



AN INTEL COMPANY

From Satellite to Ground Station

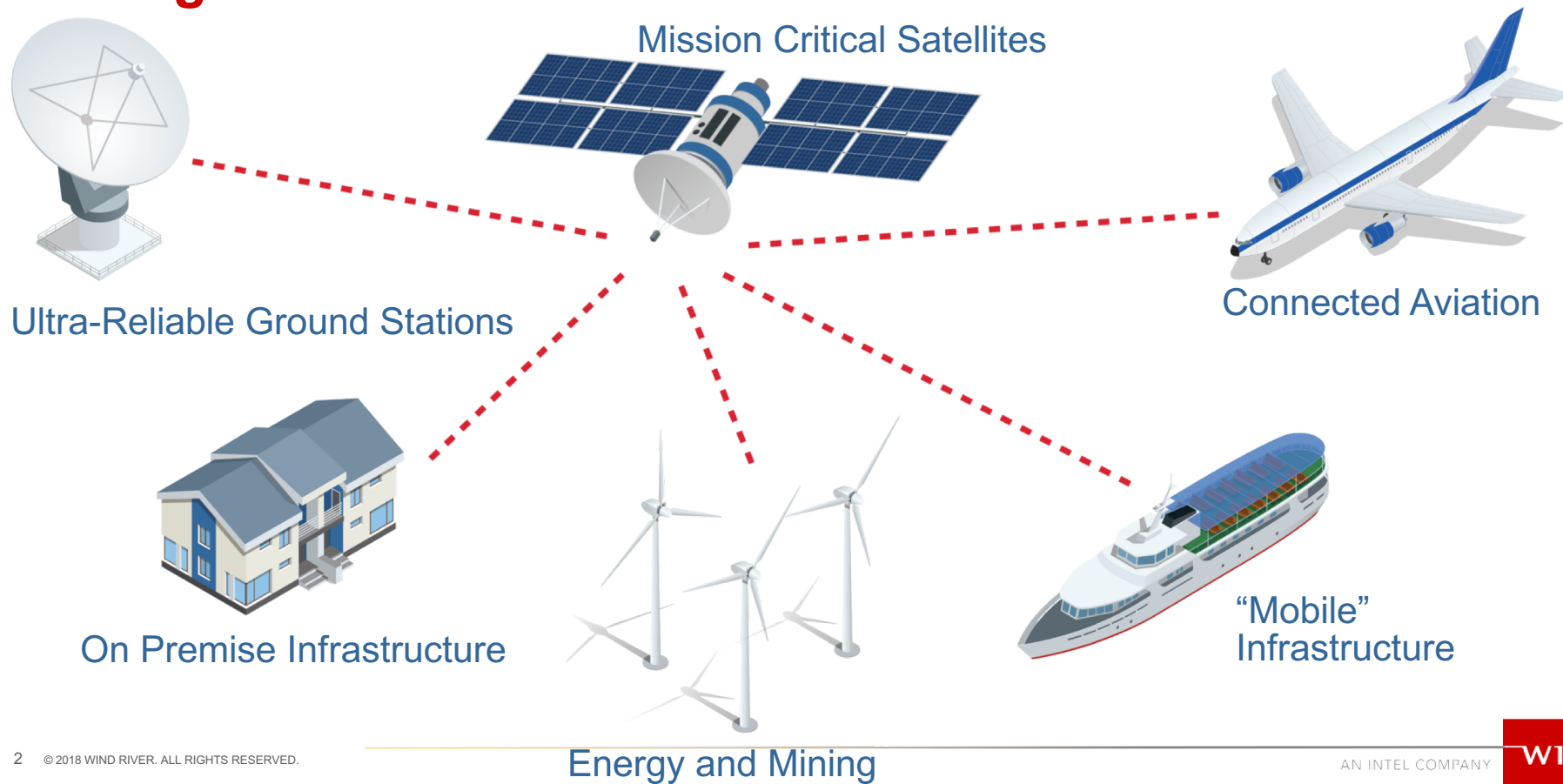
When Your Software Defined Future
Simply Must Work

Ross Dickson, Wind River Systems



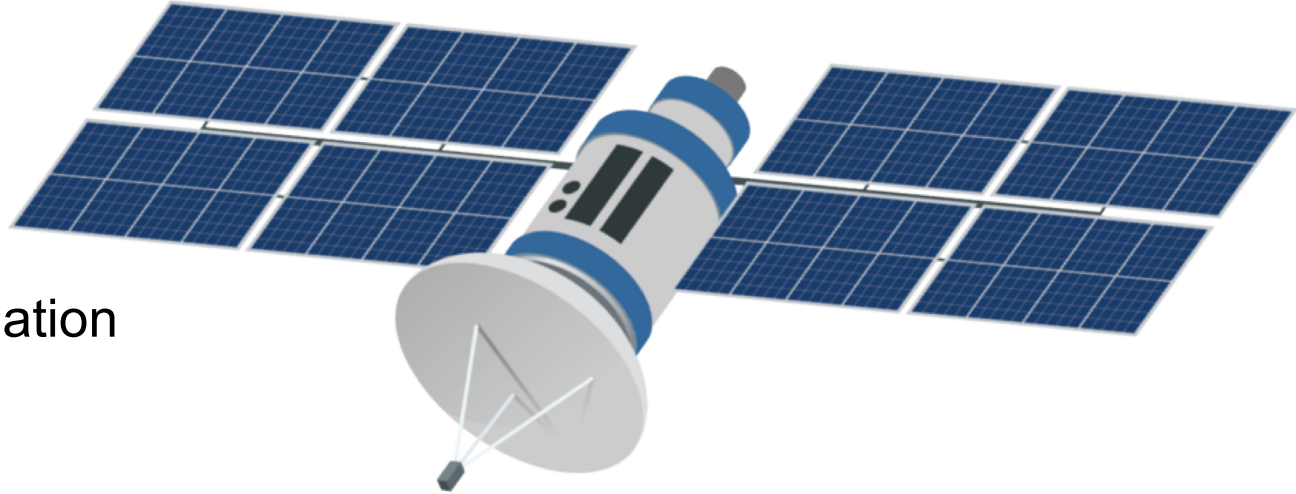
**WHEN IT MATTERS,
IT RUNS ON WIND RIVER.**

Solving Critical Business Problems in Sat Com



Key Business Challenges for Mission Critical Satellites

- Balancing cost of survivability vs cost of replacement
- Development cost
- Certification & Regulation



Key Business Challenges for Ground Stations



- Maintaining ultra-reliable communications services
- Ensuring unbreakable end-to-end security
- Minimizing lifetime operational costs
- Avoiding vendor lock-in for hardware and software

Key Business Challenges for “Mobile” Infrastructure

- Delivering a rich web experience with minimal bandwidth backhaul
- Real-time delivery of personalized content
- Security of the Infrastructure
- Consumer security



Key Business Challenges for Energy and Mining



- Support high complexity workloads in remote environments
- High application availability in the presence of connectivity outages
- Development cost
- Addressing security threats in remote locations

Key Business Challenges for Connected Aviation

- Size Weight and Power
- Multiple Vendors
- Certification of Avionics
- Safety and Security of Avionics
- Size Weight and Power

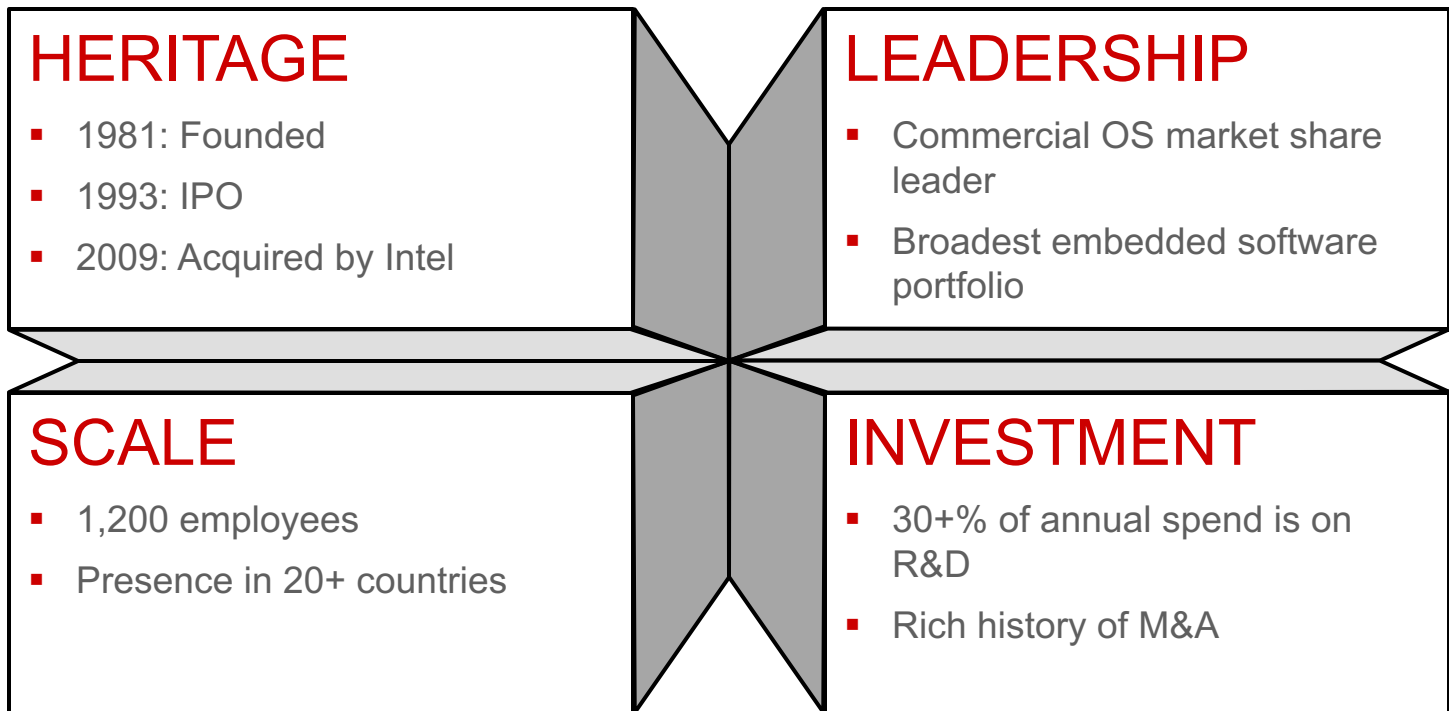


Key Business Challenges for On Premise Infrastructure

- Cost Control
- Confidentiality & Security
- Flexibility and Service Agility
- Avoiding vendor lock-in for applications



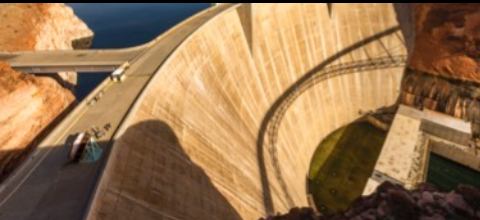
**For over 35 years, Wind River has helped
the world's technology leaders power generations
of the safest, most secure devices**



CHEMICAL SECTOR



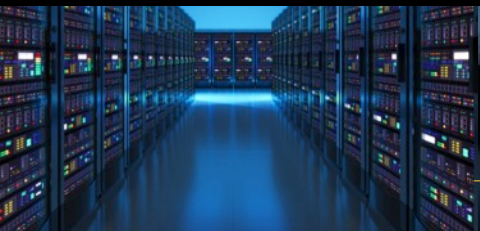
DAMS SECTOR



FINANCIAL SERVICES SECTOR



IT SECTOR



COMMERCIAL BUILDING SECTOR



DEFENSE BASE SECTOR



FOOD & AGRICULTURE SECTOR



NUCLEAR SECTOR



COMMUNICATIONS SECTOR



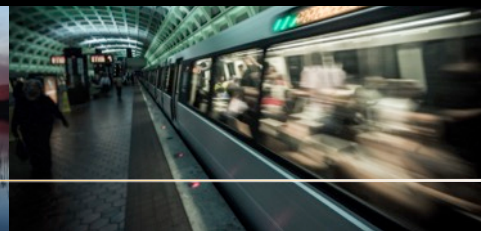
EMERGENCY SERVICES SECTOR



GOVERNMENT BUILDING SECTOR



TRANSPORTATION SECTOR



CRITICAL MANUFACTURING



ENERGY SECTOR



HEALTH CARE SECTOR



WATER & WASTEWATER SECTOR





MORE THAN 600 AEROSPACE & DEFENCE CUSTOMERS

MORE THAN 500 SAFETY CERT PROJECTS ON 90 AIRCRAFT

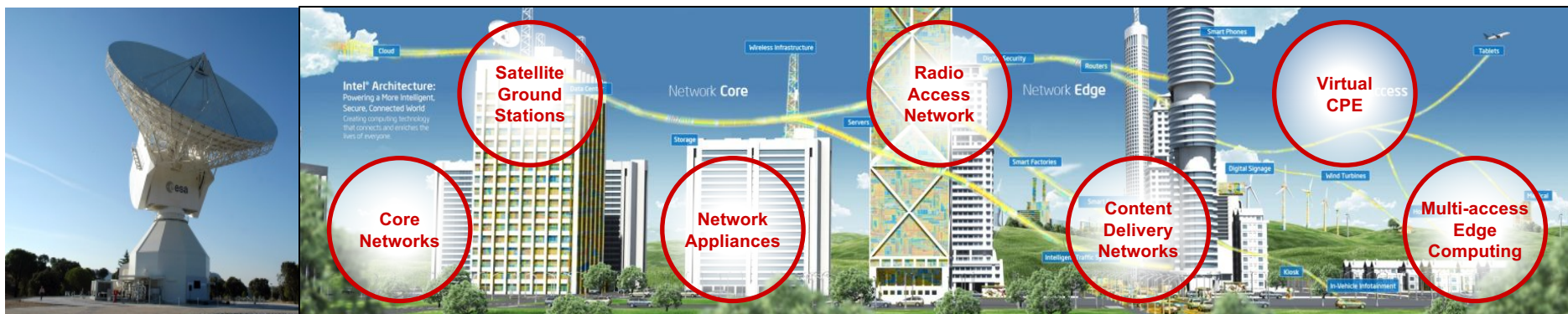
MORE TWO BILLION DEPLOYED DEVICES

MORE THAN 35 YEARS OF CUSTOMER SUCCESS

100% OS MARKET SHARE FOR SUCCESSFUL MARS LANDINGS*

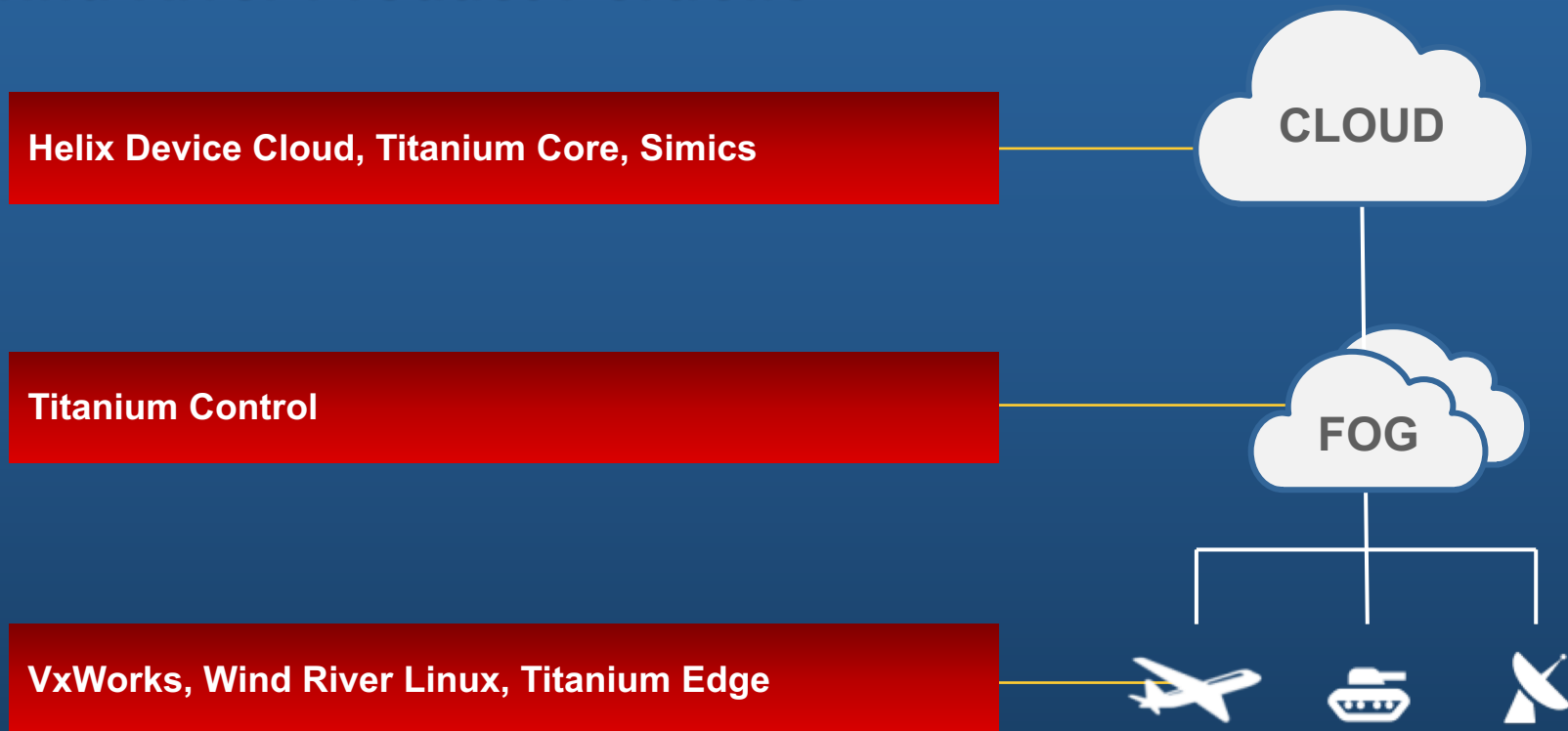
Industry-Leading Expertise in Communications

We deliver secure software platforms that run the world's most reliable networks



- **Designed** by industry experts
- **Adopted** by all the top 20 Telecom Equipment Manufacturers worldwide

Wind River Product Portfolio



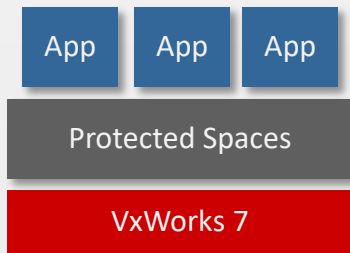
Wind River VxWorks

COTS Solutions from Real Time to Virtualization

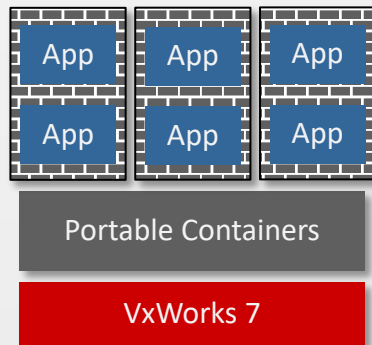
Single Function Device



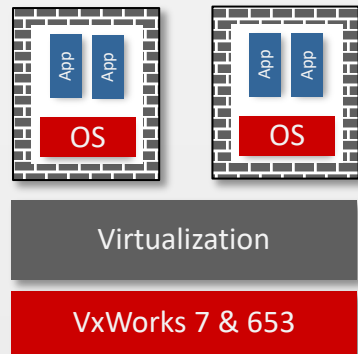
Multi-function Device



Multi-tenant Device



Multi-platform Device



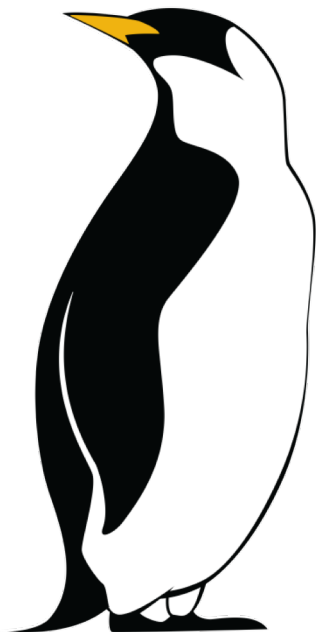
Certification May Be In Your Future

Supported Certification Standards

Market	Standards	Area
Industrial	IEC 61508	Functional Safety
Automotive	ISO 26262	Functional Safety
Nuclear	IEC 60880	Safety
Rail	EN 50128	Safety
Medical	IEC 62304	Safety, Software Lifecycle
Aviation	DO-178C	Safety
All Markets	IEC 27034	Security, Secure Dev. Lifecycle
All Markets	IEC 15408	Security, Common Criteria
Industrial	IEC 62443	Security for Industrial Devices

Wind River Linux Overview

Commercially Validated Robust Embedded Linux



- Long Term Support



- Compliance Artifacts
- Security Shield



- Industry Standard Linux Baseline

Wind River Cloud Solutions

One Architecture, Multiple Products



TITANIUM CLOUD

The #1 Network Virtualization
Software Architecture for
Critical Infrastructure

Hardened and Secure
Open Cloud



TITANIUM CORE

**For Communications Infrastructure
and Data Centers**



TITANIUM EDGE



TITANIUM EDGE SX

**For Small-Footprint
Mobile and Remote Deployment**



TITANIUM CONTROL

For Remote & Control Applications

Wind River Simics System Simulation

Simics is a **full system simulator** used by software developers to simulate the hardware of **complex electronic systems**.

- Simulate processors, peripherals, and networks.
- Simulate any size target system.



- Run unmodified target binaries.
- Use unique and powerful debugging techniques.
- Record, save, and restore your simulation runs.

When it Simply Must Work, It Runs Wind River

