MicroRadar™
Next Generation Bicycle Detection
Growing Need For Bicycle Detection

- **Increasing bicycle population**
  - 4 billion trips made annually
  - 12% of trips are biking or walking
  - 64% increase in bicycle commuters

- **Transportation funding shifting to meet bicycle demands**
  - 1.5% of federal funding for bike infrastructure
  - 83% of Americans want to increase or maintain funding (including detection)

- **Many states considering or mandating bike detection at intersections** (CA, WA)
Especially in Texas

• A growing cycling population in Texas
  – Ranks #27 out of 50 bike-friendly states
  – Bike commuters in Houston increased 67% from 2007 to 2010
  – Early adopters: 1% of Austinites are bicycle commuters while Houston’s .5% is ahead of San Antonio (.2%), Dallas (.2%) and Ft. Worth (.1%)

• Draws more attention and funding from federal, state and civic
  – $15M committed in 2012 to building/connecting Houston's bike paths by local agencies and federal grants
  – Supported by Federal Highway Administration, Texas Representatives and Houston’s mayor

• And will require accurate detection to maintain
  – Safety of cycling community
  – Efficiency of bike infrastructure and management of traffic systems
MicroRadar™ - Bike Detection

- Differentiates between bicycles and vehicles
- Allows for “True Presence”
- Automatic detects any bicycle type
- Works in all weather
- Eliminates occlusion
- Has a 5 year guarantee
Benefits - Maximizes intersection efficiency

• Green time allows bicycles to safely cross; while traffic flows when bicycles are NOT present

• Detects all stopped and slow moving vehicles AND works seamlessly with existing vehicle detection system:
  – Within existing Sensys Networks deployments
  – OR with loop, video and radar

• Detection Area provides full lane coverage
  – Single sensor with a user controllable zone up to 11 ft. wide by 9 ft. long
  – Can be used in dedicated and shared lanes
An Optimal Solution for Safety

• **Improve Safety & Optimize Green Time**
  - Allows bicycles to safely cross
  - Traffic still flows efficiently when bicycles not present
MicroRadar Detection Zone

6.3GHz uWave Sensor

~4-10 ft Range

90° detection cone

Pavement Surface
MicroRadar Detection Area
Cities Already Implementing MicroRadar

West Des Moines, IA
Fort Collins, CO
Chicago, IL
Charlotte, NC

Seattle, WA
Santa Monica, CA
Santa Rosa, CA
Next Steps

Learn more about MicroRadar at sensysnetworks.com

Identify “problem” intersections & request a sample design from Sensys Networks

Plan for a MicroRadar pilot - up & running in less than a week!
THANK YOU
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