MACHINE TO MACHINE (M2M) & INTERNET OF THINGS (IOT)

PRODUCT **PORTFOLIO**

SMART SHELVES SYSTEM WITH iBEACON

A beacon-powered smart shelf is supplied with a supplied with a radio frequency identification reader. The reader can be built into the shelf or placed above, underneath or behind the shelf. What can it do? The reader scans the targeted items (iBeacon placed on the items) on the shelf and then notifies the backend system of the items placed on the shelf.

iBEACON

READER

INTERNET OF THINGS

WIFI ROUTER

SERVER

Smart Shelf System (Sistem Rak Pintar) able to give out location with accuracy level of 95% and 5% deviation as long as it is still in 1 row.

Smart Shelf System is able provide Battery Level indicator of the beacons.

Providing An android application which able to read Beacon's data

Providing System Demo

PATTERN RECOGNITION USING ARTIFICAL INTELLIGENCE (AI)

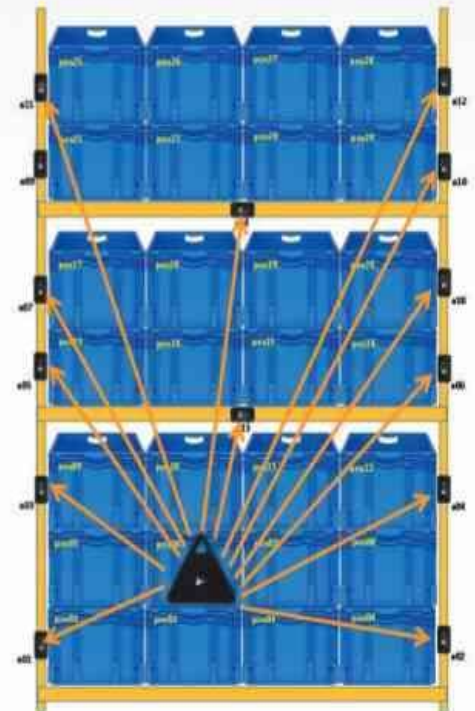**01**
Each beacon is placed in a certain position

02
This beacon's broadcast data is received by a number of Readers and these Readers forward the data to the Server.

03
The AI registers the signal patterns of each beacon and registers it as experience for certain position.

04
In the future when the Server encounter the same data pattern (can be resulted from different Beacon), the System will determine that the beacon position is at that certain position.
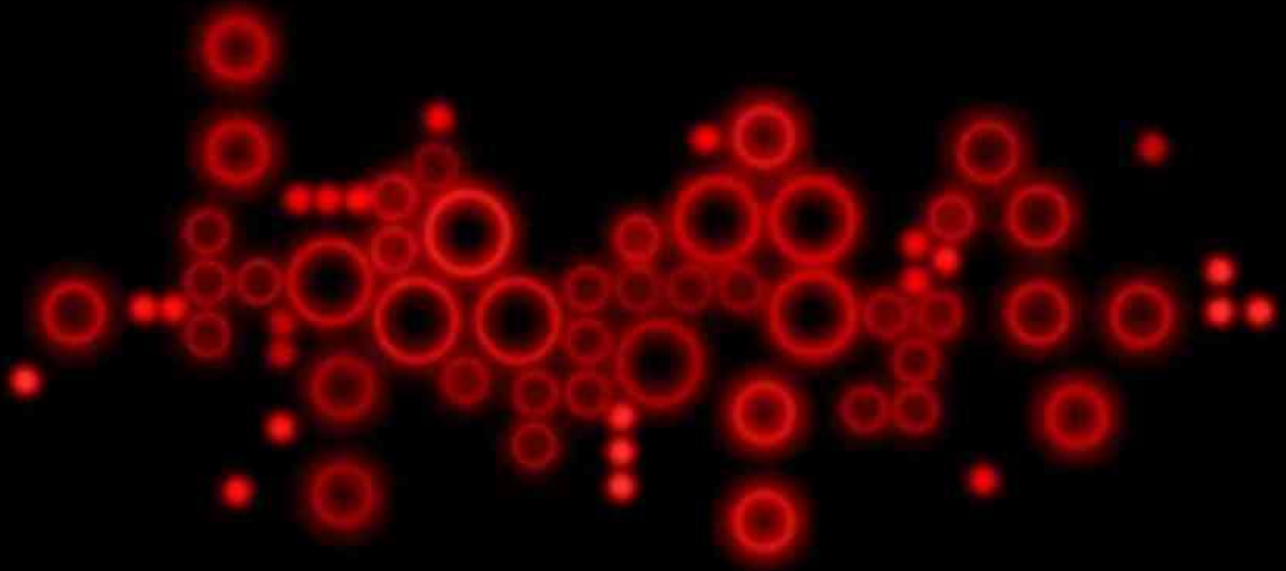

This beacon's broadcast data is received by a number of Readers and these Readers forward the data to the Server.

The AI recognizes the signal pattern of the beacons and determine the location based on registered experience

When a new data pattern arises (not experienced before) or When there are more than one positions have the same data pattern (eventhough it is less likely happened), the system will use other techniques to determine the location of the beacon

IT SOLUTION FOR BETTER BUSINESS

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