

Brussels, Silversquare Balli, 6th November 2023

**BELGIUM interest
in Space Business
Applications for
Healthcare and Crisis
Response**

For the Conference “Space technology to enable the
healthcare of tomorrow”



Motivation

- Presentation of ESA Telecom relevant R&D programmes (ARTES\BASS-BA, CSS, R3) for Healthcare thematics
- Presentation of BELSPO and BE financial contribution to the above

Space economy?

“The full range of activities and the use of resources that create and provide value and benefits to human beings in the course of exploring, understanding, managing and utilizing space.

The space economy goes well beyond the space manufacturing sector, also comprising the increasingly pervasive impacts of **space-derived products, services and knowledge** on economies and societies”

(OECD, 2020, p.5)

Level of resources for Belgium at CMIN22 Period 2023-2027 (e.c. 2022) at ESA (European Space Agency)

Total 2023-2027 space BE:

1243,83 M€ + 385,00 M€ = **1628,83 M€**

→ **~325 M€/y**

– ESA: ~295 M€/y for Belgium

including total 100 M€ from BE MoD

for dual-use & peaceful purposes (new since CMIN22)

– Intergovernmental (Eumetsat, ECMWF, ESO): ~20 M€/y

– EU, Bilateral, National: ~10 M€/y

Global THEMAS for BE space strategy 2022+

- A. Space as a source for inspiration (Historical strong component - science, exploration, education)
- B. Space for Earth and Society** (impact on Earth - policy making, safety, environment...)
- C. Space sector as business and knowledge sector (competition, support sector in BE, research and development)
- D. Strategic Autonomy (positioning Europe and BE)

=> Most relevant for BE contribution to Space Technology for Healthcare

BE supports all 3 accelerators, in ESA CMIN2022 resolution, to accelerate the Use of Space in Europe, in preparation of CMIN2025



Space for a Green Future

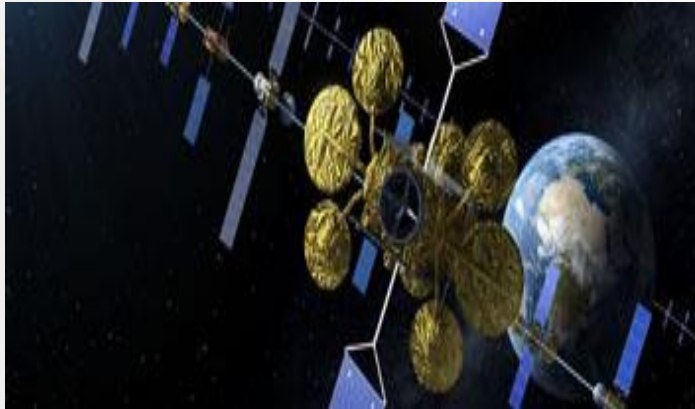
Rapid and Resilient Crisis Response (R3)



Protection of Space Assets

=> Relevant for BE contribution to Space Technology for Healthcare

CMIN2022 BE involvement that accelerate the Use of Space in Europe for Crisis Response in ESA\TELECOM programmes



ARTES 4.0
(Advance Research in Telecommunication Systems)
Programme



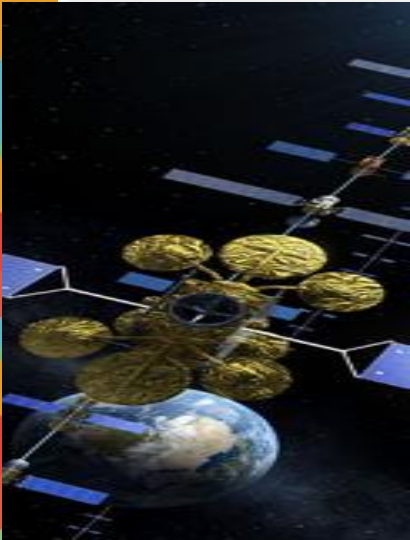
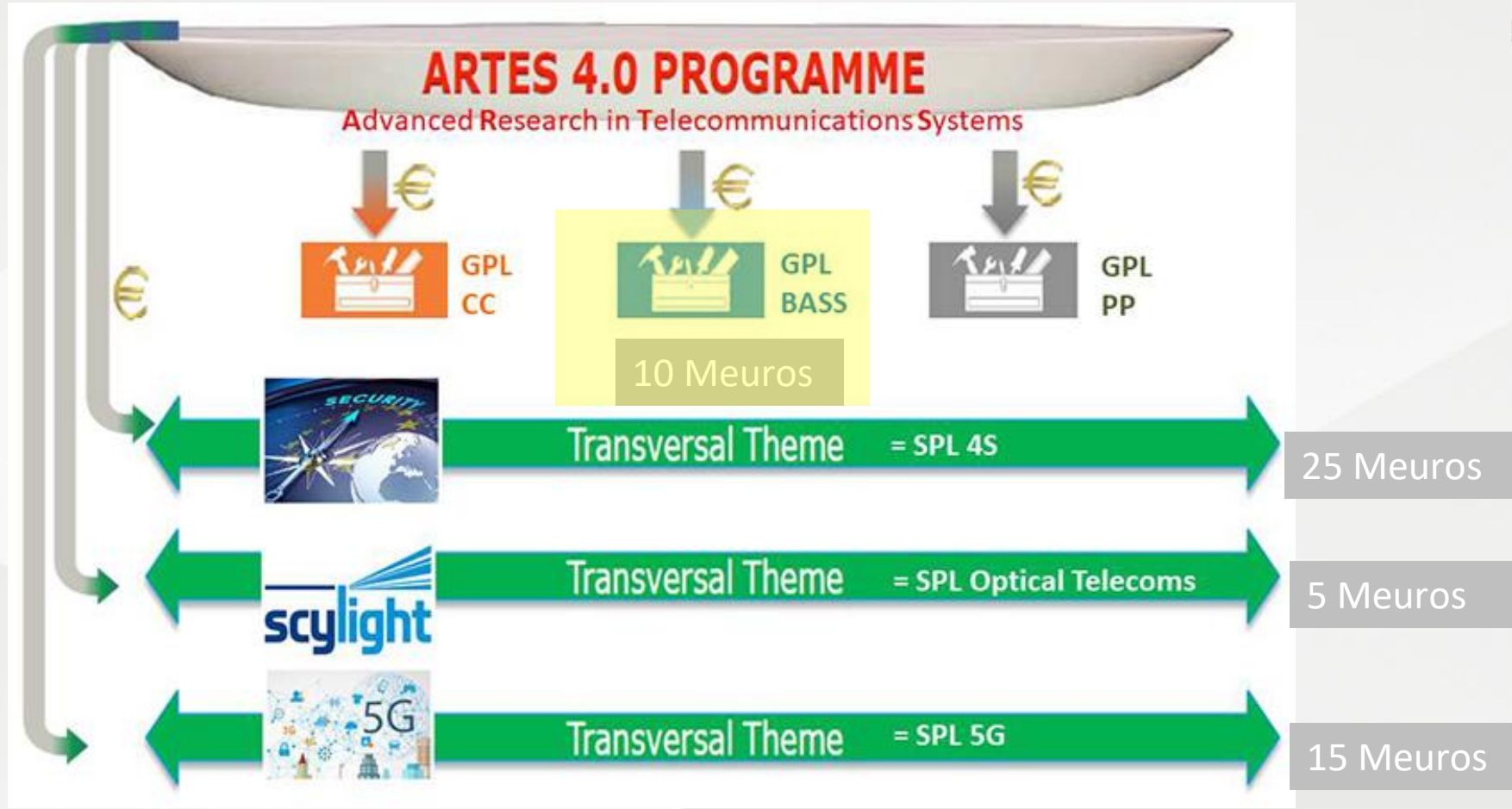
CSS (Civil Security from Space) programme



ARTES 4.0 Programme @ CMIN22



117 Meuros @CMIN22



CHALLENGE

- Satellite constellation + digitalization + **security**
- Contribution to EU Secured Connectivity Initiative, Govsatcom & EuroQCI + ESA own Telecom activities
- 5G -> 6G and Greener space & space4green **joined by BE**
- Optical and Quantum Communications
- **Less money for ARTES but new additional TELECOM programmes!**





CSS (Civil Security from Space) programme@ CMIN22



“SafePlace”
by RHEA

5.977 Meuros

“Smart-Connect”
by GeoVille

2.405 Meuros

“Cosmos” by
IceEye

0 Meuros

... others yet to
come



10.5 Meuros @CMIN22

CHALLENGE

- A new additional TELECOM programme at CMIN2022
- A Cross-Directorate programme: Telecoms-Navigation-Earth Observation
- A seed for accelerator R3
- Connecting upstream and downstream to provide services for crisis management
- Partnership-type of projects
- **Not all ESA member states participate yet**
- **BE has the largest budget share**
- **Aim to showcase demonstrations to attract new ESA member states and additional budget**



Belgian contacts in relation to SpaceTechnology for HealthCare and Crisis Response

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