



GENERAL SUPPORT TECHNOLOGY PROGRAMME

ESA Thematic Information Day
Belpo, June 2012

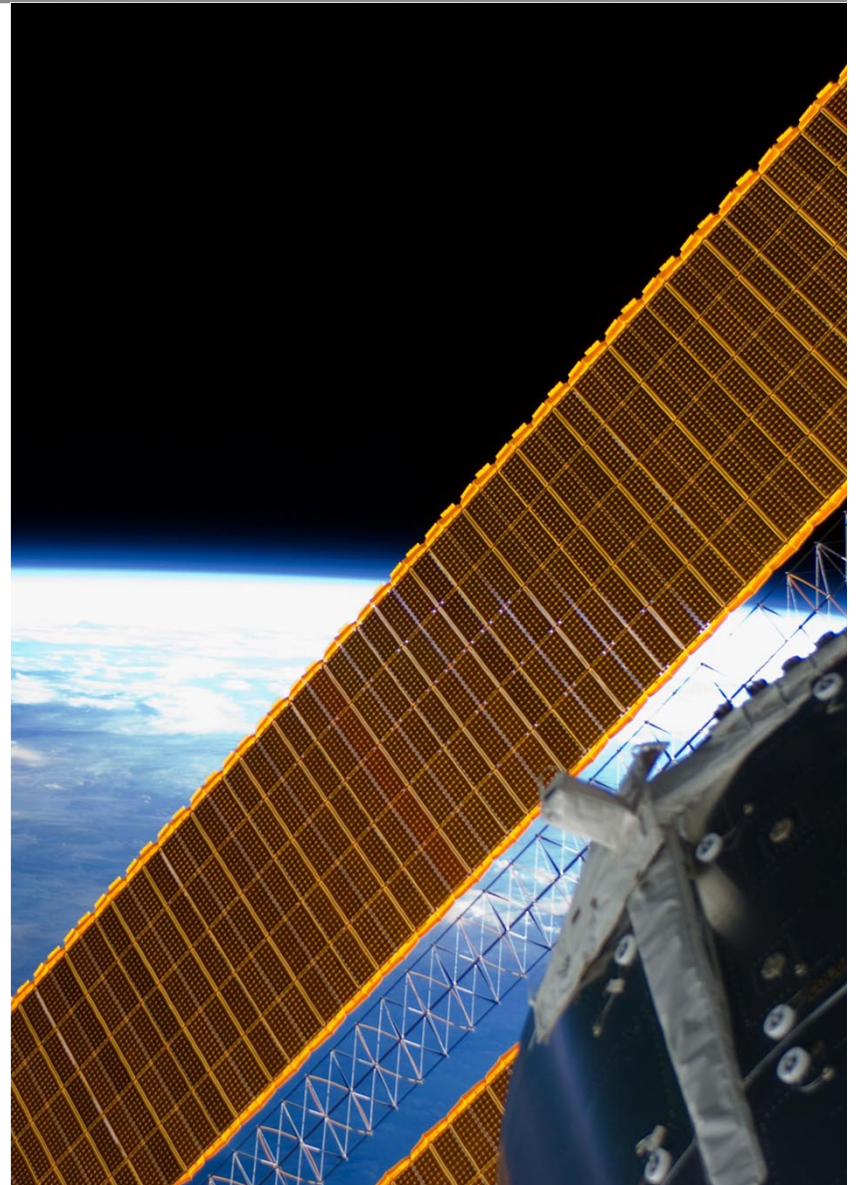
European Space Agency

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GSTP OBJECTIVES



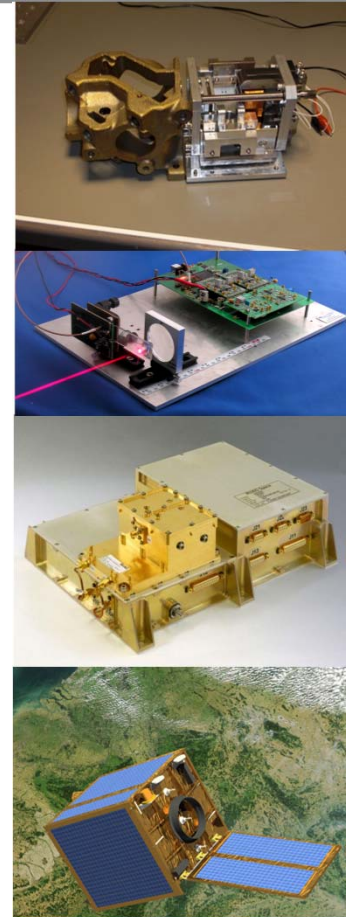
- **Enabling** missions of ESA and national programmes by developing technology
- Fostering **innovation** by creating new products
- Supporting the **competitiveness** of European industry
- Improve European **technological non-dependence** and the availability of European sources for **critical technologies**.
- Facilitate **spin-in** from outside the space sector



GSTP - OVERVIEW

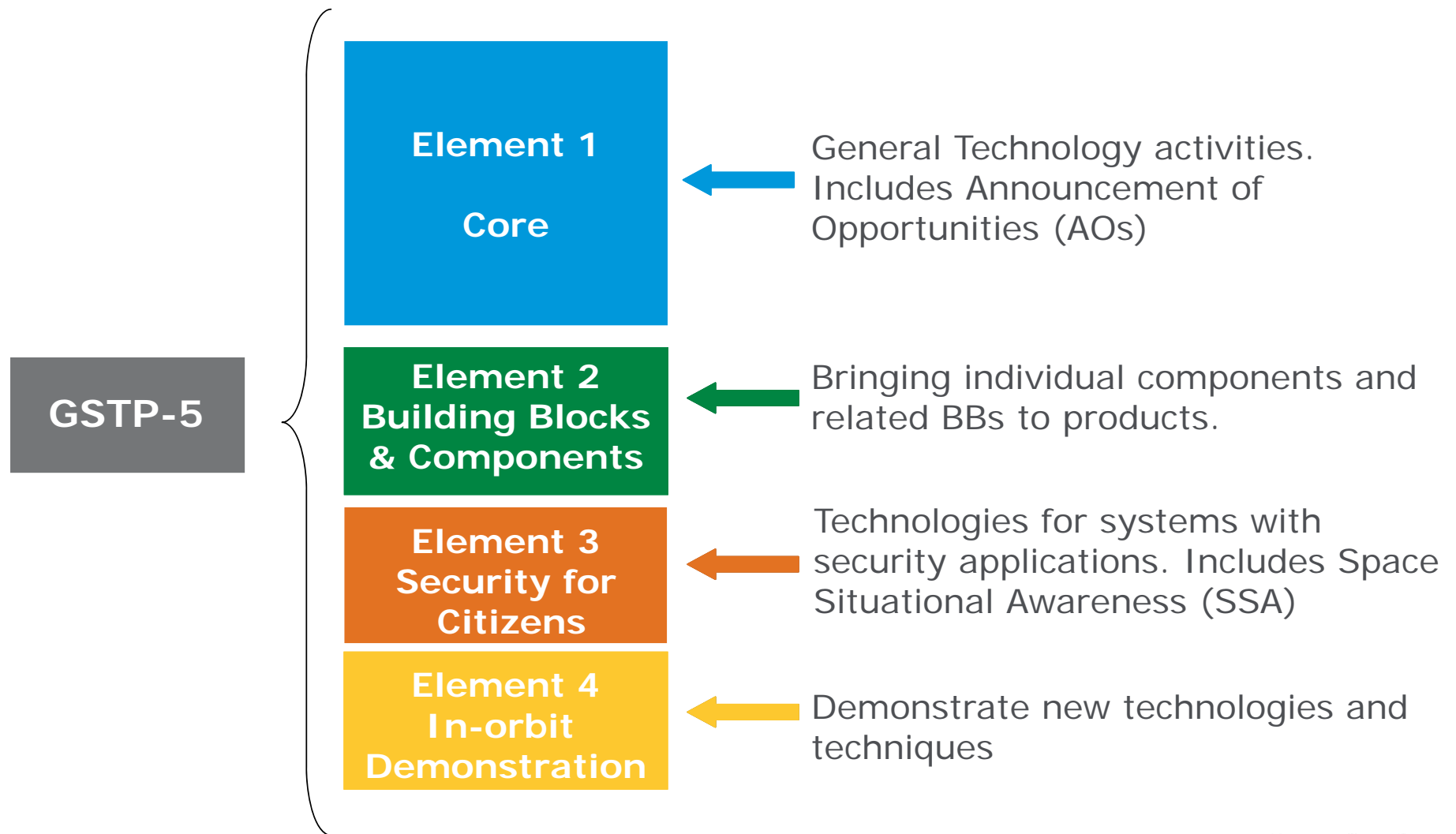


- Part of ESA's Optional Programmes.
- Voluntary participation of all Member States (including Canada as associate Member State)
- Covering all technology disciplines and applications except Telecommunications (covered by the ARTES programmes).
- Five-year Work Plans, with yearly updates, and multiyear activities.
- Budget envelop five years ~ 350 Meuro

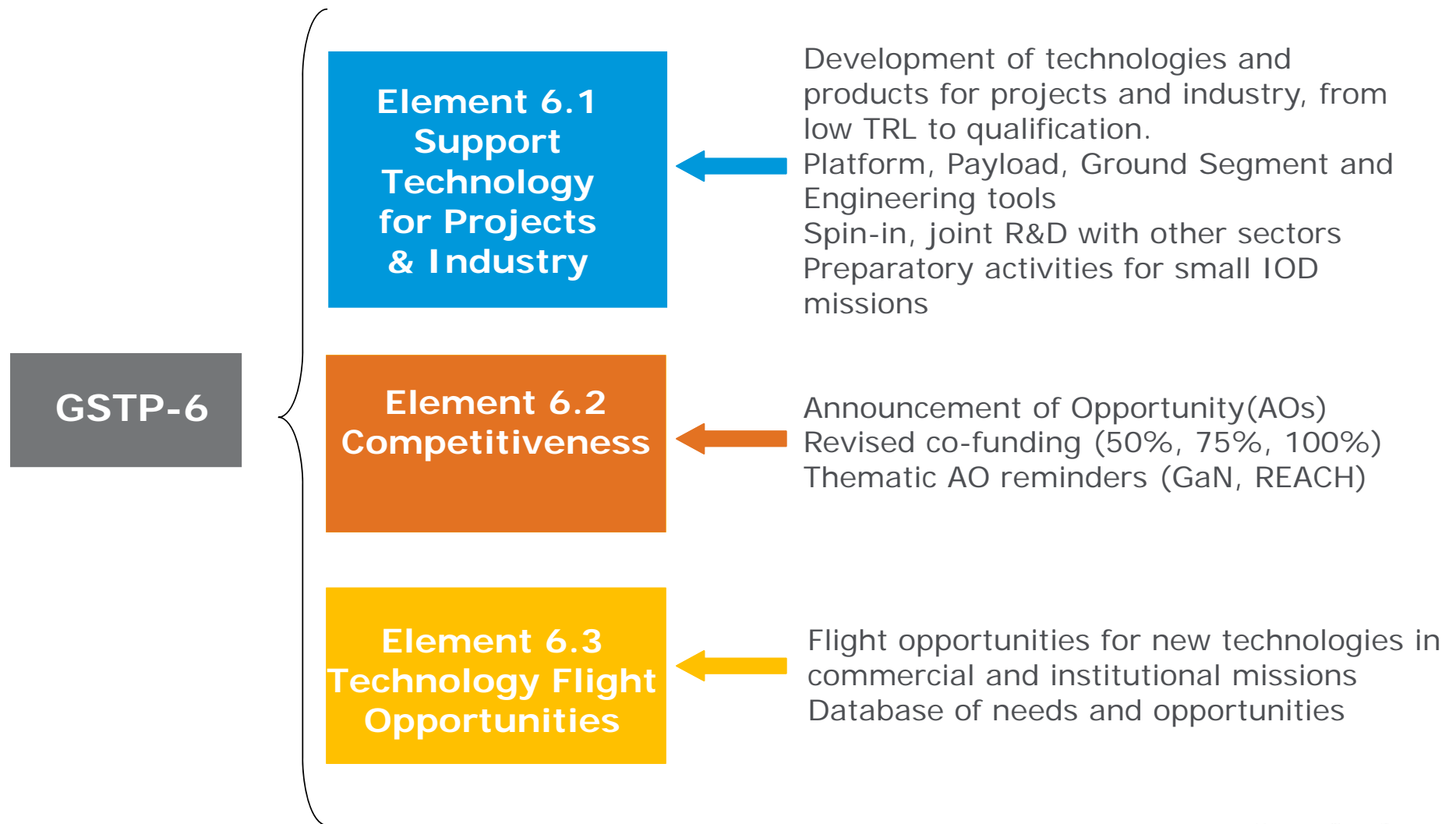


The GSTP ensures the right technology with the right maturity are available at the right time

GSTP-5 – CURRENT STRUCTURE



GSTP – DRAFT NEW STRUCTURE FOR PERIOD 6



GSTP-6 E1 – Support technology activities for projects and industry



- Development of technologies and products for projects and industry, from low TRL to qualification
- Target TRL shall be 4-6
- Development of engineering and test tools and methodologies (e.g. TD8)
- Covers technologies for space Platform, Payload, Ground Segment, and Engineering tools
- Support to Generic Technologies shall be strengthened
- Open to accommodate specific area work plans or pilot projects, like e.g. technology spin-in and joint R&T
- Preparatory activities for future IOD missions that will eventually be implemented in a separate ad-hoc GSTP Element

- Evolution of the Announcement of Opportunity
- Objective: offer to industry a mechanism for submitting at any time unsolicited proposals for market-oriented technology activities
- Issue of special thematic reminders (GaN, REACH, ...)
- Proposal to revise the funding schemes:

	Research Inst. & Universities	SME	Non SME
TRL \leq 5	Up to 100%	Up to 75%	Up to 75%
TRL $>$ 5	N/A	Up to 75%	Up to 50%

GSTP-6 E3 – Technology Flight Opportunities



- Demonstration in-orbit of technology and products
- Target TRL is 7-8
- Essential for technologies spun-in from non-space sectors and for products requiring flight heritage for commercial customers
- Development and consolidation of capabilities in Member States
- Flight opportunities will be identified with ESA projects and launches, with National partners, and with primes
- Special relation will be established with National programmes with demonstration objectives
- The utilization of the ISS will be also considered
- Needs will be identified systematically as part of technology roadmaps



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