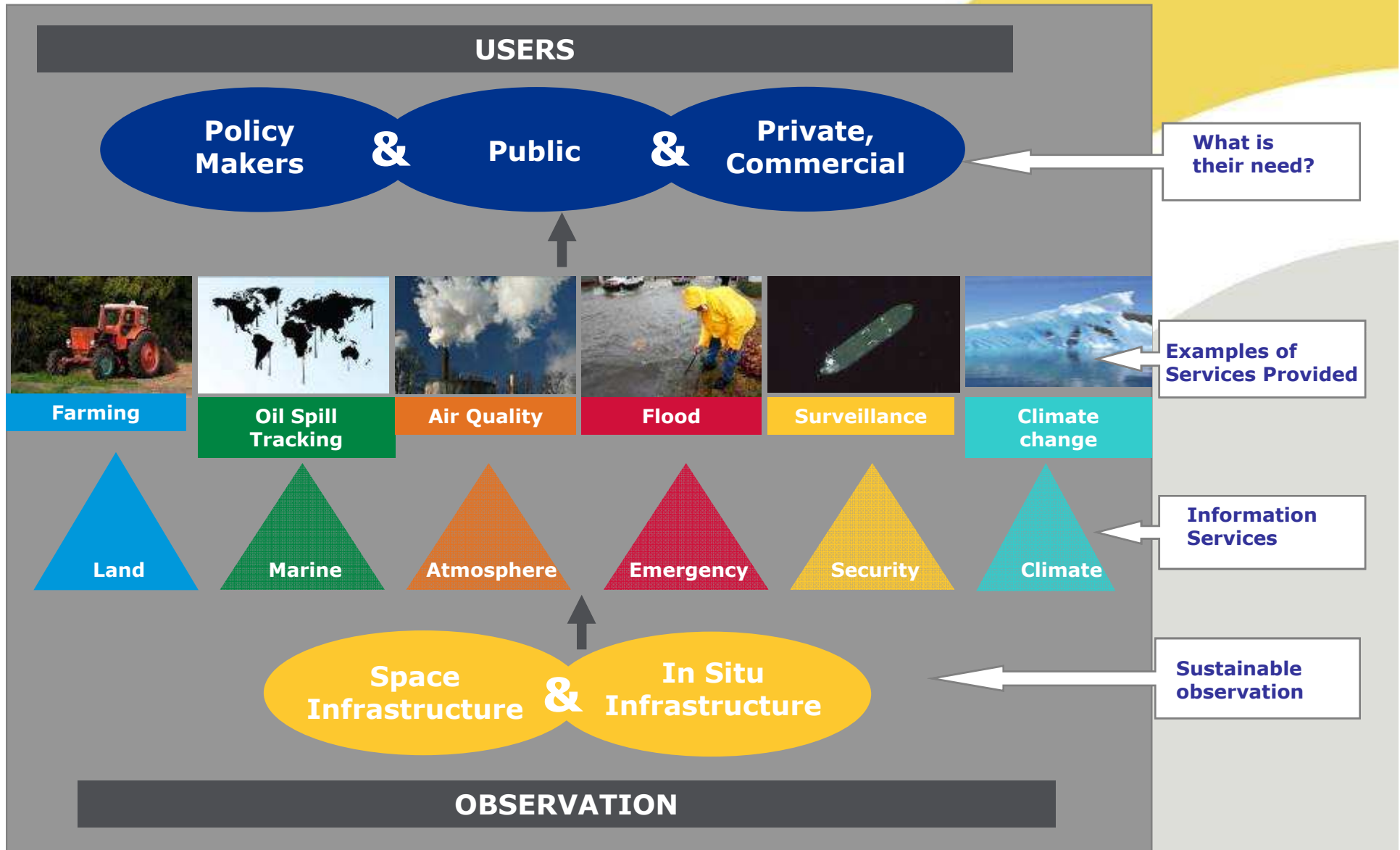


2. What is needed/wanted? Example: Preparation of humanitarian crisis intervention in Libya

- Since 24 February: production of different geographic reference maps:
 - over Libya (Cities of Tripoli, Benghazi, Derna and Tobruk),
 - Egypt (city of Sallum),
 - Malta (City of La Valletta)
- Mapping of population movements at cross-border checkpoints:
 - Libya – Algeria,
 - Libya – Egypt,
 - Libya – Tunisia
- Mapping of poss. damages to infrastructure:
 - airports, harbors,
 - hospitals



3. How will GMES be delivered?



Some milestones

- | | |
|--------------|---|
| 1998 | Initiation of GMES, Baveno Manifesto |
| 2000 | Gothenburg EU Summit “establish by 2008 an operational European capacity for ... GMES” |
| 2001+ | Investments by ESA and EU on services |
| 2005 | GMES becomes ‘flagship’ of the European Space Policy
ESA C-MIN in Berlin approves GMES Space Component programme |
| 2006 | GMES Bureau creation
€ 1,2 Billion in the period 2007-2013 |
| 2008 | EC-ESA agreement on GMES signed
GMES services presented at Lille Forum |
| 2009 | Commission proposal for a GMES initial operations programme and Communication on the Space component |
| 2010+ | Programme adopted by EP and EU Council; start of implementation |
| 2013+ | Launch of first GMES Sentinels |

How will GMES be delivered? Centralised/Decentralised elements

**GMES COMPONENT
– SPACE**

**GMES COMPONENT –
IN SITU
INFRASTRUCTURE**

**GMES COMPONENT –
SERVICES**

CENTRALISED

**ESA
EUMETSAT**

(GIO program)

**indirect benefits for
regions: space industry
and ground segment**

**CENTRALISED &
DECENTRALISED
COM / EEA & MS
(GIO program)**

**in-situ data coordination and
harmonization of data sets
monitoring of accuracy of
local/regional data**

MS

(regional funds)

**in-situ infrastructure build up
and maintenance**

**CENTRALISED &
DECENTRALISED**

**COM / SERVICE
PROVIDERS
(GIO program)**

Core Services

**(UR federated at different
level)**

**MS/ SERVICE PROVIDERS
(CIP)**

Downstream Services