

An aerial photograph of a busy city intersection. The scene shows multiple lanes of traffic with cars and a truck. Pedestrians are visible on the sidewalks and crossing the street. A large, semi-transparent dark rectangle is overlaid on the center of the image, containing the title text in white. On the left side of the intersection, there is a large, circular, white structure with a blue and white striped pattern, possibly a public art installation or a market stall. The overall scene is a typical urban environment with a mix of vehicles and pedestrians.

Sensor Detection Technologies for Bicyclists & Pedestrians

TagMaster

LEARN FROM REALITY



Sensys Networks, Inc. was founded in Berkeley, CA in 2003

Markets/Industries:

Traffic, Tolling, Parking, Rail

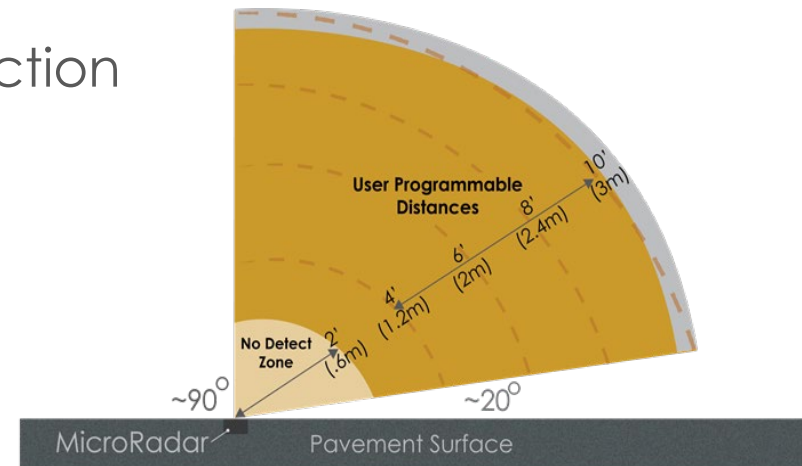
Sensor Technologies:

RFID, ANPR, Radar, Video-AI, Wireless Magnetometers

Bike Safety at Intersections

“True” Bicycle Presence Detection in Shared and Dedicated Lanes

- First Technology that:
 - Differentiates between bicycles & vehicles
 - Detects all bicycle types
 - Works in various weather conditions
 - Eliminates line-of-sight occlusion
 - Works seamlessly with existing detection
- Improve Safety by Optimizing Green Time
 - Allows bicycles time to safely cross
 - Traffic still flows when bicycles not present



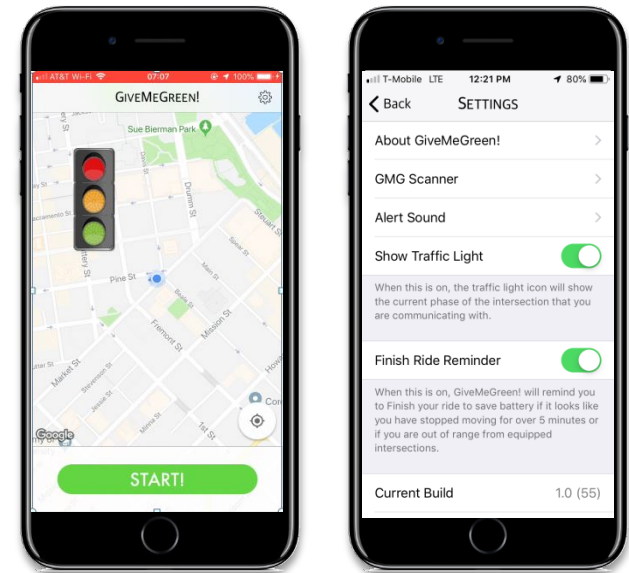
MicroRadar sensor for Ped Detection

- MicroRadar Sensor embedded in pavement
- Detects pedestrians with pulsed radar signal
- Communicates wirelessly to traffic signal cabinet
- Detection notification to traffic signal controller
- Configurable detection zones
- Add-on to existing Sensys equipment



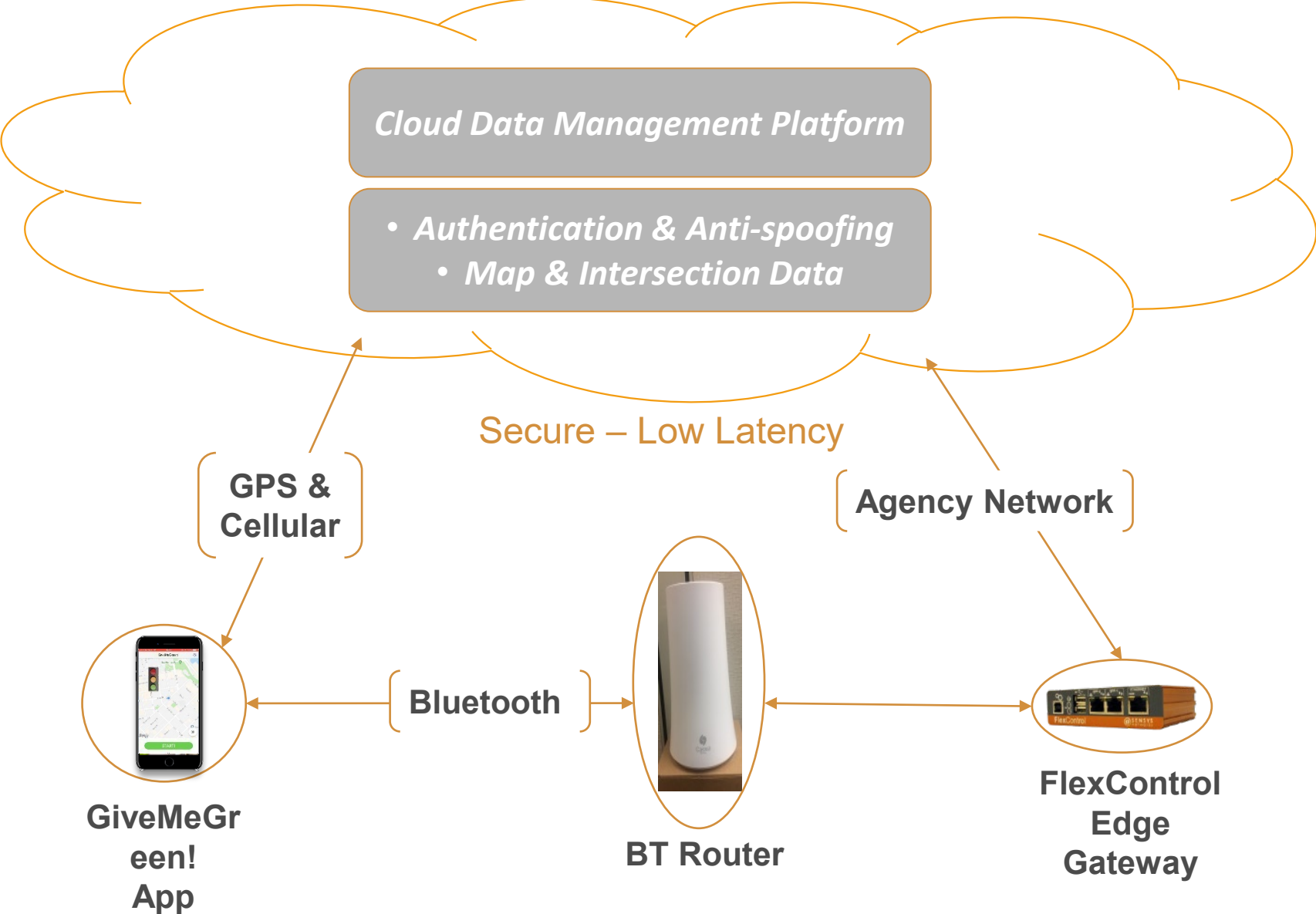
Basic Concept – Virtual detection

1. Individuals' smartphones with the Sensys App are the sensors
2. GPS & Bluetooth antenna detects traveler at agency-defined points
3. System notifies the traffic controller of presence for signal control
4. App informs traveler they have been detected by the signal



- Initial implementations have been for bicyclists (scooters too).
- Testing currently for transit priority and freight optimization
- Could potentially be used for pedestrian detection

GMG System Architecture



Santa Clarita Commuter Trail

- GMG deployment to improve bicycle safety, mobility & driver awareness along a 3-mile bi-directional cycle track.
- Improvements include blank-out signs to warn right-turning drivers to yield to oncoming bicyclists when present
- 300' advanced detection for cyclists to improve progression
- Feedback signs illuminate when cyclists have been detected





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Questions & Additional Information

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