

BE

**Beams Department** 

## **Plans at CERN for electronics and communication** in the Distributed I/O Tier G. Daniluk, E. Gousiou



## **Distributed I/O Tier is**

Custom electronics installed close to the machine

Controlled over the Fieldbus Tier from a master in the **Front-end Tier**.

The DIOT equipment, usually FPGA-based, spans over radiation-exposed 😭 and radiation-free (\*) areas.

Without a centrally supported service, each equipment group has independently developed custom solutions



## We propose a modular, centrally supported DIOT hardware kit for radiation-exposed and radiation-free areas







**Application-specific Parts** 

## White Rabbit FMC

Industrial Ethernet FMC



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