The Biggest and Brightest IIoT Technologies and Solutions in Harsh Environments

Jarvis Wenger, Product Solutions Manager, MEN Micro
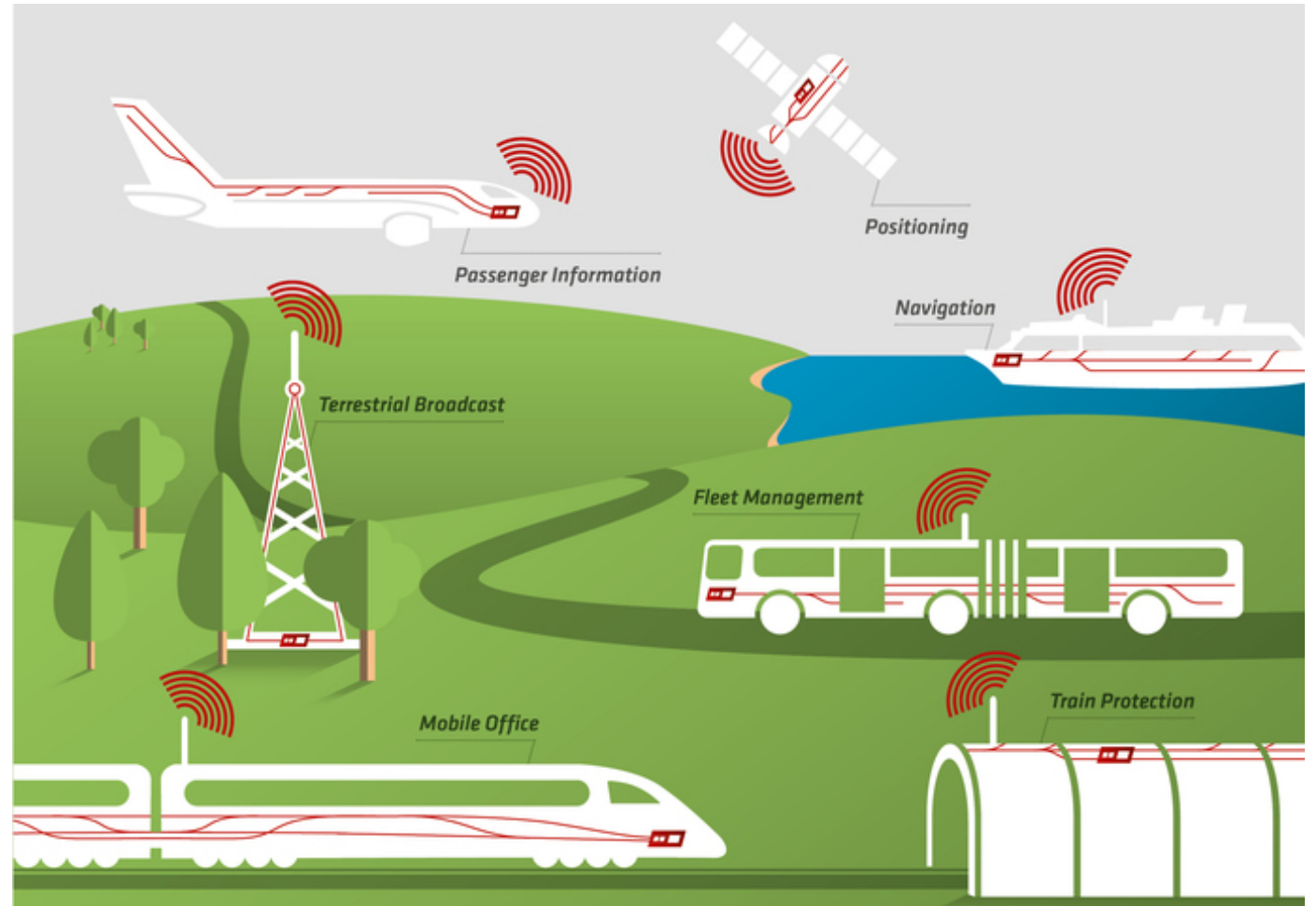
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IIoT – Data Driven Decisions

IIoT - Industrial Internet of Things

Database and Real Time Decisions

Lower cost of ownership

- Predictive maintenance
- Efficient routing
- Human safety
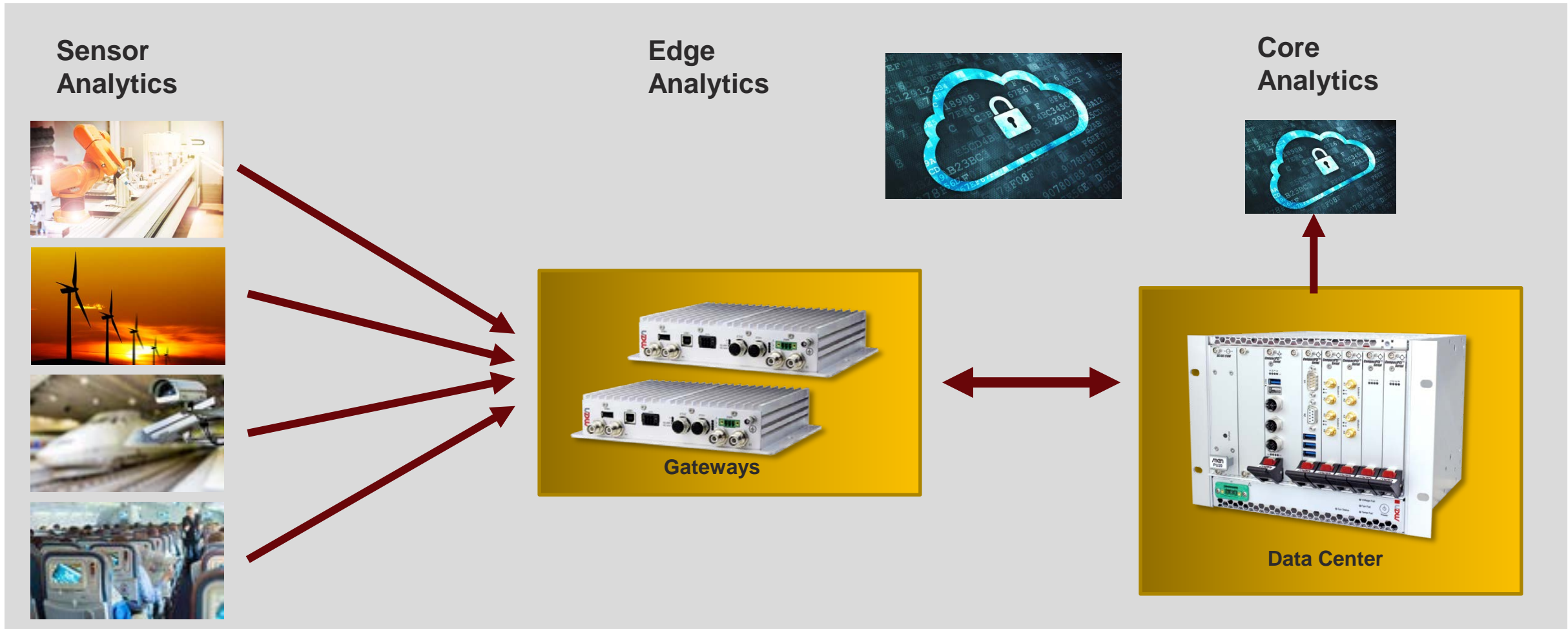
Machine Learning

IIoT Framework

Gateways – Going from the local network to the cloud

Edge Computing – Local high speed decisions and actions

Sensor Analytics

Edge Analytics

Core Analytics

Gateways
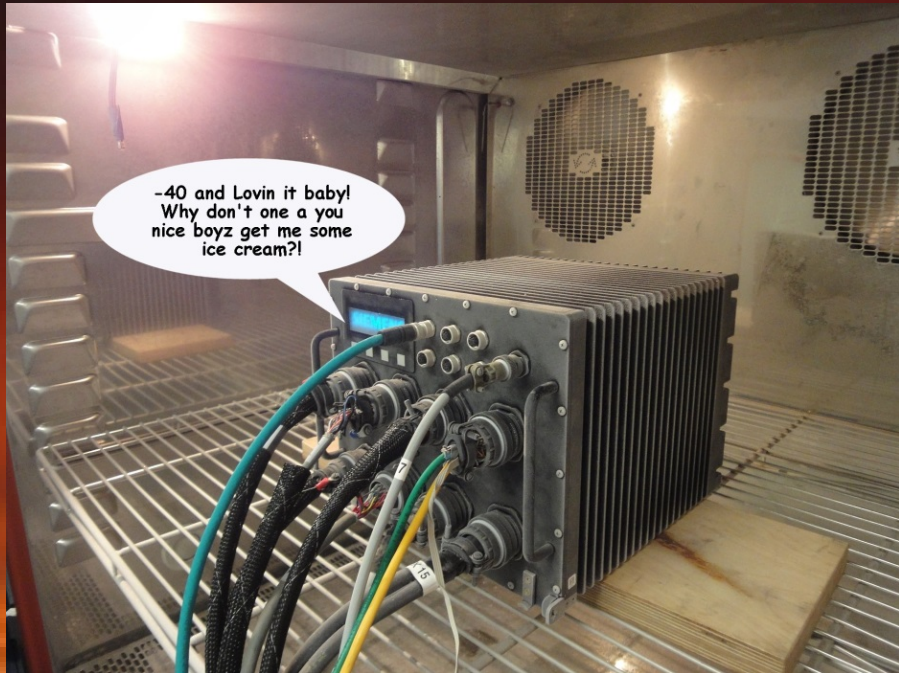
Data Center

IIoT in Harsh Environments

- -40 to +85°C or beyond

- Dust / Dirt

- Water / Ice

- Shock / Vibration

- EMI / EMC

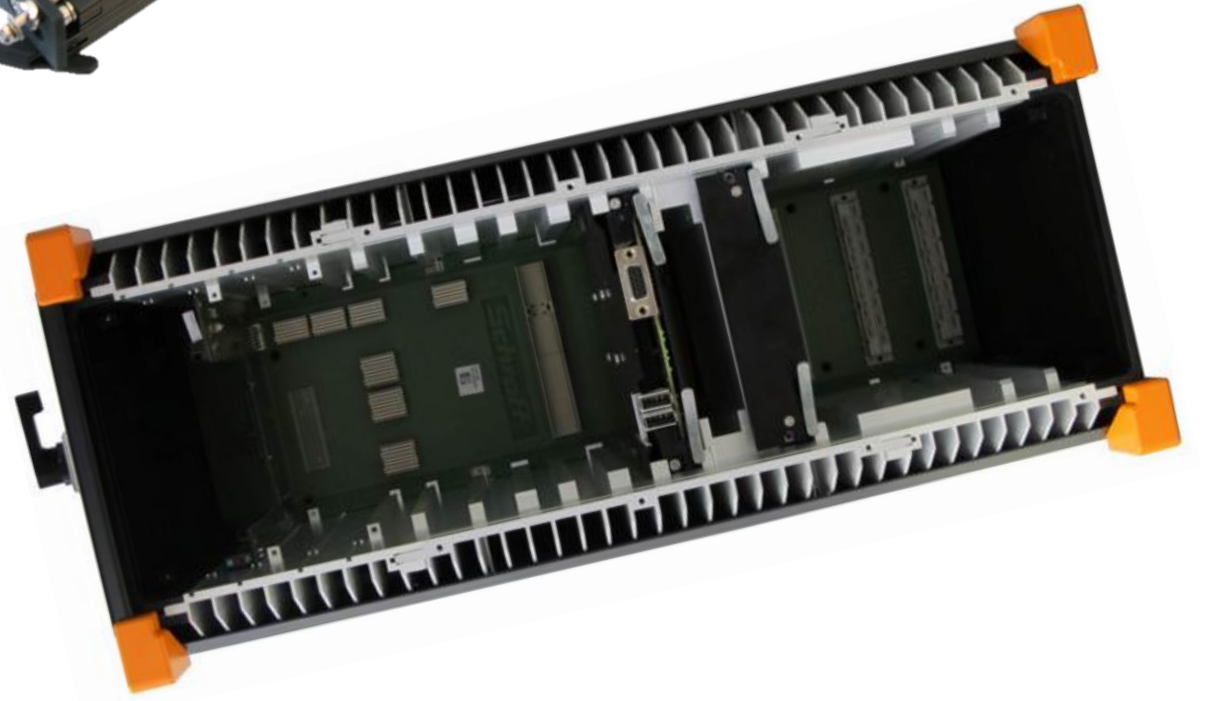# Rugged High-Performance Edge Computing Systems for Oil & Gas

Standards

Industrial IoT Gateway for the Oilfield

- Standard cPCI Serial Technology

- Passive cooling – IP65

- Active cooling – performance

- FPGA's flexibility
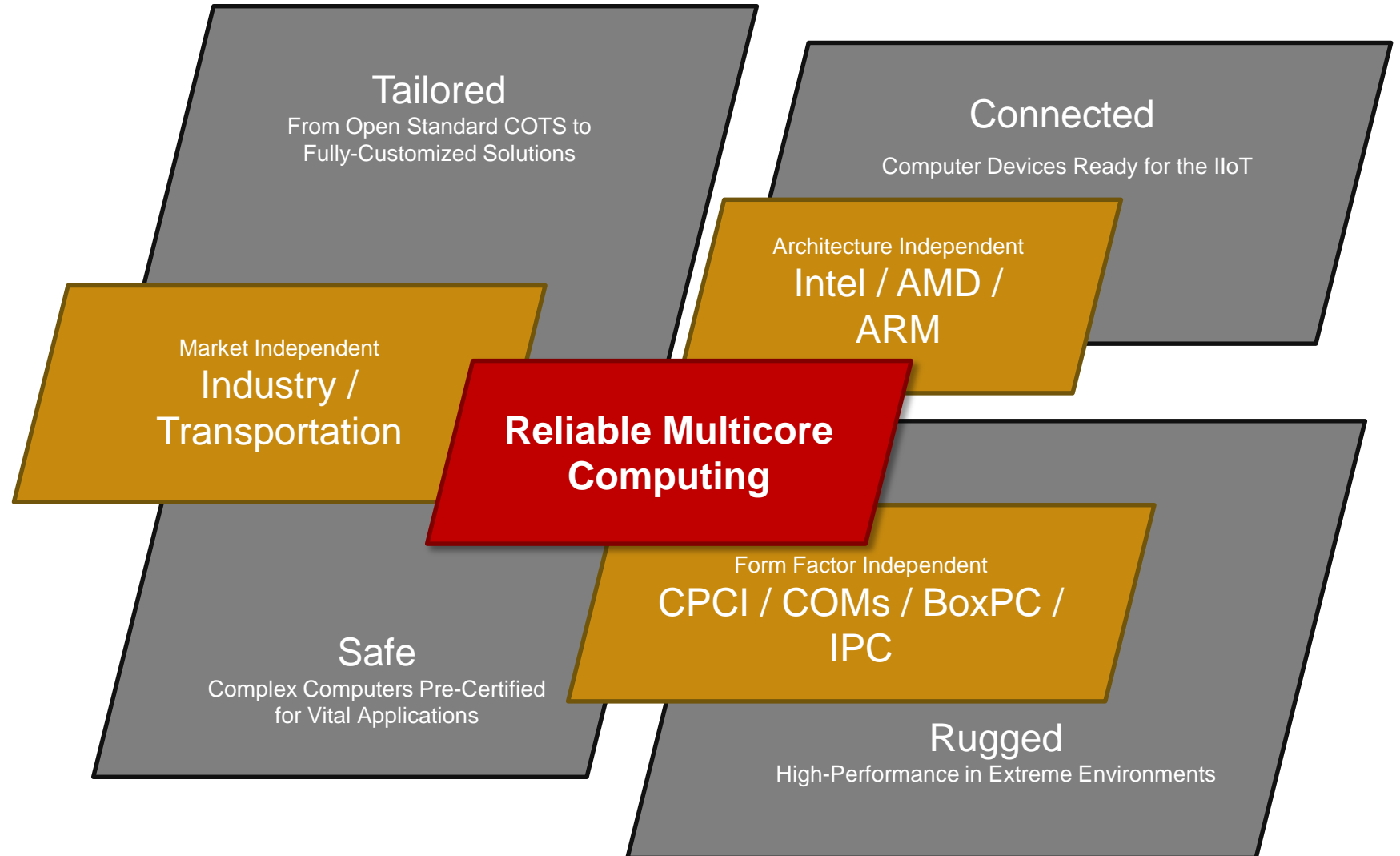
- Redundant PSU

- Built-in battery backup

Display Computer - VITA59

- Hazardous Area Classification

- Drill Head Control

- Extreme environment

High-Performance Computing Problems Solved

- Robust
- High performance
- Scalable
- Life Cycle Management

Tailored
From Open Standard COTS to Fully-Customized Solutions

Connected
Computer Devices Ready for the IIoT

Architecture Independent
Intel / AMD / ARM

Market Independent
Industry / Transportation

Reliable Multicore Computing

Form Factor Independent
CPCI / COMs / BoxPC / IPC

Safe
Complex Computers Pre-Certified for Vital Applications

Rugged
High-Performance in Extreme Environments

To a Big and Bright Future Together

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