**WP2: Data Infrastructure for Open Science**

*2.1: A prototype data lake*:

* + FAIR/GSI contributes two rucio storage elements (RSEs).
    - GSI-ROOT is the older RSE that is kept running for testing purposes.
    - FAIR-ROOT provides 20TB of storage on the Lustre shared filesystem.
  + The FAIR data lake, is being developed at GSI (will soon span three participating sites, GSI, KIT and RUG).
  + GSI is actively participating in XRootD development to fulfil data lake requirements. Performance in different scenarios has been investigated and presented in a WP2 caching meeting.

*2.2: Integration with Compute Services*:

* + There is on-going cooperation with both the CBM experiment and RUG (Technical university Groningen).
  + “CBM analysis” use case to be used with both the FAIR and the CERN based data lake.

*2.3: Networking:*

* + GSI contributes two Perfsonar instances as recommended, one for latency/loss and one for bandwidth measurements. After those Perfsonar instances were set up, they were also used to participate in the Perfsonar ALICE-mesh.

**WP3: Open-source scientific Software and Service Repository (OSSR)**

* On track at "onboarding"
  + Writing onboarding tech report is in progress
  + projects are already listed at zenodo
* Demo container is on dockerhub.
* Metadata (codemeta) is progressing.
* Link with Matter and Technologies, a German national program in the Helmholtz research program Matter, is under discussion.

**WP5: ESFRI Science Analysis Platform**

* CBM provided an interactive analysis use case based on Jupyter NB and Docker Container.
  + In a first prototype setup, CBM data are read from the data lake, are analysed, and the output is written back to the data lake.
* This prototype will be brought into production mode with proper configuration and interfaces.
  + It is planned to attach it to the Jupyter platform of RUG from where it will be interfaced to the ESAP analysis platform.