

Brussels, 10 January 2023 (OR. en)

5197/23

ESPACE 2

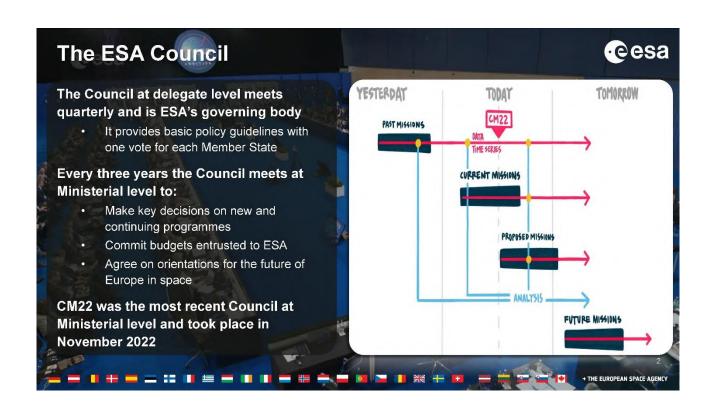
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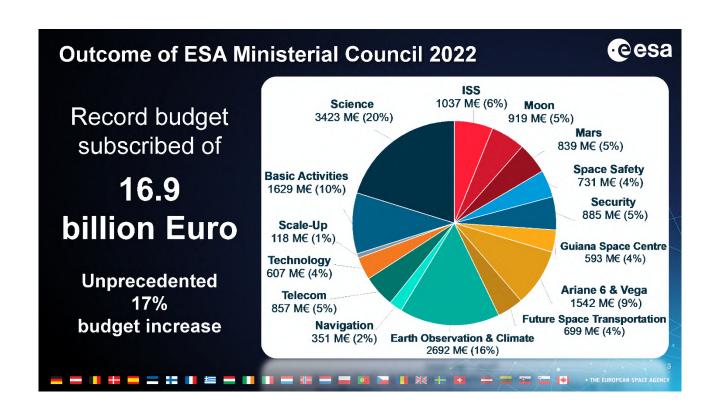
From:	General Secretariat of the Council
To:	Delegations
Subject:	Outcome of ESA Ministerial Council 2022 (Space Working party meeting of 10 January 2023)

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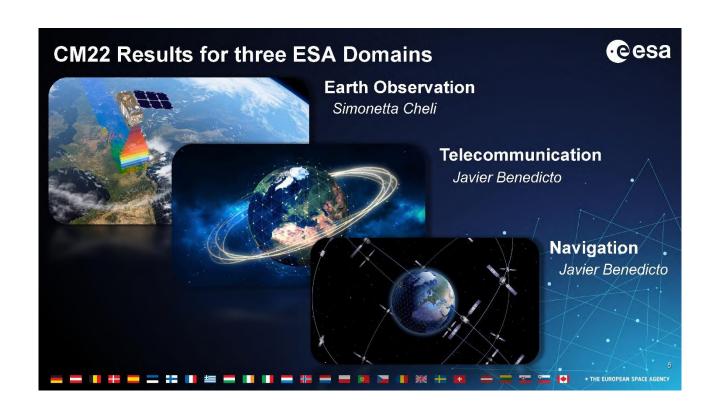
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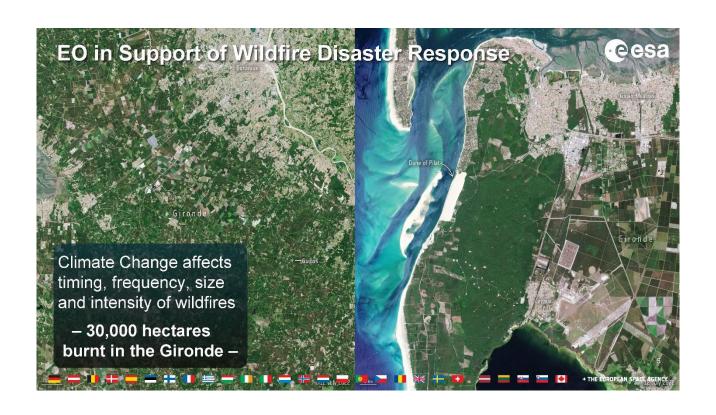


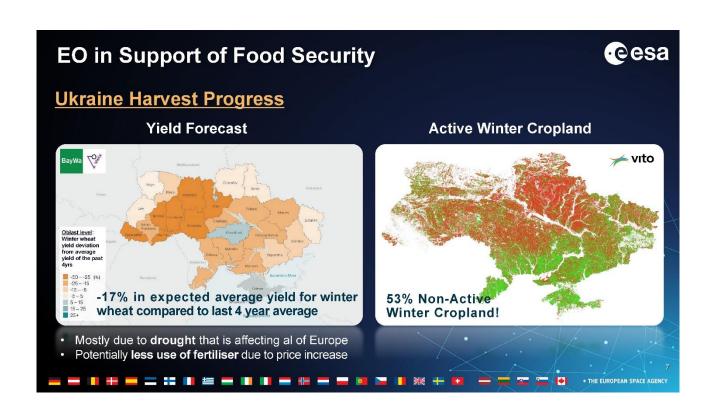












CM22 Outcome for Earth Observation



→ THE EUROPEAN SPACE AGENCY

EO overall budget: 2.7B€

Guarantees continuity of current activities and programmes and allows the start of new projects

FutureEO

Preparing tomorrow's Earth Observation capabilities

Copernicus

Continuing and enhancing our eyes on Europe and the World

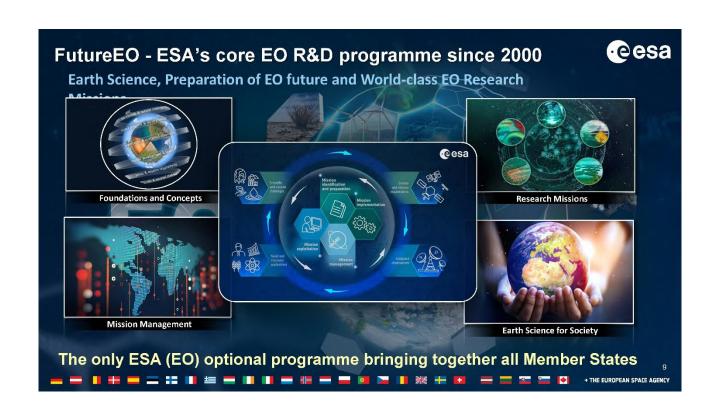
Aeolus-2: Improving weather predictions

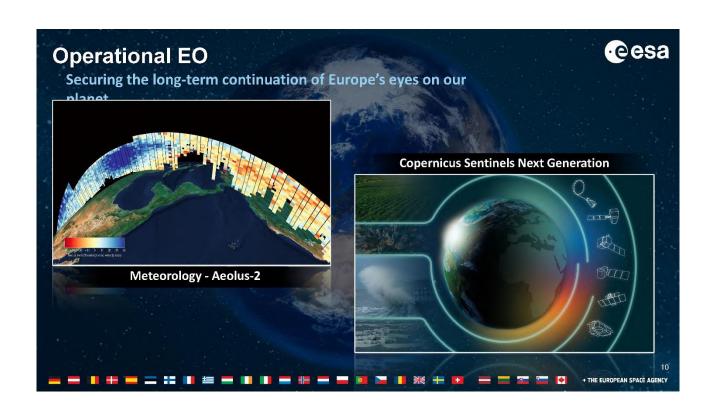
ESA MS Demonstrated

- Overwhelming support to climate and environmental actions
- Strategic relevance of EO sector for climate and environment
- Climate as top concern for European Citizens (Harris survey)

Customised EO

- Climate Space (Strengthening climate monitoring and reporting)
- **Digital Twin Earth** (Boosting insight into the earth system)
- TRUTHS (Reference standard for climate measurements)
- InCubed-2 (Industrial innovation)











eesa **Green Future Accelerator: Space for a Green Future** "Provide European decision-makers, industry, and society with the support they need to reach the objectives of the energy transition and the green agenda, notably carbon neutrality by 2050 with a resource-efficient society." The Accelerator shall: pace 1. Address the Energy Transition & the complex socialfor a environmental-economic dynamics Green 2. Leverage and build upon existing and planned activities with the EC and international partners **Future** 3. Establish a participative and inclusive engagement of all stakeholders 4. Stimulate sustainable business growth enabled by the Green Economy.









ARTES 4.0 CM22





Kick Start New & Disruptive Technologies

ESA de-risks highly innovative satellite solutions. It encourages investments of Space companies in the expansion of their product portfolio.



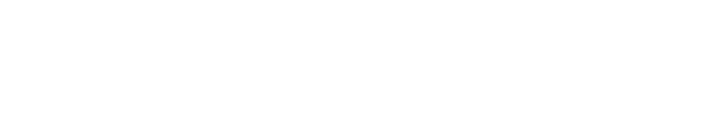
Meeting Public and Commercial Needs

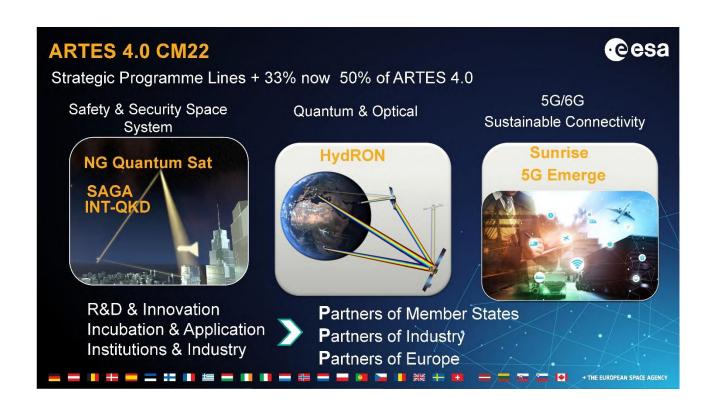
We increase European self-reliance and simultaneously boost technical expertise and market share for European industry.

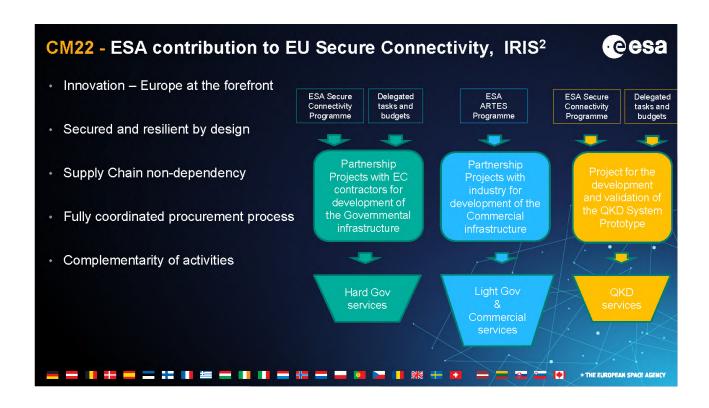


Investing in the Future of Space

Bringing strategic value to the ESA member states by making telecommunication collaborations happen, stimulating the economy and creating new jobs.







CM22 – ESA Programme related Secure Connectivity Next steps



- Phase 1 of ESA Programme started covering preparatory activities & procurement process coordinated with EC:
 - · Critical preparation of development and validation partnership projects
- Contribution Agreement for all entrusted tasks and delegated budgets
- Current ESA objective is to move to phase 2 in Q3 2023 -> aligned with EC timeline







* THE EUROPEAN SPACE AGENCY













Program Objectives: secure strategic capabilities for independent European satellite navigation infrastructure and services, through support to the early development of advanced satellite navigation technology which has the potential to support operational and scientific missions, both private commercial as well as institutional programmes defined by the European Union Future NAV comprises 2 components: a) LEO PNT Component, which includes the definition, development, launch operations and experimentation of a LEO PNT In-Orbit Demonstration system b) GENESIS Component, which includes the definition, development, launch

and operations of the GENESIS Mission



Program Objectives: on-board collocation of four space GNSS/Geodetic techniques (GNSS Rx, VLBI, DORIS, SLR) to contribute to improve GNSS, Geodetic and Earth Science techniques, and supporting the "Space for a Green Future" Accelerator Scientific fields: 1. Navigation - Improvement on GNSS orbits and GNSS positioning 2. Geodesy - Improvement of the International Terrestrial Reference Frame (ITRF) 3. Earth Sciences - Improvements in sea level change measurements, ice mass losses, gravity field improvement, GENESIS 70 M€



European Satellite Navigation programmes offer a unique opportunity for industry to develop state-of-the-art operational space and ground infrastructure and down-stream PNT user equipment, applications and services

- ✓ ESA CMIN22: NAVISP, Future NAV, Moonlight
- ✓ EU-ESA FFPA: Galileo, EGNOS, Horizon Europe

Europe's ambition to maintain

SATNAV World-wide competitiveness and leadership
on the Earth ... and Beyond

