

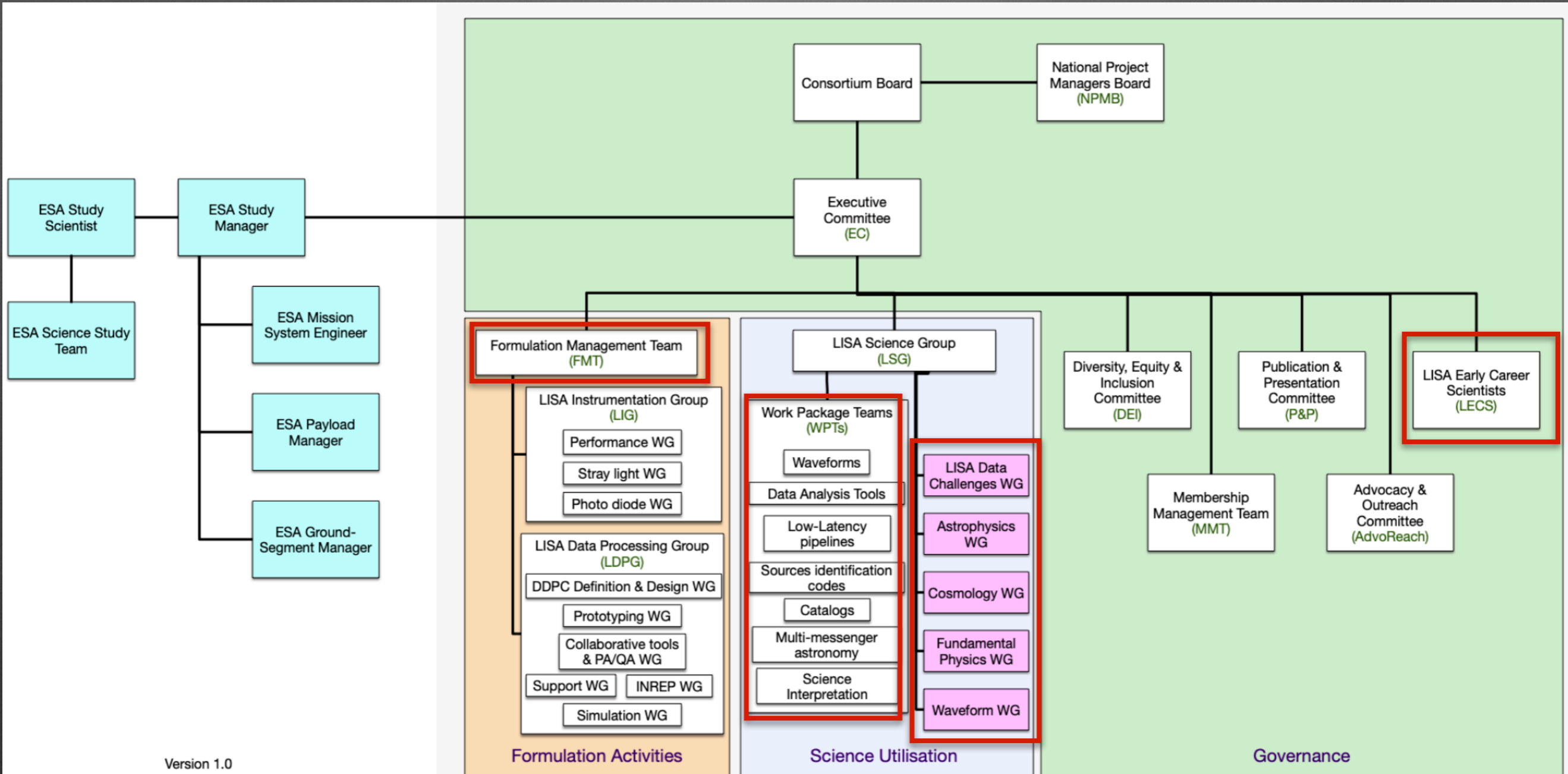
# STATUS OF THE DIFFERENT WORKING GROUPS AND WORK PACKAGES

Journée LISA France 2023

Astrid Lamberts



# CURRENT CONSORTIUM STRUCTURE



Version 1.0

*Note: only formal interfaces are shown*

# LISA WORKING GROUPS

**LISA Data Challenge** (FR co-chair: N. Korsakova/Q. Baghi)

White Paper in preparation

Analysis of Sangria (Supermassive black hole+Galactic binaries+ Gaussian noise) and Spritz (with more realistic noise)

Imminent release of Yorsh challenge (single source extreme-mass ratio inspiral and stellar binary black holes)

Data simulation workshop Nov. 2023 @APC

**Astrophysics WG** (FR co-chair: M. Volonteri)

White Paper accepted (<https://arxiv.org/abs/2203.06016> )

Creation of supermassive BH catalogs from « all » existing models, same for Galactic binaries, comparison of hydrodynamic simulations of massive BH mergers for rates and waveform computations

Meeting in Sept. 2023 in Milan

# LISA WORKING GROUPS

**Cosmology WG** (FR co-chair: N. Tamanini)

White Paper accepted (<https://arxiv.org/pdf/2204.05434>)

Publication on primordial black holes

Set up of new rules for collaborative projects

About to start project with Fundamental physics group on alternative GW polarisations

workshop June 2023 in Stavanger

**Fundamental Physics WG**

White Paper accepted (<https://arxiv.org/abs/2205.01597>)

Meeting in August 2023 in Copenhagen, next one in Sept 2024 in Potsdam

Several projects about to start

**Waveforms WG**

White Paper submitted

Probable meeting with Fundamental Physics in Sept.

# LISA WORK PACKAGE TEAMS

Science Interpretation WP (FR co-chair: S. Babak)

Paper « effect of mission duration on LISA Science Objectives ».

Paper « effect of low frequency sensitivity on LISA ... » in prep.

Design of Figures of Merit and participation in Red Book

Currently on hold, waiting for post-adoption activities

Multimessenger and Multiband Astronomy (FR co-chair. A. Lamberts)

LISA Alerts document

Contribution to Red Book

Monthly telecoms with science talks about multi messenger/multiband

Slower activity at the moment

# LISA EARLY CAREER SCIENTISTS (LECS)

Mentoring program

Job Fair (<https://forms.gle/L6zWoL5SJ41AJmny6> )

Regular telecoms with talks by early career researchers, all topics relevant to LISA

Organisation of summer school Sept. 2024 on LISA Data analysis

Special events at meetings

Join if you are an early career scientist