RTI, DDS, and ROS

Stan Schneider, PhD.  RTI CEO
RTI Overview

- Largest DDS vendor
- 1000+ design wins
- Many multi-$b programs
- Full DDS, tools, services, support, secure & certified versions
The Databus

Data Centric technology connects applications to the data, not to each other.
Database and Databus: *Data Science* Approaches

**Database**

- Data centric storage and search of old data

**Databus**

- Data centric sharing and filtering of future data

**Why Data Centricity?**

- Common “truth” for integration
- Extreme reliability & scalability
- Right data, right time, right place

- Complexity in infrastructure, not code
- No startup dependencies
- Generic tools and analyzers

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DDC & RTPS

Tools & SDKs

Visualization & Debug Tools
Recording & Playback Services
Application Prototyper
Data Modeling Tools
Connectivity SDKs (C, C++, Java, .NET, Javascript, Python...)

API
Publish-Subscribe
Request-Reply
Discovery
Exception Handling

Data Resource Model
ID and Addressing
Data Type System
Lifecycle (CRUD)

DD-SRTPS Messaging Protocol

Connectivity Gateway
Database Integration Service
Persistence Service

Quality of Service
Security

Governance

Databus

Connectivity Services

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RTI Business Model

• Free for non-commercial use
  – All middleware, tools, services*
  – Free community support
• Inexpensive optional support
• Subscription license for commercial developers
  – No runtime royalties

*Not esoteric platforms or certified versions
Contact!

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• We’re Hiring!
  – Research: Build programs with top universities
  – Services: Design advanced IIoT apps around the world
  – Automotive Engineers: Build autonomy architecture
  – Field Applications Engineers: work with the newest applications
  – Engineering: Take on the toughest challenges* in tech
  – Market Strategy: Architect solutions for future standards

• Positions in US, Spain, worldwide

*OK, one of the toughest