

MU2E Scientific Board meeting
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WP6 (Transfer of Knowledge Co-leader)

Transfer of knowledge to PRISMA

- Prisma is one of the companies partner of the MUSE project and has a high degree of expertise in the design of electronic systems for the industrial field, but aims to extend its potential market also to the big research laboratories (CERN & Fermilab & ...) developing systems to be used in the fundamental research
- Many of the other partners, and between them INFN, has a lot of expertise in designing electronics for the research, so we organized several meeting to exchange engineers with Prisma, seconding some of them to Italy and transferring the needed information to them.
- One, currently in Pisa, is working head to head with some researchers of the MU2E group, in the design of the electronics needed to test the full production of the Silicon Photo Multipliers for the Calorimeter. This will be a good occasion to let Prisma employees expert of the use of this kind of photodetector, which is quite a new entry on the particle experiments but is becoming the de-facto standard in all the new systems.

Transfer of knowledge to ext. companies

- Many companies, even if not directly partners of MUSE, are interested in what the scientific partners are developing in terms of mechanics, electronics and also vacuum systems.
- In particular complex systems like the MU2E and G-2 experiments require strict rules of QA and QC not standard in the industrial field.
- In terms of QA we had several contacts with a company Microtest, located near Lucca- Italy, which is interested in the QA rules normally used in the research field. One of their engineers spent some time in INFN and at the end of the training the company could be admitted to the industrial field. We plan for the building and QA of Mu2E parts

