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Lesson learnt and future vision on remote maintenance robots

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At CERN we heavily use robots for inspection, maintenance and repair tasks throughout our accelerator complex, facing challenges of hazardous environments, cluttered areas, changing conditions and limited communication channels. To support these activities, we invest in research and development in novel fields of hardware, sensors, vision, navigation, manipulation, communication and machine intelligence. In the future, we see the use of robots becoming even broader, always with the intention of supporting our personnel and facilitating CERN's fundamental research initiatives. This talk will present our development and use cases to date, and introduce the research areas we are focusing on.

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