connect. comprehend.
Applied Information Inc is a US-based technology company.

**What we do for our customers:**
- Make the transportation products easier to deploy
- Provide information from the field easily and economically
- Provide hardened field devices; innovative low cost wireless telematics; cloud/web software and solutions

**Background and Experience**
- Company was incorporated in 2011
- Principles of the company have collectively 100+ years of experience in the transportation market
- Headquarters located in Atlanta, GA
- Development offices in SA and India
Installed in over 220 Cities

Over 7000 devices deployed

Over 60 employees with over 30 engineers
How do we make transportation **technology** easier to deploy and maintain?
How do we make transportation technology easier to deploy and maintain?

- Devices that self-locate themselves
- Build in Cell Modem & GPS
- Automatic configuration (no IP address)
- Synchronized with Central
- Over-The-Air (OTA) software updates
- Cloud & Web-based software
- No software required for Cities
Smart City Supervisory System that monitor Cities Assets

Make Things Easier...

- Automated Alerts when fault detected
- AC failure, Flash, Battery Failed, etc

- Control & Configure Devices Remotely
- Know the problem before you leave

- Key Performance Indicators
- Automated Reports
What do we do?

Turn data into information

Wired, wireless, or cellular
Know the status of your devices
Right information at the right time

Cloud based
Key performance indicators
Report and analyze information

Intersections
Pedestrian Safety
Priority & Preemption
Mobile
ITS Management

ROAD WORK AHEAD >>
The Gainesville, GA example ...

At 55 mph, need 2420 ft of range to give a safe 30 second preempt

With “line of sight” only have 800 ft or 10 second preempt resulting in unsafe condition
Autonomous Vehicle

The Tesla Experience
Your Smart City just got smarter.

Connected Vehicle
& Smart City Solutions
How TravelSafely Works

TravelSafely™ uses cutting edge technology to connect your phone to a network of traffic intersections, school beacons, motorists, cyclists and pedestrians.

TRAFFIC SIGNALS
Drivers can see when traffic lights will change.

SCHOOL BEACONS
Drivers are alerted when they are speeding in a school zone.
TRAVELSAFELY® APP
Citizens using the TravelSafely app are seamlessly connected to your city and other motorists using the app.

The app uses audible warnings to alert you to potentially dangerous road conditions. By utilizing spoken alerts, TravelSafely allows you to focus on the road and receive alerts while using your favorite mapping app.

CYCLISTS & PEDESTRIANS
Cyclists and other Vulnerable Road Users are alerted of speeding vehicles

EMERGENCY VEHICLES
Motorists are alerted to emergency vehicles miles ahead of the actual arrival
Signal Phase and Timing (SPaT)
Red-light running at traffic signals

Smartphone anticipates red light running
Curve warning/reduce speed

Speeding alerts provided in Sharp Curve Zones
School beacons slow down

School Zone connected to TravelSafely application
Emergency Response
Where Emergency Vehicle coming from?

Emergency vehicle alerts provided directly to motorists and pedestrians.
Motorist/Cyclist communications

Audible alarm alerts cyclist of danger

Vehicle & Cyclist talking to each other

Audible alarm alerts motorist of danger
Motorist/Pedestrian communication
Work zone Warnings

Speeding alerts provided in Work Zones
Transit Signal Priority
Truck Priority Using TravelSafely Pro
City of Marietta, GA
University of Alabama
Current TravelSafely Apps

- SPaT/MAP display of signal timing – V2I
- Red-light running at traffic signals – V2I
- Bus/transit priority – V2I
- Intelligent school beacons – V2I
- Emergency vehicle getting through the signal – V2I
- Where is the emergency vehicle coming from? – V2V
- Motorist – Cyclist communication - V2V
- Motorist – Pedestrian communication – V2V
- Workzone warnings – V2I
- Curve warning/reduce speed – V2I
- Rear end collision warning – V2V
- Virtual/advance traffic detectors to make signals work better – V2I
Future TravelSafely Apps - 2018

- Wrong way detection – V2I
- DMS message sign annunciation – V2I
- Weather Warnings – V2V
- Congestion Ahead Warning – V2I
- Railroad crossing active ahead – V2I
- Event management area management V2I
Virtual Advanced Detection

- Advanced detection at each traffic signal
- ETA based (10sec) or location based
- Can detect different classes (vehicle, cyclist)
- On actuated intersection at night no reason for someone to arrive on red
- Working on pedestrian detection
DMS Message Sign Annunciation
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Key performance indicators
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Intersections  Pedestrian Safety  Priority & Preemption  Mobile  ITS Management