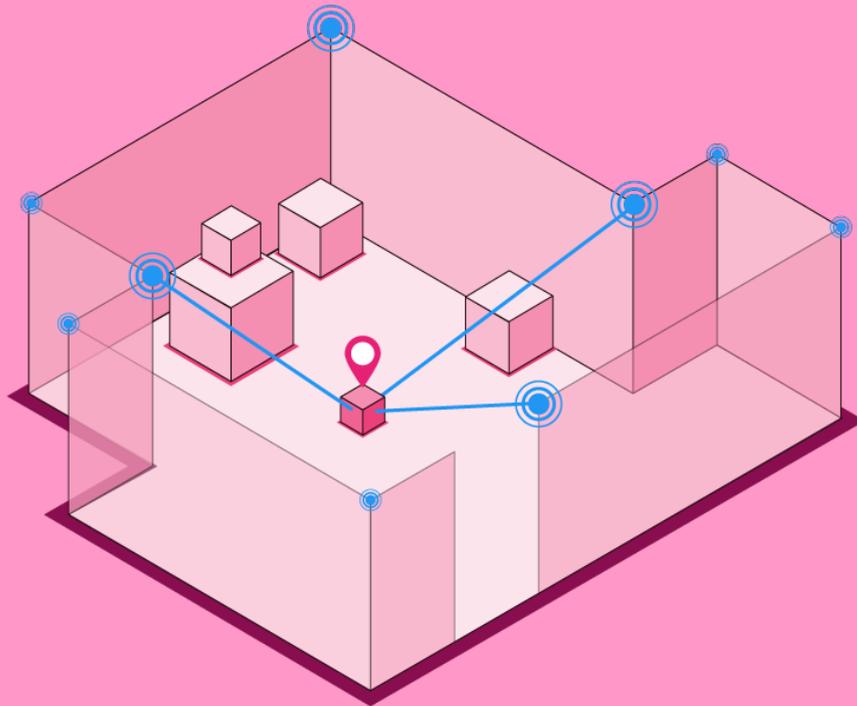


NIPS NEXTECHS INDOOR POSITIONING SYSTEM

An advanced technological solution , state of the art in RTLS (Real Time Location Systems) , for indoor and outdoor positioning . 3D resolution and accuracy to centimeters make it a unique tool on the market



STATE OF THE ART TECHNOLOGY

Based on the direct measurement of the signal propagation time from a radio station (NODE) to a receiver (TAG) , thanks to ultra miniaturized electronic components operating in the field of **Ultra Wide Band** frequencies (UWB) , NIPS qualifies as the state of the art in RTLS systems on the market today , achieving unmatched performance compared to solutions that use other technologies (ultrasound , laser , WiFi , bluetooth) and methods , direct or indirect (e.g. based on fingerprinting). Every single measurement is done in a few thousandths of a second , with a **resolution** and **accuracy** of **centimeter** size. NIPS is an ' **industrial grade** ' system , **designed for simultaneous localization of thousands of objects in a few seconds.**

UNMATCHED PERFORMANCE

NIPS is a system designed for the 2D or **3D real time location** of objects .

Plug & Play , automatically scalable , nips supports localization requirements from a few to several thousand objects. The tag is a very small device , battery powered , with a high energy efficiency , which guarantees a duration of months or years before recharging , depending on the applications.

Technologies such as NIPS will inevitably , dramatically change , the way in which indoor and outdoor navigation will take place in the near future.

NIPS NEXTECHS INDOOR POSITIONING SYSTEM

A professional system featuring high speed positioning , simple installation and immediate use , while delivering unparalleled performance

A SIMPLE AND FLEXIBLE INFRASTRUCTURE

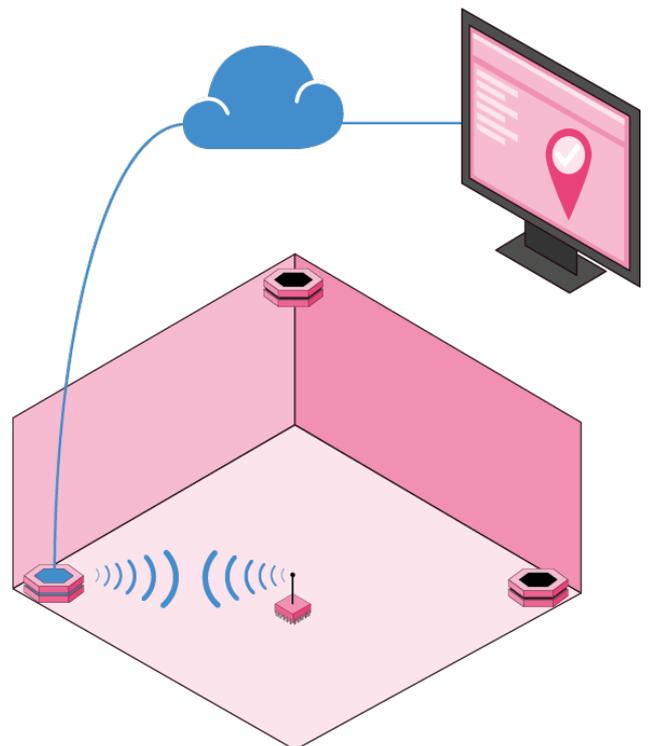
NIPS is an infrastructure based system. **ANCHORS**, or **NODES** , are electronic devices placed in the environment where the tagged objects have to be located , and are available in two versions , depending on the performance and scale requirements. For applications with many hundreds or thousands of objects , the **LAN** and the **POE LAN** versions offer the necessary performance , while for those applications limited to dozens of objects, a **WIFI** version is available , easier and quicker to install.

A dedicated server for massive and / or 'secure' applications , or high-performance **Nextechs cloud servers at Google** , to use the system 'as a service' , are in constant communication with the anchors. The server performs calculations to determine the location of the tag , check the nodes' health status , automatically distributes and installs new versions of the node software , and provides a powerful web interface , simple and intuitive , where objects are shown on **indoor maps**. Import of indoor maps from cad or graphic formats (e.g. jpeg) is supported. A **professional SDK** (Software Development Kit) is available to developers , to leverage nips potential for custom , brand new , applications.

A PLUG&PLAY SYSTEM

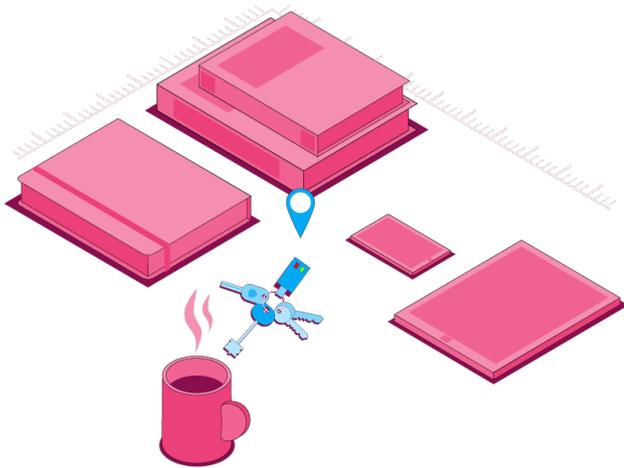
NIPS provides the real time coordinates [x , y , z] of the tagged object in space. Known at once the anchors coordinates , any tag that has been authorized on the server begins the localization procedure automatically.

The nips tag , in the simplest version , despite its small size , embeds an accelerometer , and a battery charger. An advanced version has a full **IMU** [accelerometer , gyroscope , magnetometer , barometric altitude sensor] and a set of **analog and digital I/Os** for **telemetry and remote controls**. The battery status is automatically monitored by the server , that warns for recharging at the due time.



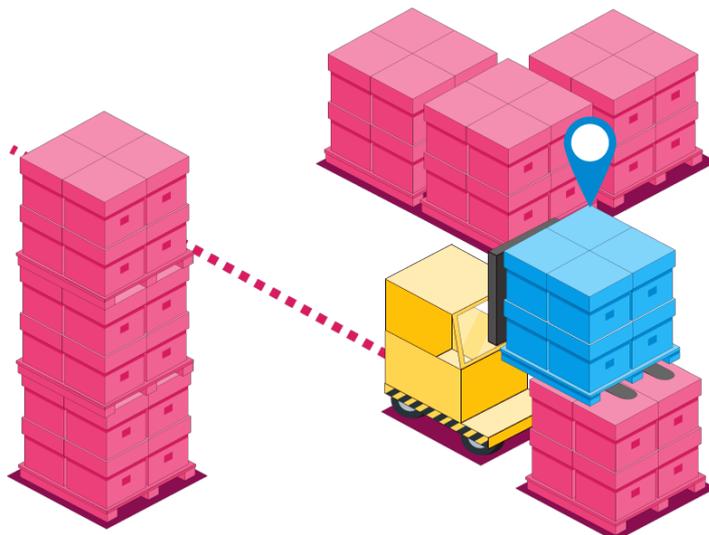
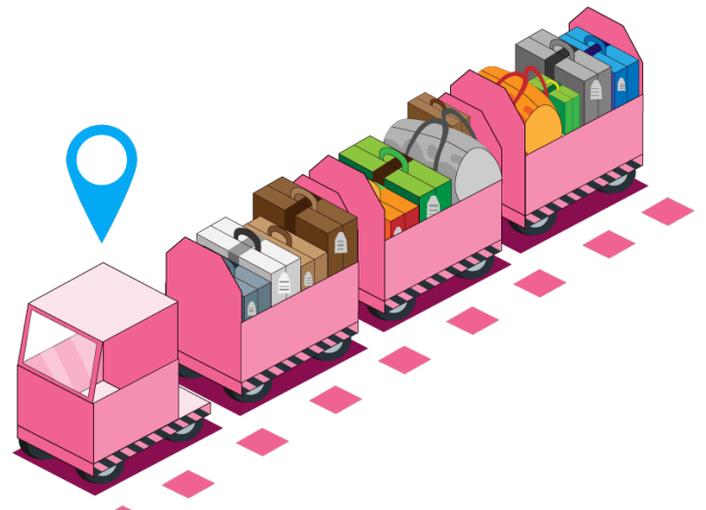
NIPS NEXTECHS INDOOR POSITIONING SYSTEM

A STUNNING VARIETY OF APPLICATIONS



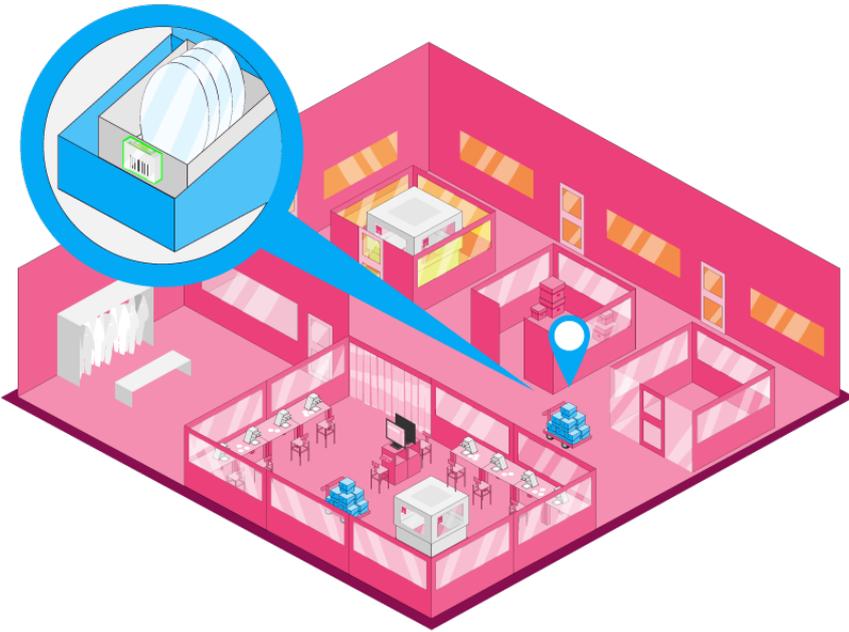
... to find the important things

... when moving stuff around



... in the logistics

NIPS NEXTECHS INDOOR POSITIONING SYSTEM



... in the production plants

... in the Sport



... or where the safety and
timeliness make the difference



NEXTECHS , a company that imagines the future , today .



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