



Nation Waste
Innovative, LLC

NationWaste.us

Smarter Cities & Safer Workplaces

Maria Rios



The Future of a Smart City

Nation Safety Net

Maria Rios

Fortune's 10 Most Powerful Women Entrepreneurs
Gold Medal National Congressional Entrepreneur of the Year
United States National Women's Business Council
GW Bush Business Advisory Businesswoman of the Year
Goldman Sach's 10,000 Small Business First Honoree



Smarter Cities & Safer Workplaces

Nation Safety Net Smarter Cities & Safer Workplace product offerings offer solutions for businesses and municipalities powered by Watson cognitive insights and the internet of things. Communities, buildings, homes, workers and city streets are safer and more efficient. Smart, environmental and wearable sensors gather data while the Watson IoT engine enhances the data with weather and other value add sources to bring notifications and cognitive analytics to avoid accidents and increase productivity.



Workers & Worksites

- Injury Reduction
- Traffic Warnings
- Mobile Protection
- Meter Reading
- Eco-Terrorism
- Fleet Hazards
- Biometric Alerts
- Danger Zones



Cities & Communities

- Bike Lanes
- Traffic Flow
- Parking Lots
- School Zones
- Water & Energy
- Crowd Protection
- Accident Avoidance



Buildings & Homes

- Safety
- Convenience
- Energy Efficiency
- Facial Recognition
- Space Optimization
- Occupant Experience
- Maintenance Improvement

Smarter City Planning



Smarter City Efficiencies



1 Buildings:

The state of Massachusetts owns 72 million square feet of property. Software helps improve maintenance, space and management across public sector buildings.

2 Traffic:

Approximately 1.9 million commuters travel by car a day in Boston. Officials examine how Big Data technology makes transportation more efficient and reduce pollution.¹

3 Airport:

Tens of millions of travelers pass through Logan Airport every year. Software helps the Port Authority better manage maintenance operations for equipment such as air conditioning, doors and escalators at Terminal A.²

4 Physical Assets:

Boston has more than 60,000 streetlights³ and 13,000 fire hydrants.⁴ Software helps city officials better manage and maintain physical assets.

5 Special Events:

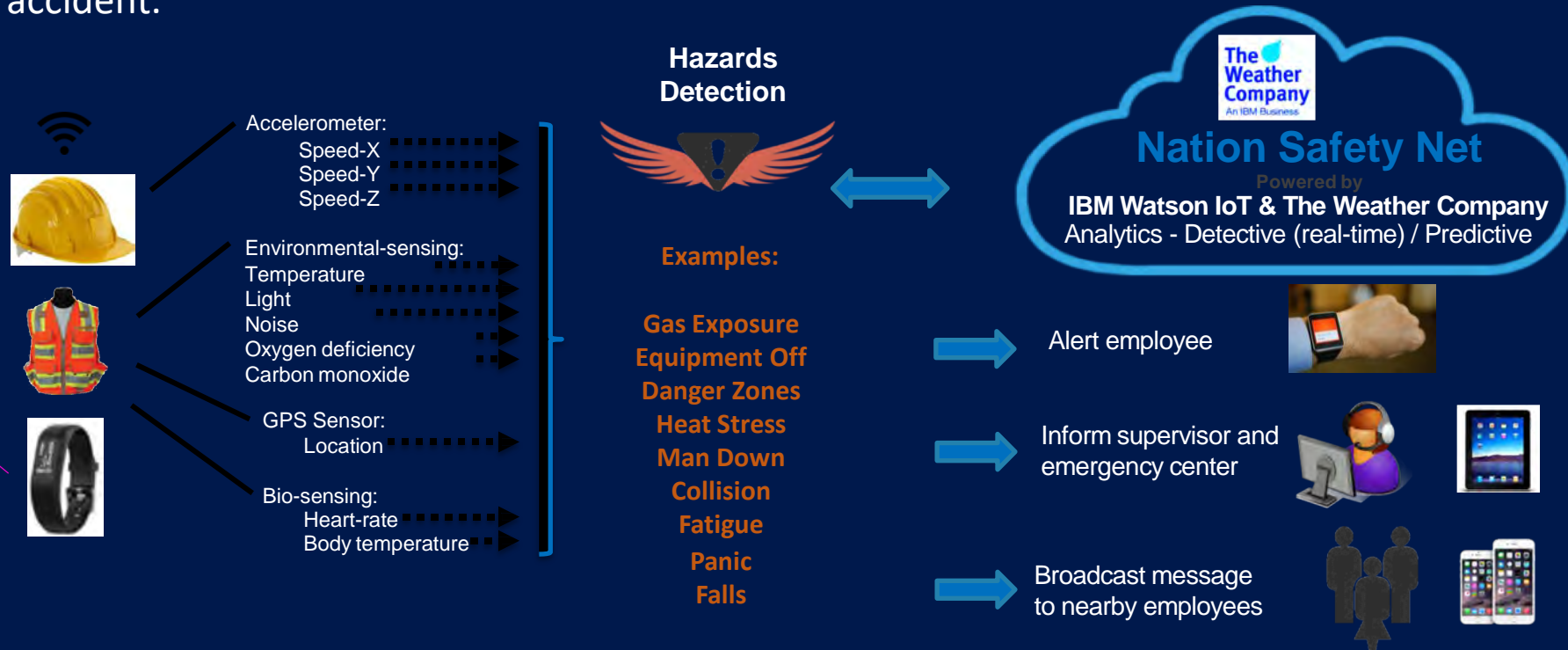
More than half a million people attend events such as the Boston Marathon and July 4th fireworks every year. Software can integrate and visualize critical information across city departments including fire, police and emergency responders to help coordinate and plan special events.⁵

6 Water:

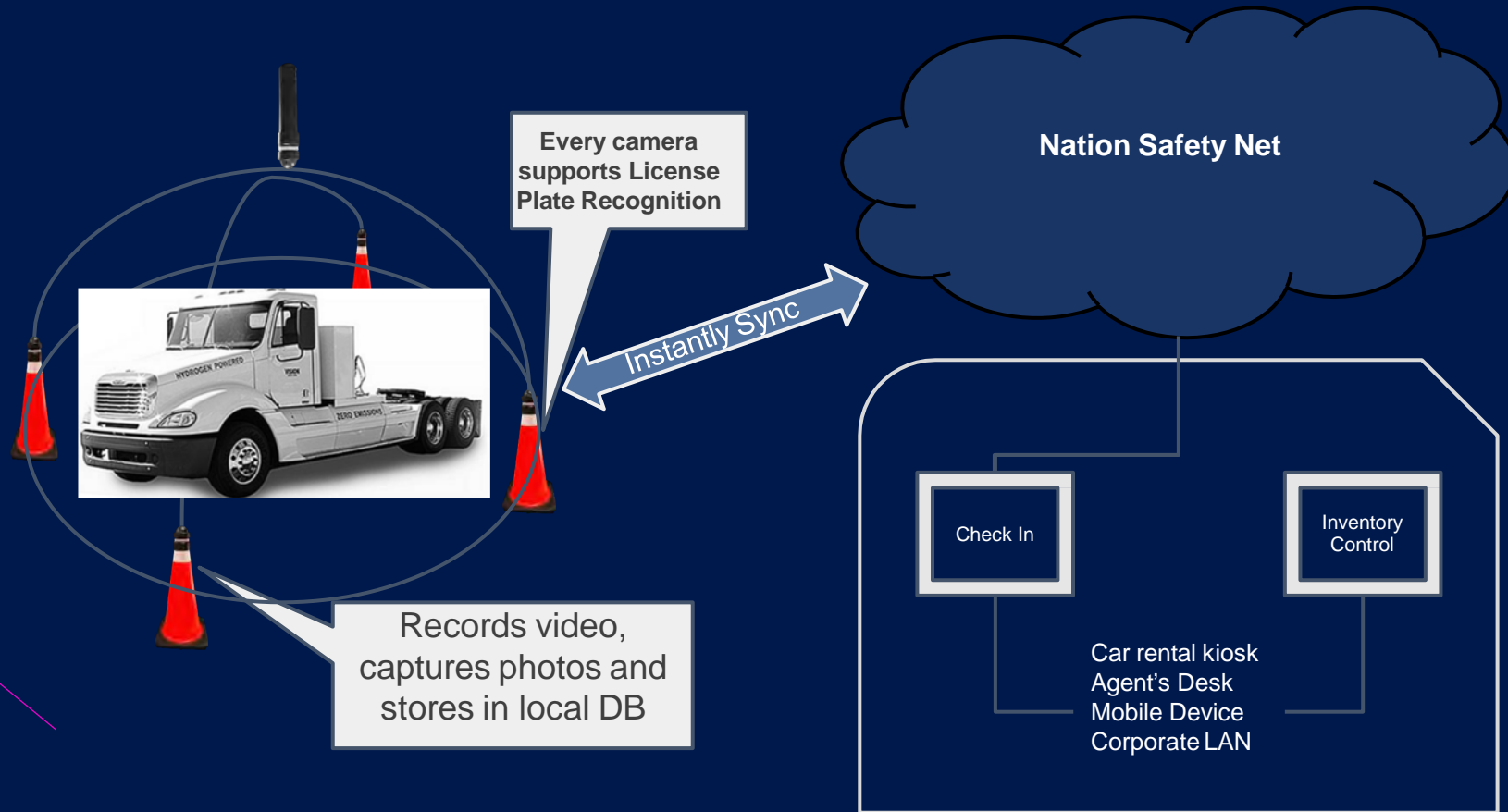
Massachusetts Water Resource Authority (MWRA) serves 2.5 million people in 61 communities.⁶ Using software, MWRA decreased corrective maintenance and project work orders by 38 percent.

Safer Workplace/Safer Workers

Sensors are worn by employees which monitor data such as heartbeat, acceleration, skin temperature, humidity and outside weather conditions. The wellness and safety of the employee is monitored. If hazards are detected, workers, nearby colleagues and supervisors are notified. Action can be taken to prevent serious injuries. Emergency services can be contacted automatically by the system in the case of a severe accident.

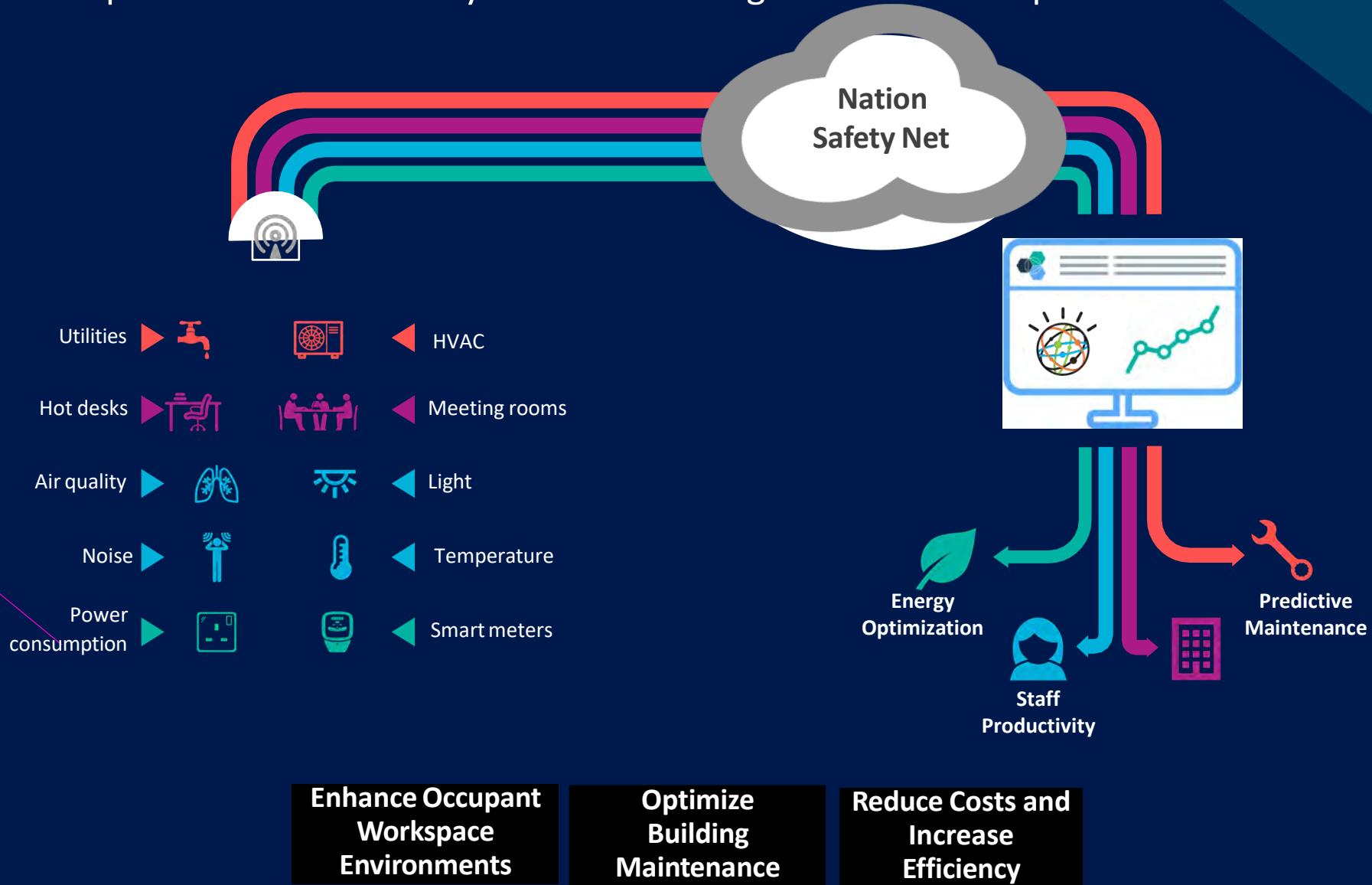


Fleet Asset Management



Building Optimization

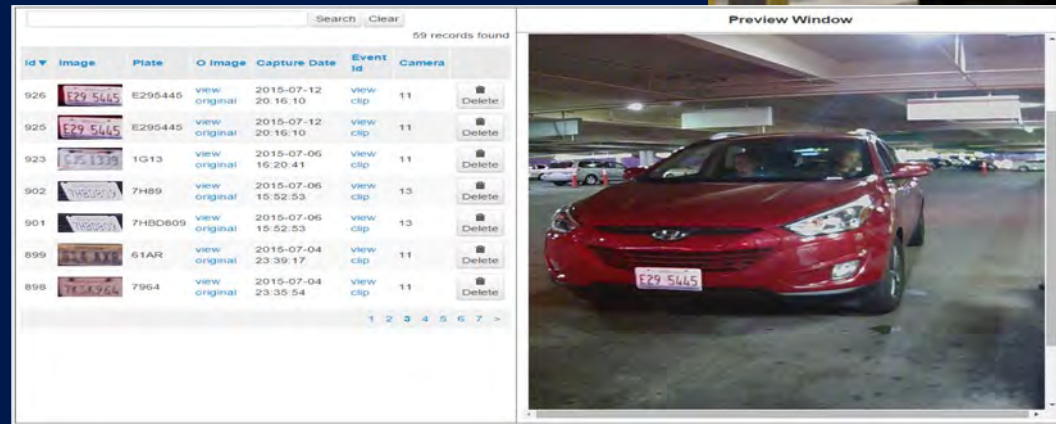
Using cognitive analytics, sensors, and existing building systems, significantly improve your occupant experience and reduce your total building infrastructure operations.



Traffic Flow, Smart Parking & Vehicle

Vehicle Control, License Plate Recognition, Lane Efficiency

- Track vehicles and adjust traffic flow to real time demand
- Seamless payments that automatically charges account based on license plate number, mobile app, or proximity tag
- Public safety through video analytics to deter and enforce crime
- Deploys a platform that can combine multiple real time data source from sensors, cameras, weather, traffic, and social media into a single user view as an Intelligent Operations Center (IoC)



Smart City Parking Management

City Challenges

- Nearly 30% of the congestion on city streets comes from people looking for places to park
- Increased traffic increases carbon emissions and commuting times
- Parking operations are losing revenue and increasing costs from inefficient enforcement



Solution Features

- Seamless payments that automatically charges account based on license plate number, mobile app, or proximity tag
- Create dynamic pricing models to predict and adapt to real time demand
- Provide information to enforcement to show violation locations to streamline ticketing and optimize fielded enforcement agents
- Push Notifications to customers on parking availability



Intelligent Water

City Challenges

- Growing consumer and industry demands strain water supplies
- Inefficient management with finite resources



Solution Features

- Irrigate only when needed saves \$\$ and natural resources
- Monitor soil quality and introduce the right nutrients and the right time
- Better prediction of planting and harvesting times with the use of localized weather forecasts using the technology of The Weather Company
- Average increase in crop yields are over 20%

Intelligent Agriculture

City Challenges

- **Deficient Crop Nutrients**
- **Over or Under Irrigation**
- **Less Than Optimal Crop Yields Wasting Expense and Resources**

Solution Features

- Irrigate only when needed saves \$\$ and natural resources
- Monitor soil quality and introduce the right nutrients and the right time
- Better prediction of planting and harvesting times with the use of localized weather forecasts using the technology of The Weather Company
- Average increase in crop yields are over 20%



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