Sigfox overview

A dream of disruption
to make things come alive

"Time flies! It's already been more than five years that we have been chasing our dream to change the world with a crazy idea to connect the physical world to the Internet, consuming as little energy as possible and as simply as possible.

Today we are making it a reality, with hundreds of millions of messages already transmitted and received via the Sigfox Network, which continues to deploy around the globe.

This is what we like to call the "Power of Low," which fully embodies the meaning of the Internet of Things – a huge revolution without precedent. We're excited about where all this is headed, and we hope you're excited about it too!"

Christophe Fourtet
CSO Sigfox

Ludovic Le Moan
CEO Sigfox

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The challenge

o   IoT will soon impact our everyday life, and connect all objects around us

o   Many of tomorrow's great ideas are technically possible today, but merely constrained by power and budget issues.

o   Small inexpensive objects simply don't have the power to communicate with large mobile networks.

The solution

Instead of trying with traditional networks, why not create a special network adapted to everyday objects?
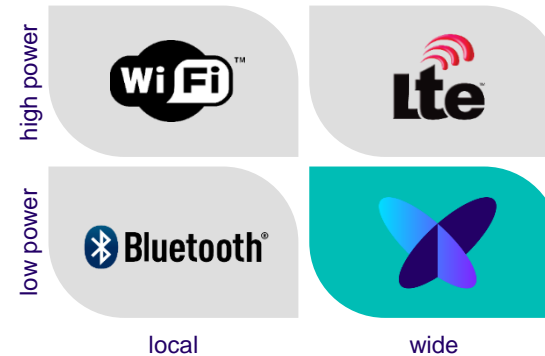
o sigfox is a Low Power Wide Area (LPWA) technology
   that enables limitless new IoT applications to function with:
   - longer range
   - lower power requirements

o The unique positioning of sigfox comes to complement existing networks
   to address the bulk of connected objects

Sigfox makes the IoT revolution happen

sigfox was created
for all of us,

so **your company too**
can embrass the digital world

Low cost,
to address everything

Global,
to be used everywhere

Low power,
to provide autonomy

Easy to use,
to deploy it fast

Produce more with less
resources and effort

Create innovative value,
escaping commoditization

Imagine a world…

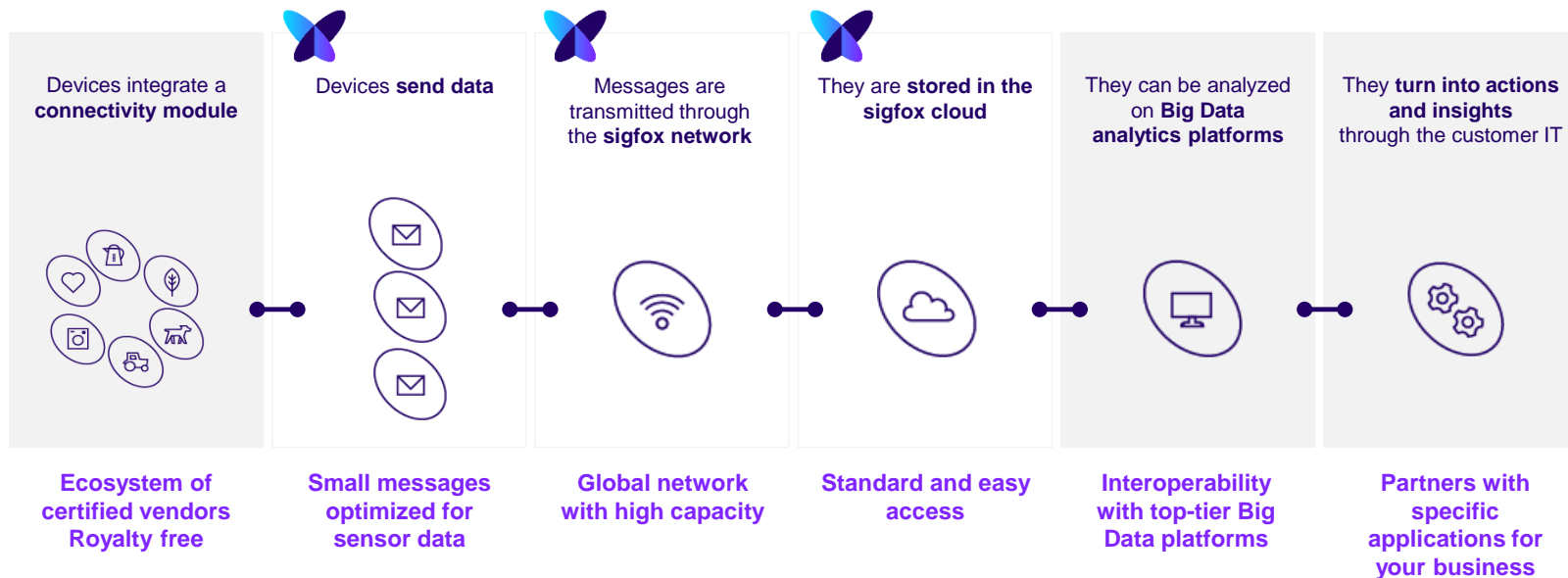**… where** your boiler can warn you that the engine is about to die, long before it breaks down in winter

… where everyday inexpensive items can transmit practical information like usage hours or temperature fluctuations

… where batteries are no longer needed because sensors are autonomous and data transmission self-powered

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We take care of giving you the information you need,
so you can focus on how you want to use it

Devices integrate a **connectivity module**

Devices **send data**

Messages are transmitted through the **sigfox network**

They are **stored in the sigfox cloud**

They can be analyzed on **Big Data analytics platforms**

They **turn into actions and insights** through the customer IT

Ecosystem of certified vendors Royalty free

Small messages optimized for sensor data

Global network with high capacity

Standard and easy access

Interoperability with top-tier Big Data platforms

Partners with specific applications for your business

sigfox

And with our 4 core services,
we support you beyond the technology

Global Reach

We provide **one constantly expanding global network** for all your devices.

Service levels

We guarantee a managed high performance network, **available 24/7**

Global ecosystem

We have engaged a ecosystem **of certified partners with devices and solutions** to develop your own services and reduce your time-to-market

Data accessibility

We provide **easy access to data, device management tools and cloud solutions** to power the services you need

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We enable you to unlock 4 main business benefits…

1 TRACKING MOVING ASSET

Control **quality** of delivery (SLA, humidity, temperature, shock)
Identify **responsibility** of assets and **localization** off premises
Ensure **recovery** of lost assets

2 SECURING BETTER

Supporting **security** for remote facilities, assets & people
Complementing existing connectivity with an **anti-jamming** solution

3 IMPROVING UPTIME

Ensure uptime with predictive & reactive maintenance
Optimize your maintenance routes
Automatize replenishment

4 MANAGING PEOPLE REMOTLY

Control off-premises your providers, patients, employees

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… across all industries

Agriculture & Environment
with Livestock Management

Automotive & Fleet Management
with on-Board Diagnostics Tracking

Industry
With Facilities Securing

Home & Lifestyle
with automatic Replenishment

Utilities
with water Metering

Public Sector
With waste Management

Retail
With asset Tracking

Health & Assisted living
with Elderly Security

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… and across the globe
Present in 28 countries, targeting 60 countries by 2018

● Covered countries
France
Ireland
Luxembourg
Portugal
Spain
The Netherlands

● On going country deployment

Australia	Malta
Belgium	Mauritius Island
Brazil	Mexico
Colombia	New Zealand
Czech Republic	South Africa
Denmark	Slovakia
Estonia	Singapore
Finland	Taiwan
Germany	The Sultanate of Oman
Italy	The U.K
Japan	The U.S.

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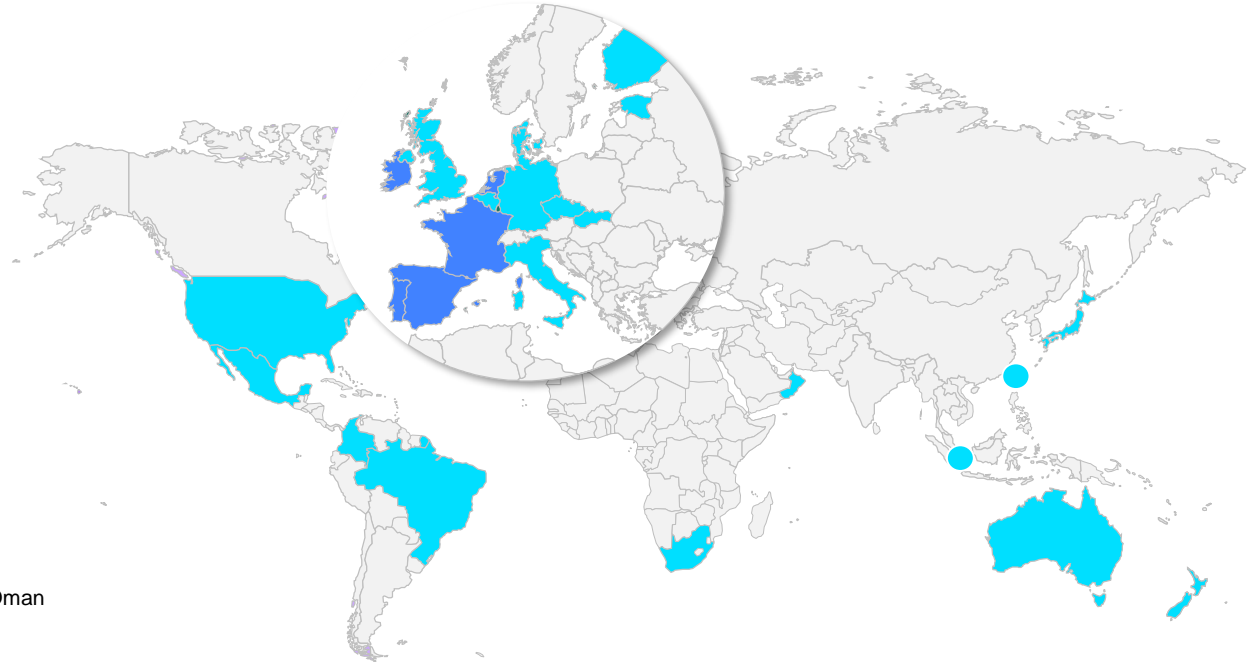
A few examples of applications

Connected Dumpster

LE RELAIS
nous avons raison de croire en l'Homme

iSwip   **Microsoft**

Challenge

First operator in France for collecting and recycling textiles and shoes, Le Relais (social integration business network) wanted to improve efficiency by optimizing the gathering process.

Solution

To optimize the capture of collection terminals data, the company uses a telemetry solution, hosted on Microsoft Azure, which indicates the filling level of the containers and communicates the results through a Sigfox network in order to optimize battery power consumption. This allows to start collecting only beyond a certain fill rate.

Benefits

- Route Optimization : up to 20% savings on the collecting process

- Creation & collection of new data regarding usage of containers

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# Package Pick-up Service

LA POSTE

Challenge

Allow customers to send packages from home.

Solution

The smart button placed inside the mailbox notifies the mailman that a package has been placed in it and should be picked up for delivery.

Benefits

- Improved effectiveness : decrease the waiting line at the Post Office
- Increase the customer satisfaction
- Differentiation vs. competitors (DHL, Chronopost)

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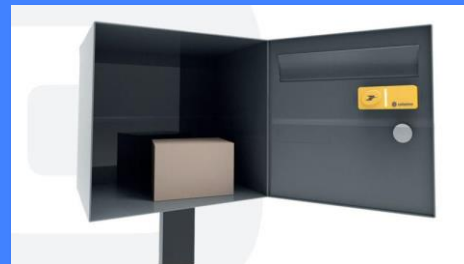
Critical Goods Management

Challenge

Create an affordable solution to monitor boilers and create new services for customers.

Solution

Continuous remote monitoring of the boiler's performance and optimize preventive maintenance.

Boilers also communicate and trigger an alert when a failure occurs, allowing professionals to generate responsive, and appropriate remote maintenance.

Benefits

- Increase customer's satisfaction
- Control of the energy consumption on a mobile device
- Money savings
- Ability to pilot the equipment remotely for the service provider

"This is the first industrial IoT sensor-monitoring solution, and it opens new opportunities for our clients in many sectors."

Laurent Rousseau, CEO Oceasoft

GPS Tracker

ticatag

Challenge

Prevent risks and detect damages related to structures

Solution

A standalone tracker that can fit into a vehicle or be carried with transported goods

Battery life 40 times more efficient than existing tracker: autonomy up to 5 years

Benefits

- Differentiating product
- Addressing multiple sectors

TRACK YOUR MOVING ASSETS

Alternative partners on this application

Everysens

(((CAPTURS

XIRGO TECHNOLOGIES

sensolus

AGUILA TECHNOLOGIES

HIDn SEEK

M2M

NASH TEC

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Smart Parking

sterela
ADVANCED SOLUTION MAKER

Challenge

Make the management of parking spaces more efficient.

Solution

WITTY is the intelligent parking management solution that provides relevant information to communities to help them managing urban spaces.

The system doesn't need of any infrastructure deployment or maintenance effort during its lifetime (no repeater or access point).

The sensor is completely buried causing no problem to maintenance operators or snow removal.

Benefits

- Orientation towards the free areas by a dynamic parking guidance

- Real time geolocation of the parking offenses

- Optimization of local police enforcement

- Fast parking slots control

- "Long time parked" vehicles identification

Alternative partners for this application

fastprk

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Water Level Monitoring

Challenge

Remotely monitor a level of a fluid.

Solution

Ijinus has developed a range of ultrasonic sensors to measure the level of water and the flow.

- Level measuring range from 3 to 10m
- Low Energy
- Integrated conversion tables (flow rate, volume)
- Wireless setting with Rfid technology
- Memory : up to 500 000 measures
- Sealing : IP68
- Input options : Counter, status, events, pulse

Benefits

- Numerous applications: water, waster water, CSO monitoring, flood warning systems, bin management
- Ease of use
- High accuracy
- Low cost