

EU Secure Connectivity Initiative



EU Secure Connectivity Programme (1/5)

Targeted Use Cases and Related Service Categories

Objective 1: Ensure long-term availability of services critical for EU and EU policies



- Ubiquitous internet access in Europe
- Internet access in regions of EU interest (Africa, ...)
- *Other commercial use cases not to be defined by EU*

Objective 2: Allow for provision of commercial services by private sector

EU Service Segmentation

Strong security-related and sovereignty-related requirements

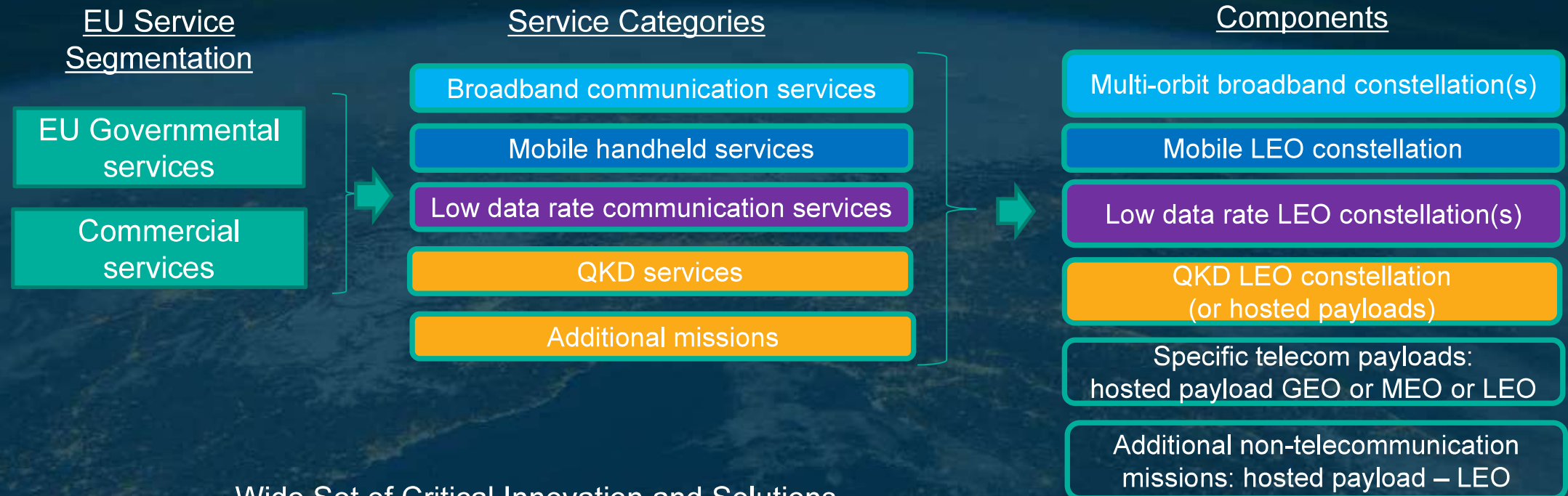
Governmental services

Commercial services

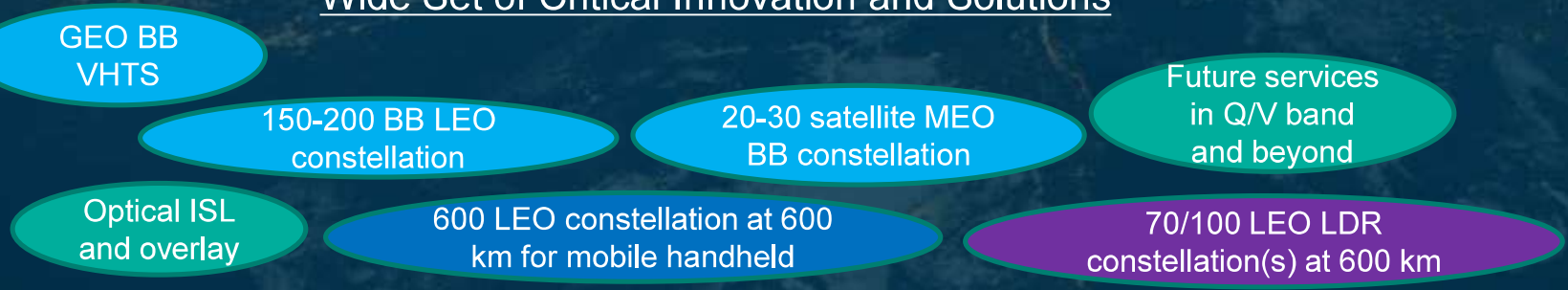


EU Secure Connectivity Programme (2/5)

From Services to Solutions & Technologies



Wide Set of Critical Innovation and Solutions



Main Components

Components

Multi-orbit broadband constellation(s)

Mobile LEO constellation

Low data rate LEO constellation(s)

QKD LEO constellation
(or hosted payloads)

Specific telecom payloads:
hosted payload GEO or MEO or LEO

Additional non-telecommunication
missions: hosted payload – LEO

Development and validation
Envelope (order of magnitude)

Development Validation of
ONE large constellation

Preparatory / de-risk phase for
the other large constellation

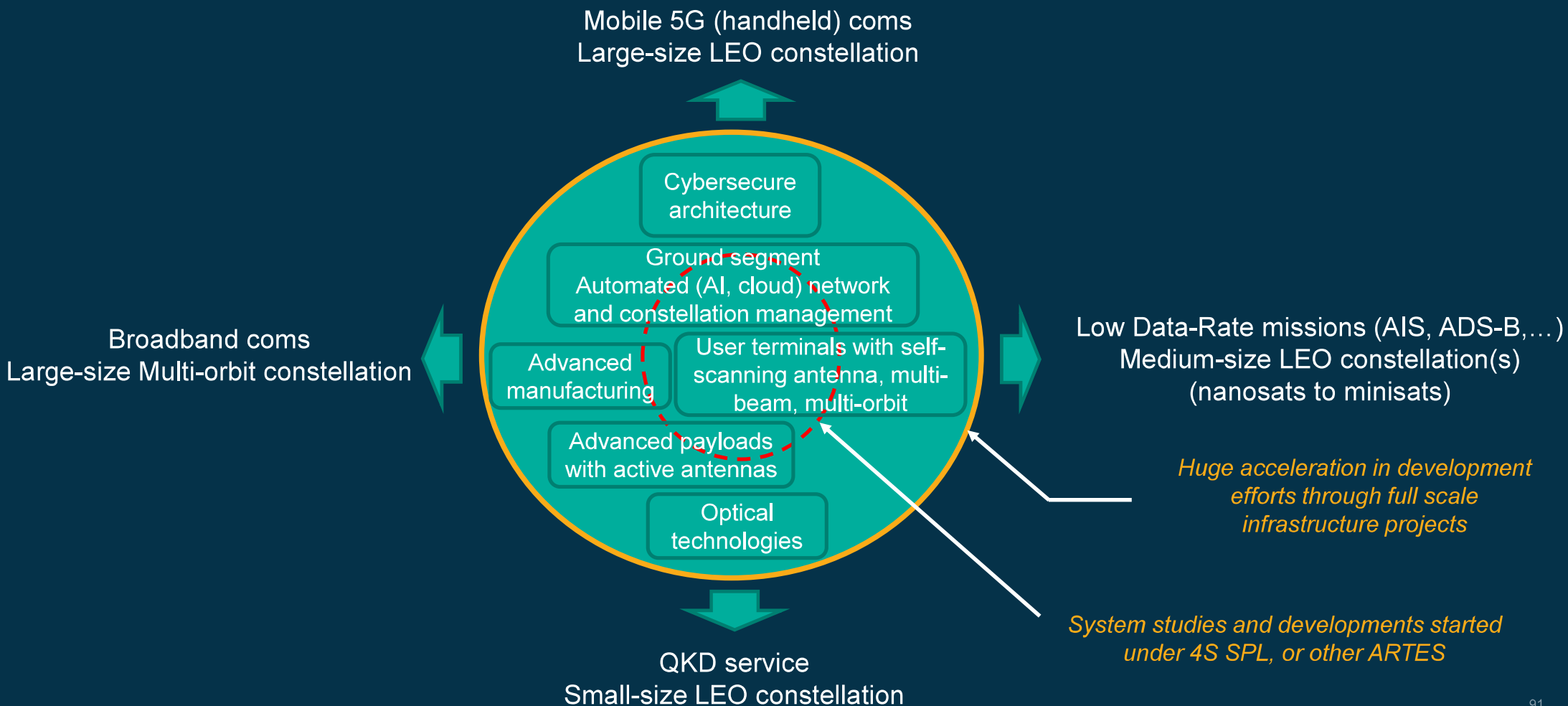
LDR constellations

Order of magnitude : 2 B€



EU Secure Connectivity Initiative (3/5)

Accelerator Effect for Moving Technologies to Operational Stage



EU Secure Connectivity Initiative

Leverage Effect for ESA MS Investment



For governmental infrastructure:



For commercial infrastructure:



EU Secure Connectivity Programme (4/5)

Infrastructure and PPP Approach



EU Service Categories
2 sub-categories

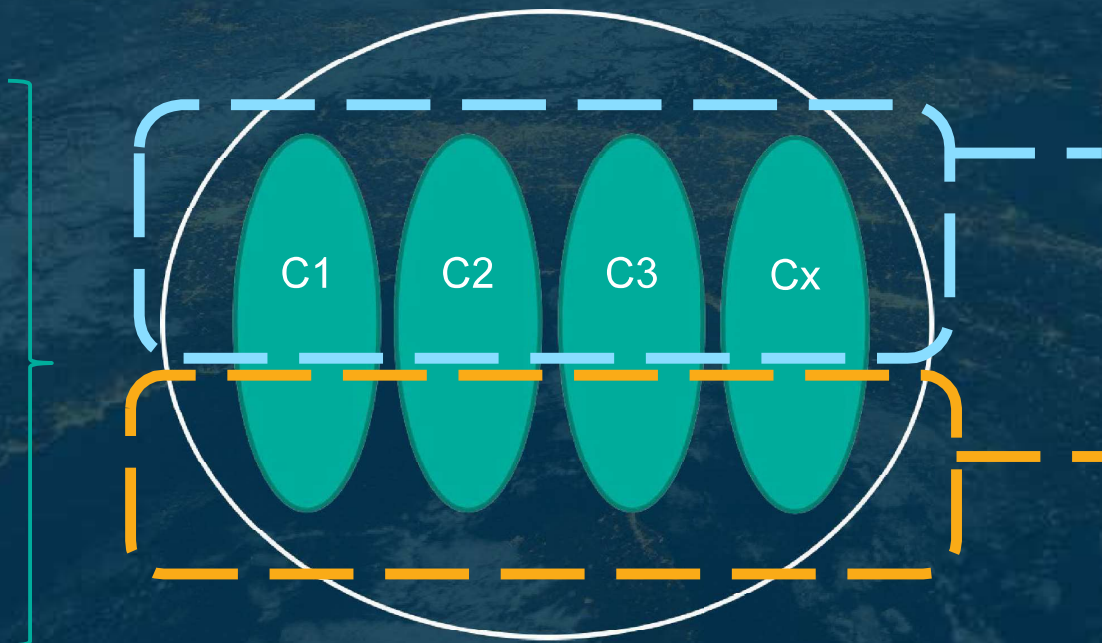
EU Secure Connectivity Infrastructure
Multi-orbit, multi-component (C) system

EU Secure Connectivity Infrastructure
2 sub-infrastructures

Strong security-related and sovereignty-related requirements

Governmental services

Commercial services



Governmental Infrastructure

To include all space and related ground assets necessary for provision of governmental services

Commercial Infrastructure

To include all space and ground assets other than those being part of governmental infrastructure.

Financed by private sector

PUBLIC-PRIVATE PARTNERSHIP

