

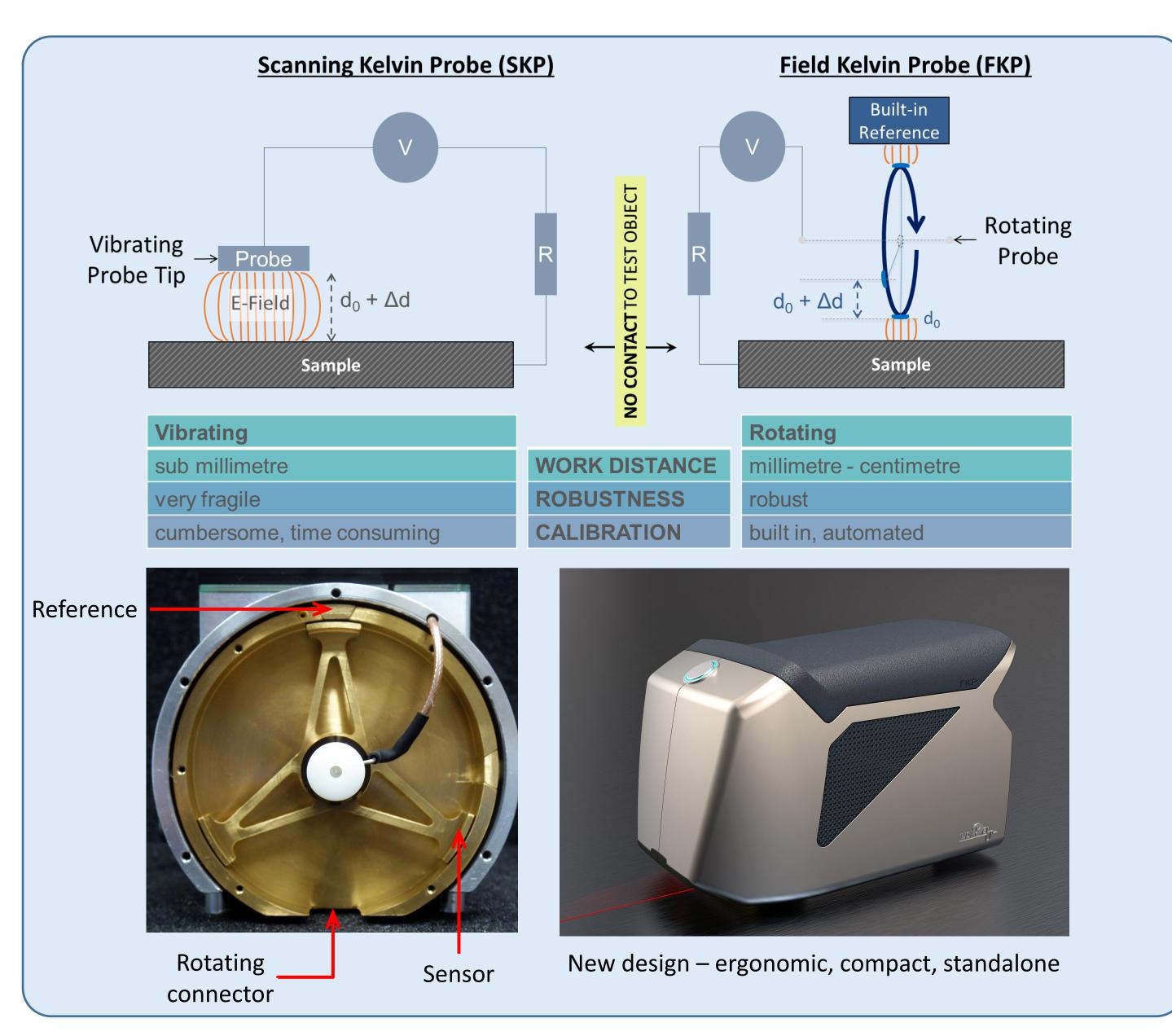
Field Kelvin Probe – selected applications

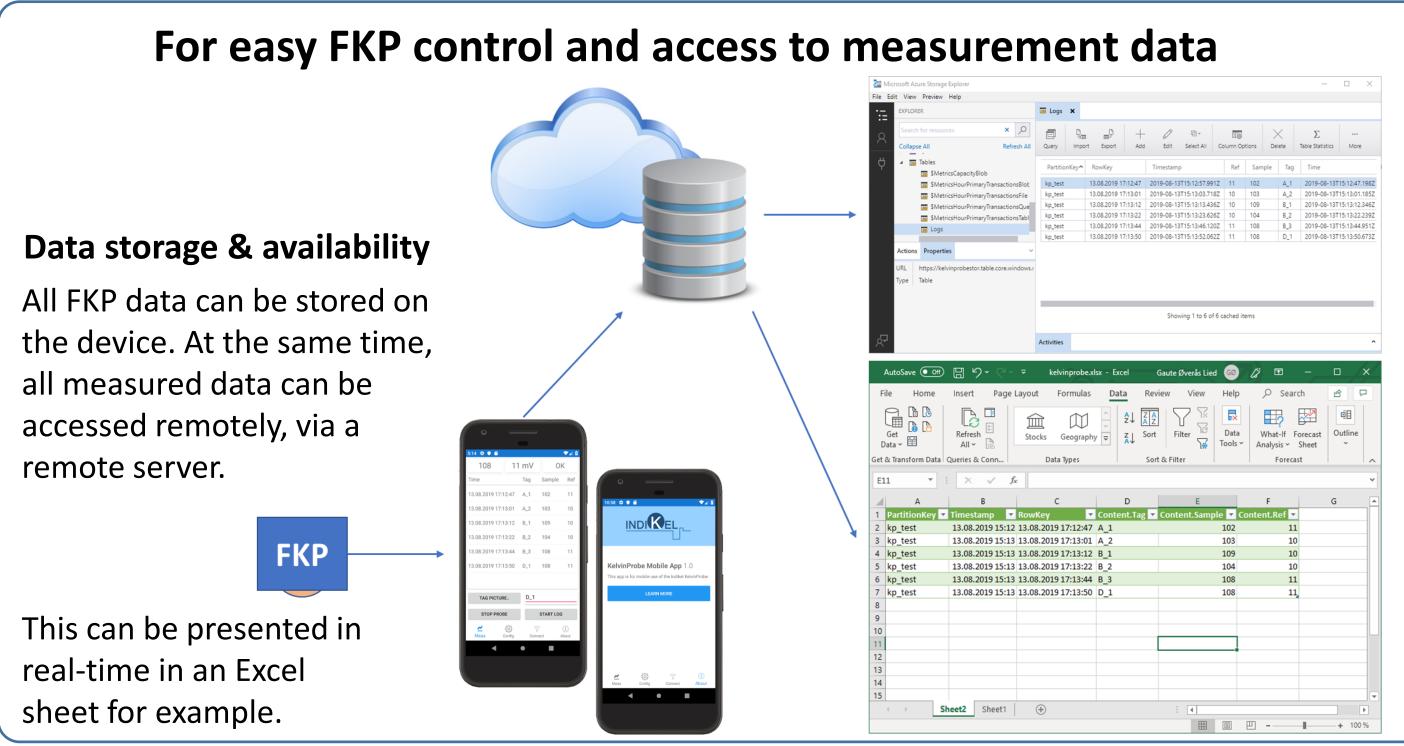
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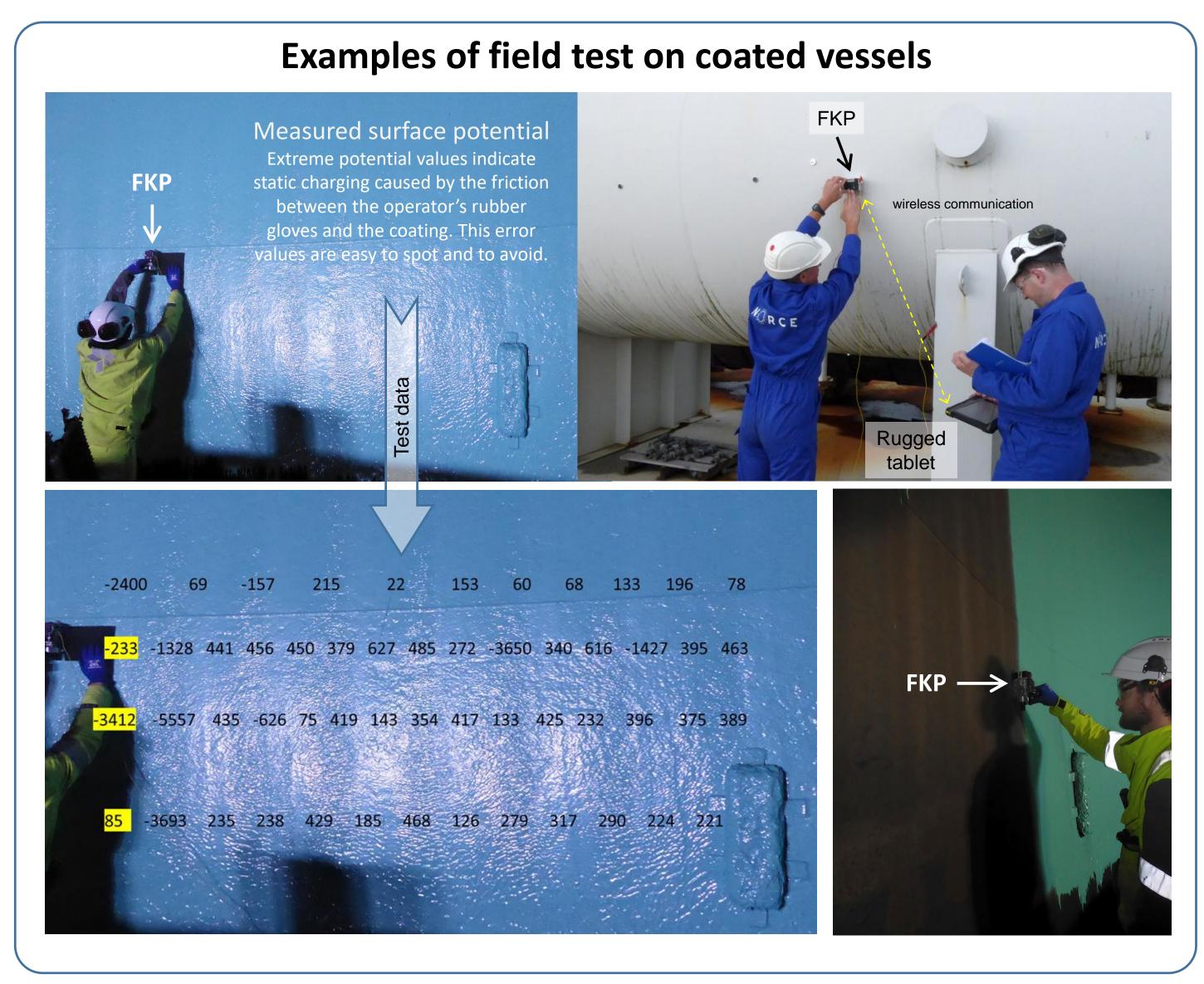
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Introduction

The Field Kelvin Probe (FKP) is a rugged Kelvin Probe for non-contact measurement/detection of surface potentials. For corrosion related applications, it can distinguish the bare metal from corroding and corroded (already rusted) surface. Its compact size enables hand-held operation in addition to the possibility to be interconnected in an FKP array.

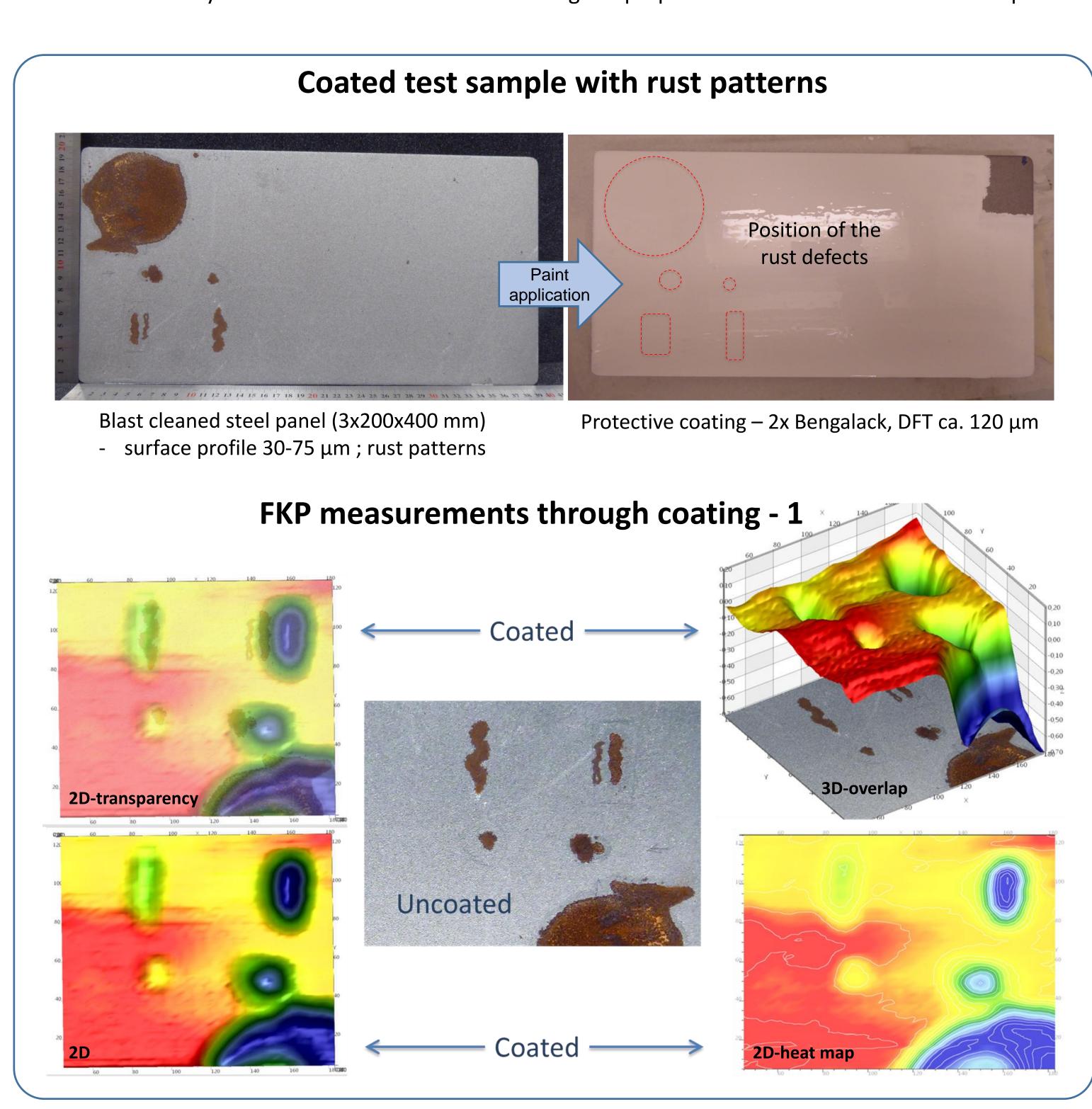


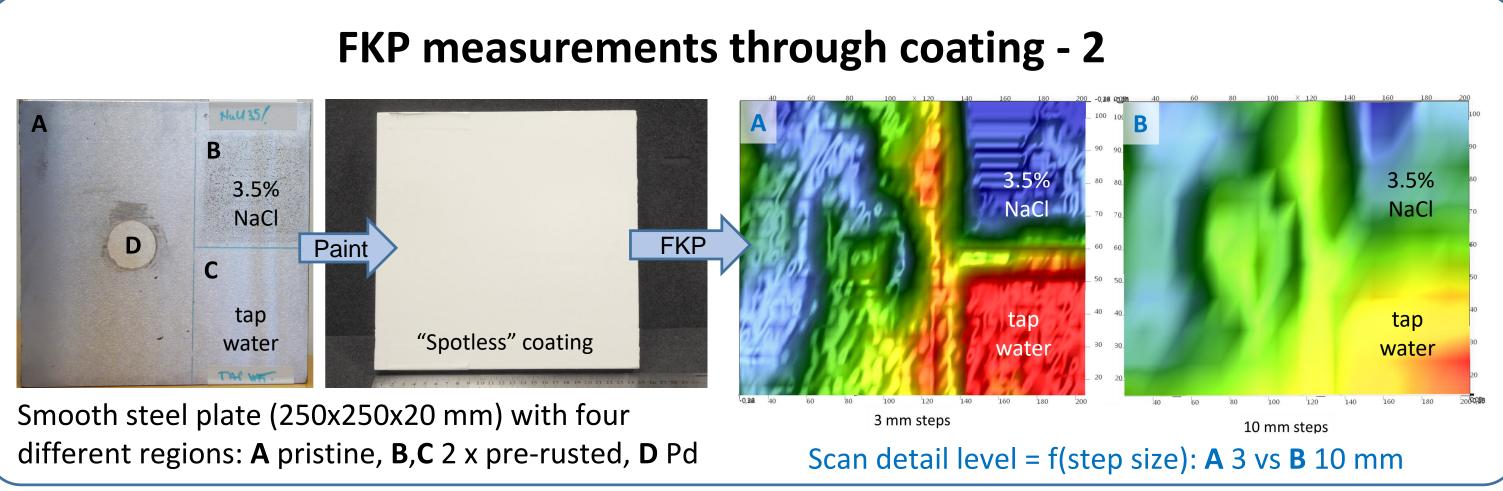


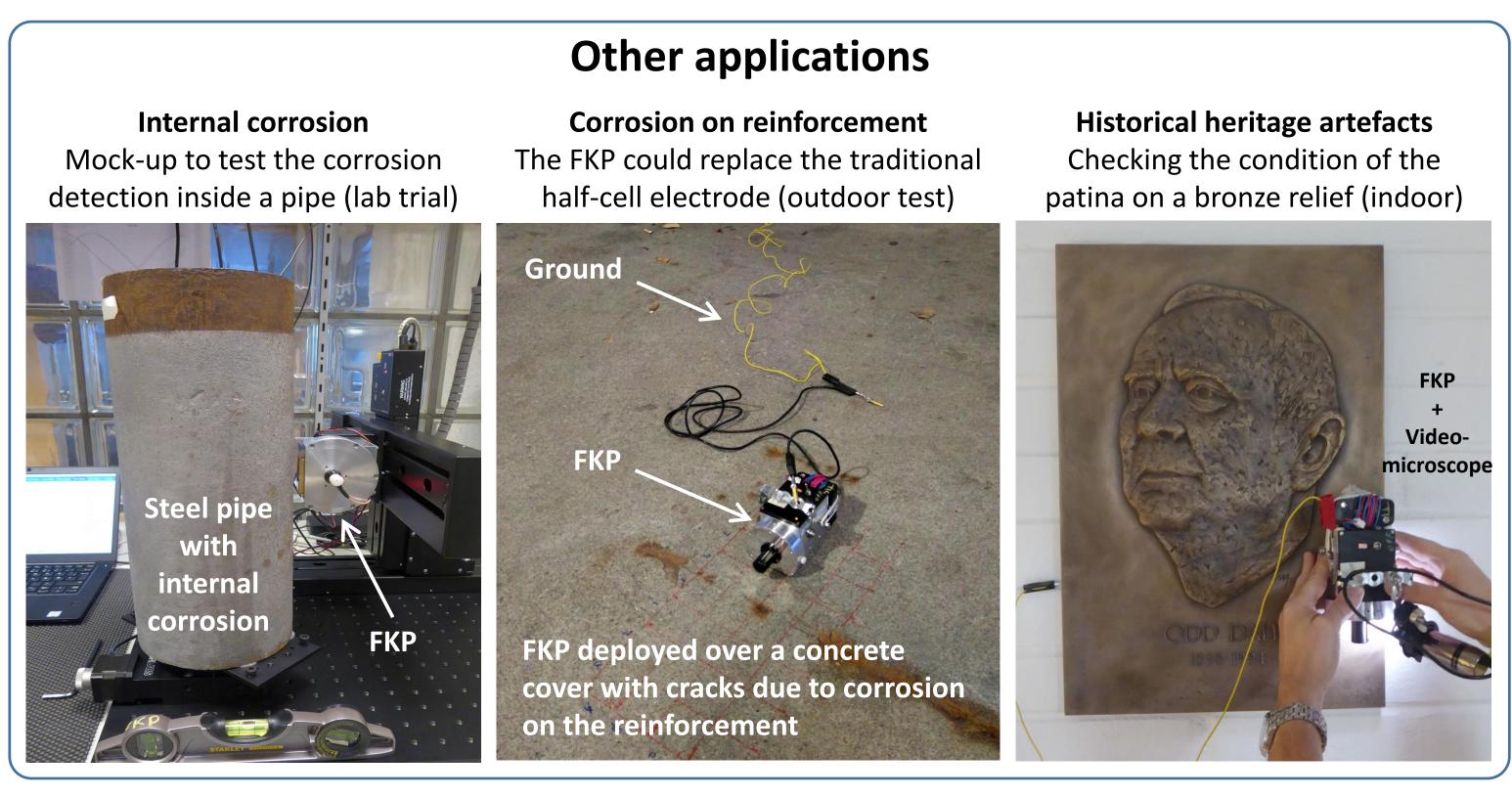


Technology GAP

Coated metallic surfaces often undergo (slow) corrosion which can results in delamination and blisters. When such tell-tale signs are noticeable, the damage to the metal can be significant, especially if the items have significant value (e.g. heritage objects) or when safety is at risk (e.g. OG installations, infrastructure). FKP detects the very onset of the corrosion thus allowing the preparation of the maintenance and repair.







Outlook

- Decrease measurement time from 1 sec to 0.1 sec.
- Reduce size and weight of the hand-held FKP with ca. 50% 75%.
- Enable the positioning system for accurate spatial and potential mapping of the test item.
- Produce and deliver FKP units to the R&D and industrial companies.



