ACKNOWLEDGEMENT

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Federal Ministry
Republic of Austria
Transport, Innovation
and Technology

FFG
Promoting Innovation.

PROJECT CONSORTIUM

Project Coordinator
Know-Center GmbH

CTR Carinthian Tech Res AG

EAM Systems GmbH

EUDT Energie- u. Umweltdaten
Treuhand GmbH

Fachhochschule Salzburg
GmbH

IKK Kaufmann-Kriebernegg
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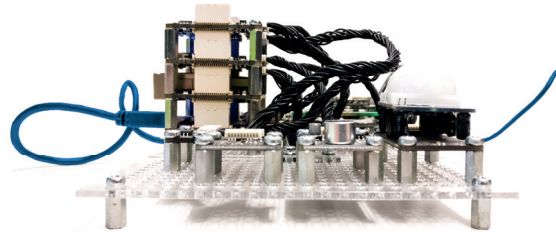
COMFORT



Comfort Orientated and Management
Focused Operation of Room condiTions

http://comfort.know-center.tugraz.at/

PROJECT DESCRIPTION

CURRENT SITUATION & PROBLEM

Comfort conditions in rooms and buildings are currently poorly recorded and maintained by the building management due to the lack of appropriate sensors, data management and data analytics. New solutions are required for maintaining satisfactory room conditions while achieving optimal energy efficiency.

OBJECTIVE

Project COMFORT applies aggregated and enriched information extracted from sensors and simulation data to quantify, evaluate and optimise the human comfort temperature and air quality, taking economic considerations into account.

METHOD

New approaches to building automation, including machine learning, multi-source data fusion, virtual sensors, simulations, wireless sensor systems and coupling with building information modelling, can be used to analyse multi-modal and heterogeneous data. Thereby, a predictive and concise representation of comfort conditions in rooms and buildings can be achieved.

EXPECTED OUTCOME AND IMPACT

COMFORT creates foundations for better monitoring, control strategies, user interactions, user satisfaction assessment and weighted user feedback, predicted data input of control systems and optimisation of building maintenance and energy efficiency.

NUMBERS & DATES

- Project duration: 1st of October 2018 to 31st of March 2021
- Eight project partners, four research and four industry
- Total Budget € 917,130
- Funding € 747 340