



## Invisual and Re-Empower - winners in this years "Nordic Internet of Things Hackathon 2016"

On the 22nd to 24th of April developers from around the world came to Stpln, Malmö, to participate in the Nordic Internet of Things Hackathon 2016. Two winning team were awarded, one for each track: Intelligents Buildings and Intelligent Healthcare Establishments.

Winners of **the Intelligent Healthcare Establishments** track was a mixed team from Germany, USA and Canada: Re-Empower.

Their idea was based on the fact that the population of western nations ages which leads to the rise of illnesses such as Alzheimer's and Dementia. More and more cases of conditions that can severely limit a patient's quality of life are being diagnosed each day, placing a large burden on spouses, families and caregivers.

Re-empower would be a technological solution to this burden. It would allow messages recorded by a loved-one or a caregiver to be played back to the patient upon different actions. These cues would be time-based: either individual one-time reminders, or repeated ones to deal with recurring problems like incontinence. These messages would be delivered by small devices that could present a useful message upon detecting motion in a specific region, or upon a button press. The system can include both static, home-based units, and mobile systems meant to be carried by patients.

Major design criteria of the units include low cost and simplicity to use. These are important because spouses of Alzheimer's and Dementia patients tend to be older and less comfortable using complex technology. Households including someone with Alzheimer's or Dementia tend to have relatively little disposable income, as they often are affected in their primary money-earning years and have to pay for treatments and assistance. The modularity of the system would allow users to tailor a setup to their needs, and would allow it to be adapted as the patient's condition progresses.

- "To be one of the winners today is great. I think that a lot of us came here for the opportunity to learn new things and we were actually taken off guard that we won, but it's been excellent!" says Christoffer Thompson from California for Team Re-Empower

Winning the **Intelligent Buildings** track were the same team that won last years track on Smart Homes: Invisual from Russia.

Invisual created a solution that based on the data from people presence sensors can highlight windows that are most suitable for a rescue team to enter the building. In case of people trapped inside the building internal light system could be used for routing of rescuers. The system can show the firefighters whether there are people left in their building, where they can be found, and how to access the building.

- Team Invisual showed a solution based on originality for an existing problem. The solution has huge potential for growth would help to save lives. They based their solution on the technologies at hand and it was impressive what they managed to do in 50 hours, says Bogdan Tudosoiu who worked with the jury.



- "It feels great to be one of the winners for the second time in a row! We are really happy over the fact that the idea of saving lives make us win! The hackathon has been a great opportunity for us as a team and we did our absolute best to implement all of the provided technologies. " says Vladimir Aluferov from Russia for Team Invisual

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