Switch *to* Space - SPACEBEL



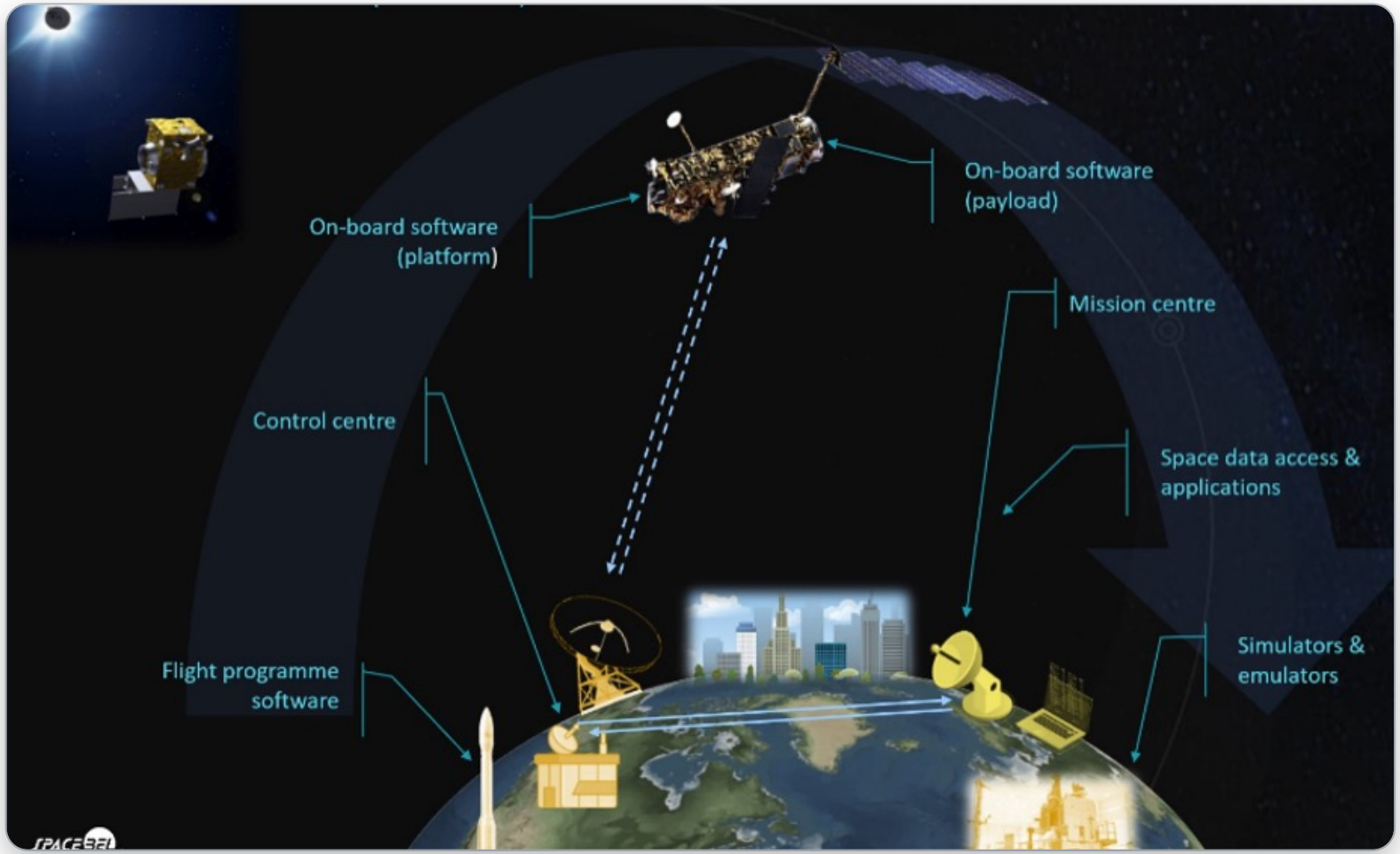
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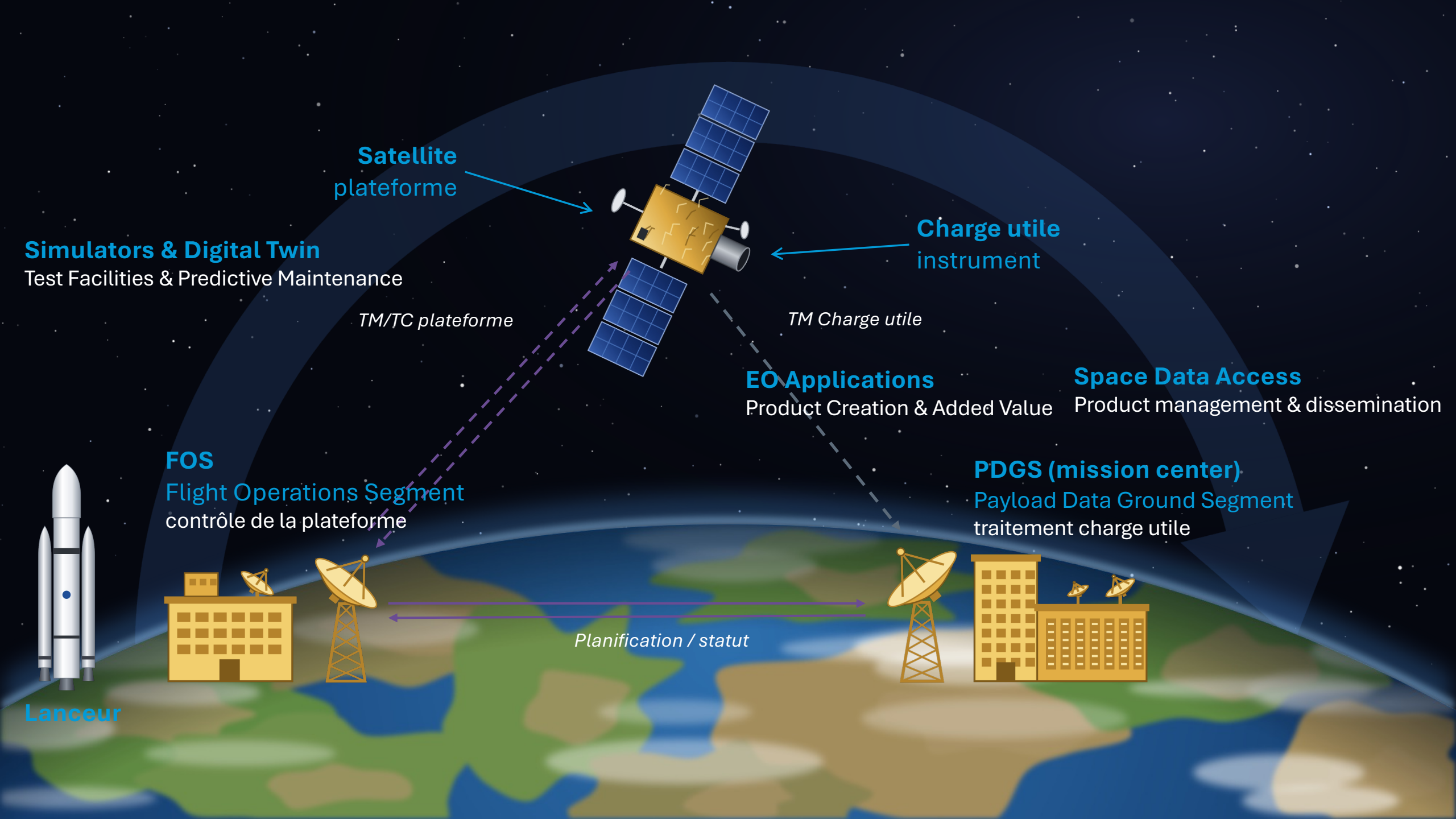
About SPACEBEL

Established since 1988, **SPACEBEL** is a Belgian space systems and software engineering company operating in the Space and applications sectors

- ✓ 38 years
- ✓ > 50 missions
- ✓ > 120 staffs
- ✓ 4 sites
- ✓ 500 m^2 clean rooms



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Satellite
plateforme
Charge utile
instrument
Simulators & Digital Twin
Test Facilities & Predictive Maintenance
TM/TC plateforme
TM Charge utile
EO Applications
Product Creation & Added Value
Space Data Access
Product management & dissemination
FOS
Flight Operations Segment
contrôle de la plateforme
PDGS (mission center)
Payload Data Ground Segment
traitement charge utile
Planification / statut
Lanceur

MISSION AND CONTROL CENTRES

SPACEBEL is a recognized developer of IT systems for the ground segment. It has a comprehensive knowledge of all sub-systems key requirements and constraints, and has a strong background in automation and mission planning technology. **SPACEBEL** offers turnkey mission and control centres for various types of missions and develops cloud-based ground segment functionalities.





REMOTE SENSING DATA MANAGEMENT

SPACEBEL specializes in the development and operation of data and information acquisition, integrity, archiving, discovery, processing, retrieval, visualization, dissemination and quality control. Its core expertise includes web-based spatial data infrastructures and service provisioning infrastructures facilitating interoperable discovery and access to earth observation data and application services consuming these data.

EARTH OBSERVATION APPLICATIONS

For many years **SPACEBEL** is operating in the sector of earth monitoring applications. The sustainable management of agriculture, forestry, natural resources and ground motion are part of the company's portfolio. Critical raw materials is a sector of importance too with a participation to the MINEYE European project, for which **SPACEBEL** will develop EO services for a resilient mine life cycle monitoring.



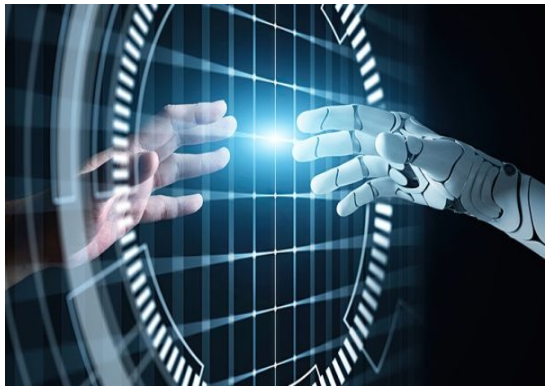


ON-BOARD SOFTWARE*

SPACEBEL is a leading provider of on-board software and on-board data management. It develops flight software for platforms, payloads or sub-systems of satellites, space probes or launchers, for earth observation, science, meteorological, telecommunication or space defence missions, over the entire lifecycle: early concept studies, analysis and specification, architecture, design and development, validation and qualification.

MODELLING AND SIMULATION*

SPACEBEL is a leading developer of system modelling and simulation products for satellites and probes segment, launchers segment, orbital transportation systems and ground segment. It addresses most of the related technology domains, e.g. satellite operational simulators for mission control, software validation facilities, numerical modelling of space environment, emulators of on-board processors, and much more.





SPACEPORTS AND LAUNCHERS

SPACEBEL is supporting Avio-ELV in the development and evolution of flight software piloting the Vega launch vehicle, in the guidance, navigation and control software engineering activities and in the simulation software. It is also the developer of the CNES Agency's simulation platform operated in Kourou (Guyana) for Ariane & Vega programmes, and participates to the ESA's Future Launchers Preparatory Programme.

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*** EUROPEAN TOP 2**

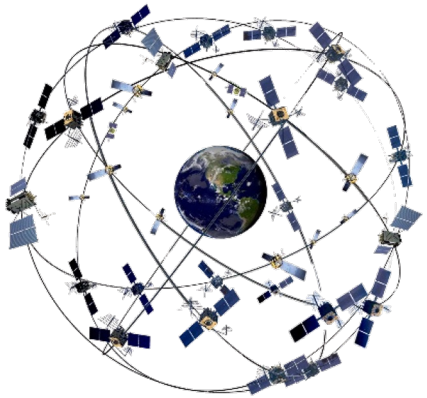
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The Mission Wall

Perspectives on the trends, challenges, changes, ...

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Some basics to keep in mind

- Science matters, and it will keep mattering

- Don’t let the reputation of science studies scare you off
  - They’re demanding, but very doable with regular work

- Expect your path to change once you start working
  - Just make sure you keep doing things that interest you

- Space isn’t only for engineers
  - Biologists, chemists, doctors, psychologists: there’s room for many profiles

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Using AI while you’re still learning

- How do we keep real skills while still getting the benefits of AI?

- If you lean on AI before you’ve mastered the basics, you may never build solid foundations
  - And we all depend on people who truly understand their job
  - Use it to explain, check or practise, not to think for you

- The real skill: knowing when to use AI, and when not to

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Stay the course, keep going

- There will be hard moments: a bad grade, a subject that won’t click, a year that feels too long
  - That’s normal, and it happens to everyone, including those who later succeed

- Keep your goal in sight, even when the path gets steep
  - A detour is not a dead end

- Ask for help & support when you need it: teachers, friends, family

- No pain, no gain

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