

# High Field Magnets Programme Working Groups

E. Todesco, B. Auchmann

February 16, 2024



# Cross-cutting and in-depth

- WGs serve for in-depth expert discussions and collaboration.
- WGs have defined scope and may exist for a limited time.
- They shall not duplicate the status-update function of the HFM forum.
- The need for WGs arises when
  - multiple actors are active in the same area of expertise.
  - the topic requires a joint effort by actors from different fields, RD lines, or even programs/projects.

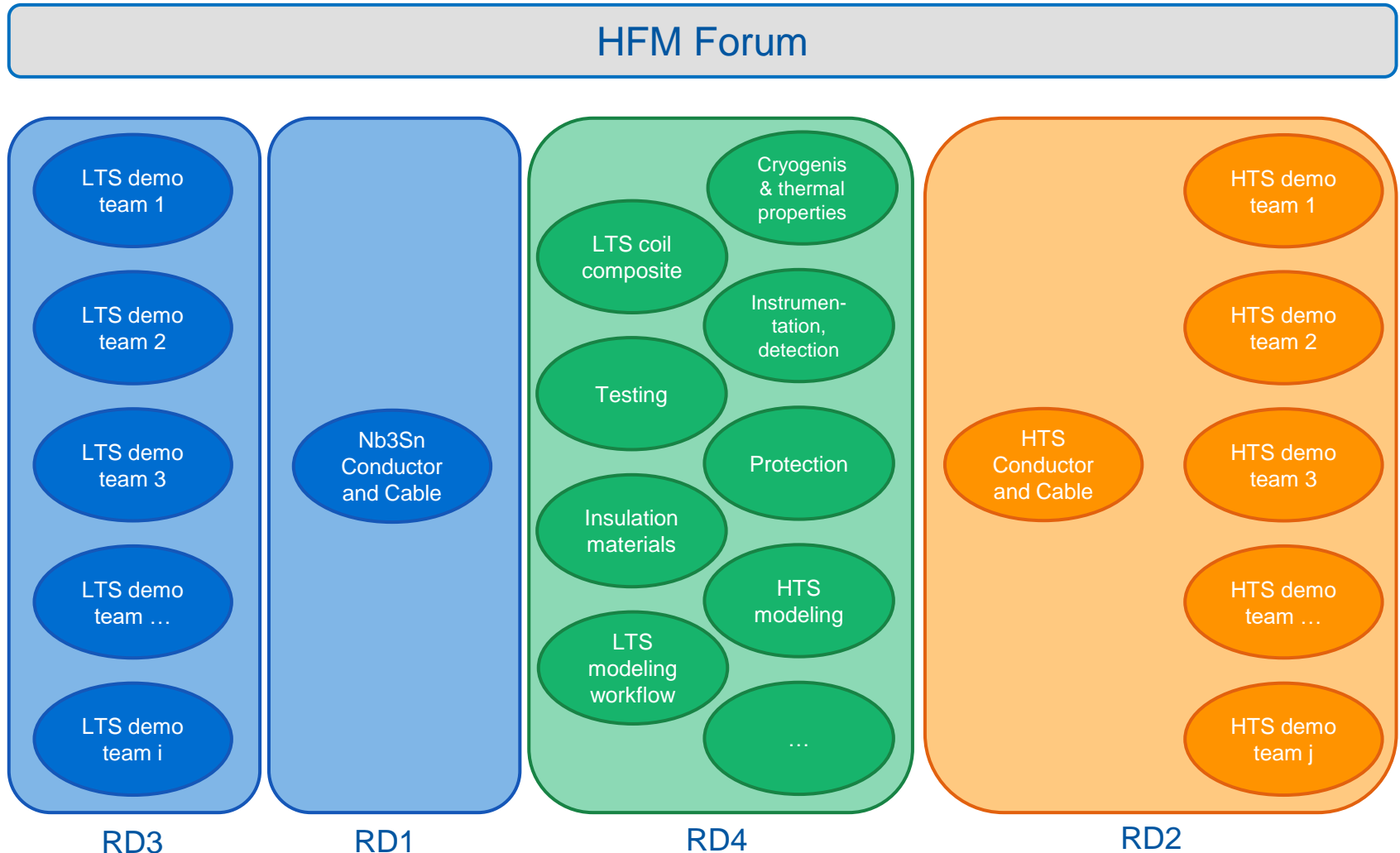


# Light-weight and informal

- WGs are generally bottom-up initiatives
  - The last RDL4 meeting saw a demand for expert working groups.
- Existing examples:
  - Resin WG (exists around the nucleus of ETHZ-PSI-CERN collaboration, every 1-2 months)
  - Common-coils WG (BNL, CIEMAT, IHEP, PSI, every 2 months)
  - BOX program WG (PSI, uTwente, every 1-2 weeks)
  - To some extent, magnet projects are cross-cutting WGs
- Researchers who intend to form/modify/close a WG should inform concerned RDL coordinators and PLs.



# HFM Collaboration Mechanisms

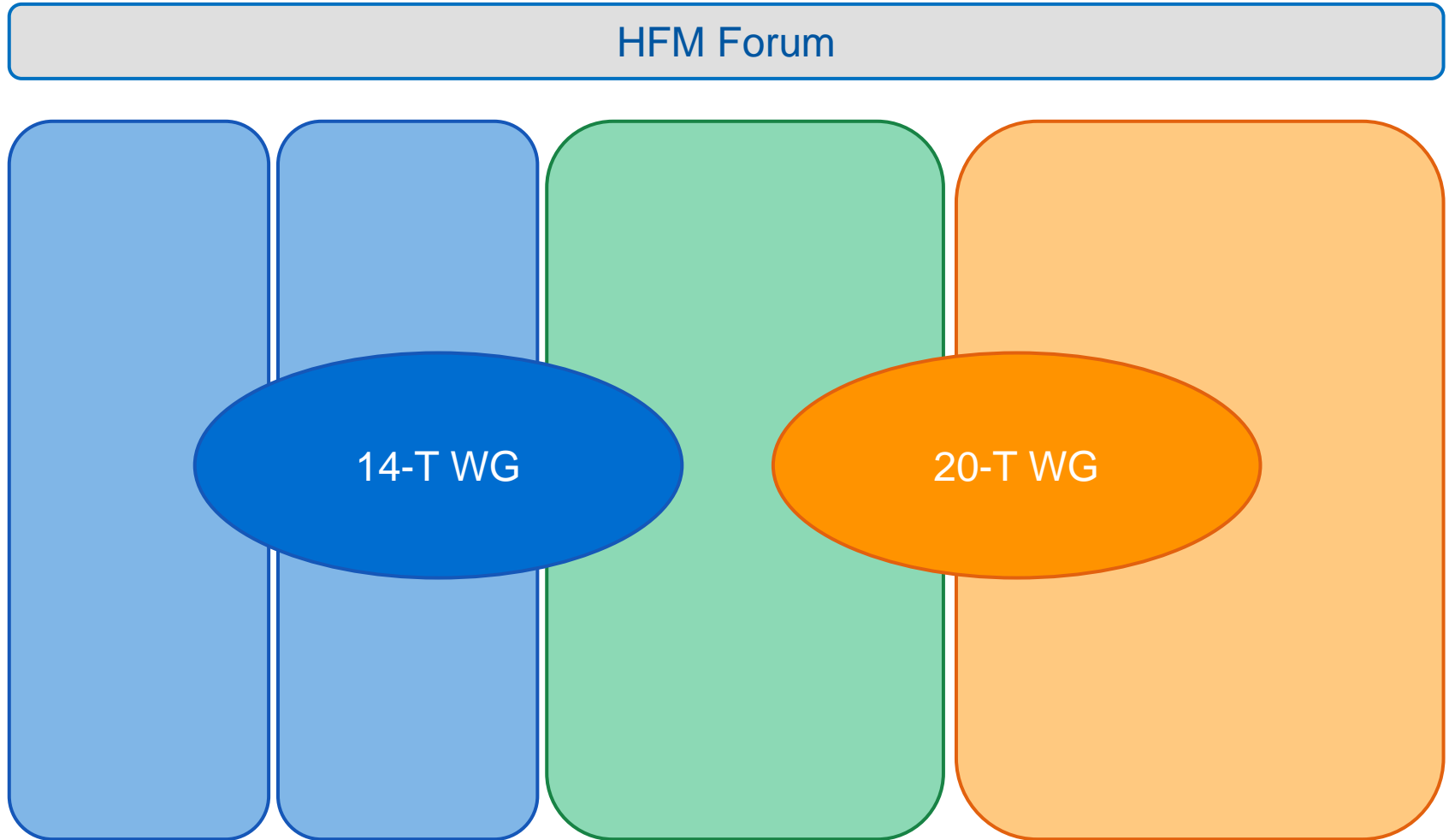


# 20-T and 14-T WGs?

- We are discussing the creation of a 20-T WG.
- Scope:
  - in-depth discussions of main technical challenges
  - brainstorming of solution strategies
  - bridging RDL4 and RDL2 activities
  - discussion of multi-system problems spanning HFM and FCC such as sustainability / power consumption
  - merits of hybrid vs. all-HTS
  - etc.
- Could be monthly, using HFM timeslot.
- A similar WG could be introduced around the 14-T goal.
- What are the merits of a wide-ranging WG with respect to several smaller WGs?



# HFM Collaboration Mechanisms



# Outlook: Tools

## Collaboration Tools

- website for external communication
- intranet (sharepoint) for internal info and resources
- indico for HFM forum meetings, annual meeting, some WGs
- cernbox for WG data sharing
- messenger (CERN's Mattermost) for WG discussions beyond meeting



# Outlook: Annual Mtg, Workshops

- The 2024 annual meeting will be held at CERN.
- In-person thematic workshops can be organized when the WG mechanism is not efficient enough.







**HFM**  
High Field Magnets  
Programme