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DATA & the Real World

PRESENTED BY: JAMIE GILBERT, PE, PTOE



Annual Conference + Exhibit



Why Do We Care About DATA?

Top Data Management Issues

Data Systems

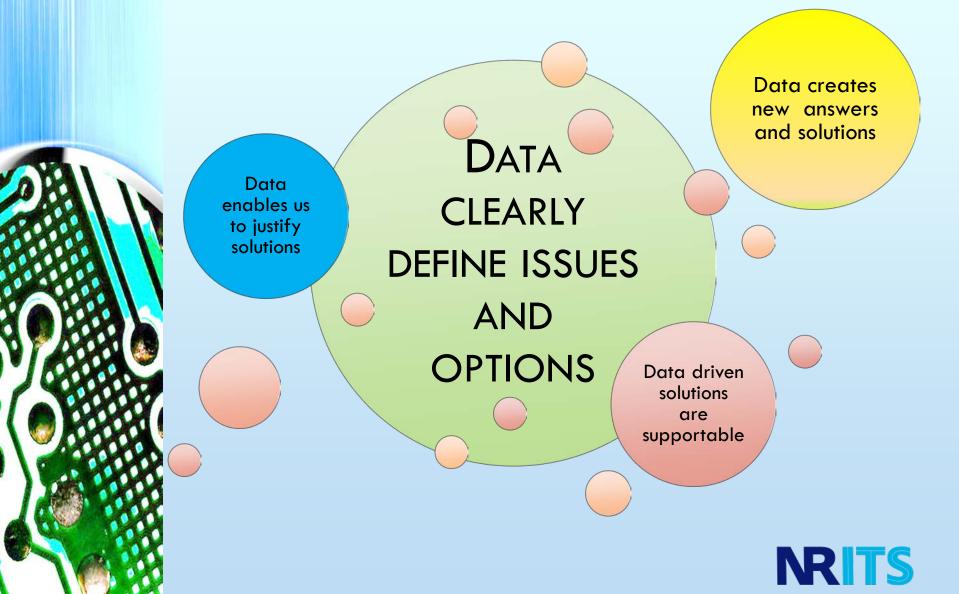
Real World Implications & Demands

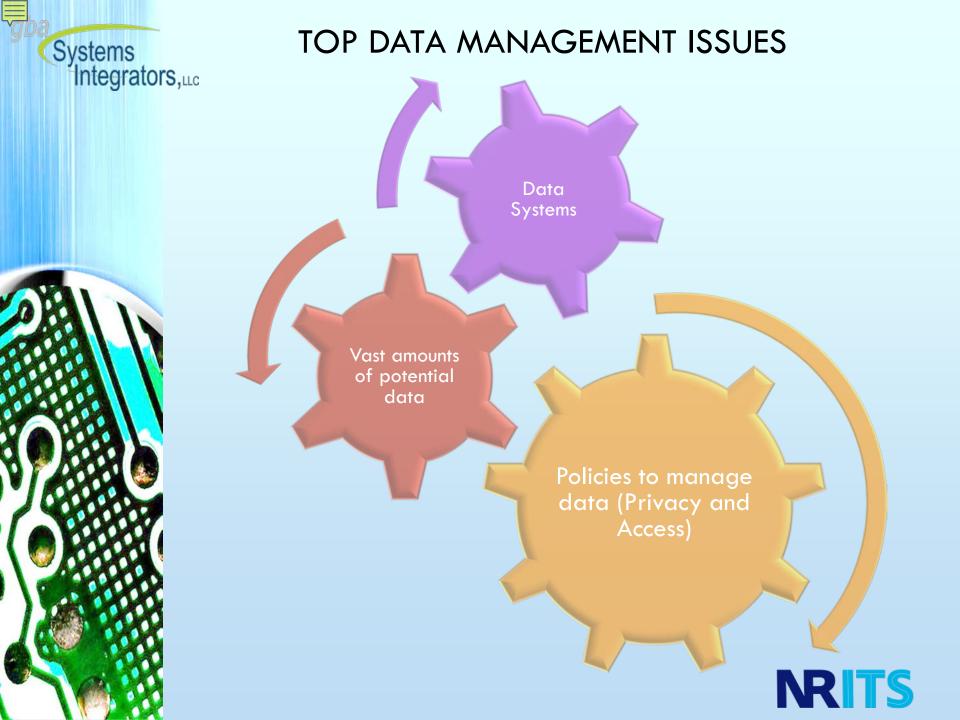
Wrap-Up



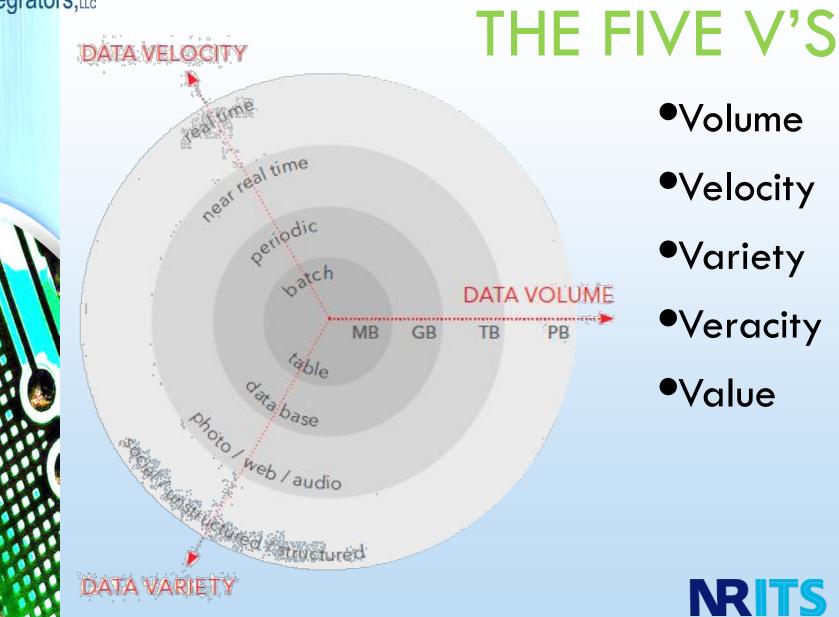
WHY DO WE CARE ABOUT DATA?

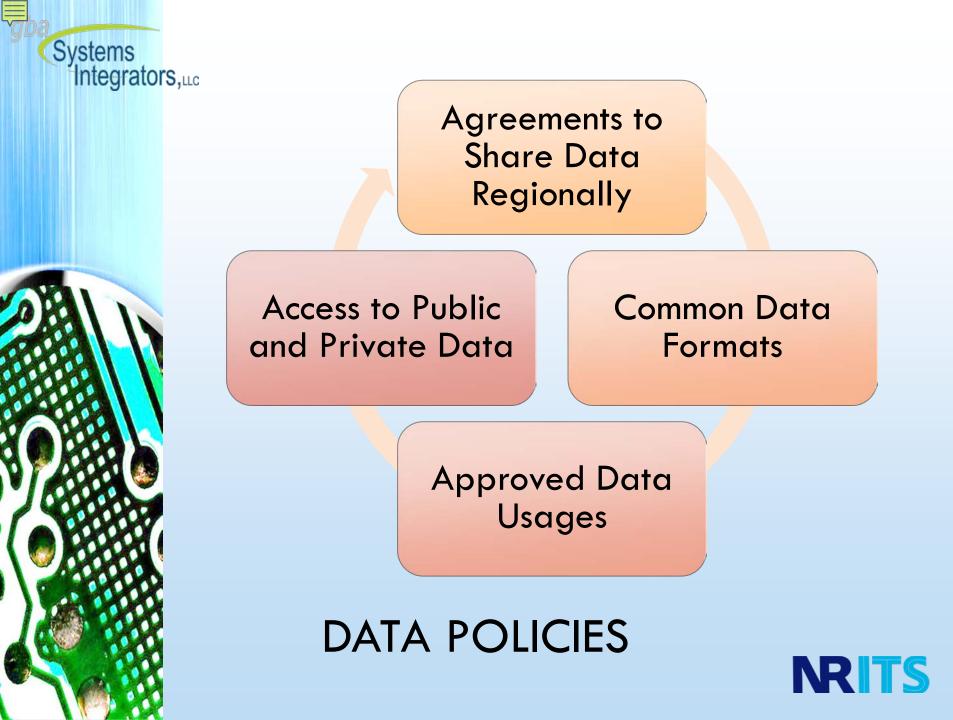




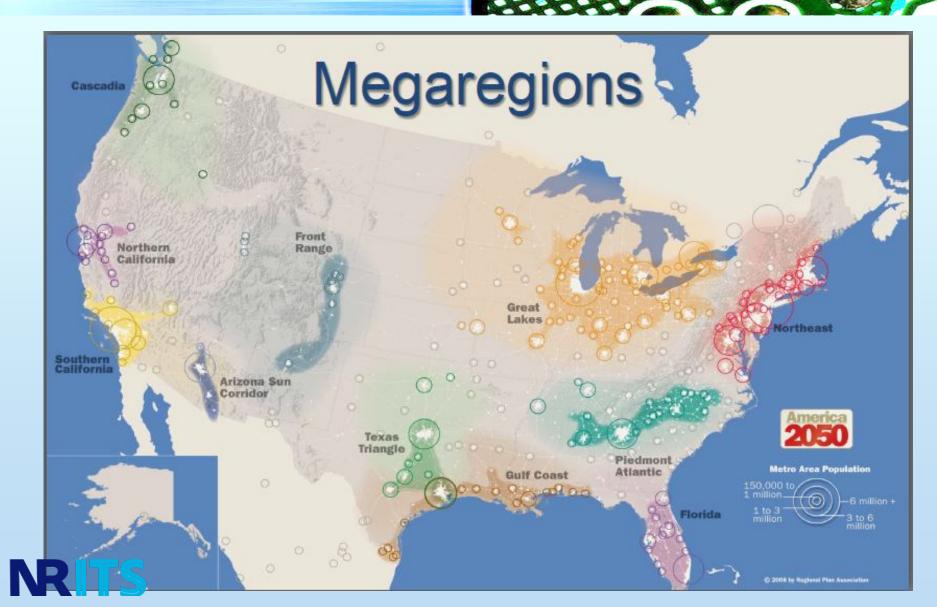


Systems Integrators,...c









Systems Integrators,... DATA SYSTEMS - COLLECTION Traditional

Sensors



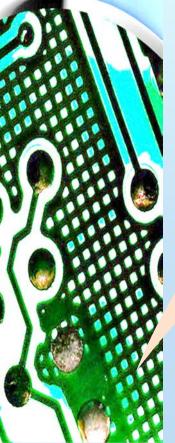
IOT / Edge Cameras Vehicle Based (CV/CAV) Wi-Fi / Bluetooth

Emerging Technologies Radar / Lidar





DATA SYSTEMS – TRANSPORT NETWORKS



Fiber Optic Cables

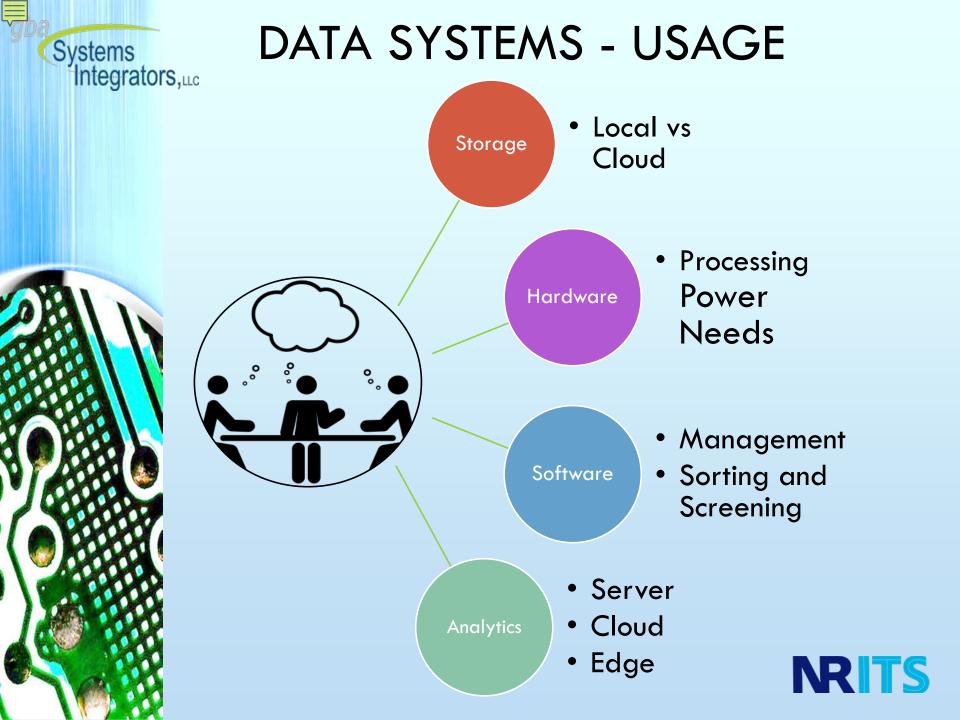
Twisted Copper Pairs

Wireless

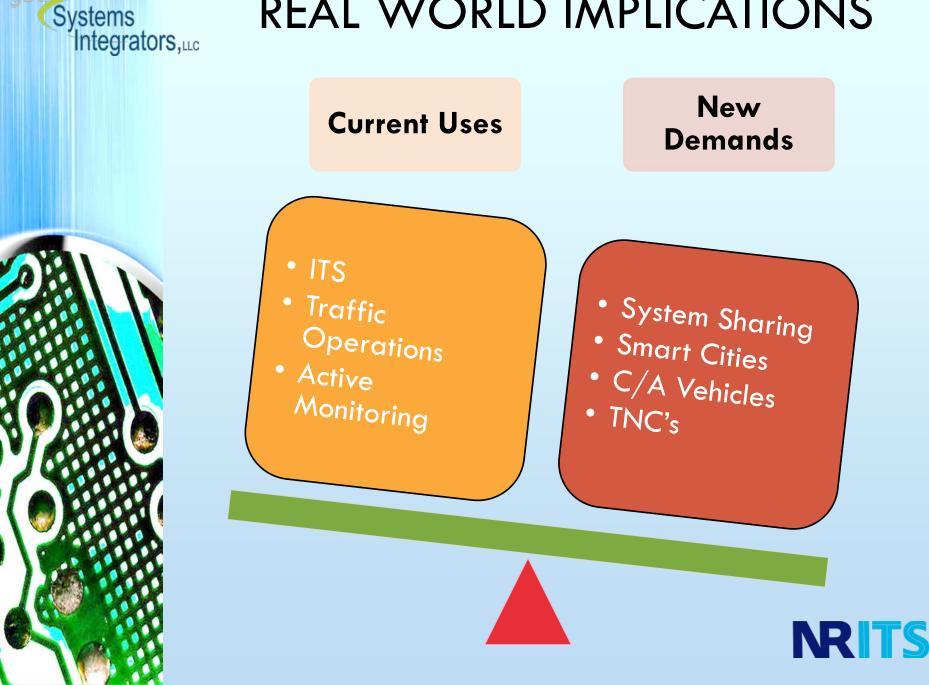
- Cellular
- Microwave
- Wi-Fi
- Bluetooth
- P2P Radios
- Satellite

Dedicated Short Range Radio (DSRC)

NRITS

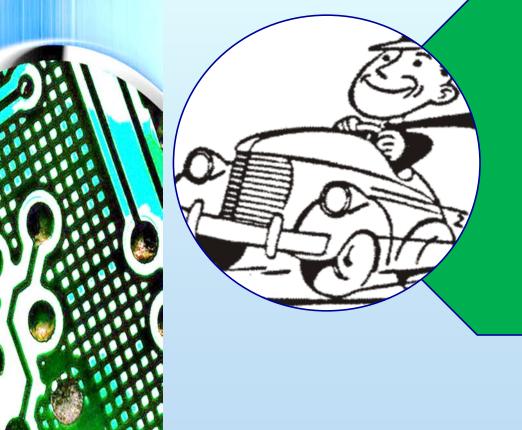


REAL WORLD IMPLICATIONS





NEW DEMANDS - SHARING THE TRANSPORTATION SYSTEM



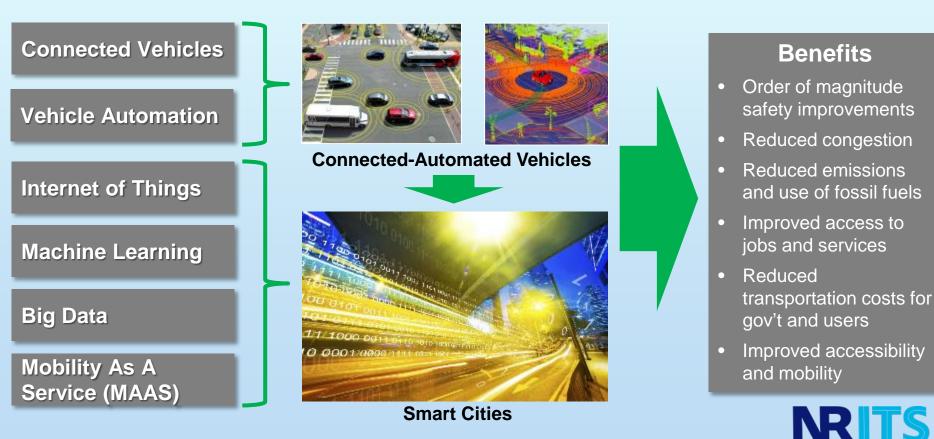
"Transportation Management Networks will provide the fundamental foundation communication layer for Data Sharing, V2X connections, and significant real-time traffic data acquisition and sharing" -USDOT







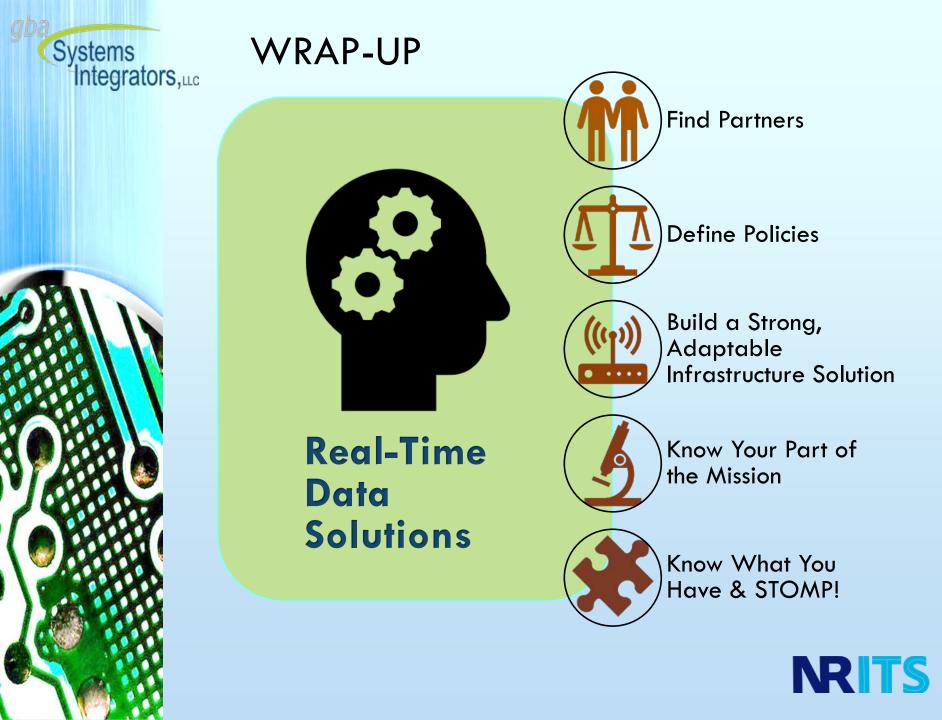
USDOT - Technology convergence will revolutionize transportation, dramatically improving safety and mobility while reducing costs and environmental impacts





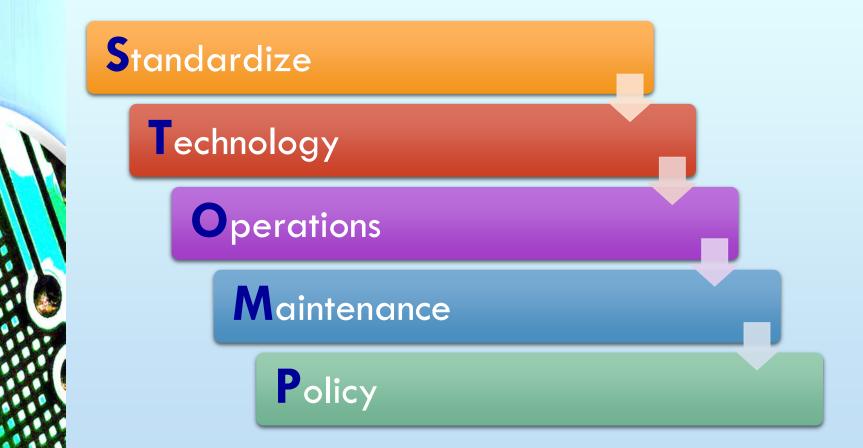
DATA ARCHITECTURE TEMPLATE

Centers Travelers Maintenance & Commercial Traffic Payment Administration Emergency Vehicle Construction Management Management Remote Administration Management Traveler Information Archived Support Fleet and Emissions Transit Service Data Freight Management Management Provider Management Management Personal Information Access Wide Area Wireless (Mobile) Communications Fixed Point - Fixed Point Communications Vehicle Roadway Vehicle Communications Communications Emergency Security Vehicle Monitoring Commercial Roadway Vehicle Payment Vehicle Transit Parking Vehicle -Vehicle 1 Management Field Maintenance & Commercial Construction Vehicle Vehicles Vehicle Field Check **NR TS**





STOMP YOUR NETWORK!









Want to know more?

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Network Architecture IT Coordination Wireless Systems Internet of Things (IOT) Security	Systems Infrastructure Asset Management Master Planning Innovation Modernization	gbaSI Integration Management & Operations Switches & Routers Programing IOT Edge Devices Install & Config	on Services Applied Tech C Traffic Operations Systems Engineering TSMO	Froup SMART Training IMSA Fiber Optics TSMO	
gba Syste Director o Phone: 97	Ibert, P.E., PTOE ems Integrators, LL f Operations 13-626-8148 Cell 13-577-8353 Office sbaSI.com		C/AV Analytics		TG

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