



# Portfolio

By Invenit BV



Universiteit Utrecht





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## ABOUT US

### We make the Internet of Things work!

CLICKEY solutions already existed since 2012 and was originally started under the name Invenit BV.

We were one of the first companies that understood the endless opportunities for our customers when it came to connecting things to the internet. But we also understood from the first day that the current networks were not ideal.

These 3G and 4G networks are designed for voice and data streaming, not for the exchange of small data-packages over long distances and with low energy consumption. Because of that other network solutions were needed. That is why we started discussions with different players in the market about network solutions that make IoT really work.

We are proud to say that CLICKEY solutions is one of the 'founding fathers' of the new standards for IoT networks. Everything based on the idea that connecting things to the internet needs to happen without expensive (data) subscriptions, big battery packages and traditional SIM-based communication components. Our firm belief was and still is that only the new relevant IoT solutions will be possible. In the area of monitoring, controlling, protecting or tracking and tracing of the connected things.

CLICKEY solutions is based in Raamsdonk, the place where our smart and creative ideas for new IoT solutions are developed.

Our technical experts have the knowledge and experience to come up with smart solutions for your business. And we always keep in mind that the solutions should work immediately and seamlessly.

## OUR PRODUCTS

### 1 CLICKEY Micro T&T

The **CLICKEY Micro T&T** is ideal for protecting and managing company- or private assets, indoor as well as outdoor.

Our Micro Track and Trace can:

- detect movement
- give alarm signals to the portal
- send email notifications
- make location visible based on LoRa network
- display history



### 2 CLICKEY Pro

The **CLICKEY PRO** is the Swiss Army Knife of all IoT systems.

This versatile system is equipped with six freely programmable I/O ports.

It allows external systems or processes to be connected in order to read or control them remotely.

The **CLICKEY PRO** is ideal for connecting all sorts of machines like:

- central heating boilers
- copy machines
- vending machines
- beer tanks
- etc.



### 3 CLICKEY PIR

With the **Clickey PIR**, one can easily secure an area against burglars.

This wireless LoRa motion detector automatically sends a motion detection alarm to your Clickey Web portal and a mail notification to the specified email addresses.

Ideal to protect:

- rooms
- barns
- sheds
- containers
- trucks
- etc.



#### 4 CLICKEY GPS

The CLICKEY GPS can:

- detect movement
- give alarm signals to the portal
- send email notifications
- make location visible based on GPS coordinates
- display history

Perfect for professional outdoor asset management, tracking & tracing.



#### 5 CLICKEY Tempsens Pro

The CLICKEY Tempsens Pro records the temperature of objects, machines, lines, areas and refrigerators.

The frequency of measurements can be flexible, as well as how often the collected data will be send to you.

A certain maximum or minimum temperature is reached? The Tempsens Pro gives an alarm at the right time.

Ideal for professional environments where temperature is a critical process indicator.



#### 6 CLICKEY E-finder

The CLICKEY E-finder is a small device which ensures you to find everything, everywhere. The device has:

- A Very powerful GPS collecting coordinates even in a building
- A WiFi sniffer enabling localisation based on WIFI routers in the area. For tracing in buildings where GPS has insufficient reception
- A Blue-Tooth module for ultimate tracing up to 1 meter
- 3-axis motion sensor for motion detection
- A Rechargeable battery that allows the device to function for up to 3 months.

The E-finder can also communicate data with the cloud via the national KPN LoRa Network and is linked to the Smartphone App.



#### 7 CLICKEY Occupation Sensor

The Occupation Sensor = part of the Smart Building Concept\*

It detects the presence of individuals behind a work desk, in meeting rooms, or in restrooms.



## 8 CLICKEY Comfort Sensor

The Comfort Sensor = part of the Smart Building Concept\*

It records temperature, humidity, light, sound, CO2 levels, and battery levels. It also registers human presence through movement and human interaction through its push button.



## 9 CLICKEY Energy Monitor

The Clickey Energy Monitor = part of the Smart Building Concept\*

It measures the energy consumption of both your total building and different floors. In this way you gain insight into where unnecessary energy is being used.

## 10 CLICKEY People Counter

= part of the Smart Building Concept\*

It does what it says, It counts people. You will get insights about how many people are inside the building and/or the room and off course whether the people are all out of the room.



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## PROJECTS

These are a few of our successful project.

### SMART BUILDING CONCEPT

**\*The products above belong to the smart building project (7 to 10 inclusive).**

Everyday more customers are using CLICKEY smart sensors. Together with our partner **BeSense**, we made the offices of Aegon and CSU, the Museum for Communication, the Philips stadium in Eindhoven and Hotel Casa in Amsterdam smarter by using our IoT sensors.

In the Aegon offices, 3000 sensors have been installed, with over 15,000 m2 of office space monitored. As part of the total BeSense system, this ensures more efficient, healthier and cleaner buildings.

From January 2017, Clickey Solutions is the preferred partner for BeSense and supplies all smart sensors to BeSense. The CLICKEY IoT sensors are equipped with embedded software and a LoRa communication chip. BeSense is an initiative of building company Heijmans and cleaning company CSU.

BeSense supplies intelligent integrated systems for building management. CLICKEY delivers the IoT sensors that measure all sorts of data, i.e. desk occupancy and air quality.

All this real-time data is collected and stored in the Cloud. Through an online portal the building manager sees exactly what is happening in the building. The system provides insight into occupation and utilization and this allows for more efficient use of office space.



The temperature, humidity, CO2 level and light intensity are also measured by CLICKEY IoT sensors in different rooms. This creates opportunities to improve working environments and make them more healthy and comfortable for users.

All this collected data is also used as input for the cleaning system. The cleaner receives the routing via the cleaning app and knows exactly which areas need extra attention.

**Benefits:** ✓

- more insight into your building
- low-threshold start (works independent from existing IT network)
- quickly expand with multiple sensors
- save costs on housing, maintenance and energy

Go to the "BeSense" website to learn more about this successful project.

[www.besense.nl](http://www.besense.nl)

## CLICKEY IN VENDING MACHINES

Our customer **CareforCoffee** delivers Coffee Services to many businesses in The Netherlands. These services consists of delivery and installation of coffee machines, delivery of coffee supplies (beans) and cleaning and maintenance of the machines.



On top of its existing services our customer CareforCoffee wants to deliver daily insights in usage of the coffee machine to its customers . How many cups have been delivered, which coffee flavor is favorite and is the coffee machine functioning well? Are additional supplies needed or is maintenance required?

To enable this request, CLICKEY Solutions has developed a MONITOR solution that allows individual machines to be connected using a **CLICKEY-Pro** set-up. Data can be accessed remotely and this data is loaded in the customer management software from the CLICKEY portal.

Today our customer is able to monitor and control its machines remotely. This allows the customer to deliver better and faster services due to data about supplies and maintenance which are realtime available. All data can also be used to get more insight in usage and costs. All in all this has resulted in the following **USP's/benefits** for CareforCoffee: ✓

- An innovative product with more and better functionality
- Higher quality through pro-active maintenance
- Higher customer satisfaction



**Clickey inside**

This CLICKEY solution can be used in all vending machines. Complete remote monitoring and management of all machines, including remote diagnostics and maintenance and remote on/off switching is now possible.

Go to the "care for coffee" website to learn more about this successful project.

[www.careforcoffee.nl](http://www.careforcoffee.nl)



## AED CLICKEY INSIDE

Our customer **AED-Partner** has several AEDs for sale and delivers them. These are modern, compact and especially safe devices. Their service and support is an important part of their added value.

To make this more transparent and reliable, they have asked Clickey for a solution. The wish of AED-Partner was to check the AEDs remotely.

To make this possible, CLICKEY has developed a rechargeable device that can be mounted on all their AEDs and meets their needs.



### Benefits ✓

From now on, this device can be found in the AEDs and it allows you to check the AED's from a distance. Everything is displayed on the Clickey cloud-platform.

The device monitors:

- Clickey Solution AED Device
- The temperature (alarm message if the temperature falls outside the speculation).
- The battery of the AED (is it full enough)
- The movement (when it is being used and/or taken away from its place).
- The location (based on LoRa GeoLocation)



Normally, an AED should be checked manually every day. This is no longer necessary due to this new development. These data will be "Realtime" available which assures availability of the AEDs in the Netherlands.

By attaching our device to the AED, the reliability of the AED is increased. We can prevent a not working AED when it is needed. **In short "More lives are being saved".**

Go to the "AED-partner" website to learn more about this successful project.

[www.aedpartner.nl](http://www.aedpartner.nl)

## AUTOMATED TOOL MANAGEMENT

Our customer **Gereedschapbeheer** (Dutch for tool management) offers an online application for automated management of all equipment. By using this application the customers of Gereedschapbeheer will always have a full overview over status of certification, maintenance and costs of all equipment.



↑ On top of the existing automated tool management our customer Gereedschapbeheer wants to be able to integrate realtime location of equipment. In day-to-day business a lot of their customers cannot trace their tools when needed for certification and/or calibration.

↑ On top of that the users of the application require solutions to track & trace (expensive) equipment and to protect expensive machines. To enable this Gereedschapbeheer is looking for a small and robust Track & Trace device to connect to all tools and equipment. On top of that Gereedschapbeheer is looking for a branded device, including the Gereedschapbeheer logo.

Together with the customer CLICKEY Solutions has developed the GB Locator. This device does not only deliver a **TRACK & TRACE** solution (know where your tools are), but it also offers a **MONITOR** solution: with the integrated acceleratorsensor the Gereedschapbeheer application can monitor the exact use of tools and equipment (when, where, how long). On top of that the device allows for a **PROTECT** solution as well in case of theft.

With the integrated LoRa technology all data is accessible in realtime. All this data is loaded in the CLICKEY platform and directly loaded in the business application fo Gereedschapbeheer.

### Benefits ✓

Our customer is now able to deliver additional functionality to its clients, which give the following benefits:

- An additional USP for the Gereedschapbeheer application by adding extra functionality
- Higher customer satisfaction
- Direct cost reduction for their customers because equipment is traceable and usage becomes more efficient.



All CLICKEY IoT solutions can be applied in many domains, both in B-to-B and B-to-C markets. But also to optimize or protect your assets. Do you have trailers, containers, tools, equipment and machines? Our **CLICKEY Micro T&T** offers all sorts of solutions to monitor, protect and track&trace.

Go to the "gereedschapbeheer" website to learn more about this successful project.

[www.gereedschapbeheer.nl](http://www.gereedschapbeheer.nl)

## BIKE TRACKERS (CONCEPT)

Just to give you an idea of what else is possible.

**Rental companies** want to be able to track and trace their rented bikes in realtime. But also bigger organizations that use bicycles for transport on their properties want to know where their bikes are.

At the same time the average price of a bike increases dramatically. Modern electric bikes become more and more popular. For that reason insurance companies require track-and-trace devices to be able to trace-back bikes in case of theft.

Our customers are looking for a track-and-trace solutions with the following characteristics:

- It should be possible to integrated the device easily in the bike but also impossible to take it off afterwards
- The device should have a long life-time and thus a very low energy consumption
- The device should function properly everywhere in The Netherlands, both indoor and outdoor.



In close cooperation with one of the biggest bicycle producers CLICKEY Solutions develops a device that fits all the requirement mentioned above. It will be possible to install the device in such a way that it will be impossible to take it off. Energy consumption will low and average life-time will be several years. And as the LoRa network will be used for localization, national coverage is secured.

### Benefits ✓

This solution will be suitable for both new as well as existing bikes.

## **Clickey Solutions**

Lange Broekstraat 3

4944 XH, Raamsdonk

Nederland

+31 (0)162 511 517

[info@clickey.eu](mailto:info@clickey.eu)



Please, feel free to contact us any time for questions.