



## indoo.rs SLAM Revolution:

With indoo.rs SLAM, worldwide Indoor Navigation roll outs will be done with a level of ease you've never experienced before... It'll be as easy as using GPS outdoors.

The crowd will:

- create the map
- maintain the map
- increase map accuracy

And it will be done all without anyone spending extra man hours.

With each stage of the SLAM revolution, the previous barriers to installing or maintaining Indoor Navigation solutions are removed.

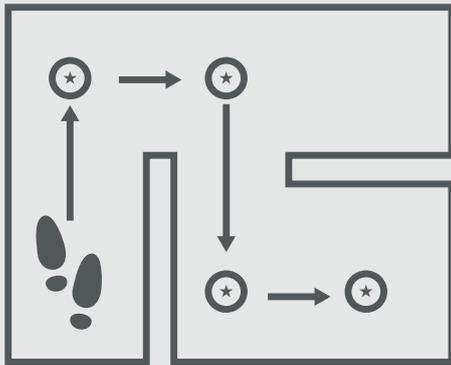
indoo.rs solves this problem with its innovative SLAM (Simultaneous Localization and Mapping) technology, which is already revolutionizing the Indoor Navigation industry. It comprises of 3 tiers which interact to automate the whole mapping process of a building, make any manual input obsolete and thus significantly increasing your business efficiency.

## Changing the game:

What has been holding back the worldwide uptake of this technology is the labor intensive installations and maintenance. This is exactly what indoo.rs is about to change for the benefit of the entire industry. With indoo.rs SLAM, you can provide your service globally without going through the trouble of visiting each site individually.

## Benefits:

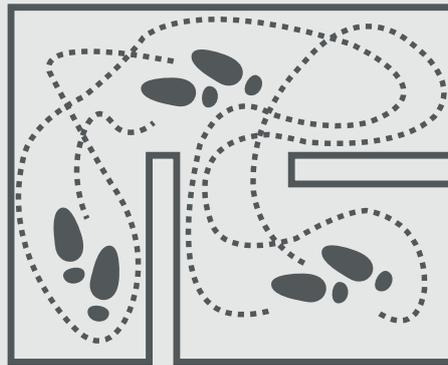
-  Cost reduction
-  Worldwide scalability
-  Reduced time expenditure
-  Significantly improved accuracy
-  Full automation of mapping process
-  Easiest setup and maintenance of Indoor Navigation framework



### SLAM Engine™

- Generates radio maps
- Single path SLAM with ground truth

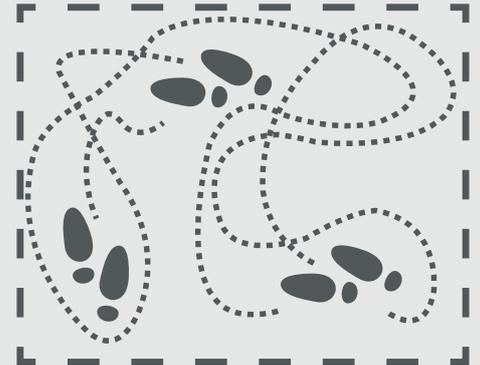
**Fast deployment**



### SLAM Crowd Engine™

- Automatically updates radio maps
- Big data approach to maintain level of accuracy
- Multi-trajectory SLAM with locator support

**Maintenance free**



### SLAM Crowd Learning™

- Automatically generates maps
- Big data approach to extract map features and analytic properties
- Uses lots of low quality crowd collected data
- Multi-trajectory SLAM, non-radio references, interactive analytics

**Slam the world**

## indoo.rs SLAM is comprised of 3 tiers:

### Stage 1: SLAM Engine

The SLAM Engine is used to automatically create accurate radio maps of indoor venues. It runs on a smart algorithm that reduces the required manual input to a minimum. Giant buildings of 10,000 sqm can be mapped within only 1 working day delivering results that are as accurate as when using traditional methods. The SLAM Engine was released in early 2016 and has already been used in many successful projects worldwide.

**Launch date: Jan 2016**

### Stage 2: SLAM Crowd Engine

By leveraging data from phones navigating inside a building, the map will be kept up to date at any time. Thus, even if the building's layout is changed (e.g. walls are added), the map will be updated and the navigation system take the new walls into account. The accuracy of navigation will simultaneously be further improved upon.

**Launch date: Late 2016**

### Stage 3: SLAM Crowd Learning

This will completely automate the whole mapping process, making any manual work obsolete. With it, Indoor Positioning projects will be realized as quickly and efficiently as ever before, enabling Indoor Navigation to be implemented in every building worldwide.

**Launch date: Early 2017**

#### References:

