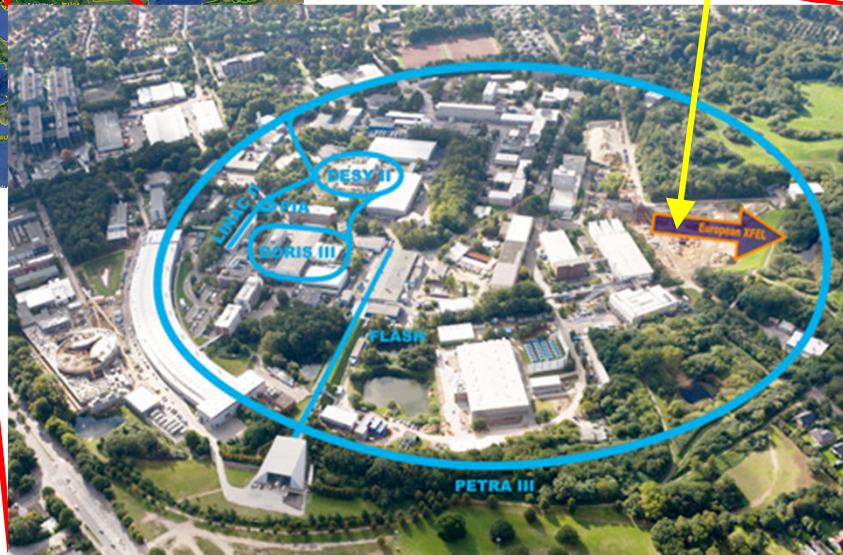


XFEL Machine Protection System (MPS) based on MicroTCA



Location:
Hamburg / Germany



MPS Design Goals and Implementation I - MOM308

Micro TCA distributed data processing

XFEL 3.4 km **SFP** **FLASH** 0.3 km redundancy

hot-swap configuration, no programming

ILC 31 km remote firmware update reliability

RS422 galvanic isolation DOOCS

scalability **FPGA** **low maintenance**

manpower reduction cost reduction

fiber optics



MPS Design Goals and Implementation II - MOM308

Micro TCA distributed data processing

XFEL 3.4 km **SFP** **FLASH** 0.3 km **redundancy**

hot-swap **THANK YOU** configuration, no programming

ILC 31 km **remote firmware update** reliability

MOM308
RS422 galvanic isolation **DOOCS**

scalability **FPGA** low maintenance

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fiber optics

