ADVANCING HUMAN-CENTRED RESILIENT TECHNOLOGIES:

THE ENHANCED HF TOOL FOR SUSTAINABLE MAINTENANCE WORK

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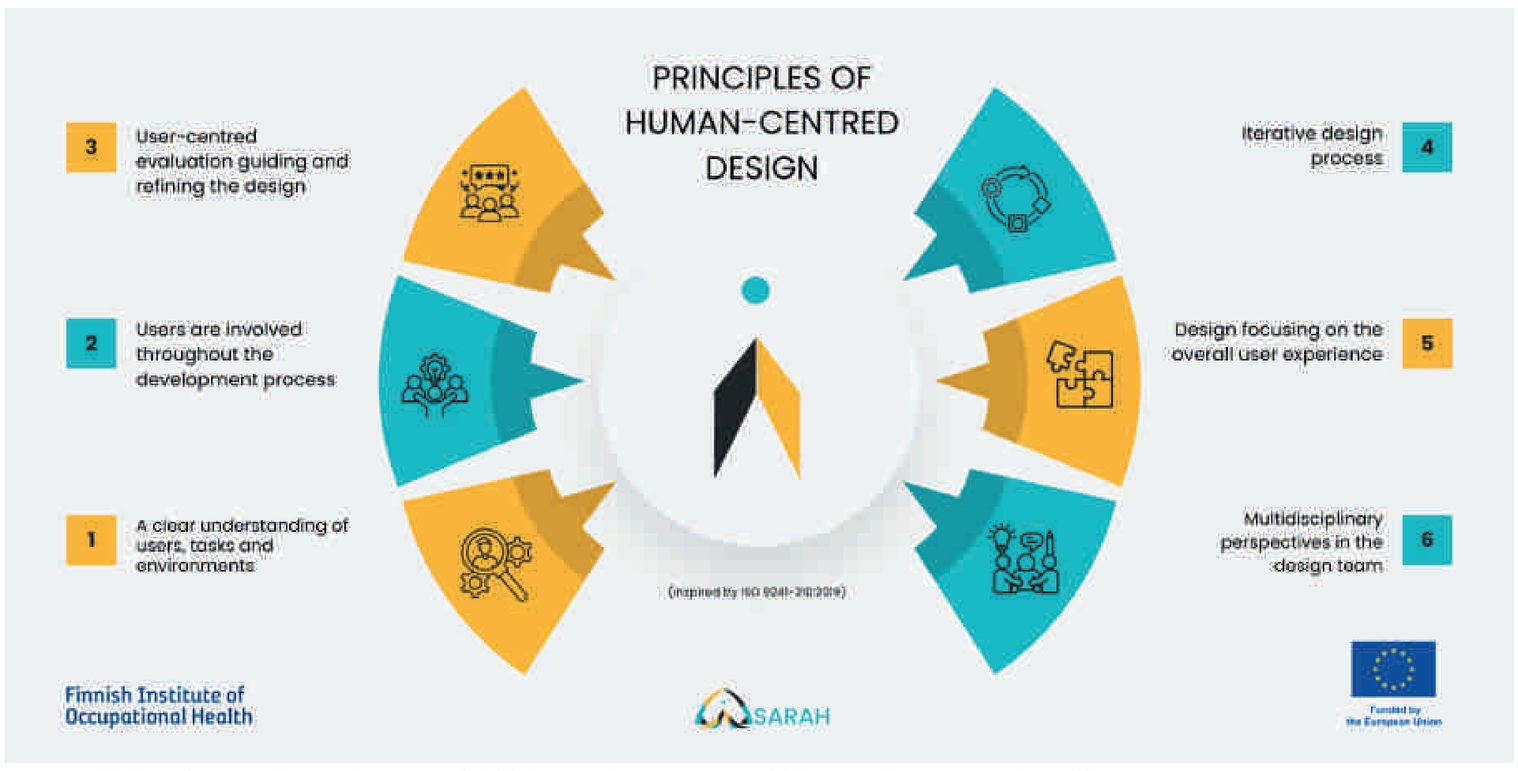
INFRASTRUCTURE MAINTENANCE WORK IS RAPIDLY CHANGING DUE TO DIGITALISATION, GREEN TRANSITION AND CLIMATE-RELATED RISKS. RENEWED HUMAN-CENTRED OCCUPATIONAL SAFETY IS NEEDED.

MAKING HUMAN-CENTRED DESIGN EXPLICIT AND OPERATIONAL

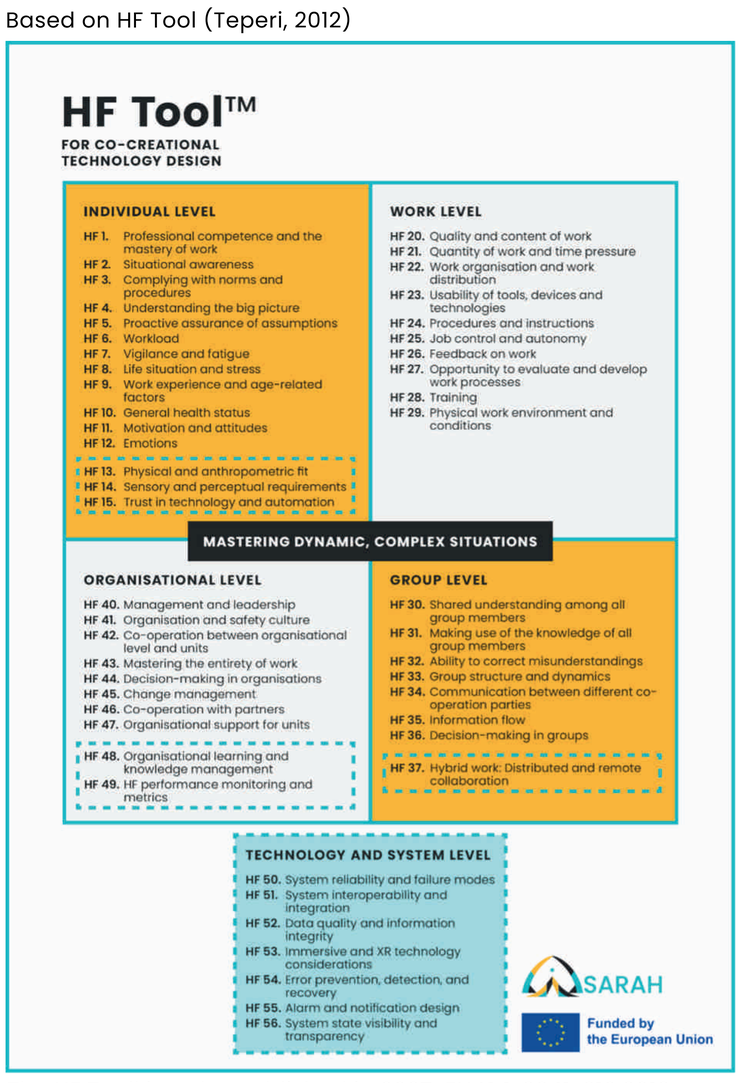
The HF Tool is modified for new technological context, integrating participatory and work-based methods into technology development.

SARAH produces a practical HF Toolkit to support human-centred technology design.



DG RTD, 2021. Industry 5.0; Leppänen et al., 1997; Teperi & Leppänen, 2011; Teperi Puro, Kannisto, 2017

Based on HF Tool (Teperi, 2012)



The HF Toolkit, to be published in 2027; EN ISO 9241-210:2019

A LONG RESEARCH LEGACY BROUGHT INTO TODAY

FIOH has a long-standing tradition in work development and occupational safety research. The SARAH project builds on this legacy and adapts it to today's digital and green infrastructure maintenance work in SARAH-project.

WHAT IS NEW IN SARAH?

A novel, human-centred approach to technology design for infrastructure maintenance is applied to real, demanding maintenance tasks, such as bridge inspections and tunnel inspections. This type of Human Factors (HF) -informed approach has not previously been common in infrastructure maintenance.

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