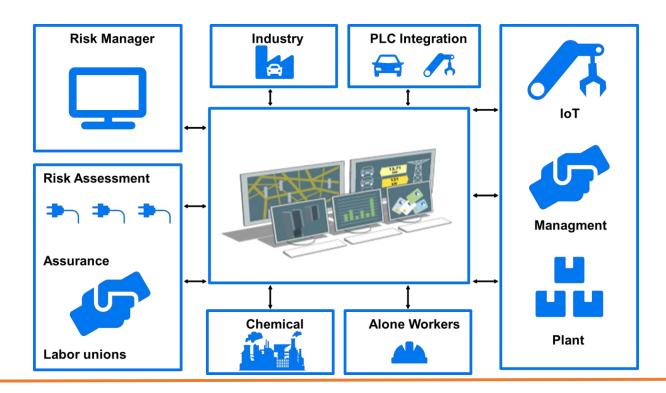# SCS CONCEPT Geolocation solution
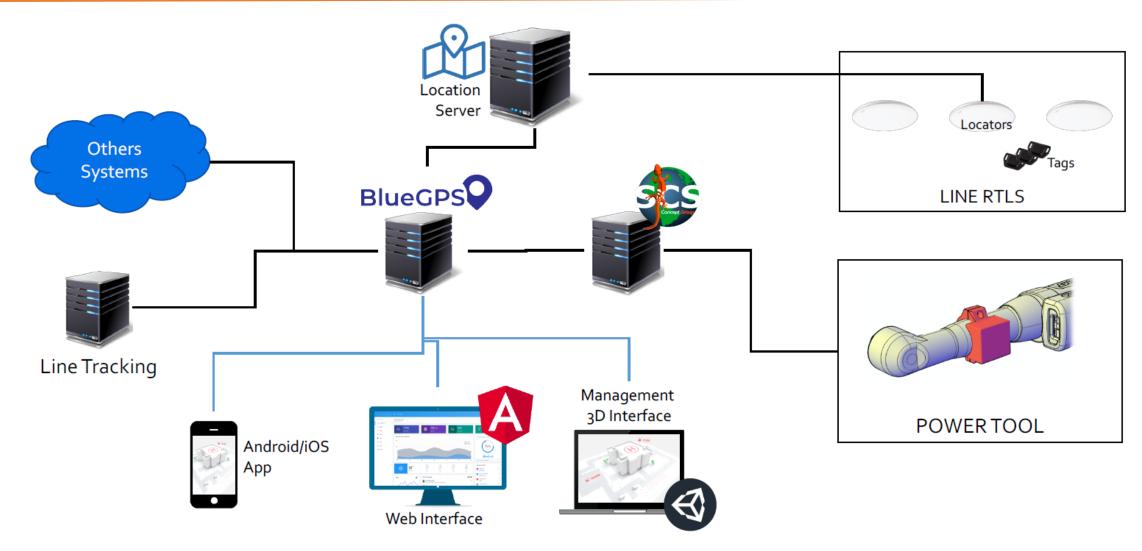
A solution for each market and all needs

Our system can be use:
1) On your assembly process to enable a tools Only if it's on right place
2) On your quality check process to start automatically the right test sequence in function of the tools around you
3) COVID-19 distance Management to send an email, alarm if 2 operator are not respected the minimum distance
4) Risk Management : Detect and analyses accident, collision in your factory
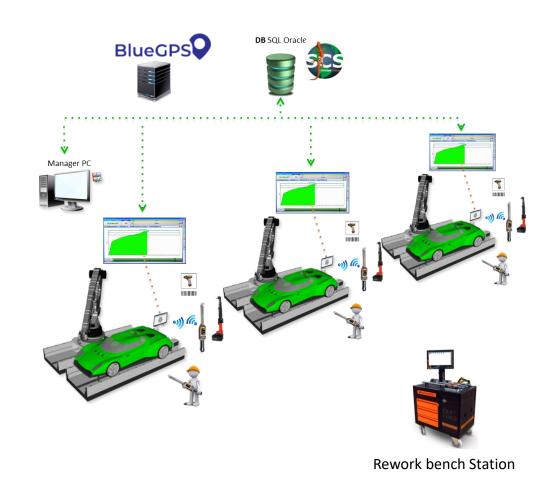5) Ect

Geolocation, system architecture

Geolocation on Assembly Process

With BlueGPS solution, we know every second where are your production tools, Your product, the Rework bench in case of default and of course, the test bench to check if all production tools are fulfilling the norms.

- Activation of the product tools ONLY if it is at the right station
- Select the right program in function of the station and your product (Vin number)
- Activation of the rework station if the bench is in front of the right product
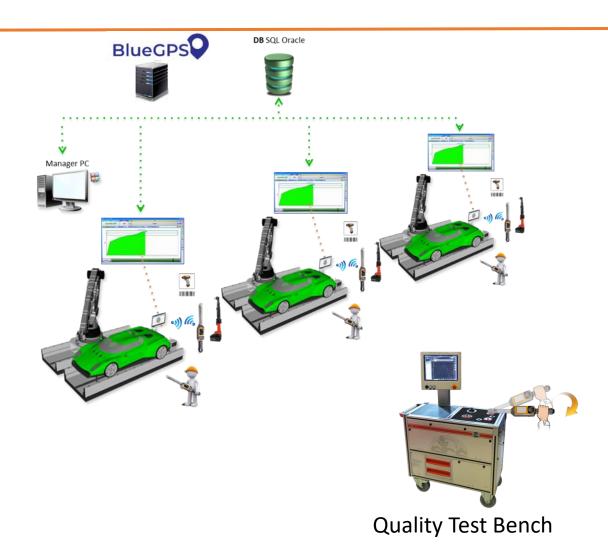- Improve quality of your production
- etc

Rework bench Station

With BlueGPS solution, you know which production was used to assembly and when he was controlling the last time, all data are store on our Database.

- When a Production tool is at 50cm of the Test bench, we start automatically the right test program in the bench and on the production tools
- Increase productivity of your Test/Control
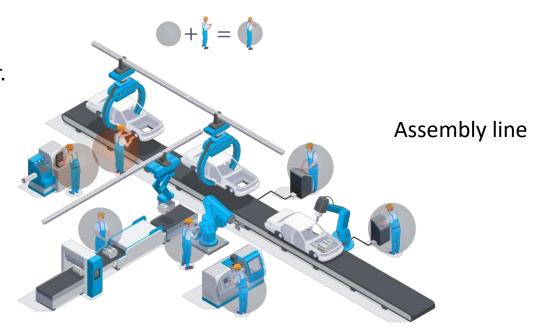- Reduce the error risk of manual setup
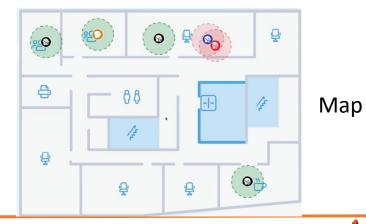- Store all data on your database

Quality Test Bench

With BlueGPS solution , we are following the international request about the minimum distance between each operator. The system send an alarm, Email, if the safety distance is not respect by your employees

- Every employees have a dedicated Tag
- Manage distance between all employees
- Trace the history of displacement
- Authorize the operator to work only on his dedicated workstation
- Send automatically an Email, Sms, etc

Assembly line
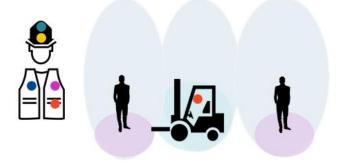
Map

Geolocation Risk Management

With BlueGPS solution , we are following any employees inside the factory, all vehicles in movement to be able to manage Risk assessment.

- In case of emergency, evacuation, you can manage in real time all employees
- Detecting near-miss accidents
- Prevent accident between employees and vehicles
- Store all displacement on database to analyze each accident
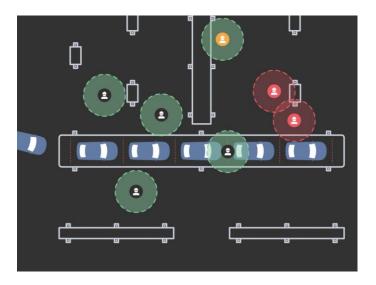- Position all External person on your factory
- Etc

Manage all vehicles on the factory plant

Manage and store the position of all employees

Guidance in real time
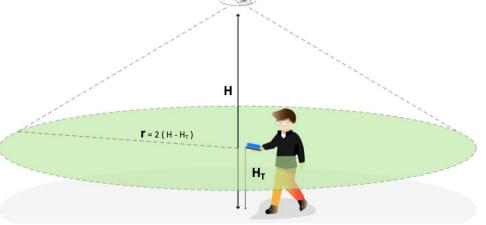
Tags

Vincent

Tags Features

- Accuracy up to 30/50 Cm depending of environment
- Autonomy 1 year
- Weight : 10 g
- Communication distance : 10 to 20 meters
- BLE 4.1 (Bluetooth Low Energy)
- Frequency : 2.402 to 2.480 GHz
- For flat card
    - RFID : Integrated Mifare tag 13.56 MHz
    - Option RFID : Integrated NFC 125 KHz
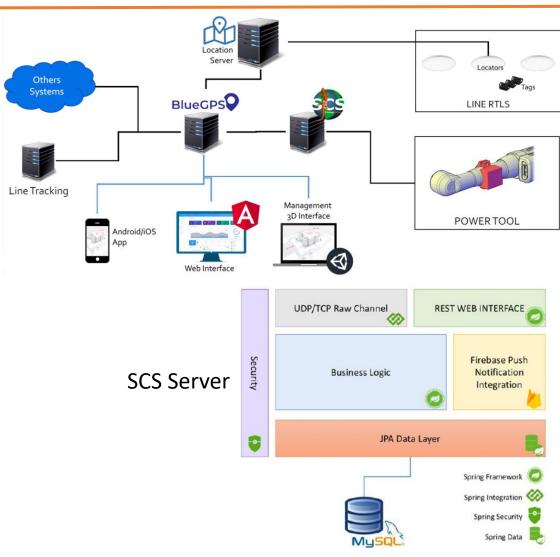
Tags size : around 20*30 mm

$r = 2(H - H_T)$

H

H_T

Max H = 40 meters

- Notifications : The system allows notification through: E-mail, SMS, Smartphone Push Notification or HTTP calls to third party systems. Each notification can be customized according to specific needs.
- Distance between each Antenna :
  - Indoor : Between 10 / 20 Meters
  - Outside : Between 50 / 100 Meters
- Filter available for receiver depending of environment noise
- Software base in Java to be compatible with all platform
- Position of each tag updated every 1 second
- Web interface design
- Android and IOS application for mobile solution
- User group management
- Each receiver can manage 400 Tags
- Receiver and cable RJ45 PoE need to be install by the supplier of customer (Cable are not included inside our quote)
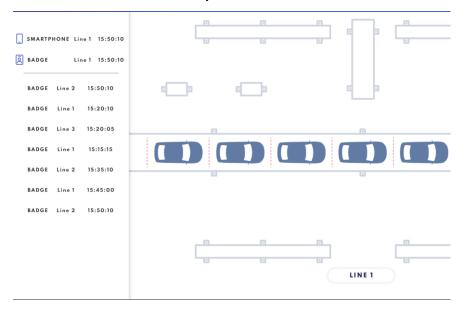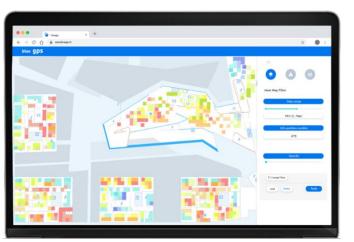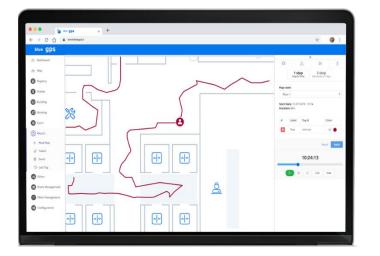
SCS Server

Geolocation Features
Report

Analyze the trace of every tag, search a tag, send guidance to a tag, etc

Real time position

Real time Map
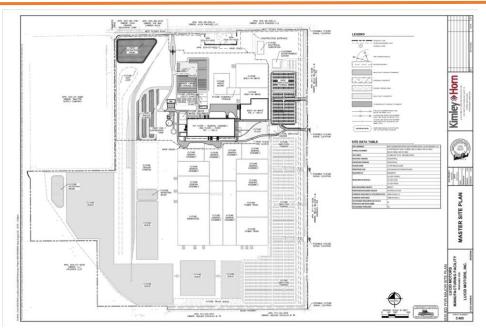

Spaghetti Chart

Geolocation
Information's Needed to quote

We need the MAP if the area where you want install the geolocation supervision. This map need to integrate a maximum information, like dimension of each room, size of walls, distance from floor to ceiling, do you have some wireless perturbation in this area due to Crane?, Welding machine, etc ?

Some Pictures of the environment, don't hesitate to send a maximum of information

Geolocation
Information's Needed to quote

Please send all quote request with all technical information to : bluegps@scsconcept.com

Remember that the price by Square meter is limited to a surface higher than 500m²

Remember that the installation and the Ethernet RJ45 PoE is not included on the quote, the customer will ask his factory supplier.