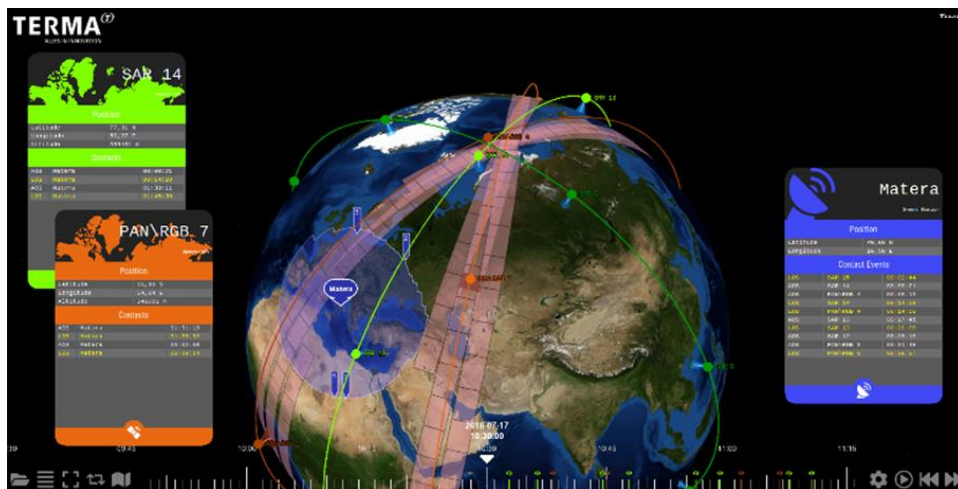# SPACECRAFT SIMULATORS

TERMA Operational Simulators and
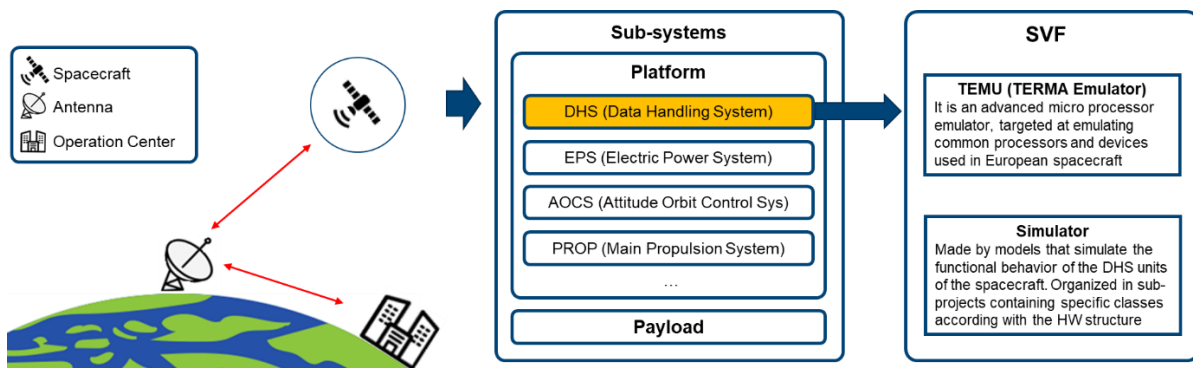## OBC Simulators

They are two types of Simulators:

Spacecraft Operational Simulator:

- ✓ for **verification** of the mission control facilities,
- ✓ for **training** of the operational staff,
- ✓ and **validation** of the operation procedures.
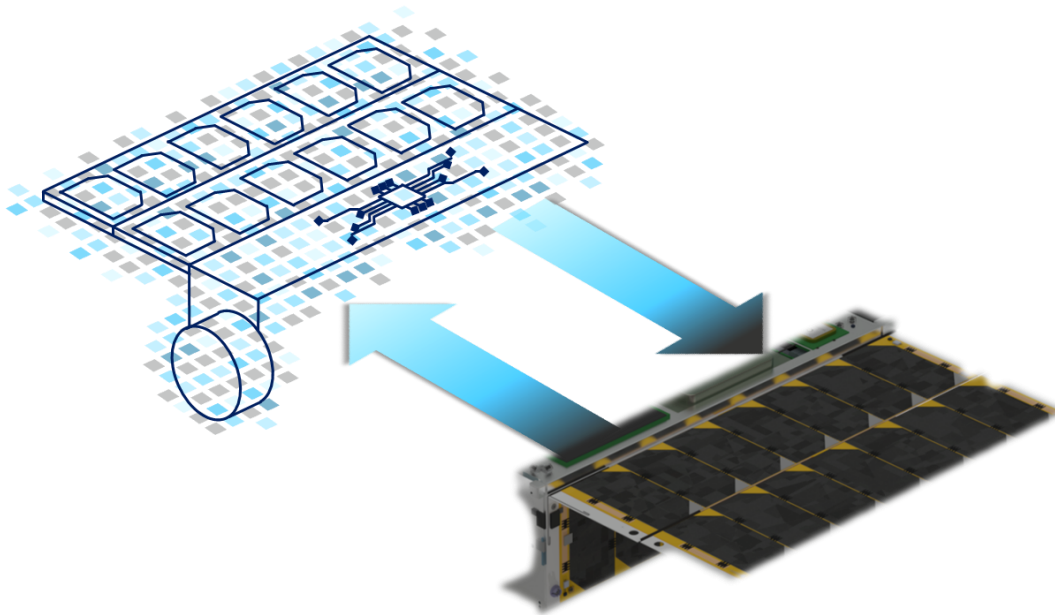

OBC Simulators:

- ✓ the **Digital Twin** of the On-Board-Computer,
- ✓ for **testing** of the On-board Software (ONSW) before the integration into the Spacecraft.

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Spacecraft Simulators

TERMA uses both, **COTS libraries and infrastructure** (e.g. SIMULUS) as well as **own developed Models and Software** (e.g. the *TEMU* Emulator).

- ➢ Simulators include the MIB/SDB and **accept all relevant Telecommands (TC)** and **generate all corresponding Telemetry (TM)** including the FDIR behavior.

- ➢ Terma's Simulators include its own developed market-leading Emulator *TEMU* in order to emulate the state-of-the-art On-board processor(s) capable of running any On-board Software.

TERMA has more than **20 years heritage in building spacecraft simulators** for both, the commercial EO domain and institutional science missions including deep space.

More detailed information also on the **following Brochures**:

- ❖ *Operational Simulators*

- ❖ *OBC Simulators*

- ❖ *TEMU*

You are interested in a Spacecraft Simulator for your single Spacecraft or Constellation?

Reach out to us for further information: terma.space@terma.com

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