

The 2nd EO commercialisation forum

November 27th, 2024,

KAP Europa, Frankfurt

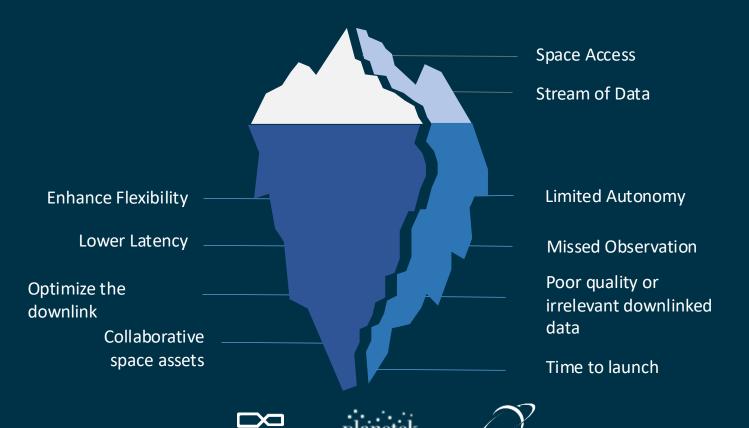








The Challenges of the current EO Value Chain



AIKO



A user-centered laboratory

in Space



A technological framework composed of hardware, software and services. These provide a set of basic and advanced building blocks that AI applications can be built upon. In other words, a testbed for AI (and not only)

provide access to information acquired directly from assets in orbit exploiting and privileging a service-based approach

improving the implementation and validation of space services, with effects on timeto-market, operational and commercial efficiency

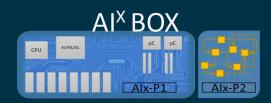
devising and testing new mission concepts in orbit





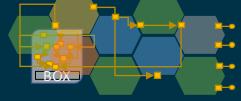


AIX products/services



Includes the AI^X-BOX and a software framework enabling the **on-board services** intended to the other sub-systems and payloads. It includes also the SW development kit, with a set of ready-made applications, and the tools allowing the development of new ones

S1 On-Board Services



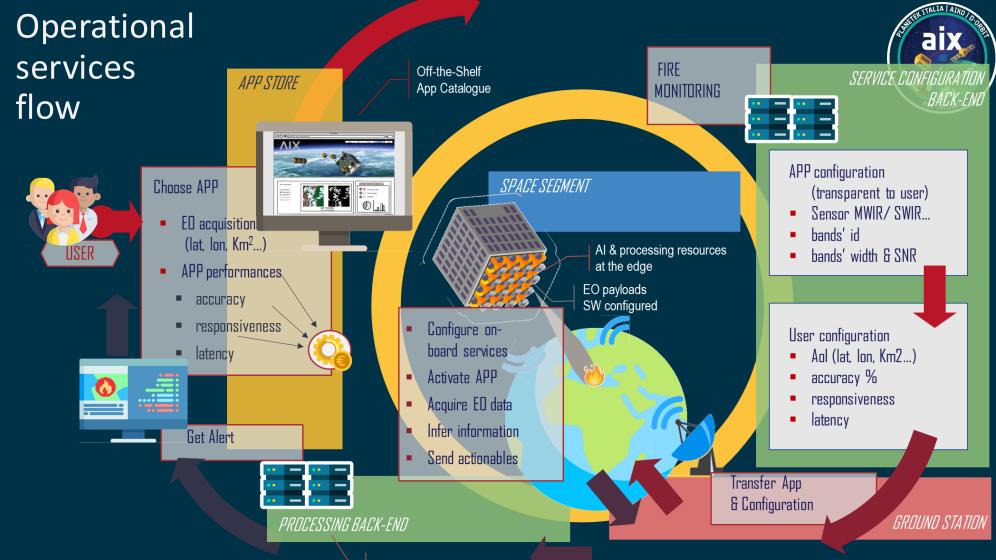
The AIX-BOX is embedded in a satellite Carrier (e.g. D-Orbit's ION) and provides its services to payloads hosted onboard. In this way several payloads can pay-per-use the access to the AIX capabilities, services and environment



A set of services à la carte based on AI^X On-Board framework with a public catalogue and an "app store" approach. Services will include EO data acquisition, processing (actionable info extraction) and downlink. They can be combined together to build custom applications. Readymade applications (e.g. fire detection and warning service) are available on the app-store.



A development kit (SW only) intended to the implementation of applications that are based on the AISF framework and that can be run on any AIX On-Board Service. This will enable the "app-store" selling model.



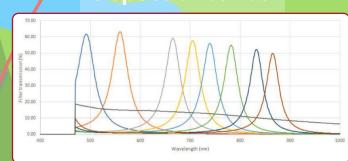
Sensor in-the-loop

Low-latency edge processing



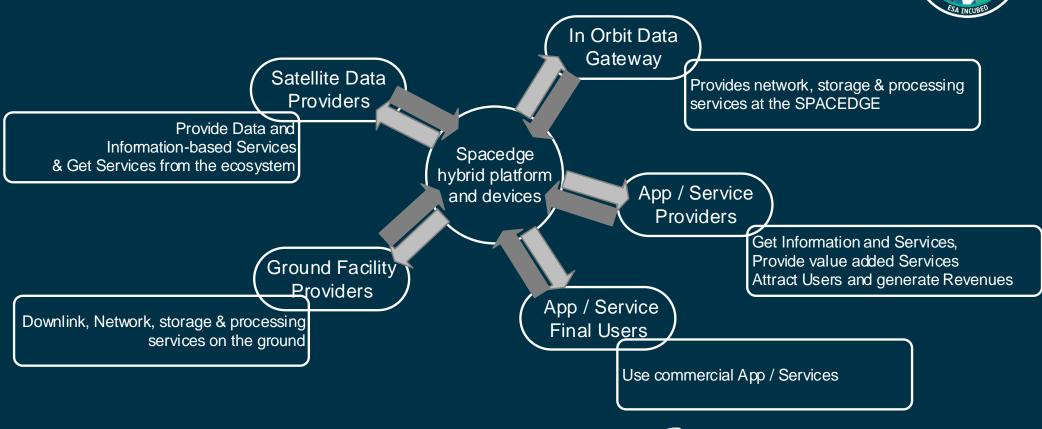


8 spectral bands



Establishing a new business mode aix

a multi-sided approach









What's next









AIX-1

January 2025:

- F9 Transporter-12
- SSO +/- 0,1 deg
- 500-600km +/- 20km
- LTDN 10:30 + 60min

June 2025:

- F9 Transporter 14
- LTDN 13:00 + 2h / 0h
- SSO +/- 0,1 deg
- 500-600km +/- 20km







Evolutions:

AIX is not an EO satellite







"The famous pipe reproached me for you stuff my pipe representation, is written on my pice pipe", I'd have bee

René Magritte