Realizing the Promise of Autonomy, Together

Stan Schneider
CEO
The smart machine era will be the most disruptive in history
—Gartner
Why?
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.
Why is RTI?

• RTI enables the intelligent future
• RTI is the #1 software framework for smart machines and real-world systems
Make Renewables Reliable

RTI runs the largest hydropower plants in North America, soon expanding to 75 dams.

RTI is a principal in the leading new grid standard for solar and battery integration.

RTI controls >24GW of renewable power, displacing 124m metric tons of CO2/year.

RTI controls Siemens Wind Power’s most advanced wind turbines, thousands deployed worldwide.
Lead Connected Healthcare
Support Hundreds of A&D Programs
Control Transportation: Land, Sea, Air, & Space
200+ RTI Autonomous Vehicle Programs

50+ commercial systems
- 10+ Passenger vehicles
- 10+ EV startups
- 5+ Software platforms
- 8+ Trucks, mining vehicles, forklifts
- 2 Flying taxi services
- 2 Hyperloop & other
- 2+ Autonomous ships
- 2+ Underwater robots

100+ defense systems (land, sea, air)

75+ research programs
(companies, universities, etc.)
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 next-gen smart machine or real-world system?

3+ Yes?
How?
You can’t build a culture in pieces, any more than you can water a parking lot and call it a rainforest. Like our slogan, it has to Work as One.
Start with Values that Capture Core Beliefs

• Reciprocal responsibility to realize potential
• Overwhelming value for customers
• Absolute honesty
• Open communications
• Excellence
• Think we not I
• Value & reward hard work
• Enjoy the journey

If you were responsible for a $2b system, which company would you trust?

*Be that company.*
Build a Product that Matters

- Design the system around the data
- Logically put all data “inside” every application
- Full control over timing, reliability, filtering, security

"Data Everywhere" Sharing

"Data Any Place/Time/Flow" Decoupling

Your Systems. Working as One.

Uncompromising Product
Give People What They Really Want

Do Well
Do Good
Meet Challenge
Be a Team
Change the *Way Things Are*

Realize Employee Potential
Build and Trust Employees

Stars Care
Excellence is a Team Culture
Our customers have 3 things in common:
- They are doing something new
- They are doing something hard
- They are scared
Ease Integration
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What?
RTI lives at the intersection of functional artificial intelligence and pervasive networking℠
How much will computers improve in 40 years?

\[ 2^{(40/1.5)} = 100,000,000x \]
The Design Factors: CPU & Connectivity

**Pardo’s Law**

System value = CPU * N²
Historians will look back at our time and wonder how we got by without smart things.
Is AI Good or Evil?
Getting There is Dangerous and Slow

We have an *obligation* to automate driving...
Facilitate Sustainable Salmon Farming
“the most exciting thing I have seen since the dinosaurs”
AMAZON’S NEW ELECTRIC VANS START HITTING THE ROAD IN 2021.
The Importance of Monitoring
Hospitals are dynamic
Hospital Networks Are Growing
The autonomous future will be cleaner, healthier, more efficient, and safer.

You don’t compete against competitors. You compete against market transitions.

—John Chambers

RTI Helps AI Build a Better Smart Machine World

Profound!
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 defense
  - Avionics & UAS
  - Ground vehicles

- **Simulation and training**
Industry Insights!

US/Americas – October 26 & 27

Guest Presenters:
• Keynote: Stuart Kozlick (RTI Advisor - Medical)
• Matt Grubis (GE Healthcare)
• Kiran Bharwani (Rivian)
• Craig Clark (Kratos)

EMEA/APAC – October 28 & 29

Guest Presenters:
• Keynote: KT Neumann (RTI Advisor - AVs)
• Sylvain Chagué (Dreamscape)
• Nigel Jones (LMCO – UK)
• Stephan Sandberg (Veoneer)
• David Hills (Daronmont)
Partner Booths!

Partner Companies:
- AdaCore
- DDC-I
- ENSCO
- ITTIA
- LYNX
- MathWorks
- Mentor
- MOCANA
- #SoCe
- SYSGO
- United Electronic Industries
- Wittenstein
Enjoy the Journey