

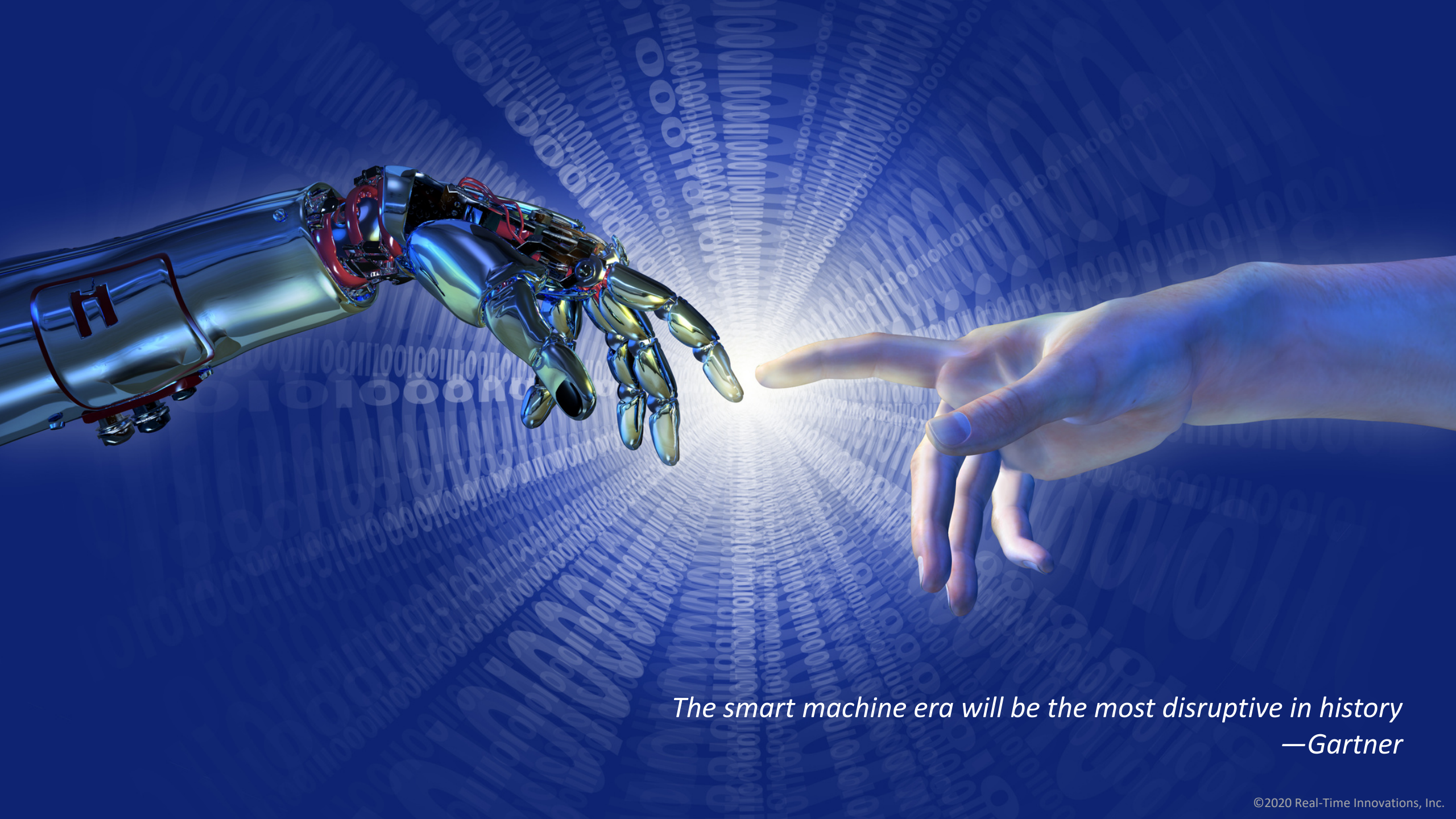


Realizing the Promise of Autonomy, *Together*

Stan Schneider

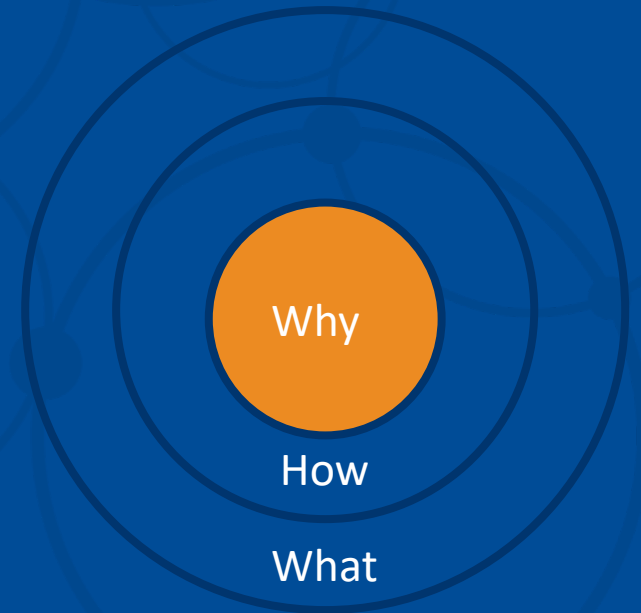
CEO





The smart machine era will be the most disruptive in history
—Gartner

Why?



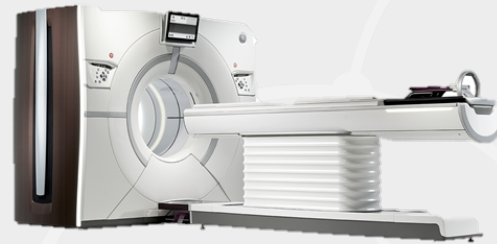
Why: To Enable Smart Machines



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.



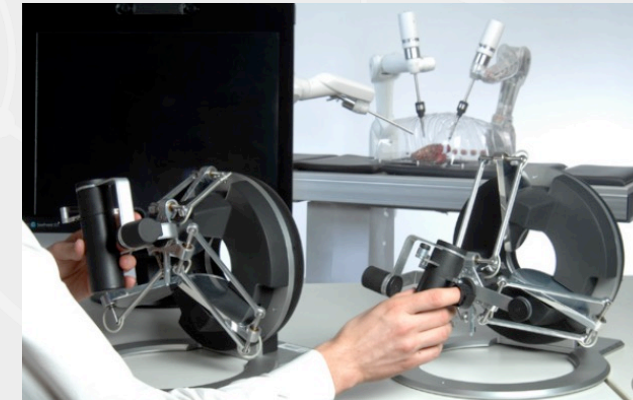
RTI is a principal in the leading new grid standard for solar and battery integration.



RTI controls Siemens Wind Power's most advanced wind turbines, thousands deployed worldwide.

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

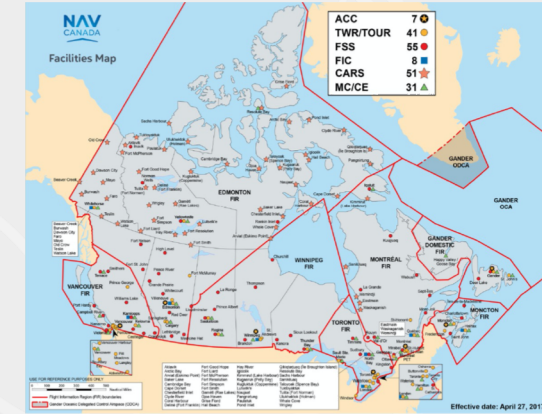
Lead Connected Healthcare



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.)



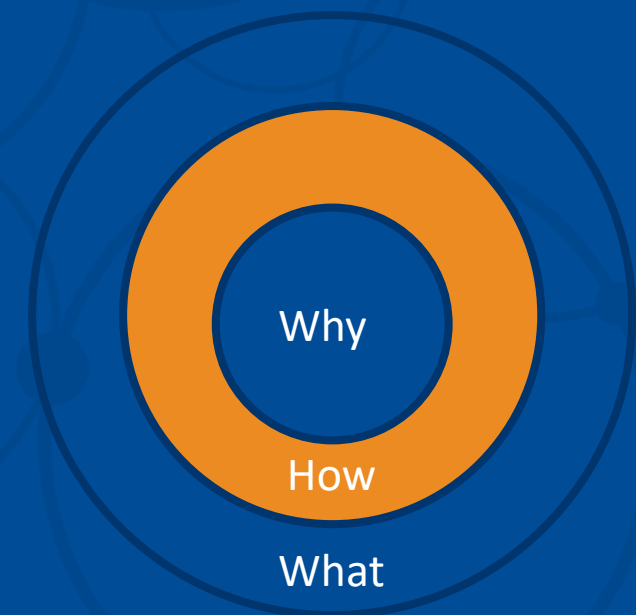
You Need RTI if You Face These Problems


- ✓ • 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?



A lush, dense tropical rainforest scene. Sunlight filters through the thick canopy of green leaves and branches, creating a dappled light effect. A prominent palm frond is visible in the lower right foreground, and a tree trunk with light-colored bark is on the right side. The overall atmosphere is serene and natural.

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

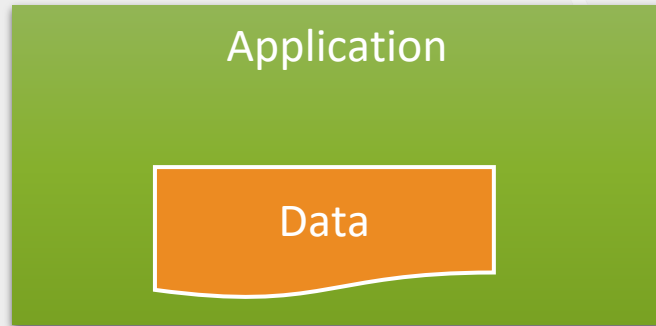
If you were responsible for a \$2b system,
which company would you trust?

Be that company.

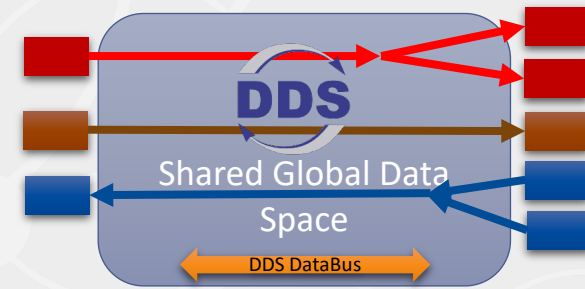
Uncompromising Ethics

rti

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

The background of the slide is a deep space image featuring two large, interacting galaxies. The galaxy on the left is a bright, yellowish-white spiral with a prominent central core. The galaxy on the right is a more diffuse, reddish-brown spiral. They are surrounded by a vast field of distant stars, some of which appear as bright, multi-pointed starbursts. The overall scene is set against the blackness of space.

Build and Trust Employees

Stars Care

Excellence is a Team Culture

Great
Place
To
Work.®

Certified
JUN 2019–JUN 2020
USA

Great
Place
To
Work.®

Certified
2019
ESPAÑA



Real-Time Innovations Reviews

glassdoor

4.9 ★★★★★



Recommend
to a Friend



Approve
of CEO



Stan
Schneider
23 Ratings

RTI Makes the World Run Better

- Our customers have 3 things in common:
 - They are doing something new
 - They are doing something hard
 - They are *scared*

Ensure Customer Success

Ease Integration



WITTENSTEIN

AdaCore

arm



LYNX
SOFTWARE TECHNOLOGIES

Mentor®
A Siemens Business



XILINX
ALLIANCE PROGRAM
MEMBER

MORE
AUTOMOTIVE



galois | MOCANA



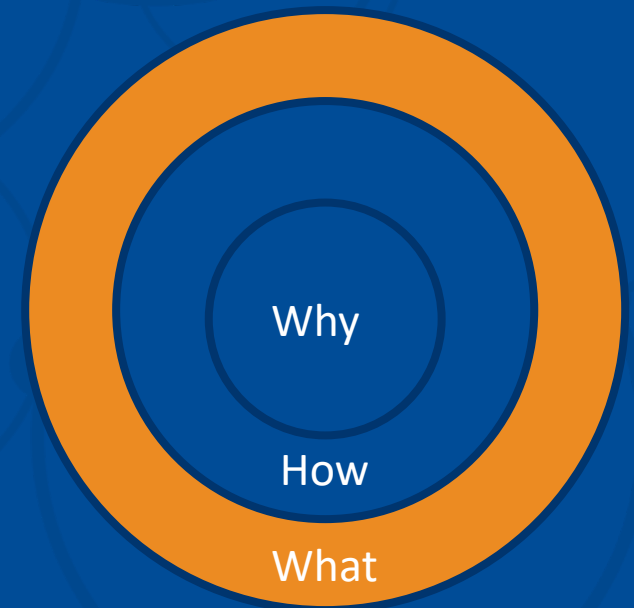
rti

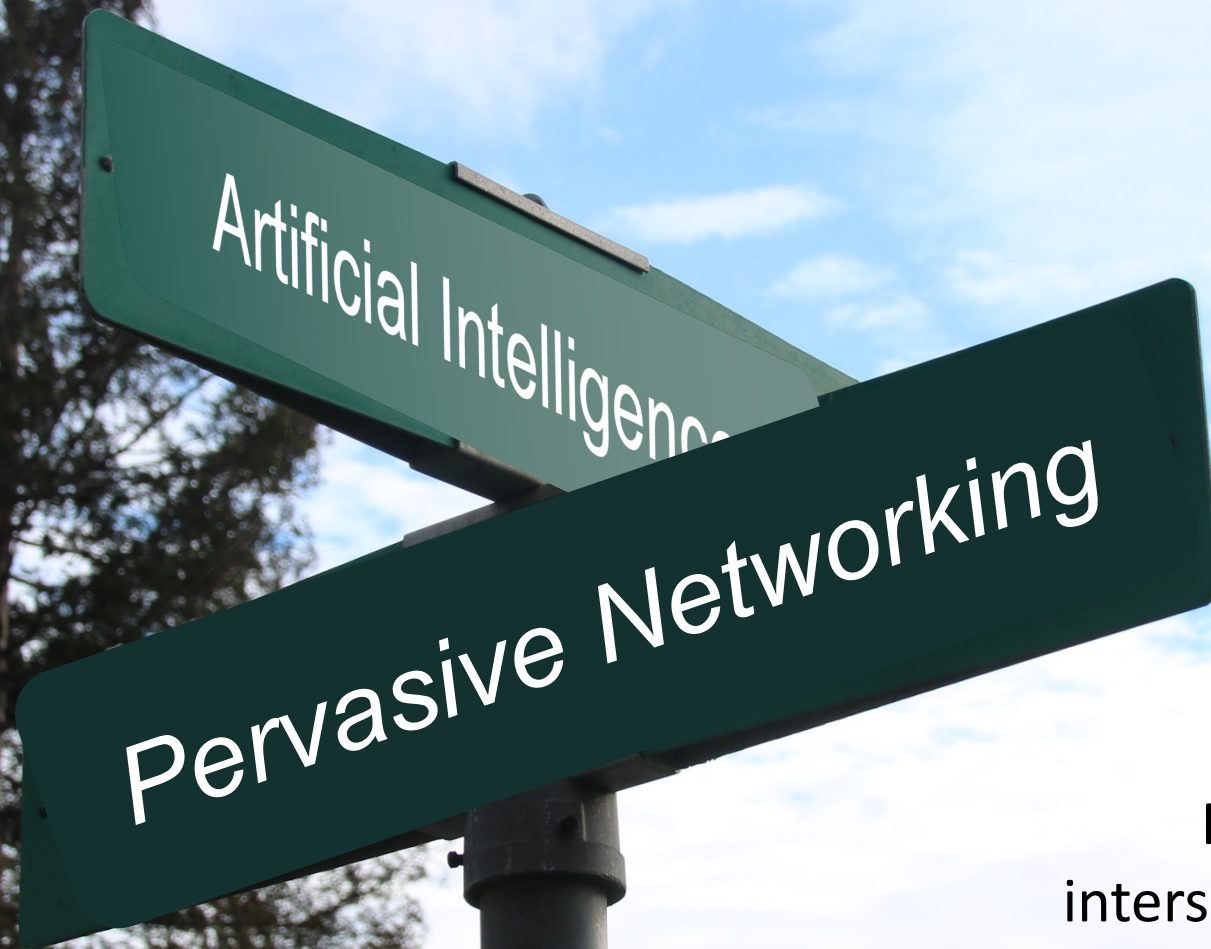
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RTI Sells Trust

What?



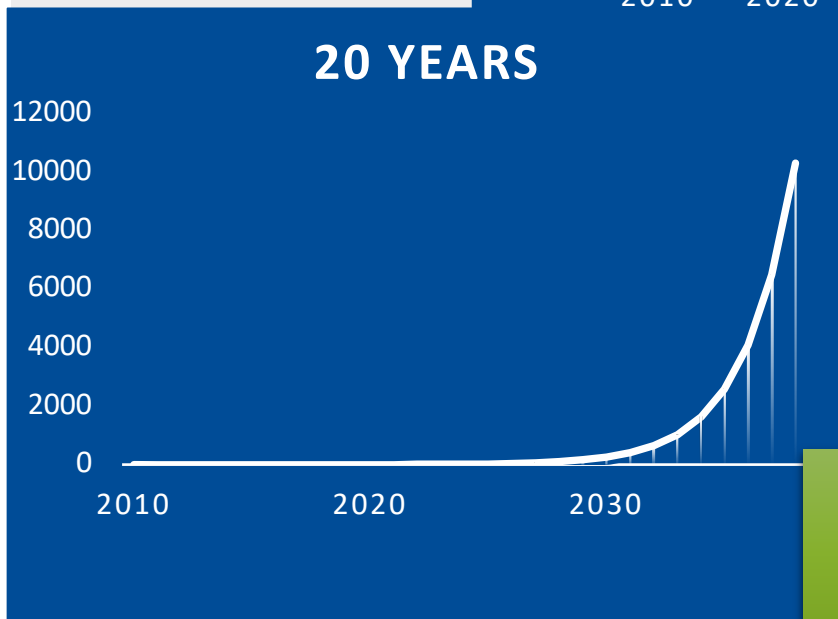
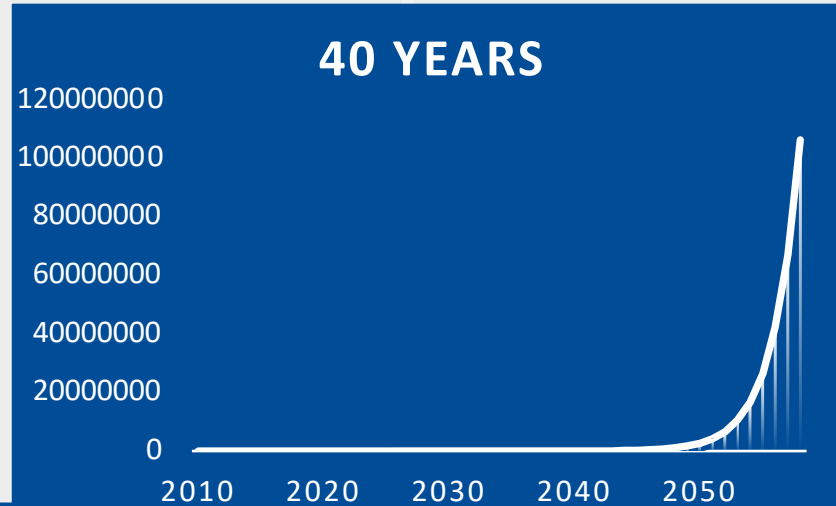


RTI lives at the
intersection of functional
artificial intelligence and
pervasive networkingSM

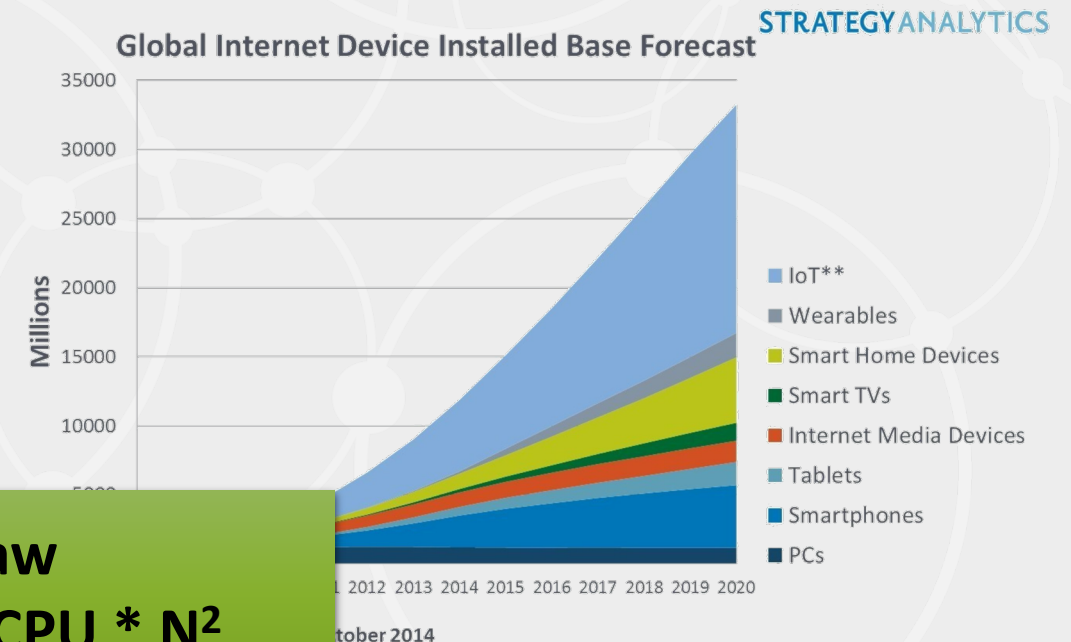
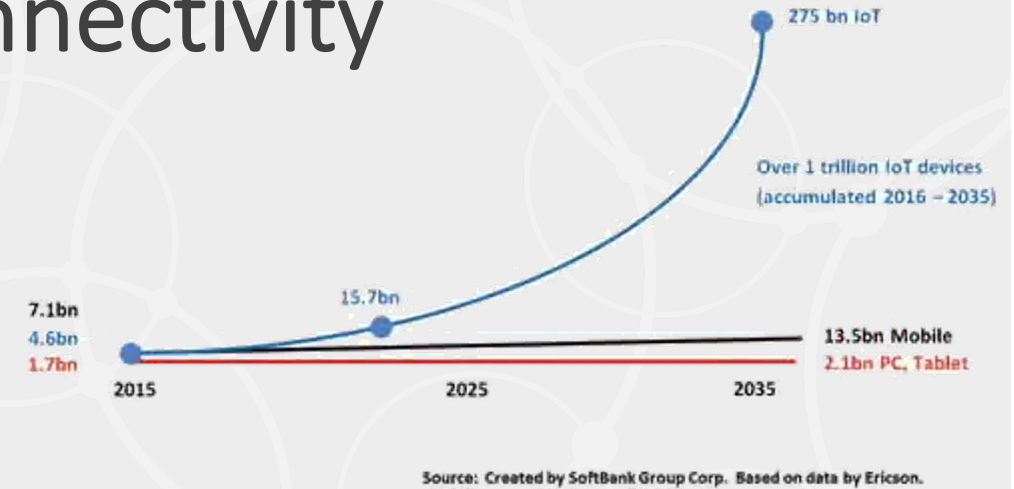
How much will computers improve in 40 years?

$$2^{(40/1.5)} = 100,000,000x$$

The Design Factors: CPU & Connectivity

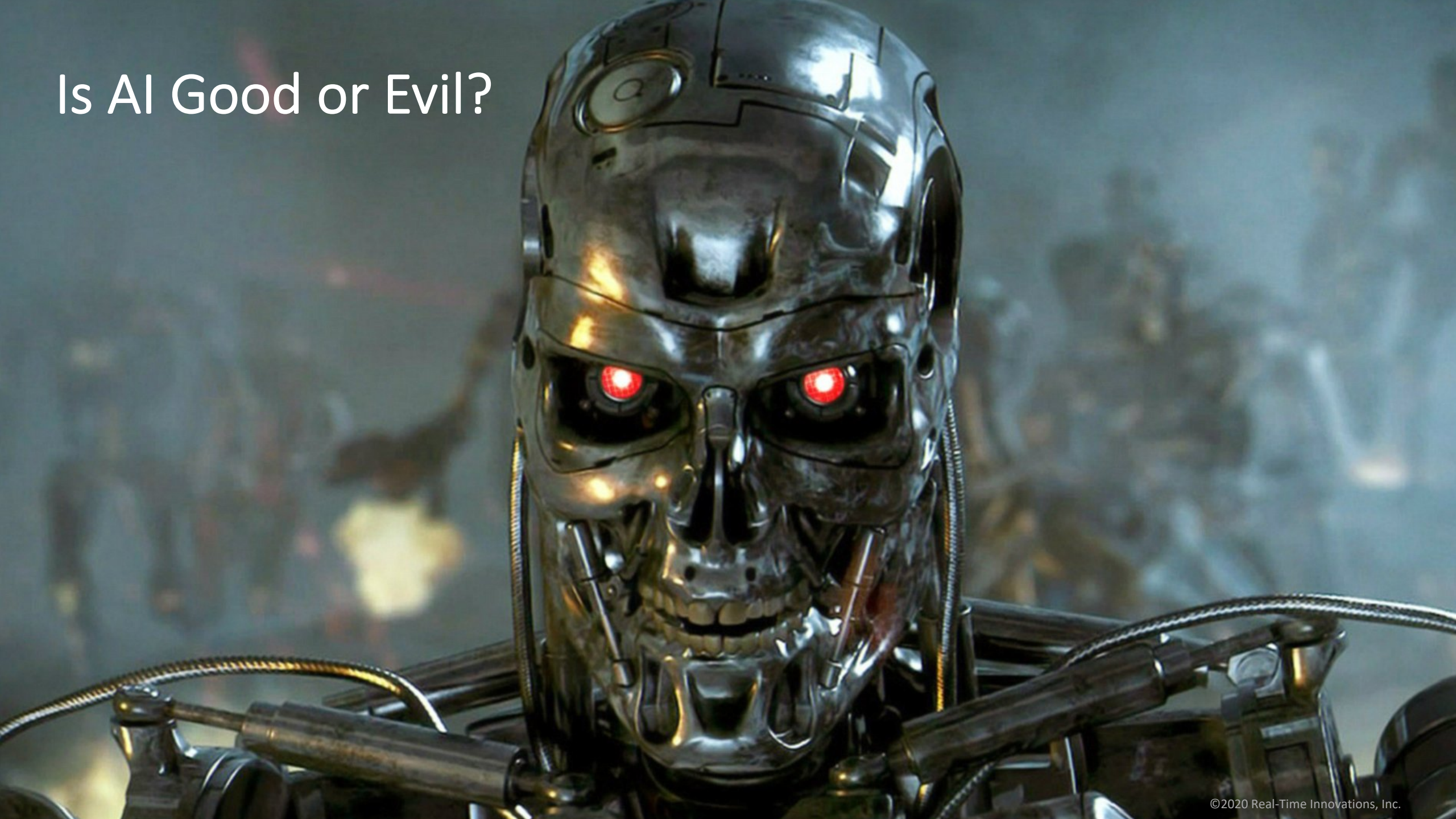


Pardo's Law
System value = CPU * N²



Historians will look back at our time and wonder how we got by without smart things

Is AI Good or Evil?





UMTRI



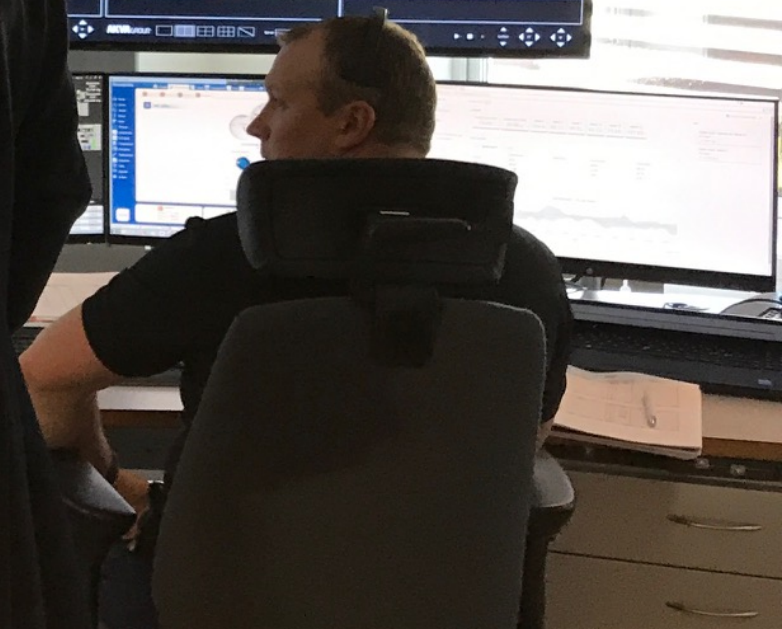
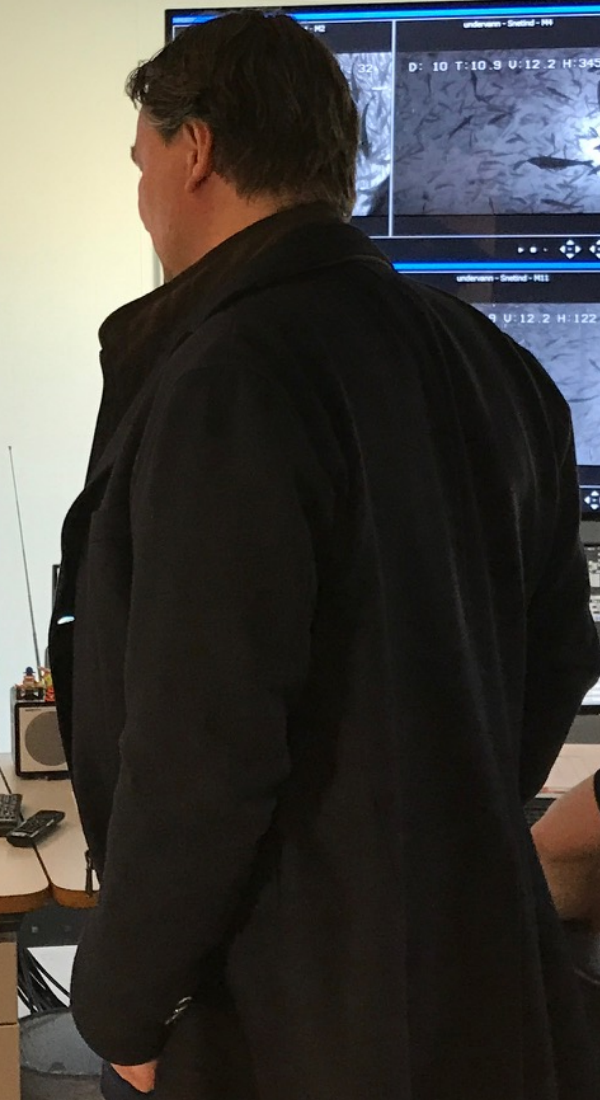
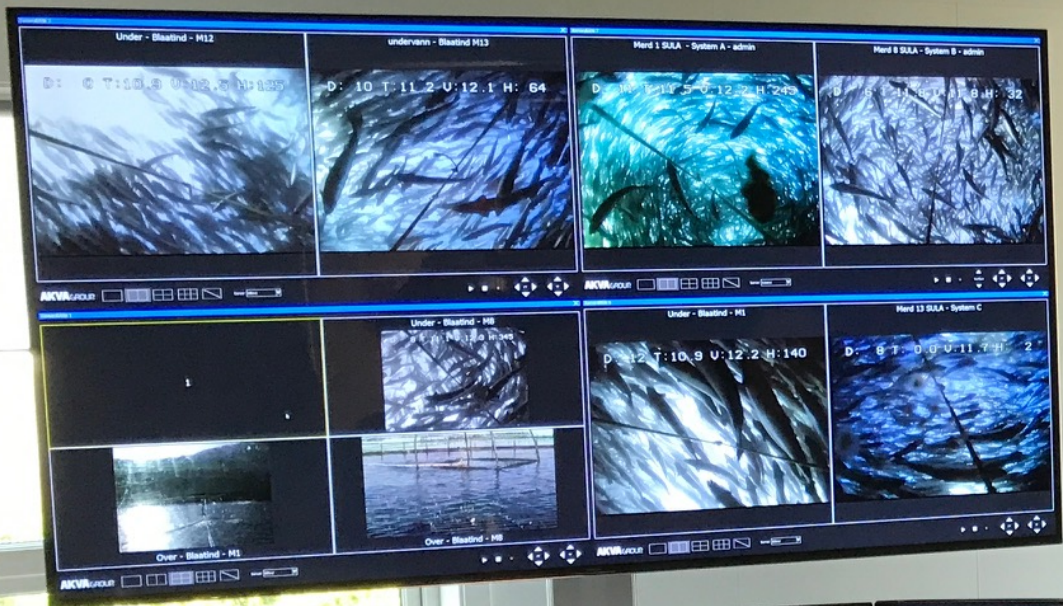


Getting There is Dangerous and Slow

We have an *obligation* to automate driving



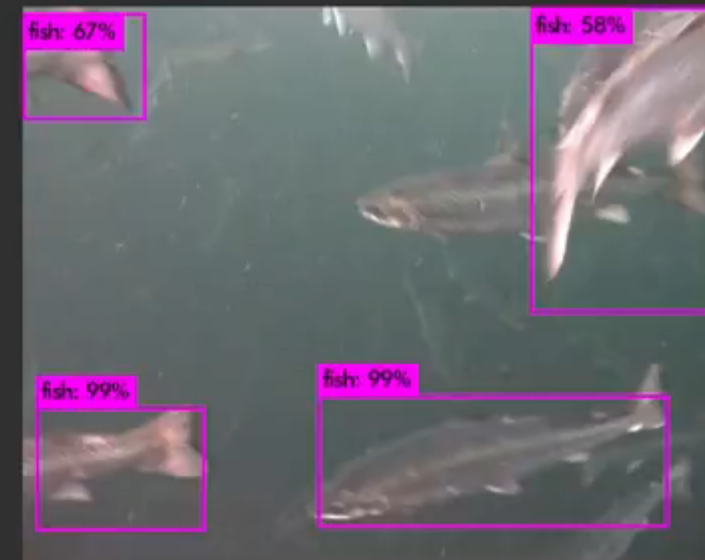
Facilitate Sustainable Salmon Farming



Density



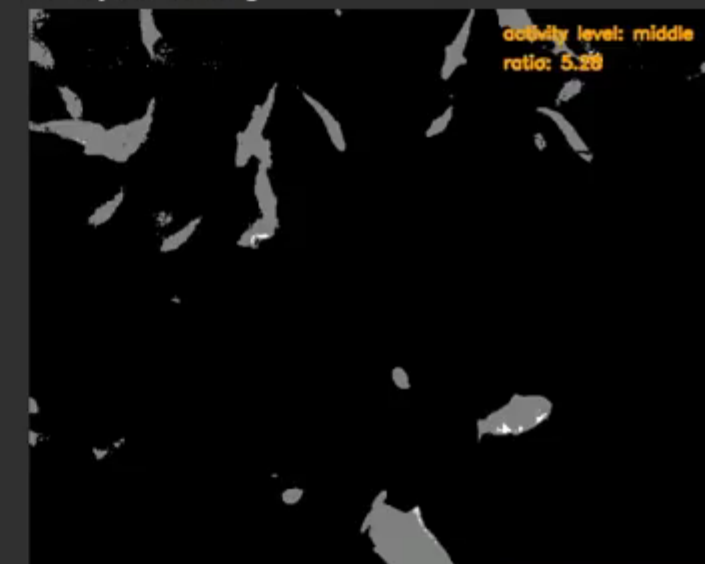
Fish detection



Particle detection



Activity monitoring





“the most exciting
thing I have seen
since the dinosaurs”





**AMAZON'S NEW ELECTRIC VANS
START HITTING THE ROAD IN 2021.**

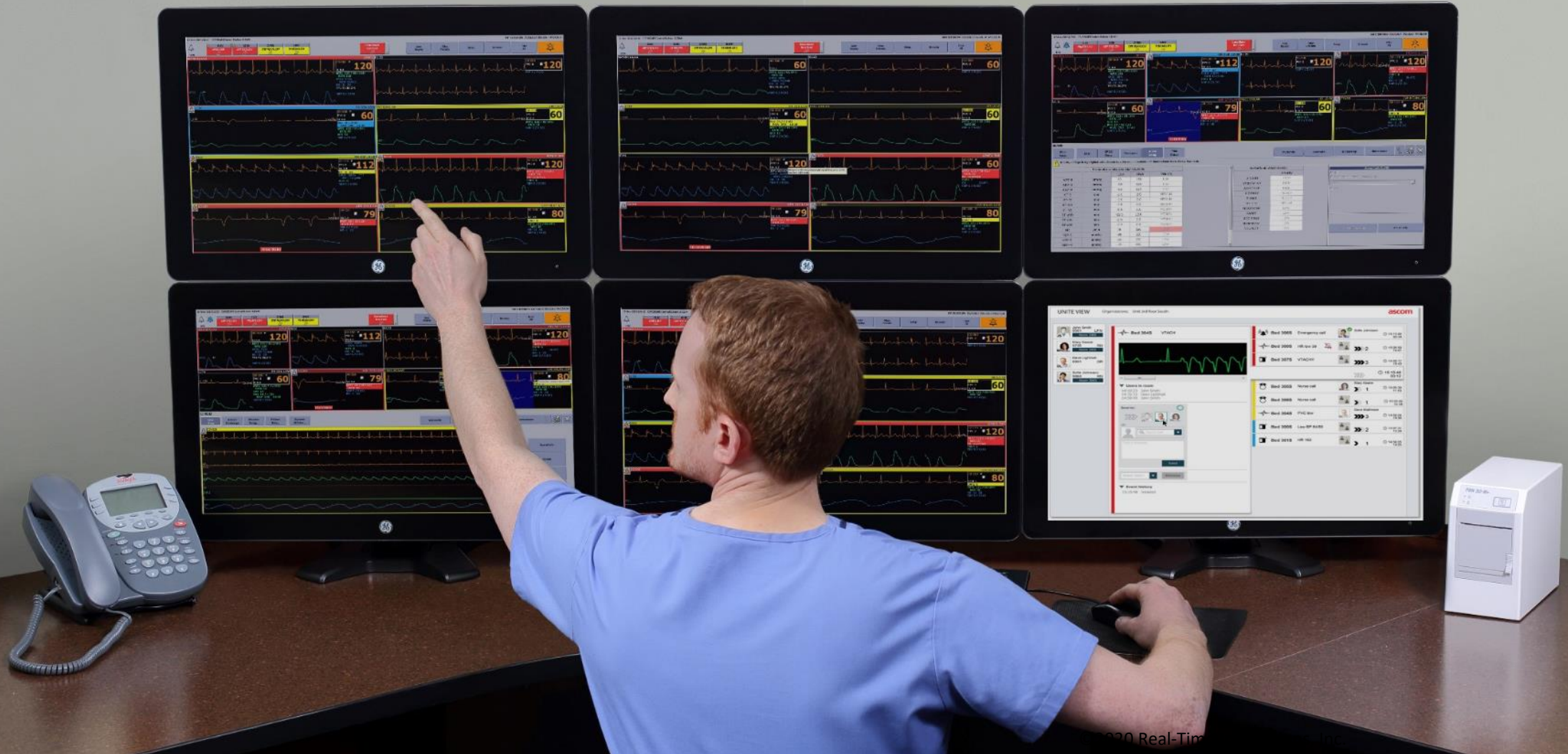
The Importance of Monitoring



Hospitals are
dynamic



Hospital Networks Are Growing



RTI Helps AI Build a *Better* Smart Machine World



You don't compete against competitors.
You compete against market transitions.
– John Chambers



Profound!



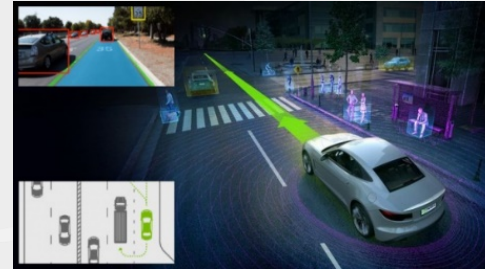
The autonomous future will be cleaner, healthier,
more efficient, and safer.

Early Applications Adopting RTI Connex DDS

- Transportation

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

ConnexCon 2020



- 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

ConnexCon 2020



ConnexCon 2020



- Defense

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

ConnexCon 2020



- Simulation and training

ConnexCon 2020



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!

AdaCore



LYNX
SOFTWARE TECHNOLOGIES



Mentor®
A Siemens Business

MOCANA



SYSGO
EMBEDDING INNOVATIONS



Enjoy
the Journey

