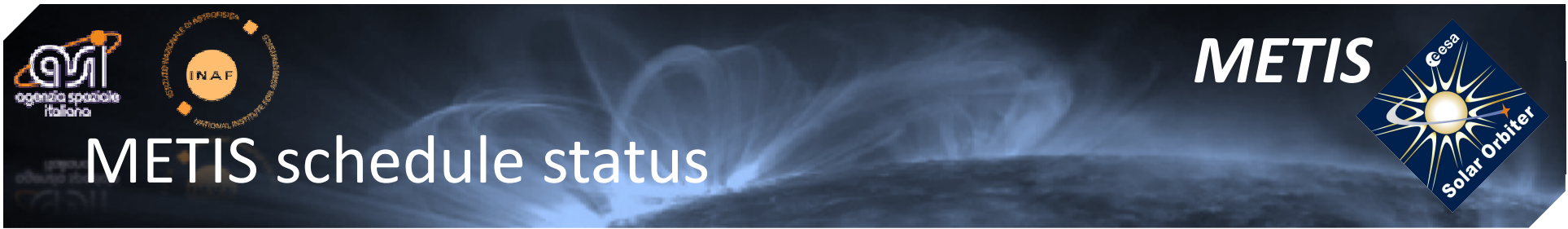


METIS schedule update

Giampiero Naletto

METIS 2nd Science and Technical Meeting
 Turin, 12-13 December 2012





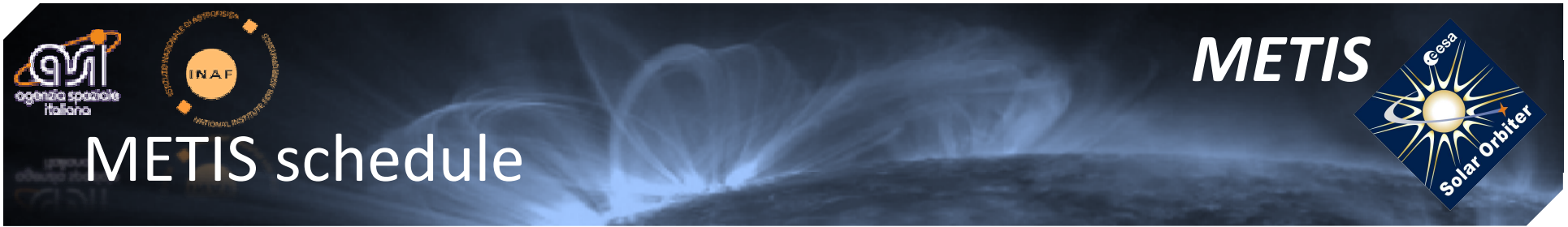
METIS had successfully passed the ESA PDR at the end of June 2012. This has concluded the B Phase.

There is however a shift between the actual METIS status and the schedule foreseen in the ASI Industrial Contract with METIS Prime, where the METIS Phase B will be formally concluded at the end of December 2012.

After PDR, METIS scientific team, ASI, ESA and Prime, agreed on a strategy to recover the gap and to converge on a common schedule in line with ESA Solar Orbiter global schedule. Unfortunately, the METIS descoping forced to change the foreseen recovery plan, and we are presently still working on it.

Here there is just the description of the major METIS deliveries, based on the not-descoped configuration, and on a January 2013 METIS C/D Phase kick-off. On one side, descoping is simplifying (and contracting) the schedule; on the other, due to still undefined issues, it is introducing a not yet quantified delay.





Present METIS development plan (not-descope configuration) foresees the delivery to ESA of three models:

- METIS Structural and Thermal Model (STM)
- METIS Engineering Model (EM)
- METIS ProtoFlight Model (PFM)

Assuming the kick off of the METIS C/D Phase on January 2013, the corresponding delivering dates of these models to ESA are:

- STM: February 2014
- EM: June 2014
- PFM: January 2016





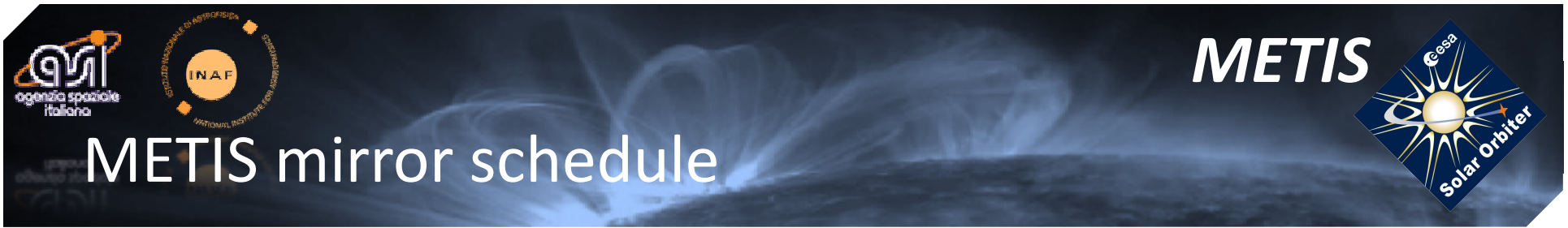
To fit with the described METIS schedule, the corresponding detector models have to be delivered to METIS Prime at the below specified dates, still assuming a C/D Phase kickoff on January 2013:

- UVDA/VDA STM: October 2013
- UVDA/VDA EM: April 2014
- (SWRI foresees to realize also UVDA/VDA QMs, not to be delivered, for internal developments)
- UVDA/VDA FM: October 2014

This reflects also on the MPS schedule, which has to provide the UVDA sensor head:

- UVDA FM sensor head (to be delivered to SWRI): April 2014





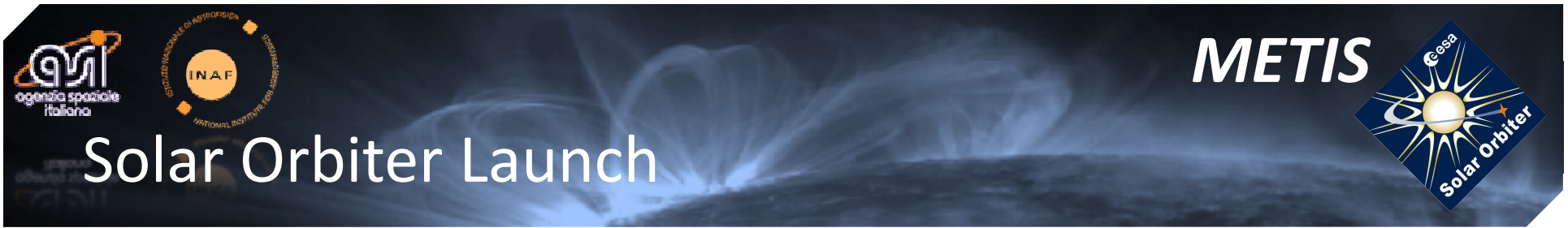
Another partner contribution (Toptec, through the Astronomical Institute, Academy of Sciences of Czech Republic) is the polished telescope mirrors, M1 and M2.

In the detailed METIS schedule (kickoff on January 2013), these mirrors have to be delivered for coating, mounting and then delivery to Prime at the following dates:

- M1/M2 QM: October 2013
- M1/M2 FM: December 2013

There is presently a delay in the foreseen delivery date, since Toptec said they will be able to deliver M1 and M2 polished substrates not before March 2014.





The here described METIS schedule is in line with a possible launch of Solar Orbiter in 2017.

ESA rumors however gives as possible a SO launch delay ...

