mTCA.4 as a BE-CO supported front-end platform

- Following a successful proof-of-concept, BE-CO will start an initiative to make mTCA.4 a fully supported front-end platform.
- The following topics will be addressed:
  - Procurement of crates, power supplies, MCH, CPU etc.
  - Hardware management and installation.
  - Integration into the controls infrastructure (front-end OS, drivers etc).
  - Remote management and monitoring, in collaboration with the COSMOS project.
  - Provision of a standard means of timing reception on the mTCA.4 platform.
  - Support for mTCA.4 hardware development, including selection of standard components, such as a Module Management Controller (MMC).
- Where possible, collaborations with other user groups (e.g. CMS, DESY, GSI, ESS) will be established.

mTCA.4 use cases

- In order to ensure that appropriate support is provided, we need to identify:
  - Which groups are interested to use mTCA.4 as a front-end platform?
  - Outside of RF, has anyone else invested in mTCA.4 test systems?
  - What are the expected use cases and what are their particular requirements?
  - How many systems would be needed for those cases?
- We currently expect to be able to deliver a fully supported platform close to the end of LS2, mainly due to the time which will be taken for procurement.