

Stan Schneider RTI CEO



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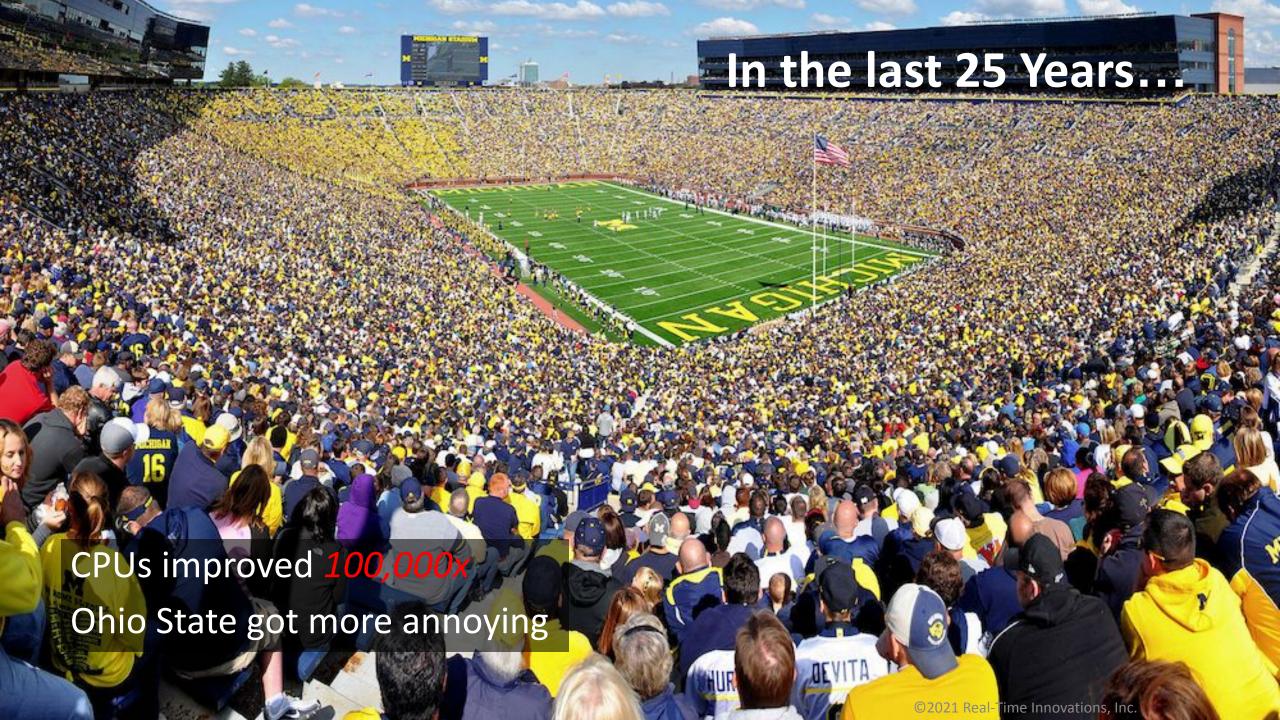
https://www.linkedin.co m/in/stan-schneider-102 466

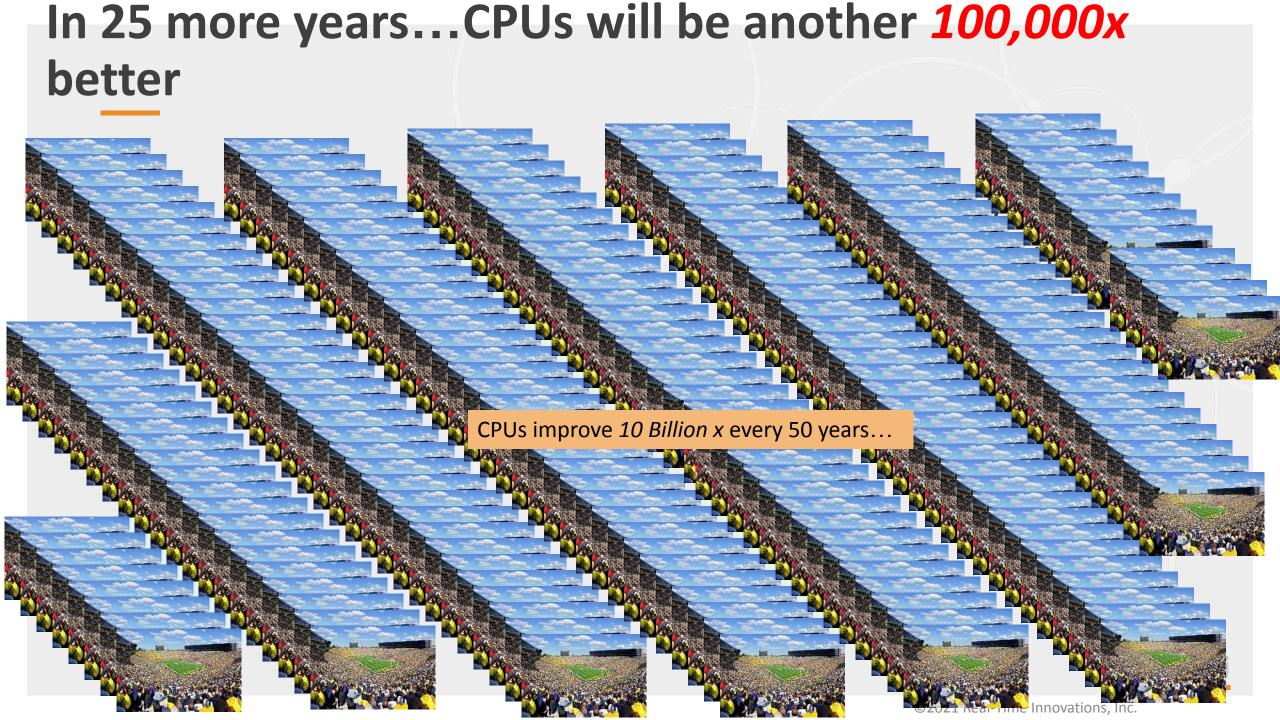




Stan Schneider, PhD

RTI CEO

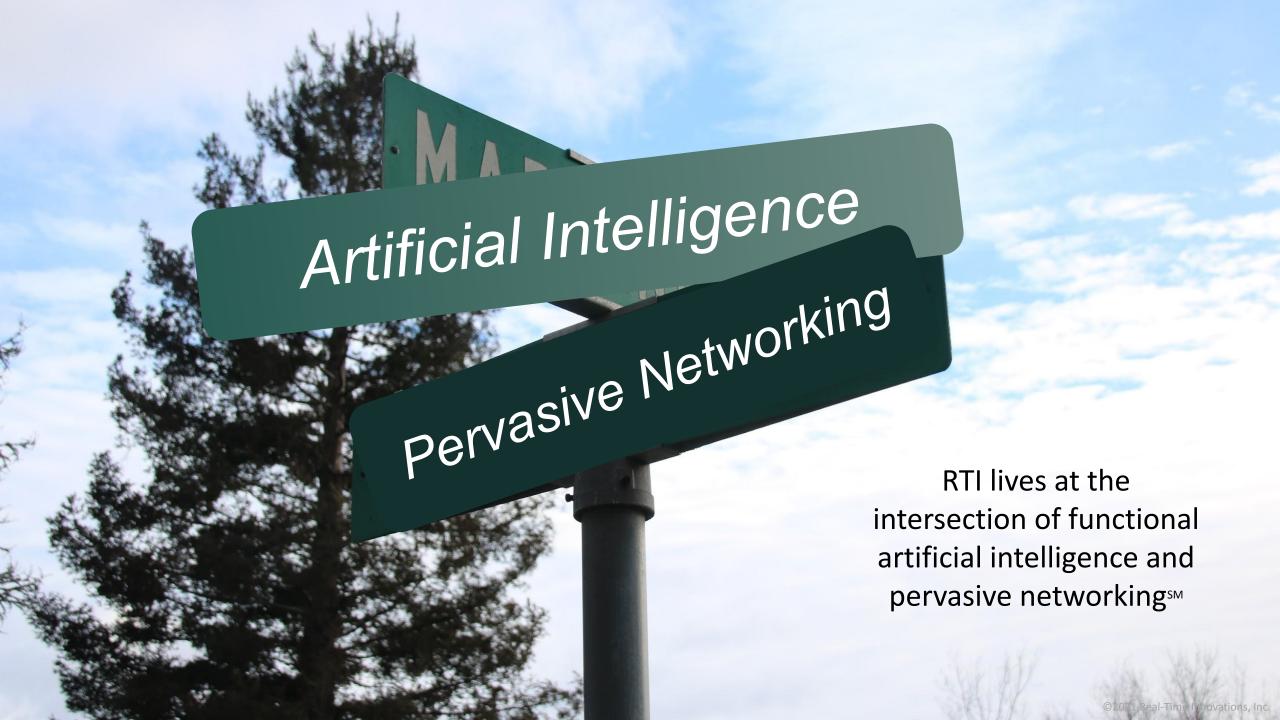








One software architecture will lead the change to intelligent distributed infrastructure



You Need RTI if You Face These Problems

• Are there severe consequences of failure for one minute?

• Have you said "millisecond" in the last 2 weeks?

• Do you have more than 10 software engineers?

• Does your data have many destinations?

• Are you building a smart real-world system?

3+ Yes?





Can RTI Lead this Transition?

#1 in autonomy

Real-Time Innovations (RTI) is the largest software framework company for autonomous systems. RTI Connext is the world's leading architecture for developing intelligent distributed systems. Uniquely, Connext shares data directly, connecting AI algorithms to real-time networks of devices to build autonomous systems.

#1 in intelligent distributed systems

Unique value proposition for autonomy

RTI is the best in the world at ensuring our customers' success in deploying production systems. With over 1,500 designs, RTI software runs over 250 autonomous vehicle programs, controls the largest power plants in North America, coordinates combat management on U.S. Navy ships, drives a new generation of medical robotics, enables flying cars, and provides 24/7 intelligence for hospital and emergency medicine. RTI runs a smarter world.

#1 in deployment

RTI is the leading vendor of products compliant with the Object Management Group® (OMG®) Data Distribution ServiceTM (DDS) standard. RTI is privately held and headquartered in Sunnyvale, California with regional offices in Colorado, Spain, and Singapore.

Contribution to a better world



RTI's Why: To Enable Smart Machines



By enabling a new generation of intelligent distributed systems, RTI boldly seeks to transform entire industries.

We particularly seek applications that promote a sustainable, safe, green, and healthy planet.

Capture The Prize

RTI will dominate the architecture software for intelligent distributed machines across verticals

RTI Runs a Smarter World

Autonomy Changes Everything

Transportation

- Autonomous vehicles
- Rail & mass transit
- Traffic control (ground & air)
- Urban Air Mobility

Energy

- Renewable generation (hydro, wind, solar)
- DER integration (future grid)
- Automated drilling & production

Medical

- Intelligent connected medical devices
- Imaging & treatment systems
- Surgical and diagnostic robotics

Defense

- Naval systems
- Open architecture integration
- Radar/antimissile/air defense
- Avionics & UAS
- Ground vehicles
- Simulation and training





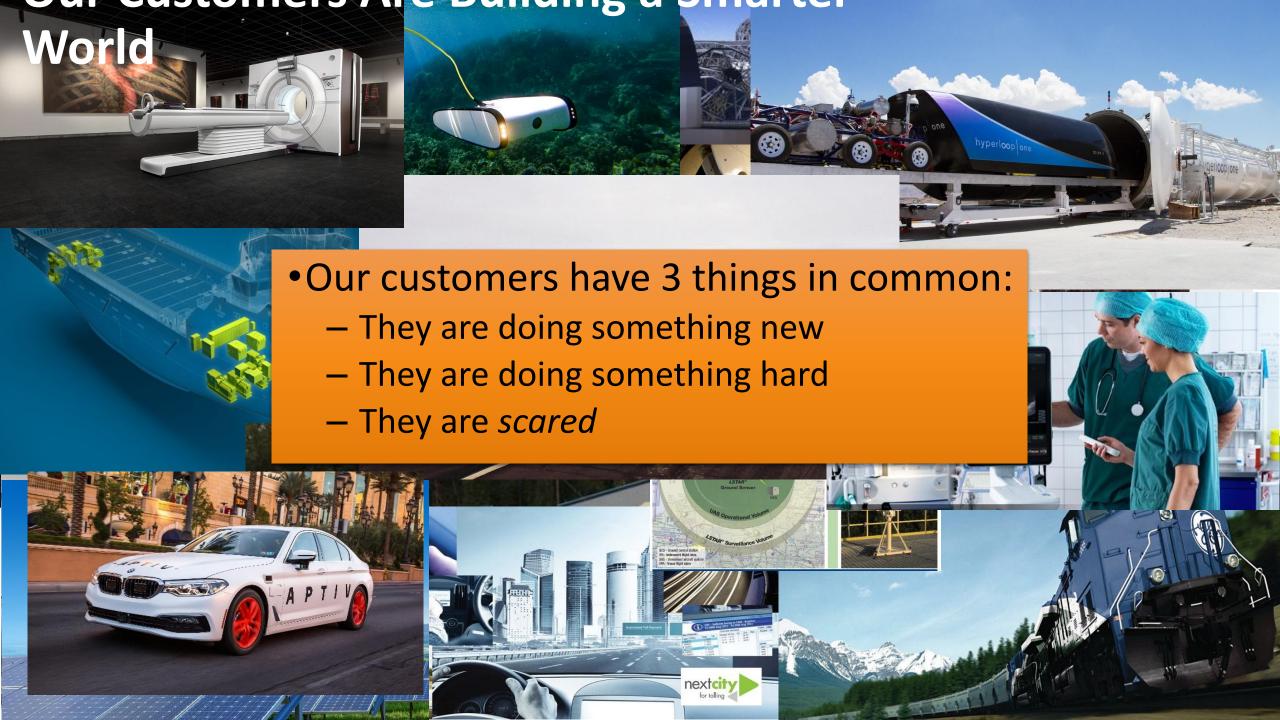


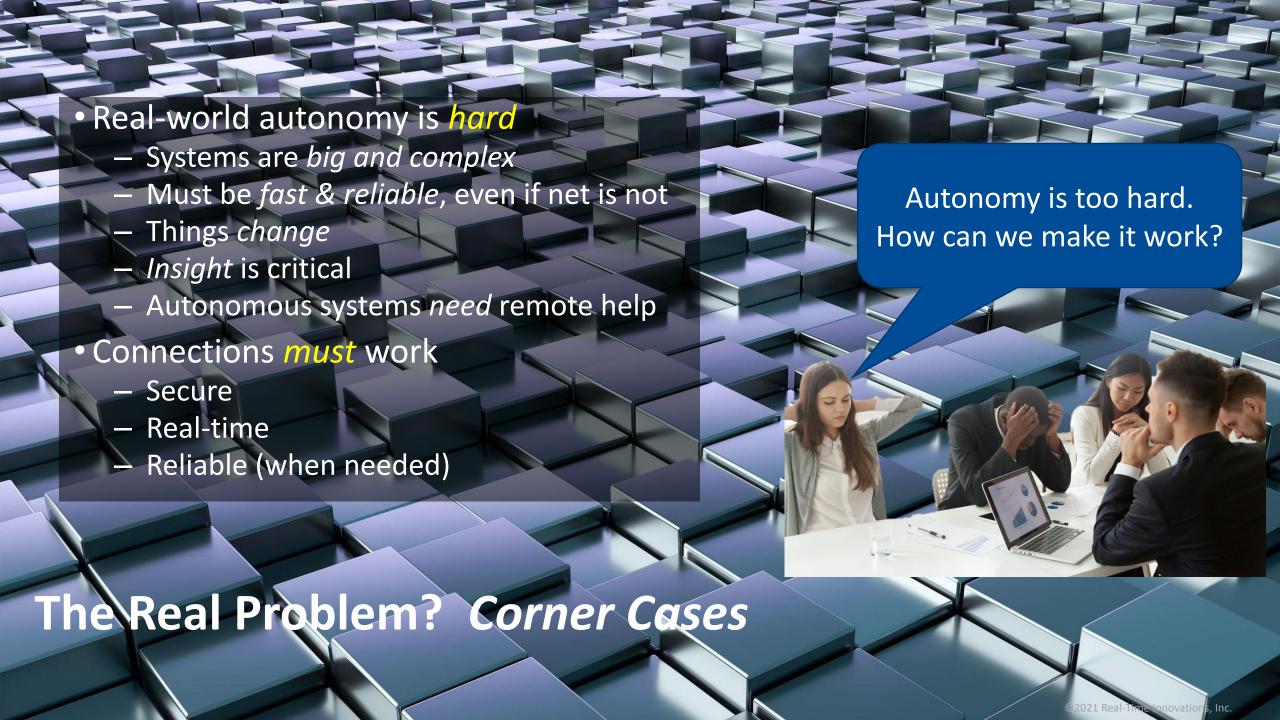










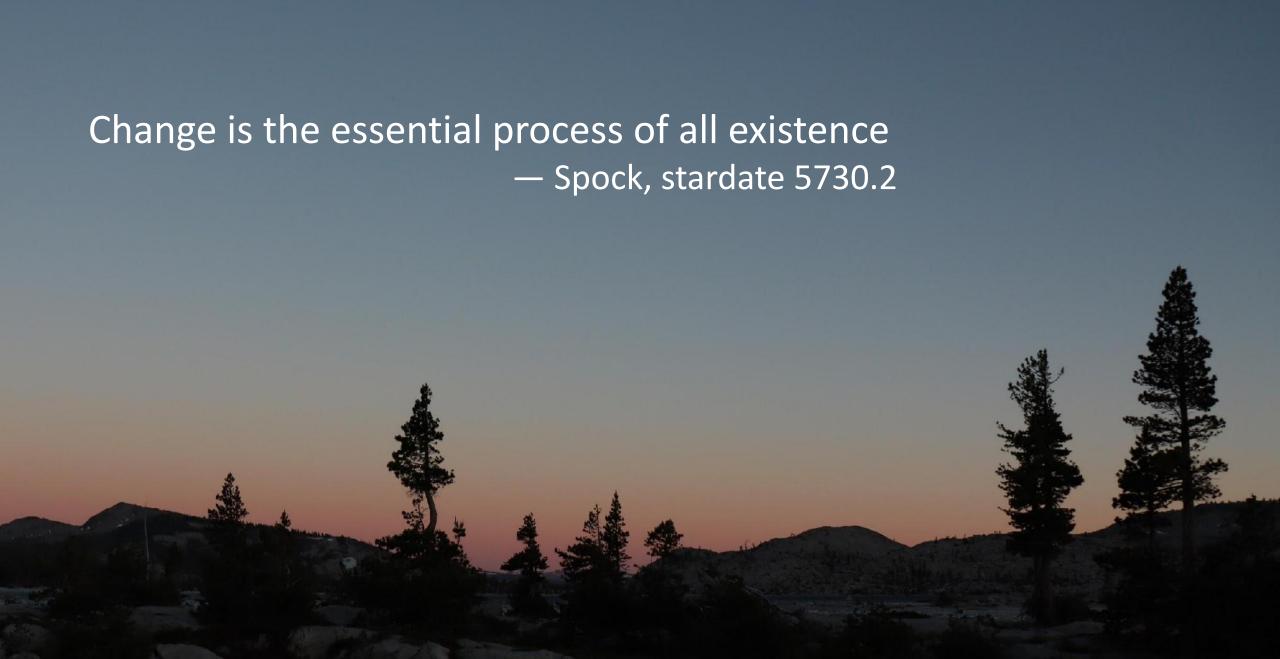




RTI's Pandemic

RTI excels at distributed software. And distributed teams...







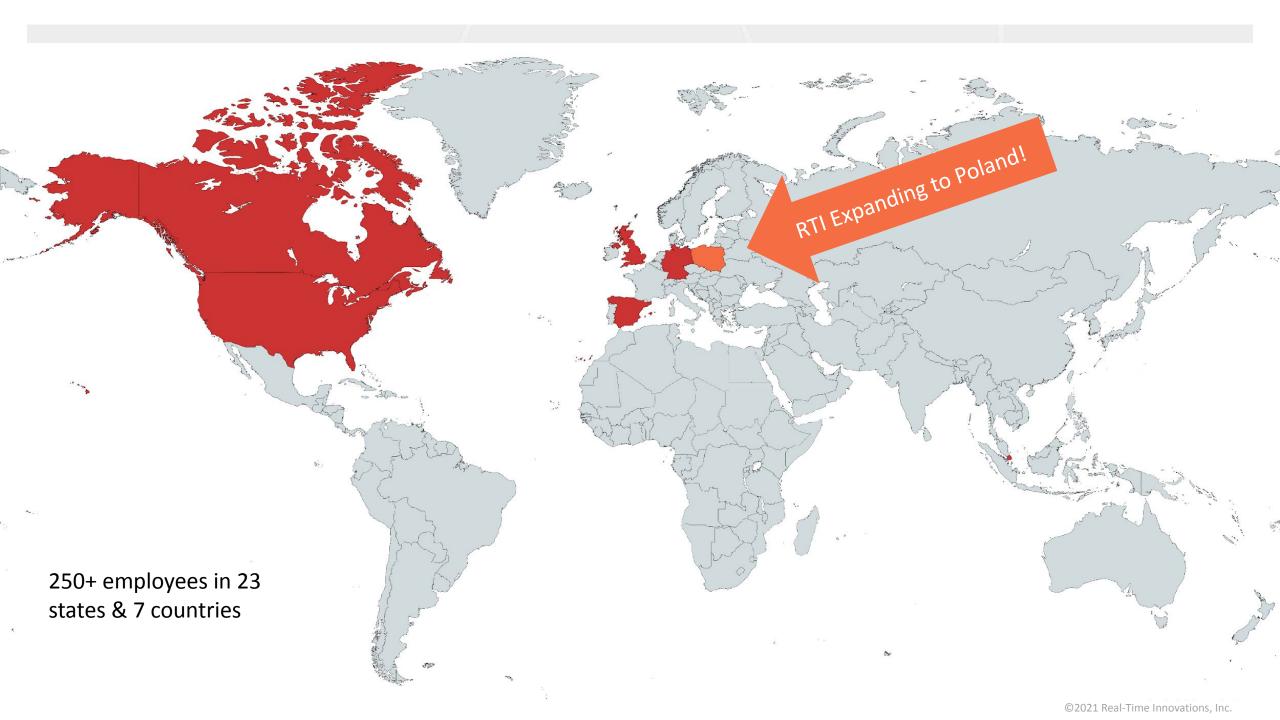
It's not finance, not strategy, not technology. Teamwork remains the ultimate competitive advantage, both because it is so powerful and so rare.

If you could get all the people in an organization rowing in the same direction, you could dominate any industry, in any market, against any competition, at any time.

Patrick Lencioni

(tl;dr: Teamwork)

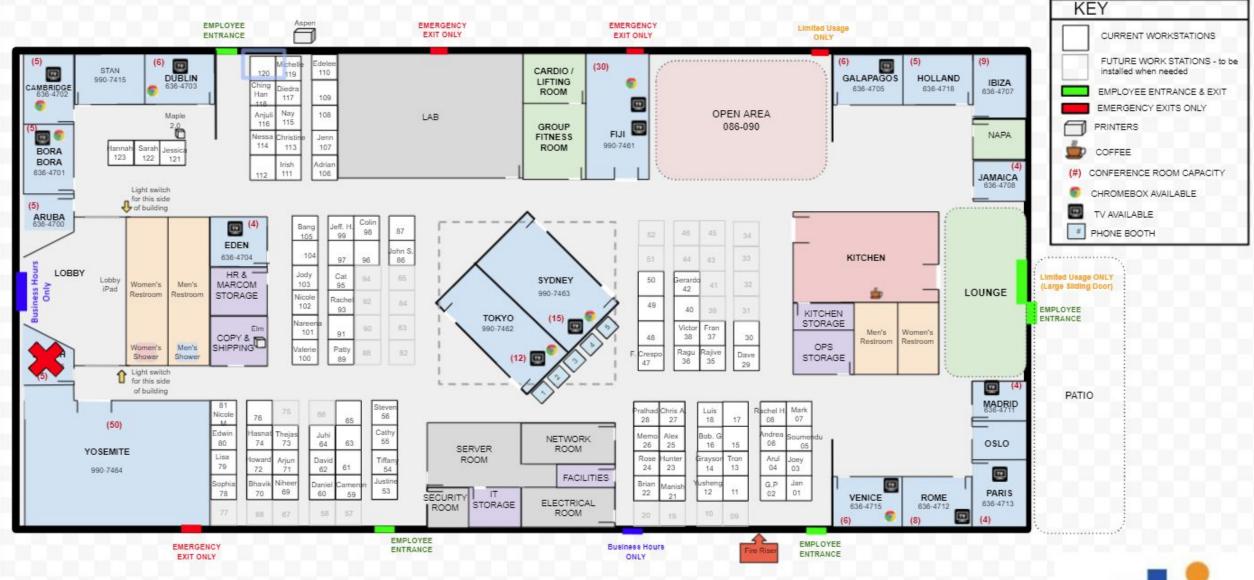




RTI HQ, Sunnyvale, CA



- Heart of Silicon Valley
- •35k square feet
- Conference facility for 250+



NOT TO SCALE

232 East Java Drive Sunnyvale, CA 94089

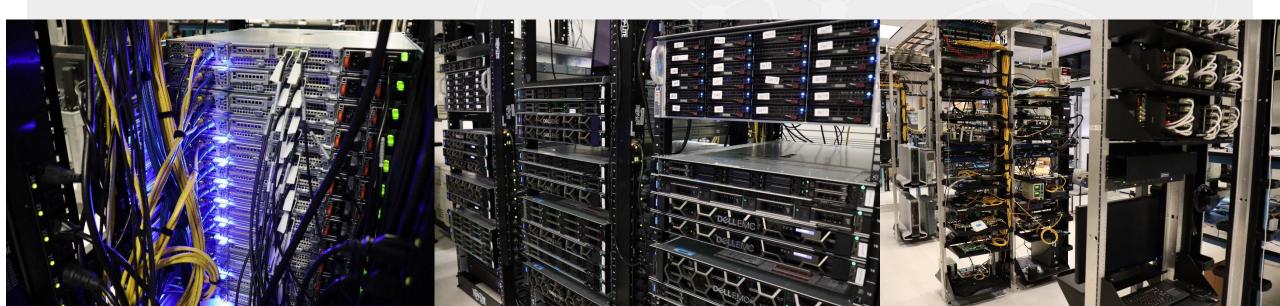




World's Largest IIoT Test Lab

- 51 equipment racks + 6 tables
 - 1200+ enterprise-class cores; many embedded cores
 - 1.25 PetaBytes of storage
 - 200+ embedded boards
 - Runs 1000s of VMs
 - 25+ operating systems
 - 12 network types
 - Satellite lab in Spain
- Full remote operation
- Deep software stacks
 - Docker, Kubernetes, Linux, MySQL, Postgres, MariaDB, SFS, NTP, TripleO,
 OpenStack, Nova, Zabbix, Rundeck, Ansible, phpIPAM, ArchDB, Snipe-IT,
 Bamboo, OpenLava, Booked, GlusterFS, Ceph, Jenkins, Bitbucket, Artifactory





Denver Office

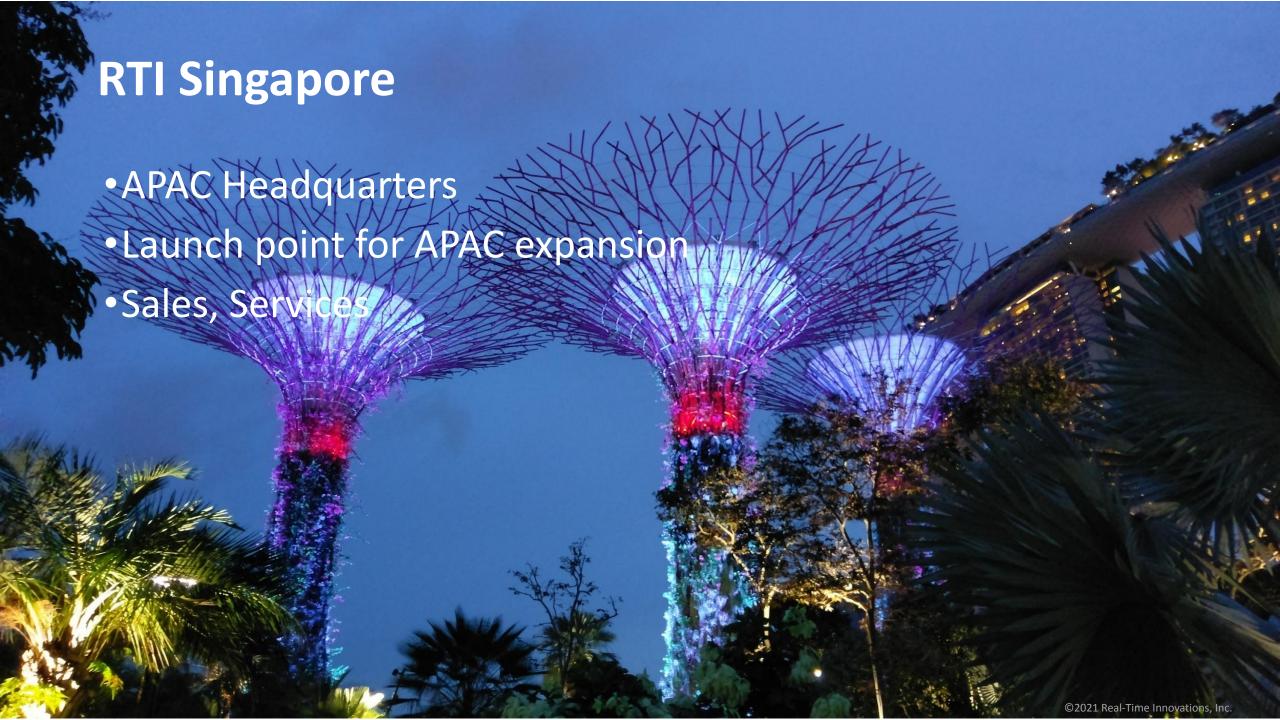
- 3900 E Mexico Avenue
 - ☐ 4th Floor
 - □ 9,667 SF
 - ☐ 56 Workstations
 - ☐ 12 Conference Rooms
 - ☐ 4 Phone Booths
 - ☐ Large Kitchen
- Just opened...already >20 people

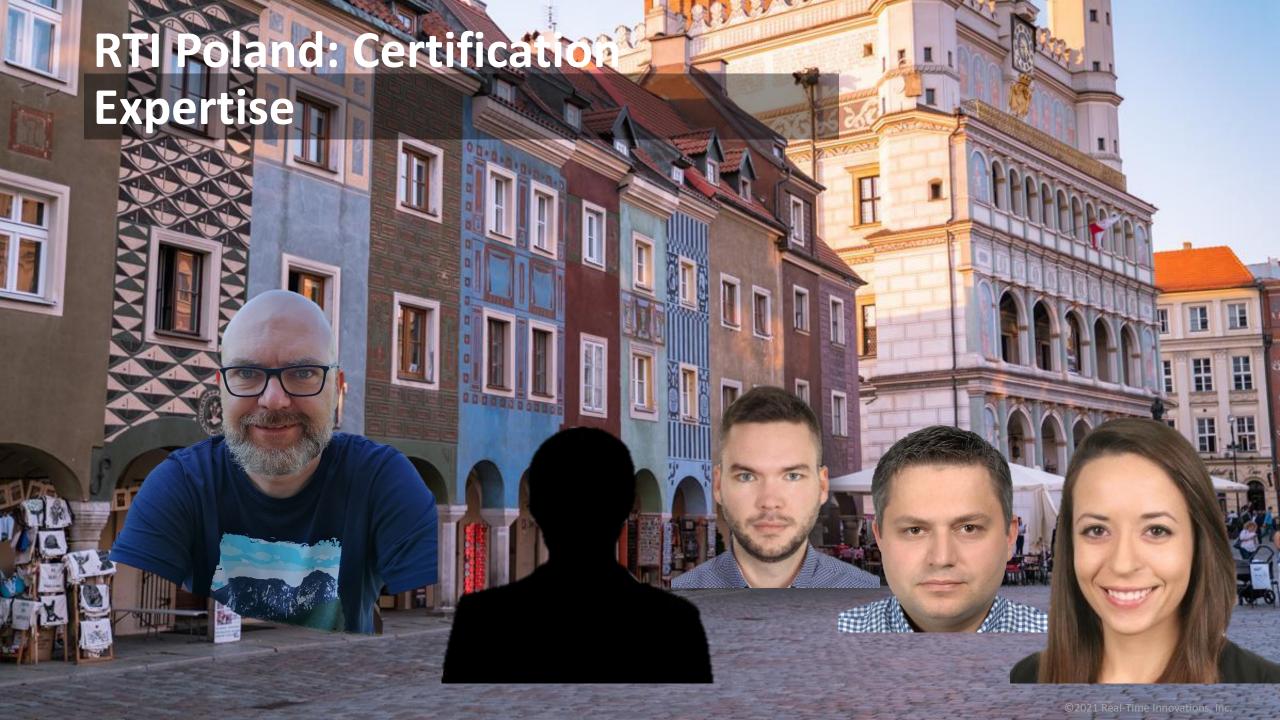












What's Next? RTI will Lead the Future of Work



The Office as

A Place to Work with Incidental Interaction



The Office as

A Place to *Interact* with Incidental Work



RTI's Work Future

- Live where you like; work when and where you like
- Team Weeks: Rather than "days/week" for only locals... "weeks/year" for all
- Exciting and lively interaction at attractive destinations!



Great Place Work®

Certified

MAR 2021-MAR 2022

USA

TM

Great Place **Mork**®

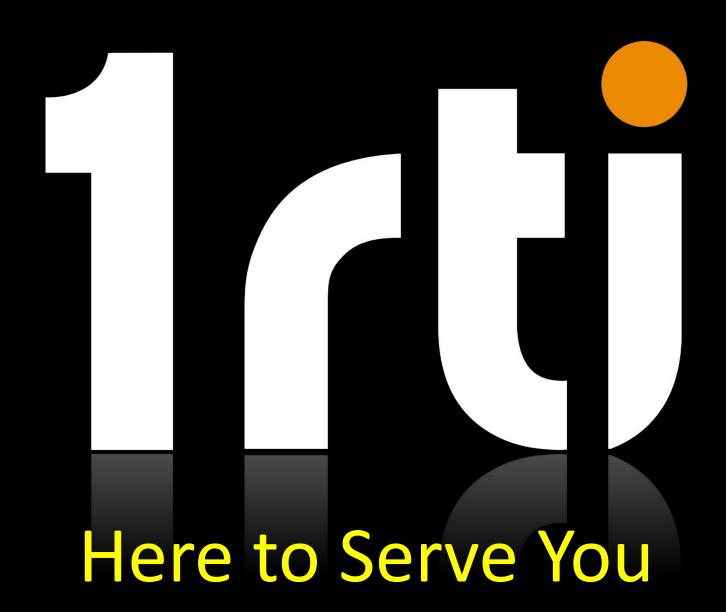
Certified

MAR 2021-MAR 2022

ESP







What is RTI's Product?



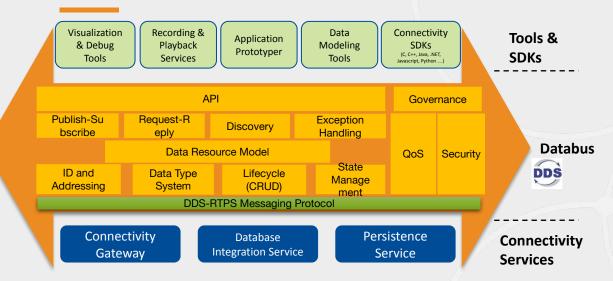
A plane *has* engines



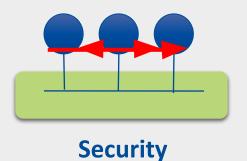




RTI Connext has a DDS



Databus





Tools











Console

Monitor

Code Generator

System Designer

Shapes Demo

Wireshark











Micro App Generator

DDS Spy

Heap **Analyzer**

Launcher

LabVIEW Toolkit

Services







Service

Persistence



Queuing Service

Web

Integration Service



RTI is Far More than DDS

- •RTI Connext has a DDS. It is not a DDS.
 - We don't really compete with FastDDS,
 Cyclone, OpenDDS
- •DDS is only 10% of what we do
 - Tech: tools, IS, platforms, cert
 - Quality: testing, lab, performance
 - Local: support, services, sales
 - Culture: trustworthy, responsive, excellent



RTI Connext



Introducing



The First Software Framework for Widely Distributed Autonomous Systems

Connect Widely Distributed Systems

Real-Time WAN | Discovery | Data Compression

Broader

CONNEXT



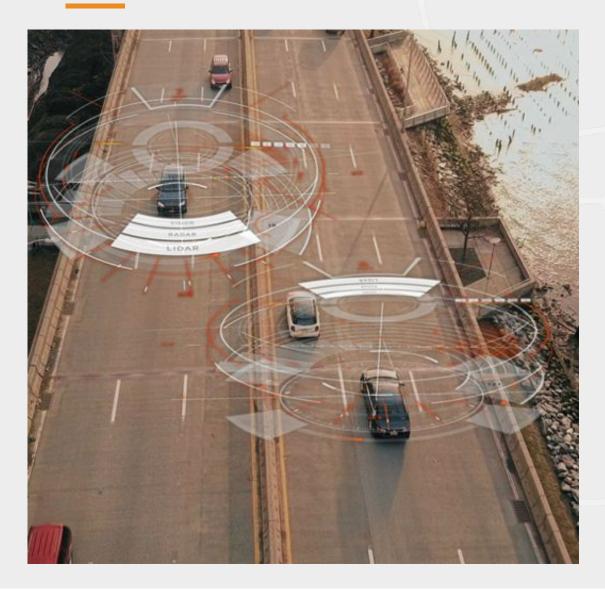
Unite More Applications Platforms | Languages

Increase Developer Productivity

Observability | Enhanced Documentation | Configuration

Better

Introducing Connext Anywhere



WAN Connectivity

to remote endpoints

that is seamless

scalable and

secure



Connext Anywhere

- First software framework to support real-time communication over wide area, mobile and public networks
- Enables remote operation of autonomous systems

Connext Secure

- + Real-Time WAN
 Transport
- + Cloud Discovery ServiceConnext Anywhere



Connext Anywhere Lets RTI Take On Bigger Things

- Operators farther from the loop
- Analytics & decision support
- Everything as a Service (XaaS)



More language options to choose from





New modernized multi-platform .NET API



C++11 improvements









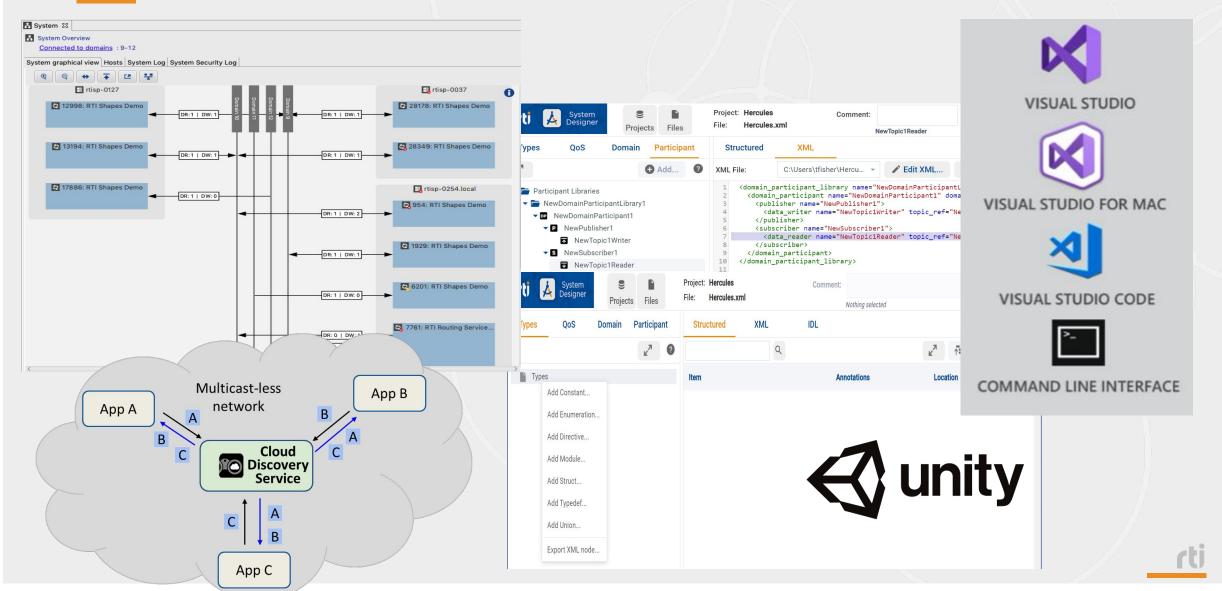
Ada







With Broader Use and Better Understanding



4 NEW RTI Labs!



New Labs Products:

OPC UA Gateway



Connext Gateway



Connext Nano



OpenSSL CNG Engine



Graduated Labs Products:





Cloud Discovery Service





RTI Connext Drive

Connext Drive



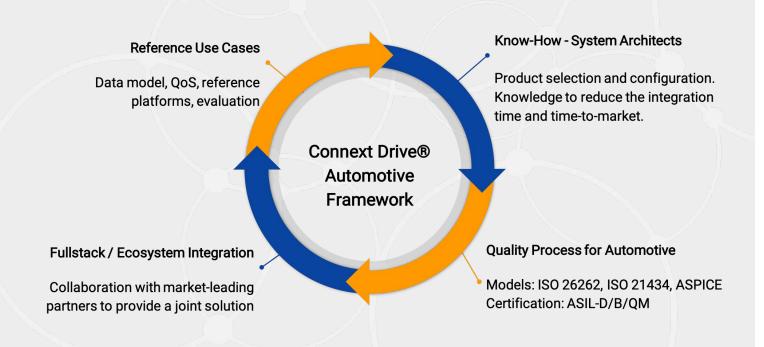


Connext Drive is a Solution

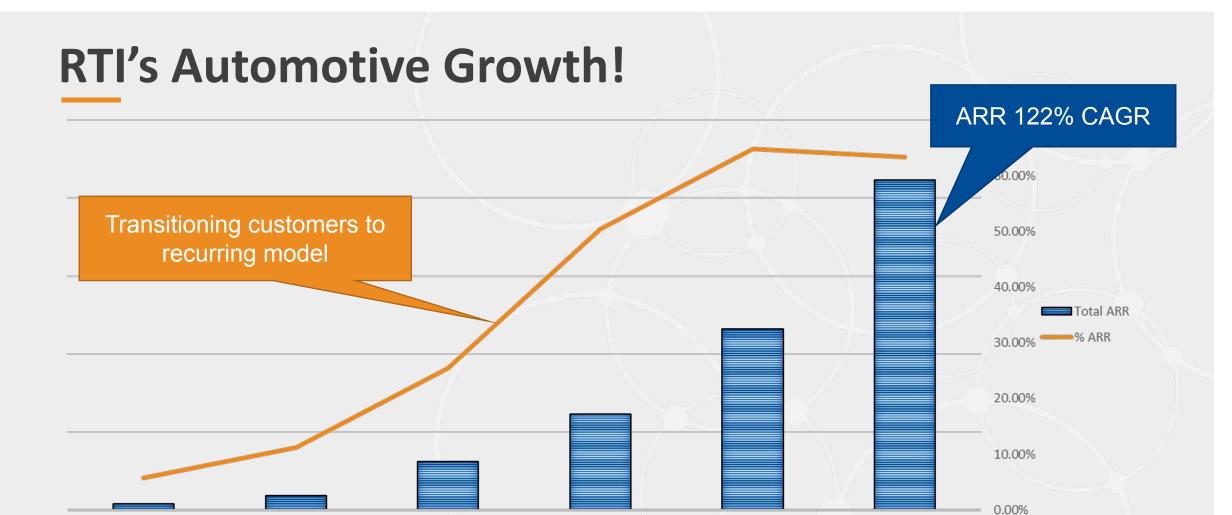
The First Complete Automotive-Grade Connectivity Solution for Autonomous Vehicle Development

Connext Drive is:

- Product
- Services
- A Pricing Model
- Industry Use Cases
- A Process to Engage Customers
- An automotive-specific license







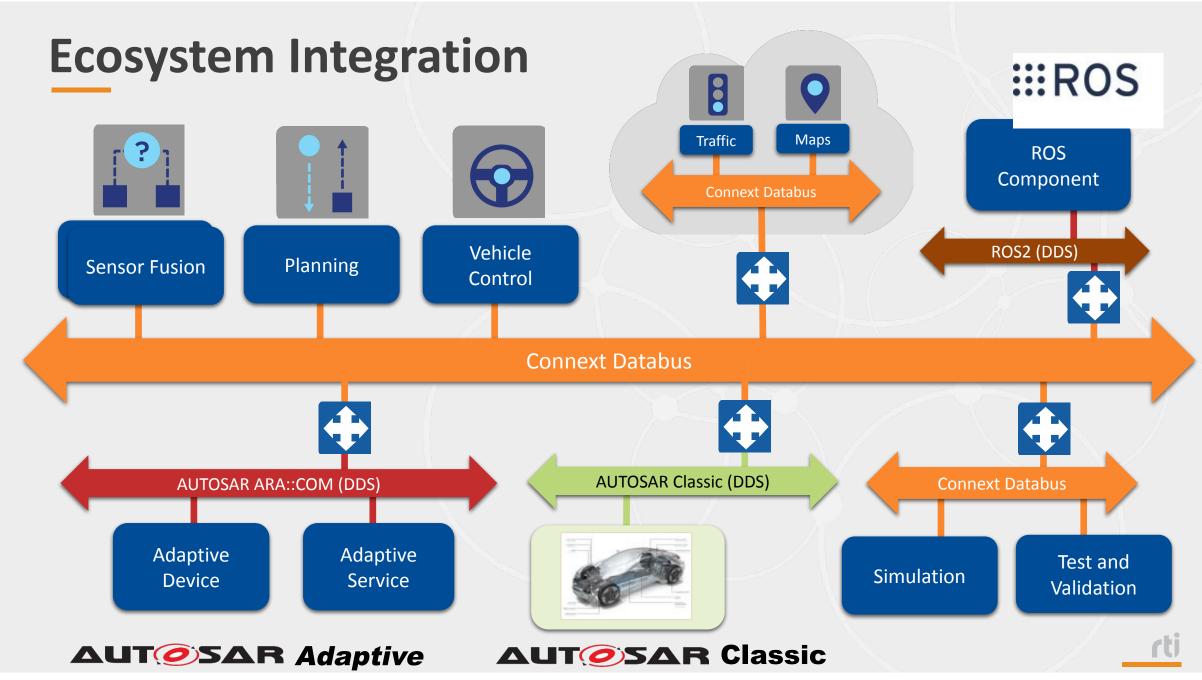
Growing very quickly, faster than expected

Thanks to the 1RTI cast: Automotive Tiger Team, Micro & Cert teams, Account teams, Legal, Finance, IT, Ops support, AUTOSAR team, Marketing, and many more...









Growing Partner Ecosystem

Operating Systems and Computing Platforms





































Tools and Technology Integration



































Security







Safety and Certification



RTI Services Delivery Partners

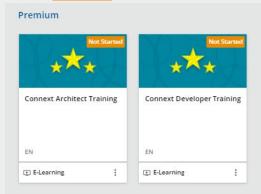




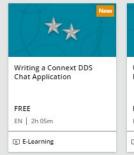


CTI ACADEMY

RTI Academy



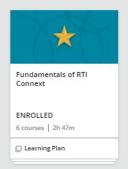
Essential







Basic



- Connext Developer & Architect
 Training
- Understanding Connext DDS Secure and Micro
- Over 10 hours of Connext product training





40 Xclerators Now Available!!...







Returning to Physical Events!





U.S. Army FACE
Technical Interchange
Meeting (TIM) Event

Aerospace & Defense



Aerospace & Defense

Air Missile Defence Technology Event

November 17-18

Aerospace & Defense

Modeling,
Simulation
& Training





Automotive



Industry Insights!

EMEA/APAC - October 19 & 20

- Dr.-Ing. Thomas Krueger, European Space Agency (ESA).
- Li Mu, Software Architect, Li Auto
- Rune Volden, Head of Dept ICT and Natural Science, NTNU
- Dr. Eyal Yoskovitz, our VP Products, 634AI

VIRTUAL

Connext® 2021

US/Americas - October 26 & 27

- Ryan Darnley, Engineer II, Carnegie Mellon University
- Richmund Fries, VP Technology, DocBox, Inc.
- Jac Stofberg, Principal Software Engineer,
 Schilling Robotics
- David Fidalgo, Founder & CEO @
 Y-Mobility / VP & Founder @ AEVAC –
 Spanish AV Vehicle Association



Early Applications Adopting RTI Connext DDS

Transportation

- Autonomous vehicles
- Rail & mass transit
- Traffic control (ground & air)
- **Urban Air Mobility**

Energy

- Renewable generation (hydro, wind, solar)
- DER integration (future grid)
- Automated drilling & production

Medical

- Intelligent connected medical devices
- Imaging & treatment systems
- Surgical and diagnostic robotics

Defense

- Naval systems
- Open architecture integration
- Radar/antimissile/air lefor ConnextCon 2021
- **Avionics & UAS**
- Ground vehicles

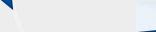
ConnextCon 2021















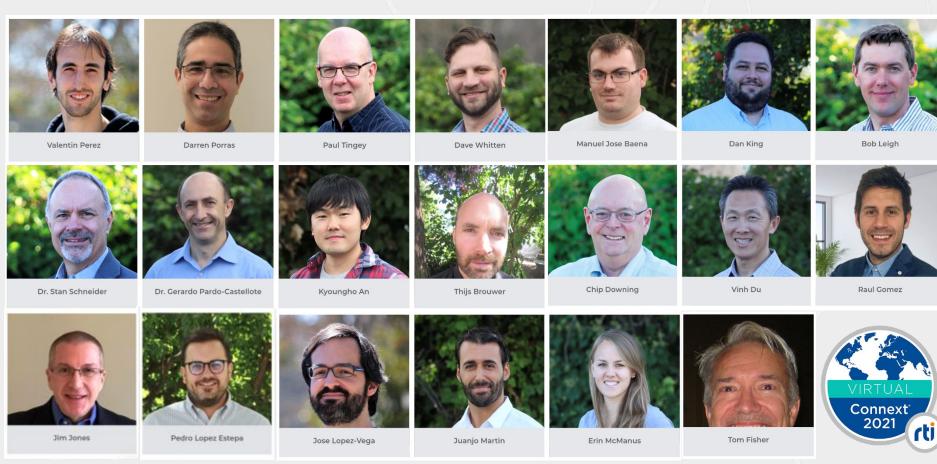




RTI Staff

Pics of presenters and support staff, esp thanking event organizers.

RTI Experts:



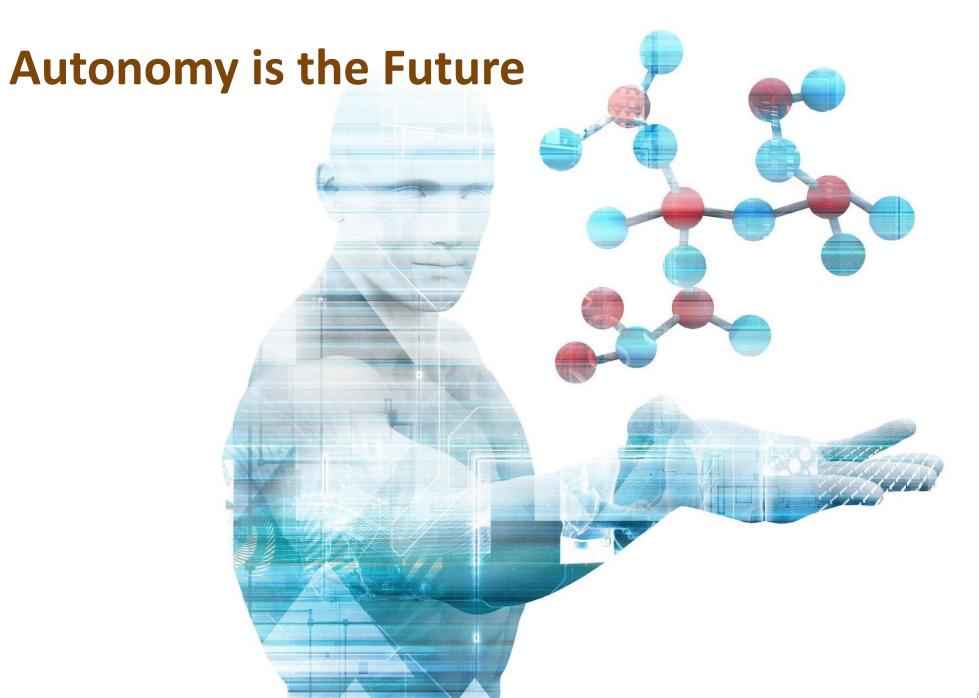
Event Organizers:







1RTI effort: P&M, Engineering, Services, CTO, Marketing, IT





Runs a Smarter World

Stay Connected



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Free trial of Connext DDS



rtisoftware



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connextpodcast



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