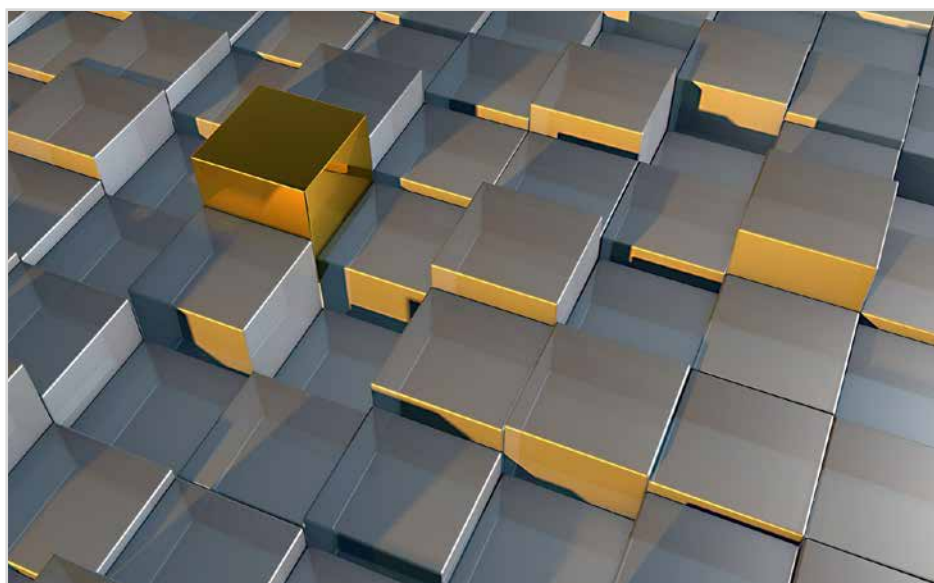
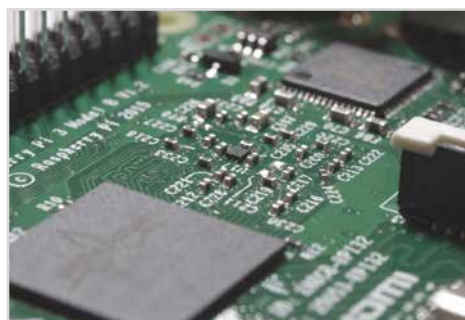
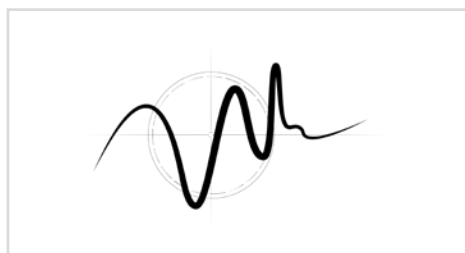


Digital Wellbeing NOIISE



STARTUP CREATION

PARTNERS: TU Berlin (Germany), Sensorberg (Germany), audEERING (Germany), Signify (The Netherlands)



NOIISE – a soundscape navigator

NOIISE is a Noise Optimization in Innovation incubators, Spaces and Environments. It enhances productivity in shared workspaces, suggests the workplace with the acoustic comfort best for you and provides a space usage analysis for work-space operators.

A lack of sound privacy in shared work environments is the most significant ergonomic factor impacting workplace performance, subjective comfort and well-being negatively. The impact of surrounding sound levels and kinds of noise is higher than the impact of temperature, visual and air quality or spatial quality. Workers lose around almost 20% of daily quality time due to noise resulting in disturbance and distraction.

As a noise optimization solution, NOIISE allows for real-time understanding of space utilization, resulting in increased well-being and more efficient usage of space. Combined with a machine-learning algorithm NOIISE deploys data sets from internal and external noise sources in combination with building information.



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Competitive Advantages

- Modular and expandable
- Established audio recognition software
- User-centered mobile app
- Real-time occupancy analytics for operators
- Behavioral situation-aware advice

Target Markets

- Commercial real estate operators (i.e., co-working spaces)
- Corporates with open plan offices
- Incubators and accelerators
- Architectural consultants
- Schools, universities, hospitals, libraries

Status/ Traction

- Pilot test in co-working space of
- Ready to test sensors bundle by Signify
- Advanced software for soundscape classification by audEERING
- Integrated platform for smart building operations by Sensorberg
- Development of a recommendation catalogue for the design and retrofit of co-working spaces by U Berlin
- Mobile app suggesting behavior in shared office spaces

Road Map

2020

- Set-up and stakeholder alignment
- Integration of sensors and acoustic segmentation software
- Pilot study Berlin, data analysis and app development
- first Go-to-market steps

2021

- Publication on noise, wellbeing and its relation to spatial design
- Integration of third-party software
- Improvement sound features
- Expansion of customer segments

Leveraged Technologies

Sensor bundle, RPI for ceiling-based sound sensing (Signify) security GW, 3G router ML algorithm based on Deep Neural Nets technology supported by Vector Machines if data is sparse (audEERING). integration platform hyper-local messaging platform (Sensorberg) digital twin of office spaces using unity 3D engine or similar game-engine (TUB).

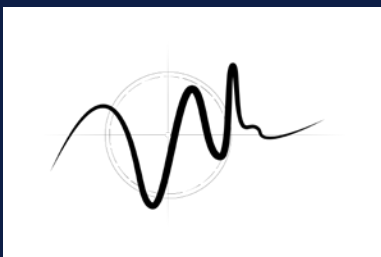
Contact




Liss C. Werner
Assistant Professor, Architect

e: liss.c.werner@tu-berlin.de
t: +493031426122

CyPhyLab, A609 | Strasse des 17. Juni 152
D-10623 | Berlin | Germany



cyphylab.chora.tu-berlin.de/noiise/

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EIT Digital supports entrepreneurial teams from research and business organisations in launching new startups and new products in agile 12-month projects called innovation activities. These activities are embedded in EIT Digital's European ecosystem and receive a financial co-investment to package their technology, sign up customers and attract investors.