

# HERIVIS – An Innovation Project for Health and Safety at Work

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## Poster Abstract

Work-related stresses and strains are on the rise due to the transformation of work environments in recent years. This situation requires the integration of safety and health in an organization as a fundamental management task.

In order to address this issue we introduce the research project HERIVIS (Health Risk Visualization System) in the contribution at hand - along with a presentation of first results. Main objective of the project is the development of a system that allows for analysis and risk assessment of working systems based on the visualization features of the PIMEX (Picture-Mix-EXposure) method. In addition, an analysis and controlling tool is designed that is intended to meet the challenges and objectives associated with a comprehensive occupational safety and health (OSH) management. The project is conducted by KOHS in cooperation with Dalarna University (Sweden), the German Fraunhofer Institute ITEM, Cooperation Centre Hamburg and diepartner.at (an Austrian health management company).

Research focuses include the analysis and assessment of hazardous substances at the workplace, musculoskeletal disorders (MSD), and the investigation of the psychosocial work environment. Furthermore we present strategies for designing and organizing the components of a comprehensive occupational safety and health management. Another focus will be on the topic “knowledge transfer and learning” regarding health and safety at work. According to the PIMEX method the approach is intended to support learning on the job as well as teaching and learning in education and training.

Technological innovations within the HERIVIS project include a 4D gridmap (multidimensional spatiotemporal recording of exposures due to hazardous substances, thermic comfort, lighting conditions, etc.), motion and posture analysis with mobile sonometric sensor technology as well as the development of an ultra-fine particle (UFP) sensor.

Our poster contribution will give an overview of the HERIVIS project objectives, an outline of results from a pilot implementation of the system and a summary of first experiences with the ergonomics module.

## Information on organization

**KOHS** researches and develops in the fields of prevention, occupational safety and health as well as the generation, structuring and dissemination of knowledge regarding health at work. The main focus is on PIMEX, a method that combines real-time monitoring instruments with video of worker’s activities in order to visualize exposures at the workplace. In this context, KOHS offers customized design of hardware, software, measuring techniques and approaches for analysis and assessment of working systems.



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