# DEMO 2B-1 Perceptual Evaluation of Signal Enhancement Algorithms

#### **Objectives**

- Real-time performance assessment of state-of-the-art/novel signal enhancement algorithms for future hearing aids
- Perceptual multi-center evaluation with normal-hearing and hearing-impaired subjects in conditions comparable to real-life listening environments



### Visions

- Consistent results are obtained across test sites and across languages → test protocol is important, but the exact test conditions are not crucial
- After correction for frequency-dependent hearing loss, no important differences are observed between subject groups → tests in normal-hearing subjects can predict performance in hearing-impaired subjects
- Some of the algorithms do not improve SRT, but are nevertheless preferred over the unprocessed condition.

## **Partners & Contact**

#### Partners:

- Katholieke Universiteit Leuven, Belgium
- University Hospital Zürich, Switzerland
- Academic Medical Center Amsterdam, The Netherlands
- Siemens Audiologische Technik, Erlangen, Germany
- Carl von Ossietzky-Universität Oldenburg, Germany
- Hörzentrum Oldenburg, Germany
- Royal Institute of Technology (KTH), Sweden
- Universität Erlangen-Nürnberg, Germany
- Ruhr-Universität Bochum, Germany
- Contact: heleen.luts@med.kuleuven.be koen.eneman@med.kuleuven.be jan.wouters@med.kuleuven.be







