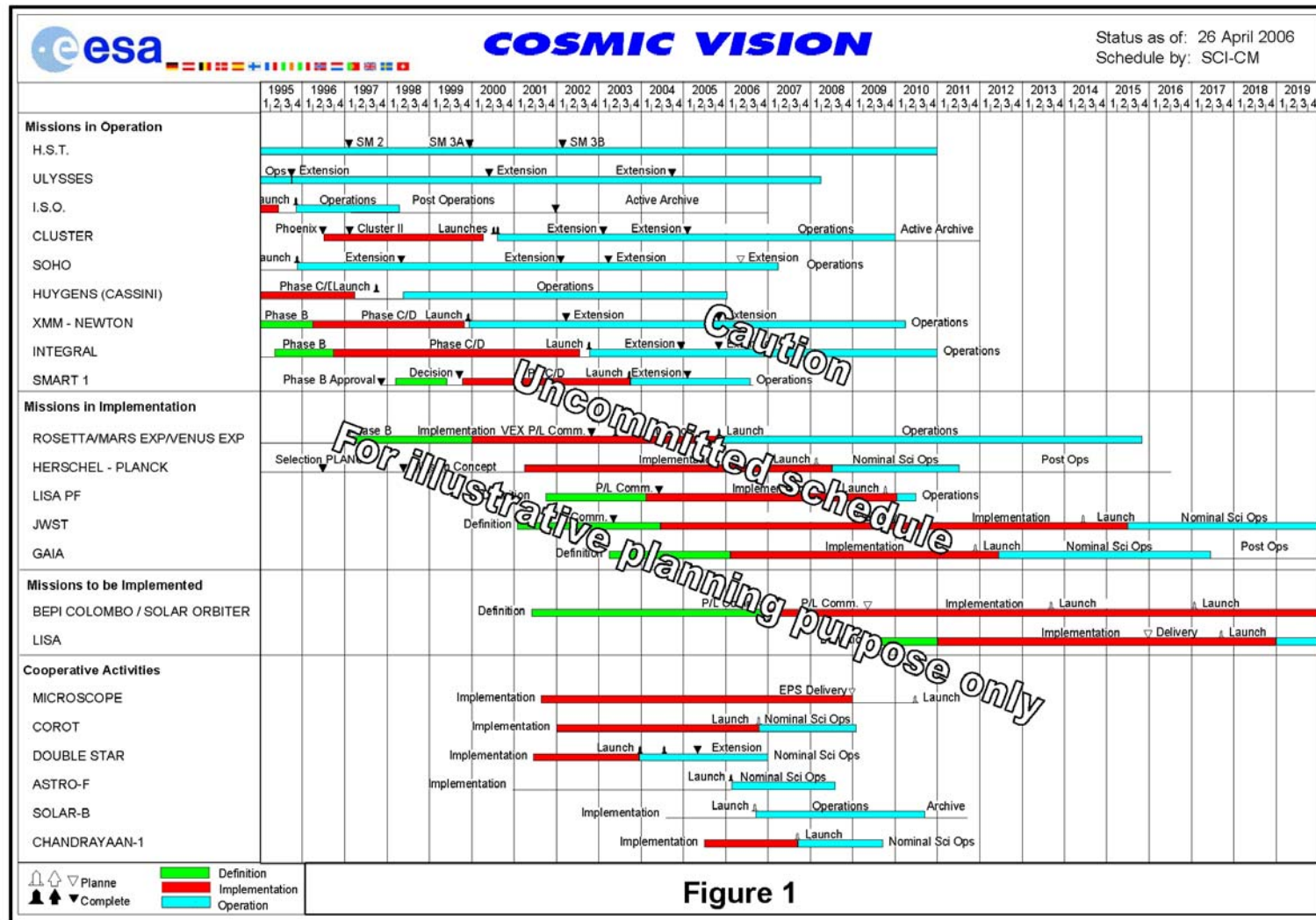


ESA's Present Cosmic Vision



ESA's Cosmic Vision 2015-2025



Themes:

1. What are the conditions for life and planetary formation?
2. How does the Solar System work?
 1. From the Sun to the edge of the Solar System
 - “First, the hierarchy of scales in the magnetosphere (e.g. M3, Magnetospheric SWARM)”**
 2. Gaseous Giants and their Moons
 3. The Building Blocks of the Solar System: Asteroids and Small Bodies
3. What are the fundamental laws of the Universe?
4. How did the Universe originate and what is it made of?

Giovanni Bignami, chairman SSAC, 10 May 2005

CV 2015-2025: Constraints (Wolfgang Baumjohann's View)

- Total Money available in those 10 years: 3 B€
- Calls for Missions in Slices (1 B€ each?)
- First call depends on SPRT
- Money available for 1st call: after 2010 only
- 6 missions will be selected for detailed study
- 2 missions to fly around 2020

- Mission categories:
 - **S**: < 300 M€, baseline of single Soyuz-Fregat launch
 - **M**: up to 600 M€
 - **XL**: for astronomers
 - **IC**: International Cooperation **agreed on**



CrossScale - The ESA context



- Cosmic Vision 2015-2025
 - Relative to other CV mission concepts, Cross-Scale is:
 - **Cheap**: < 300 M€, baseline of single Soyuz-Fregat launch
 - **Quick**: early in programme – may be first mission to fly?
 - **Easy**: no technological show-stoppers
 - Potential for international collaboration: JAXA
 - **SCOPE**: 5-s/c mission for cross-scale plasma dynamics
 - Led by M. Fujimoto ISAS
 - CrossScale is ILWS focus (after Sentinels)
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