



**The conscience of things.**

**COLD CHAIN USE CASE  
NOVEMBER 2018**

**Track.**

**Locate.**

**Geofence.**

**Detect movement.**

**Measure impact.**

**Monitor temperature.**

**Add your sensors.**

LOKA has developed a  
revolutionary solution that  
**gives conscience to your**  
Business Assets.

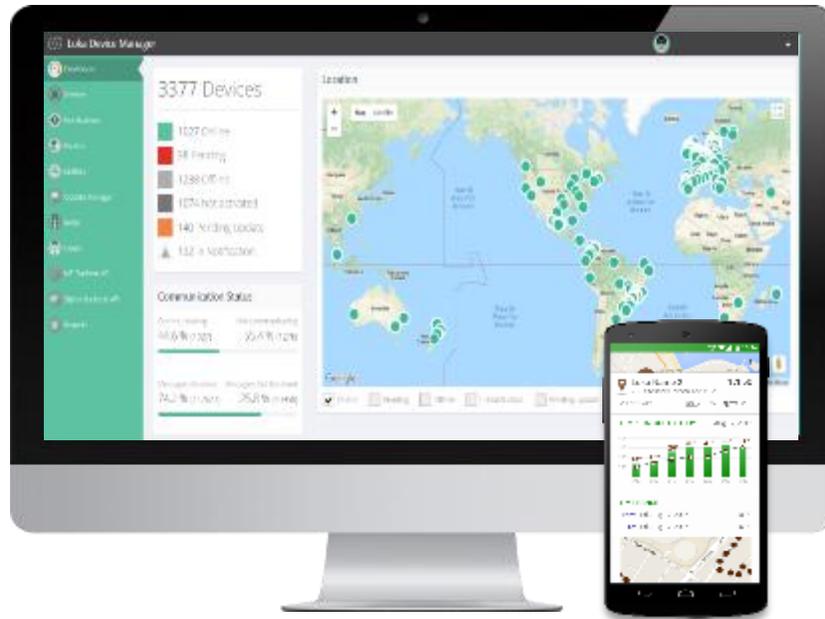
The IoT Solution includes a connected  
**Devices** and a **Cloud Platform** with  
Geolocation capabilities.



**LOKA PRIMIS**

**The LOKA Devices sensors do readings of the surrounding environment, indoor and outdoor, and data is then transmitted to the IoT cloud platform, using Sigfox, Bluetooth or Wi-Fi connectivity, according to your personalized notifications.**

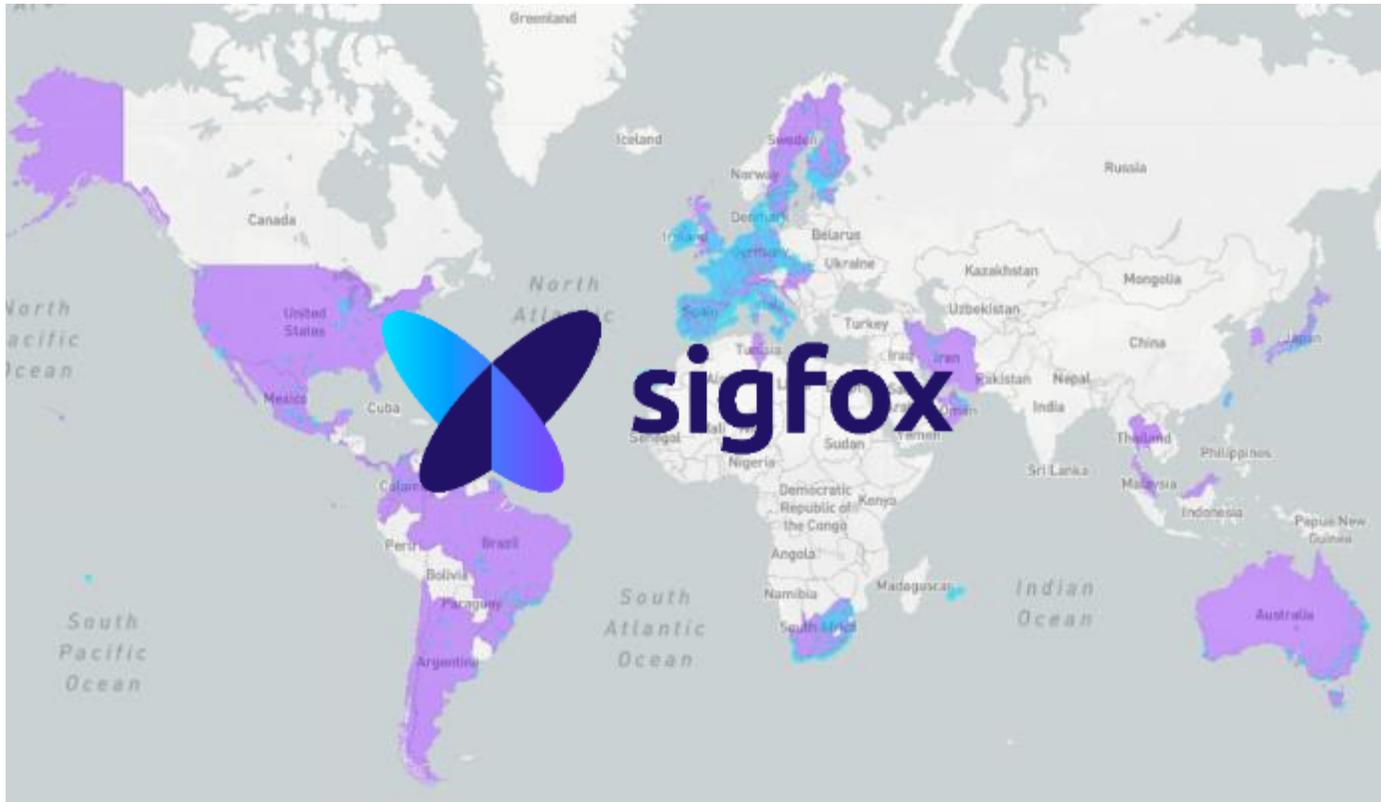
**The data can be anything, from temperature, to battery values, to movement detection, and geolocation information.**



**LOKA MIND**

**The LOKA Device Manager interprets and translates the data received from the devices, to present it in a user-friendly interface.**

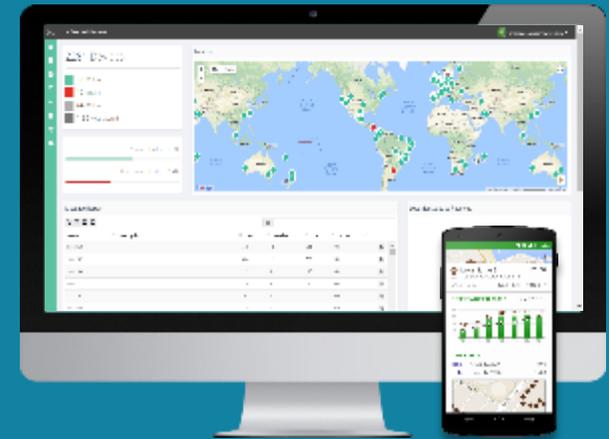
**It enables you to track and get information on any asset, or thing, you want to monitor.**



**The Sigfox network is the world's leading provider of narrow-band connectivity for the Internet of Things (IoT).**

**Sigfox provides extremely price-competitive connectivity subscriptions and even more importantly, enables extremely simple and cost-efficient silicon modules.**

# How it works



Measure  
Temperature



Detect  
Motion



Wi-fi  
Sniffing



Bluetooth  
Geofencing



Track  
and Trace



Get notified  
of changes



Reporting



API  
Integration



5°C



**Get information on  
any cold things you  
want to monitor.**



**Now,  
imagine  
you have one of  
LOKA's devices.  
Or a lot of them.**



**LOKA PRIMIS**

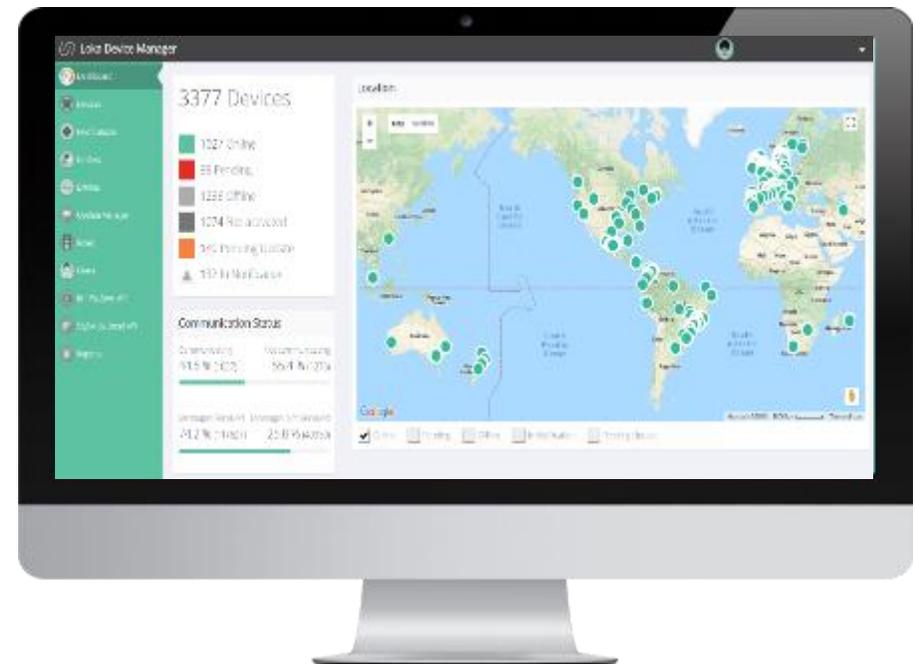


## **Apply the LOKA Device to:**

- Freezers**
- Refrigerators**
- Coolers and dispensers**
- Transport of food, beverages, medicine, even flowers.**

**In the LOKA MIND, all devices can be managed separately, or in predefined groups. You can monitor:**

- **Temperature**
- **Location & Geofencing**
- **Movement**
- **Battery**



**LOKA MIND**



**LOKA MIND enables the configuration of the devices to operate in four different modes:**



**MOVEMENT**



**TRACKER**



**TEMPERATURE**



**TRACKER & TEMPERATURE**

**Each operating mode uses a different trigger (location, temperature or movement), to make the device send messages.**

**Most times, the sent message includes the same type of information in all of the operating modes: the difference lies in which of the [sensors triggers the message](#).**

**The LOKA MIND is your device manager that provides all the information on your device activity, from [location, sensors and values, to battery voltage](#).**

**You can filter, create your own reports and export data, or even [use the API](#) to seamlessly integrate the data on your own platform.**

Loka Device Manager

### Notifications

15 Entries by page

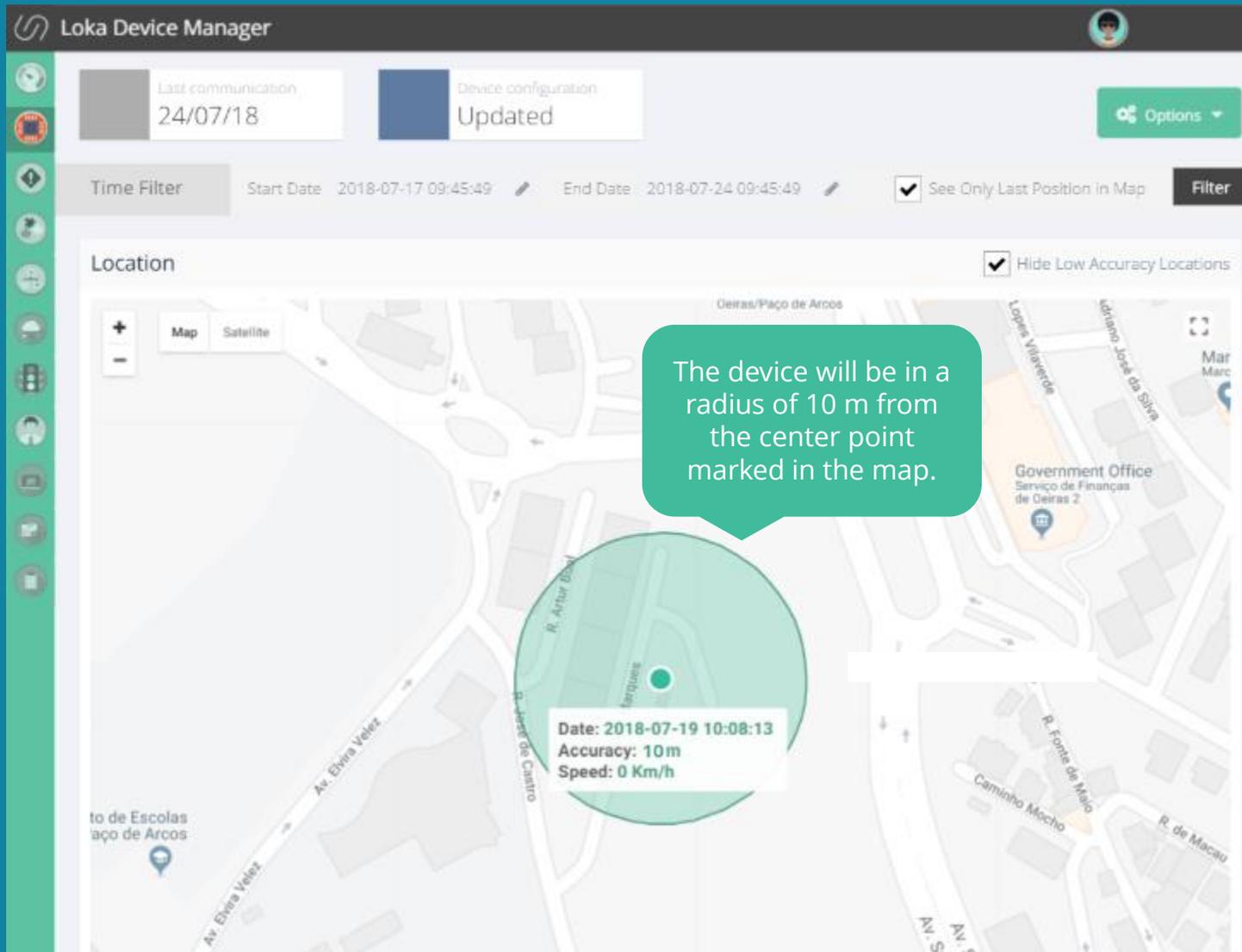
Sensor / Not. Type	Name
Temperature	High Temp 25
<b>Trigger:</b> > 25	
<b>Open Value:</b> 30	
<b>Close Date:</b> 2018-08-01 22:34:54	
<b>Close Value:</b> 25	
Geo Fencing	Office

Here is an example of **Temperature Notifications** you can receive.

You will define that you want to be alerted every time the device registers a temperature above 25°C. So here you received the notification because your asset's temperature reached 30°C. And that notification was closed when it regulated back to 25°C.



Your LOKA device will send information when your **temperature oscillates from it's previous temperature.**



This is how we show you your devices' **Location**.

The LOKA IoT solution provides geolocation information, both outdoors and indoors, **without requiring a GPS**.

The solution is based on the **Sigfox technology** and **Wi-Fi sniffing**, enabling unparalleled low power, with a wide communication range.

Each location is composed of a **coordinate** (center point) and an **accuracy radius**, meaning the device is inside the **green circle**.

You can see your device location in a given time range, or choose to see just the last known location.

Loka Device Manager

Notifications

15 Entries by page

Sensor / Not. Type	Name	Status	Open Date	Close Date
Geo Fencing	Office	Out	2018-08-07 18:51:22	
Other	Movement Detection	Closed	2018-08-07 08:52:30	2018-08-07 08:52:30
Geo Fencing	Home	In	2018-08-07 08:52:30	2018-08-07 19:06:42

Out Date: 2018-08-07 08:52:30

Device Moved out Geofencing perimeters

In Date: 2018-08-07 19:06:42

Device Moved in Geofencing perimeters

Here is an example of **Notifications** that you can configure, in order to receive alerts.

The LOKA IoT Solution enables the configuration of notifications for every device sensor (temperature, movement, voltage) and the device location (**Geofencing**).

With the **Geofencing** functionality, the LOKA Device Manager can send you alerts whenever one device arrives or leaves a given area (eg. your offices).



## COLD CHAINS WITH LOKA GAIN CONSCIENCE OF:

- ✓ **food transport conditions, from the farm/fabrics/labs to the store;**
- ✓ **Freezers and Refrigerators' usage conditions.**



## **BENEFITS FOR COLD CHAIN**

- ✓ **INCREASE YOUR PRODUCTS' QUALITY**

**if you control the transportation conditions, you can improve your products' quality, reduce discounting, and increase product value;**

- ✓ **BROADEN YOUR SERVICE OFFERING**

**offer new services to your customers, by providing them with updated information on their assets, thus increasing your company's trust and reliability;**

- ✓ **MINIMIZE PRODUCT LOSS**

**if you're able to monitor the conditions in which your products are transported, you can use that data to optimize temperature, thus saving energy, and minimizing chances of degrading your cargo.**

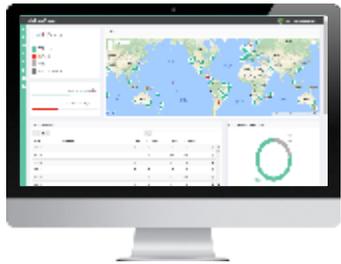
# Business Model



## **LOKA PRIMIS device acquisition**

Ranging from 16,00 to 39,50 EUR per device, pricing is dependent on order volume.

With acquisition of the device, we offer the LOKA Mind subscription and geolocation service fee for the first year.



## **Annual LOKA MIND - device manager Fee**

After the first year, an annual service fee applies, per device and per year, for the usage of the IoT Cloud Platform and Geolocation services. Ranging from 0,50 to 2,50 EUR, pricing is dependent on order volume.

This service includes online and remote Support services.



## **Sigfox Connectivity**

LOKA delivers the devices with Sigfox connectivity included. Or you can contact your local Sigfox Network Operator for a connectivity quote.



# Want to see more? Connect with us

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