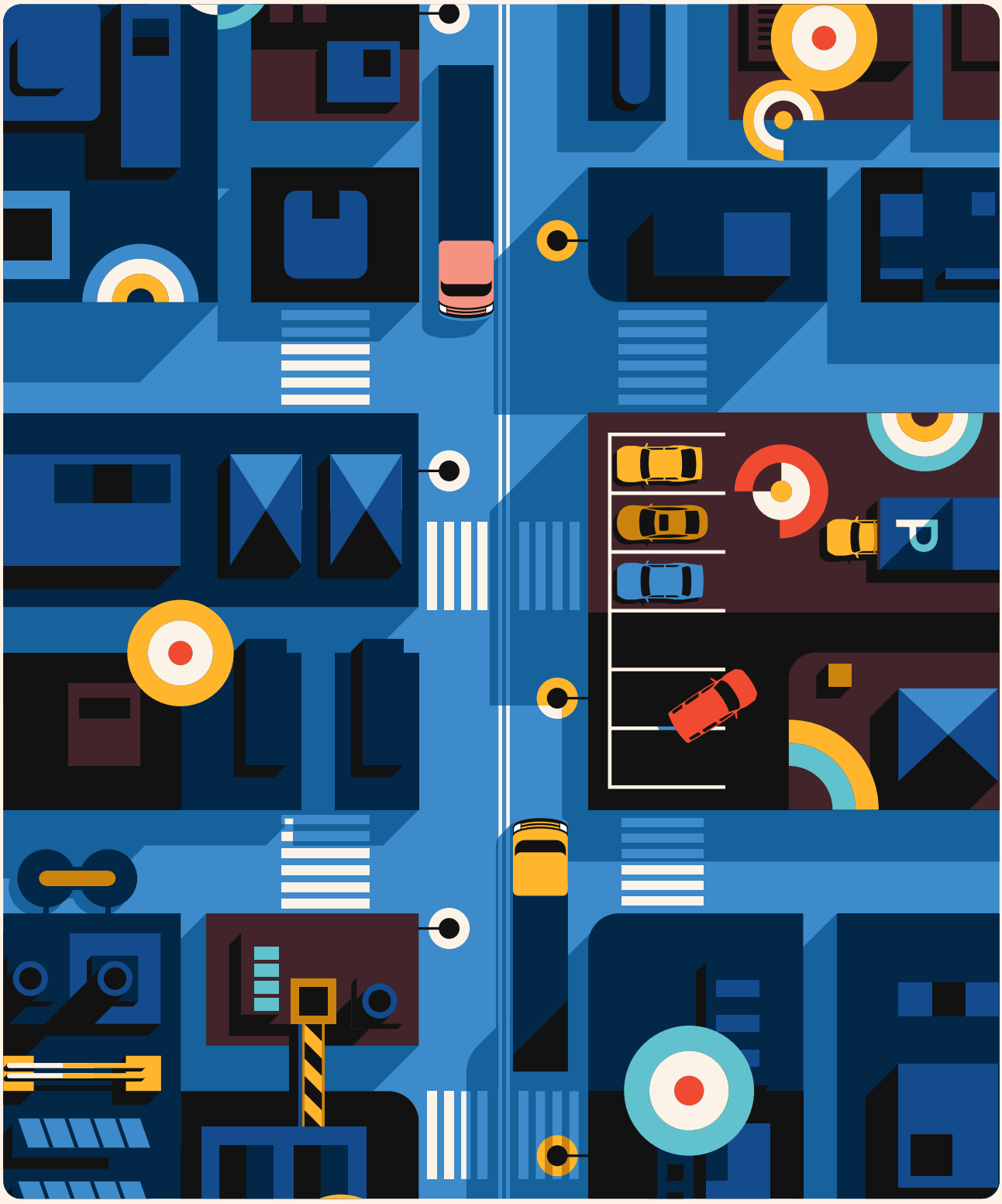
Wirepas

Very very good IoT



We are Wirepas

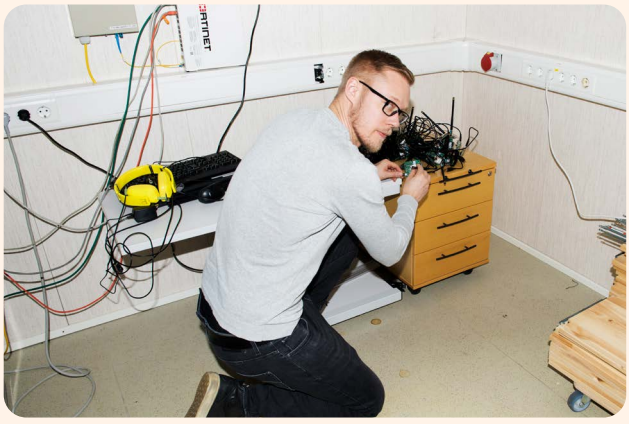
Wirepas is on a mission to democratize enterprise IoT. We aim to change the face of industrial IoT by offering never-fail connectivity for enterprises of any size for a fraction of the cost you are used to. All this without operators, subscription fees, expensive network planning, or low coverage.

We are all for de-centralized, infinitely scalable, and long-range network applications. The network manages itself autonomously too. Not to mention high-density. We can provide interference-free solutions even when there are one thousand sensors in one cubic meter.

We proudly stand as the main contributor to the first non-cellular 5G standard, purpose-built for massive IoT using a free global spectrum. We have offices in Australia, Germany, Finland, France, India, South Korea, and the United States. Wirepas serves customers worldwide in smart tracking, smart building, smart manufacturing, and smart metering.

The story of Wirepas starts from the University of Tampere. We truly are straight outta Tampere.

Read the full story https://www.wirepas.com/our-story



This is what we've got

Wirepas Massive

Wirepas Massive is a unique IoT connectivity suite for enterprises that allows an unlimited number of devices to create a network.

The network provides one connectivity layer for all IoT use cases. You can collect data from your sensors to an IoT application in the cloud, control remotely located devices, communicate device to device with or without a cloud, and track the location of moving assets. This self-healing network optimizes itself by local decision-making to reach unlimited scalability, coverage, and density while using the available radio spectrum as efficiently as possible. No additional mains-powered routers are required.

The software can be used in any device, with no need for traditional repeaters, as every wireless device becomes a smart router of the network.

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Wirepas Private 5G

Wirepas Private 5G is our future product, based on a new non-cellular 5G standard.

Our Private 5G operates on a dedicated global spectrum and will be the world's first non-cellular 5G connectivity product. It allows enterprises to connect millions of devices even in the most challenging, most demanding environments. Without SIM cards, subscriptions, or heavy infrastructure, it lets any enterprise set up its own self-managing on-premise network in a private environment keeping all assets safe. It can handle large-scale applications in high densities without single points of failure at one-tenth of the typical cost. With significantly less power consumption than cellular alternatives. It works entirely without any middlemen, with all the benefits of 5G.

Available in the second half of 2022.

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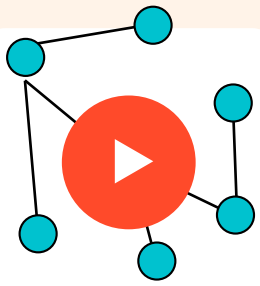
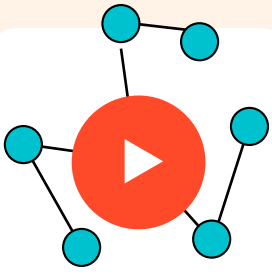
How it works

Are you interested in how Wirepas technology works? Here are some videos to guide you through the main aspects.

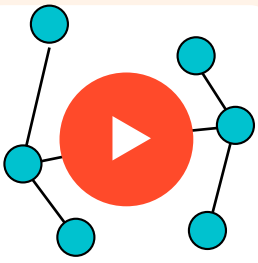
WIREPAS MASSIVE EXPLAINED READ MORE →



FORMING A WIREPAS NETWORK



DATA TRANSMISSION IN A WIREPAS NETWORK



INCREASE CAPACITY IN A WIREPAS NETWORK

WIREPAS IS A SELF-HEALING NETWORK

Key technical benefits

Our purpose-built solution for industrial IoT comes with several benefits:

Minimal RF planning

Forming a Wirepas mesh network is easy and network planning is simple. Just let the devices do the work. Every node extends the coverage of the network and strengthens the signal. Anyone can form a network.

100% battery-operated

Most of the networks using Wirepas mesh are made with battery-powered devices. Meaning the devices do not need cables after cables. No wire installations. Anything can be tracked, even objects that are always moving.

Automatic channel selection

Proven and tested with 1500 devices within a cubic meter. No communications issues. How is this possible? The Wirepas networks make use of all available channels. The devices automatically select the free ones.

In-built positioning

The Wirepas Positioning Engine (WPE) is an add-on option to our software. With the help of some immovable sensors, the exact locations of the individual devices in the Wirepas network can be tracked. You can have it as a standalone license too.

Field-proven

When we say massive, 1000 is just about on the low end of our spectrum. How about 920 000? That's starting to be massive. We've got a Wirepas network with 920 000 devices in one single network. Proven and tested in Oslo, Norway.

No co-dependencies

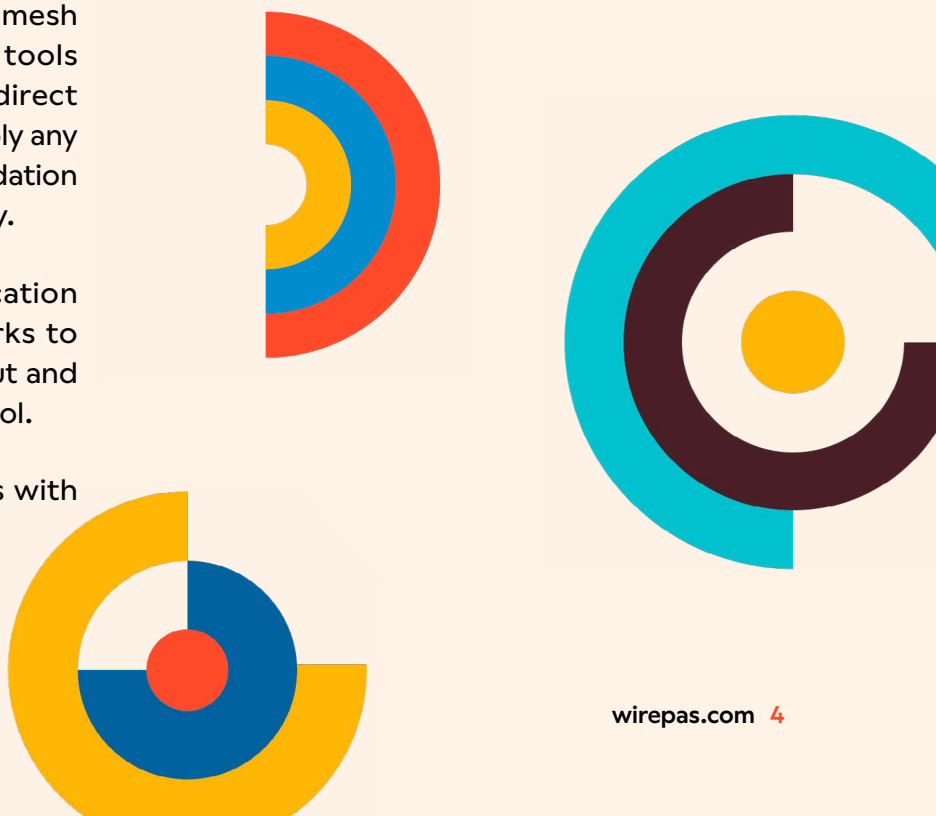
- Run by autonomous devices
- Low total cost of ownership

What's our part?

We deliver the connectivity and mesh network technology as well as tools for monitoring the system and direct technical support. We do not supply any hardware and there lies the foundation of the versatily of our connectivity.

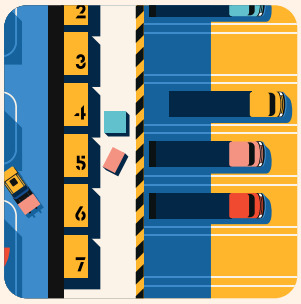
Wirepas meets different application needs, from low power networks to systems requiring high throughput and low latencies like smart light control.

The possibilities of IoT solutions with Wirepas are endless.

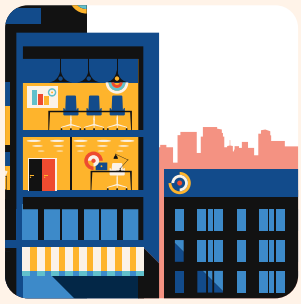


What's your game?

Thanks to our fast-growing ecosystem, our solution is used for several applications worldwide. Click on the image below to see more on how a Wirepas network could help you.



SMART TRACKING →



SMART BUILDING →

SMART MANUFACTURING →

SMART METERING →

Partner cases

We value our partners, and their efforts in giving the world better IoT. We are proud of their success and our partneships. We are especially proud of our mutual success stories. Have a more thorough look at some of the most well-known:

Saving lives with IoT

APITRAK FOR NHS

No more looking for essential equipment. Saving money instead. The nurses at NHS can now concentrate on actual work.

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A million tons of steel

D4 INDUSTRY FOR TOSYALI TOYO

A tracking system in a warehouse filled with huge steel coils has been considered extremely hard to do. It's no more impossible.

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Listen to your machinery

SCHAEFFLER

Unplanned downtime is the nightmare of any manufacturer. Schaeffler has the perfect solution to prevent this.

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