

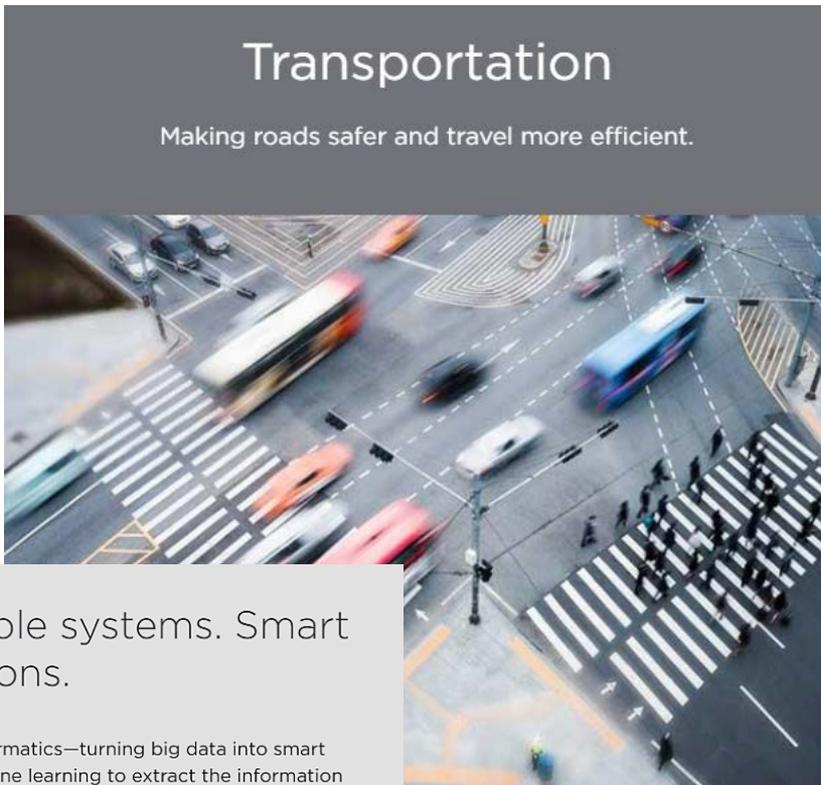


# Overview and Opportunities Transportation Systems

USDOT – ITS Community College  
September 2017

# Who is Iteris?

- Leader in transportation informatics
- \$90+ M annual revenue
- 425 employees
- Over 12,000 customers
- NYSE: ITI



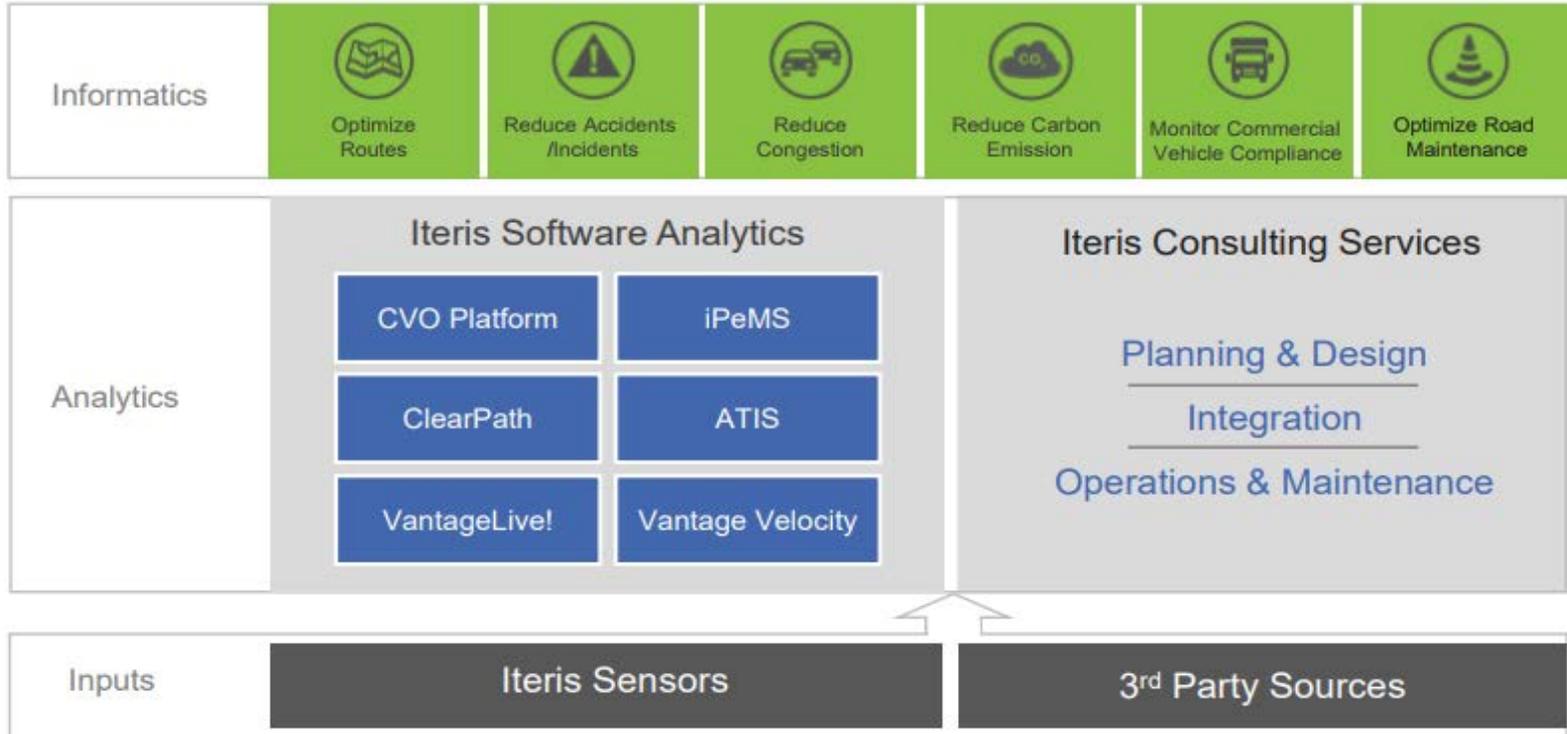
## Transportation

Making roads safer and travel more efficient.

Safe roads. Sustainable systems. Smart decisions.

Iteris is leading the world in applied informatics—turning big data into smart insights for transportation. By using machine learning to extract the information engineers and data scientists need to solve complex problems, we're making our roads safer and enhancing mobility. Building better communities today means we're creating a better world tomorrow.

# Iteris Smart Transportation Solutions



# Iteris Smart Transportation Ecosystem

## MARKETS

Local  
Agencies

Regional

State

Federal /  
National

International

Commercial

## THE ITERIS TRANSPORTATION ECOSYSTEM

Distribution  
Partners

Construction  
Partners

Communication  
Service Providers

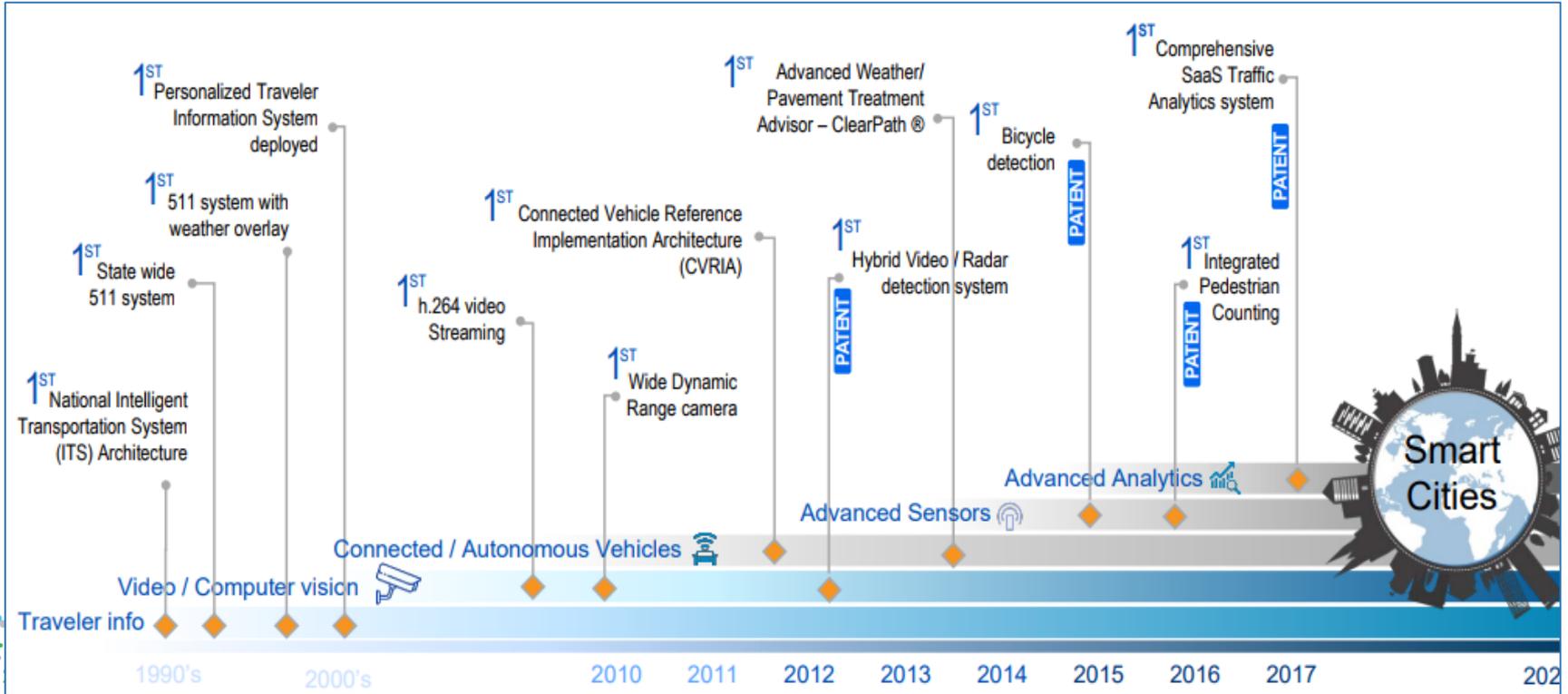
System  
Integrators

Hardware  
Suppliers

Data  
Suppliers

## PARTNERS

# Pioneering Transformative Technologies for Over 2 Decades



# Key Investment Activities Involving ITS

- Integrated Corridor Management (ICM)
- Preparing for Connected and Autonomous Vehicles (CAV)
- Transportation System Management and Operations (TSMO)
- Road Pricing Solutions / Managed Lanes (ML)
- Traveler Information and Data Sharing



# Making the Connection for Smarter Mobility

## Traveler Information



## Connected/Autonomous Vehicles



## ITS & Engineering



## Goods Movement



## Integration / Operations / Maintenance



## Mobility & Analytics





- Design / operation of fourteen 511 systems across the US
  - ▣ Mobile and web apps including live traffic data, advisories and video
  - ▣ Interactive voice response
  - ▣ Multimodal real-time corridor information (example: I-95, No. Virginia)
  - ▣ Crowd-sourcing data (including cooperative agreements with Waze and other vendors in several states)
  - ▣ Welcome center and public access points



## Connected / Autonomous Vehicles

- Development of USDOT's Connected Vehicle Reference Implementation Architecture and integration into National ITS Architecture, now known as ARC-IT
- Development and maintenance of vehicle-to-infrastructure / vehicle-to-vehicle (V2I/V2V) test beds including installation and testing of roadside units
- Trusted advisor to state and local agencies on implementation and deployment of CAV solutions
- Development of real-time data portals for CAV service providers (e.g., VDOT SmarterRoads)

# ITS & Engineering

- Trusted expertise through full life cycle of ITS projects
- User-driven system design follows systems engineering process
- Focus on effective operations and maintenance of systems
- Mobility, technology, deployment assessment
  - ▣ State and Regional ITS Architectures
  - ▣ ITS Strategic Planning
  - ▣ Concepts of Operation
- Design-build and turn-key design / deployment
- Over 150,000 ITS devices integrated
- Timing of over 1000 traffic signals annually



# Goods Movement

- Support to states on Core and Expanded Innovative Technology Deployment (ITD) programs for commercial vehicle compliance / violation checking

- ❑ CVIEW+
- ❑ Inspect
- ❑ Checkpoint



3032 Total Users  
CURRENT inspect contracts in 8 STATES

product support  
15 minute RESPONSE TIME

TOTAL INSPECTIONS completed in 2016 with inspect  
654,311



Customer request to production  
40 Days\* Average  
\* Other vendors take 6-12 months

20,782 User sessions  
January, 2017

1,442,053 Carrier and Vehicle queries completed in 2016

TOTAL USERS  
7,972  
21 STATES





## Integration / Operations / Maintenance

- Central, field and Cloud integration of technologies and software apps
- Convergence of traffic operations and data analytics
- TMC operations and ITS device/coms network management
  - ▣ Managing Virginia DOT's 5 TMCs and operations program since 2015
  - ▣ Equipped video-based traffic sensors for over 1/3 of signalized intersections in U.S.
  - ▣ Deployed 900 miles of wireless network coverage
- Designed and integrated 23 TMC facilities since 2005

# Mobility & Analytics

- Mobility
  - ▣ Regional and Local Systems Operations Planning
  - ▣ Transportation Planning (multi-modal, vulnerable users, community)
- Analytics
  - ▣ Leading developer of performance measurement and analysis systems and services

Performance Measurement  
Software is actively deployed in  
**23 STATES**



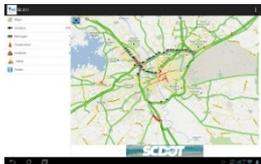
iteris supplies  
informatics to  
**48**  
STATE DOTs

Developed / Applied  
**100+**  
Travel Demand Models  
Nationwide

# Trusted Expertise Throughout the Full Life Cycle of Transportation Projects

**5000+**

ITS/Engineering  
and Planning projects  
completed



**14**

**US states  
utilize  
Iteris  
Advanced  
Traveler  
Information  
Systems**



**Operating  
over 30**

**Traffic Management  
Centers**

rights reserved.

**User-Driven  
System Design**

- Planning for Operations
- Systems Engineering
- Data Analytics
- Traveler Information
- Connected Mobility

**High-Level  
Mobility and Technology  
Assessment**

**Hands-On  
Implementation**

**Pro-Active  
Operations**



**Advisors to**  
50 State DOT's  
1000+ county agencies  
10,000+ municipalities

Timed over  
**15,000**  
Traffic Signals



**iteris**



# The Skills We Look For

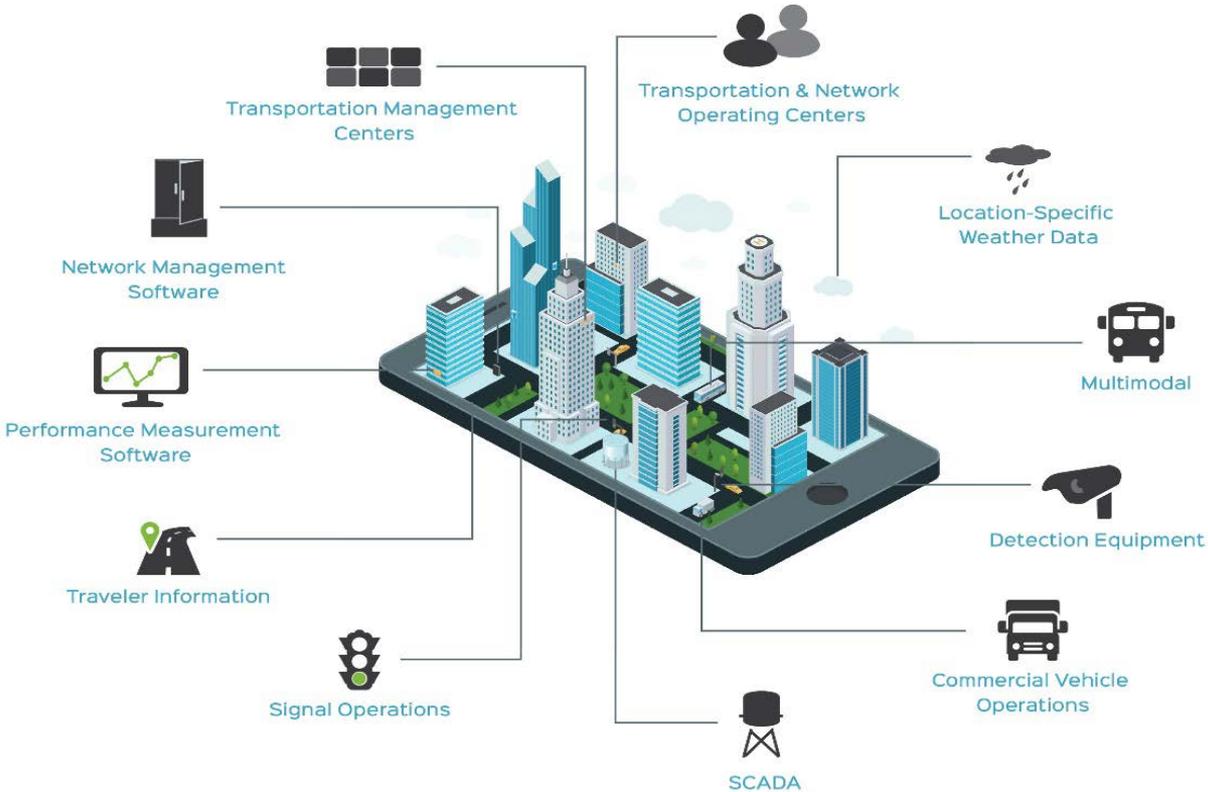
# Skill Areas

- Engineering (civil, electrical, computer science, systems)
- Computer Science (programming, integration, system design)
  - ☐ Includes user interface design, mobile applications, analytics
- Transportation and urban planning
- Other specialties
  - ☐ Meteorology
  - ☐ Mathematics / statistics
  - ☐ Control room operations (monitoring services, supervision, coordination with other agencies / first responders)
  - ☐ Central and field integration technicians and inspection services
  - ☐ Product support (engineers and technicians)

# General Experience Needed

- BS in Engineering for key professional positions
  - ☐ PE, PTOE certifications
  - ☐ Some clients require PMP for many project management roles
- Masters degrees useful for planning / analytics / research-related activities / specialties
- IT activities: Mix of collegiate and hands-on experience
- Operations staff may have more eclectic backgrounds
  - ☐ Traffic engineering technicians
  - ☐ Military
  - ☐ SCADA
  - ☐ Air Traffic Control
- Integration activities may involve various certifications (MCSE, IMSA)

# Iteris Smart Community Vision



# Thank You!

Questions?

