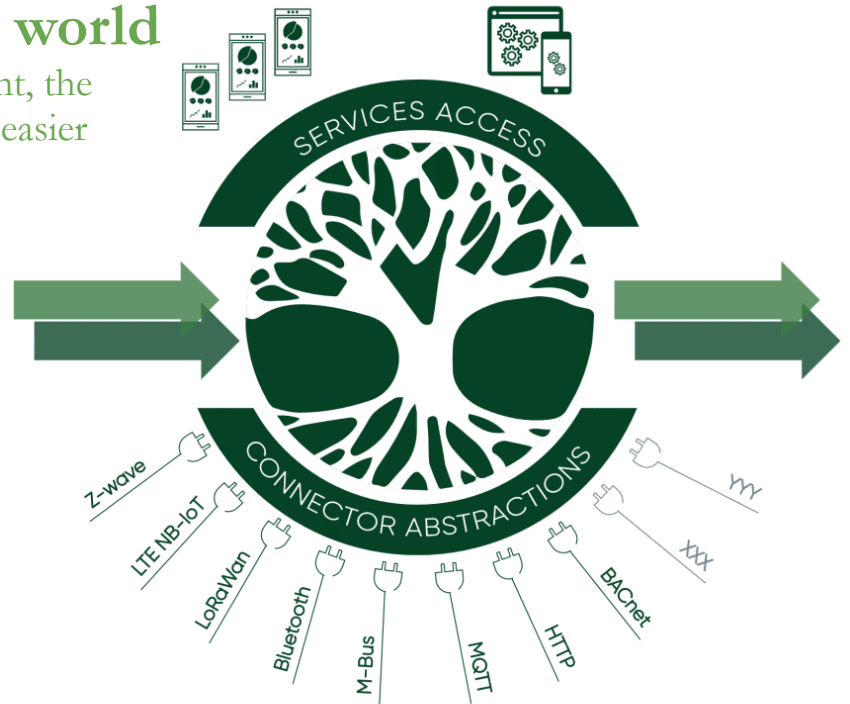# IoT - The increasingly growing thing surrounding our modern world

In cities, cars, waste bins or your apartment, the Internet of Things continually makes life easier

As the technology of IoT continues to develop and increase in use, the market for both sensors and digital infrastructure expands with it. Whatever device you can find around you that is connected wirelessly and exchanges data with other devices, is part of the Internet of Things. But for these communications to work properly, there needs to be a working infrastructure in place. A small tech-company in Lund called Sensative has made a deep dive in the technology that revolves around IoT.

The infrastructure

What is illustrated in the top right image is the software providing the infrastructure for a horizontal IoT-system. In short, this means that whatever wireless 'language' is used for your thermostat, smartwatch or home alarm, the program needed to use the data does not have to be different for every device. Instead, you can use the same program or app, regardless of the technology you wish to use. This way data becomes much more accessible and enables effective usage of high-tech things like AI-technology or advanced computing systems. The software Sensative has developed provides great progress in this regard and enables IoT to make life easier and better for the world by using technology.

The sensors

In addition to digital infrastructure, Sensative designs and supplies wireless sensors for different use cases. For example you can measure temperatures, detect water leaks, alert rescue service when a lifebuoy has been removed or let you know if your gym machine is currently occupied, on your phone or computer.

But to match increasing demand and the increase in technology, Sensative is designing a new generation of sensors (left image). Furthermore, an interesting new technology lets sensors detect and learn about gasses in air using AI-technology. However, such advanced usages require more energy and thus larger batteries.

So in order to provide sensors with different capacities, different design solutions need to be made. And the digital 'AI-nose' is only one example of new technology. This is the background of why new sensors are being designed and why you will see and hear (perhaps even smell) so much about IoT in the future.