



Marco Castellano

Area Sales Manager Centro-Sud Italia, Grecia e Malta

Certified LabVIEW Developer

Electronic Engineer

The World of Converged Devices



More capability defined in software



Functions change rapidly



Increasingly complex to design and test



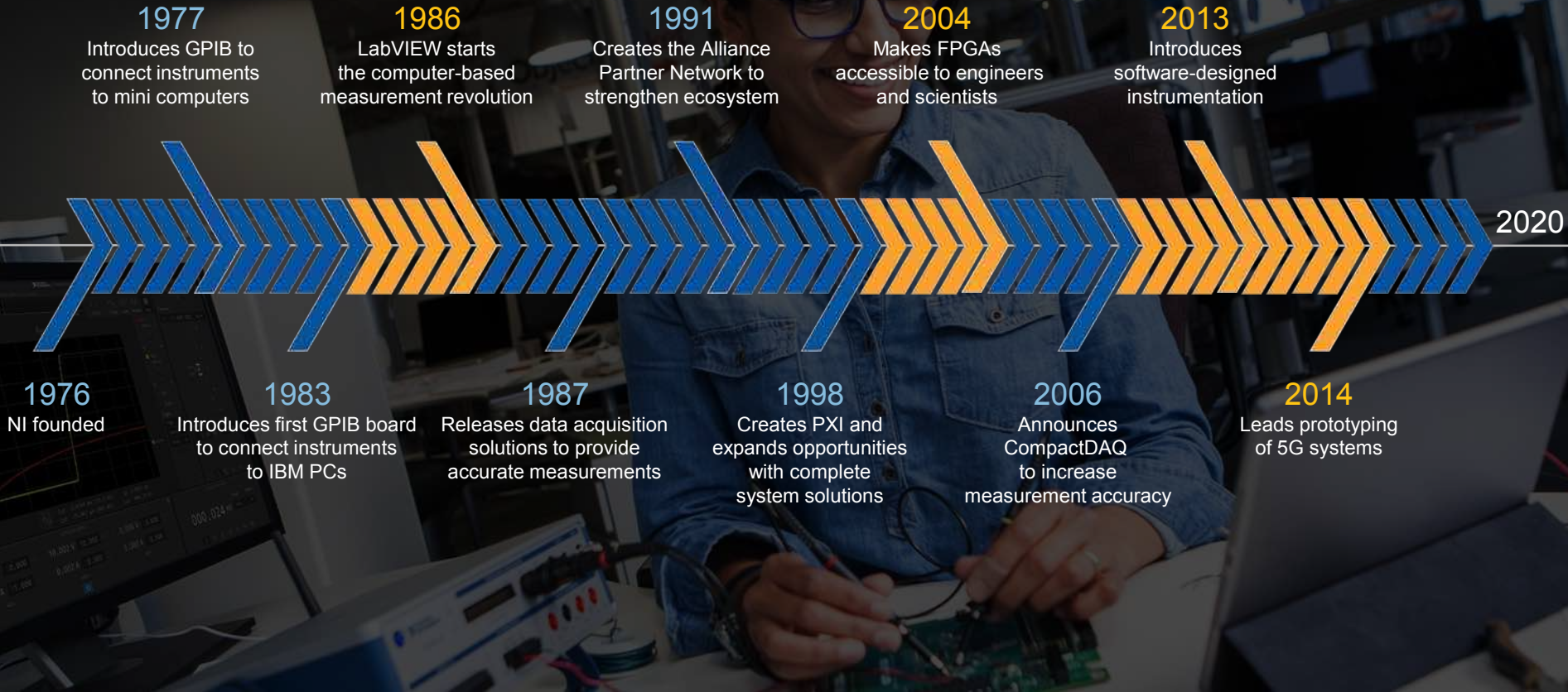


Mission Statement



NI equips engineers and scientists with systems that accelerate productivity, innovation, and discovery.

Accelerating Engineering for More Than Four Decades





7,500+
EMPLOYEES
50+ COUNTRIES

\$1.23

BILLION
IN 2015

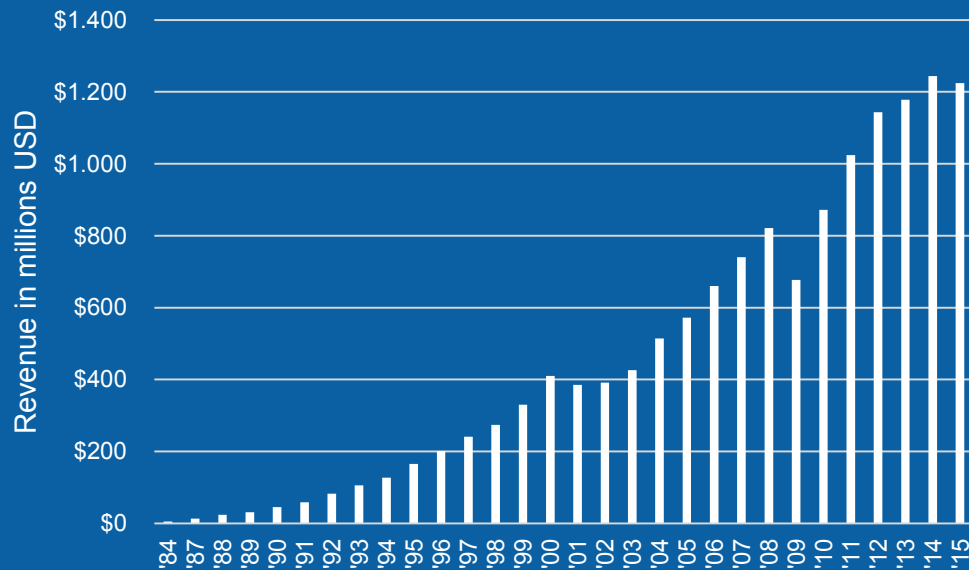


35,000+
CUSTOMERS WORLDWIDE



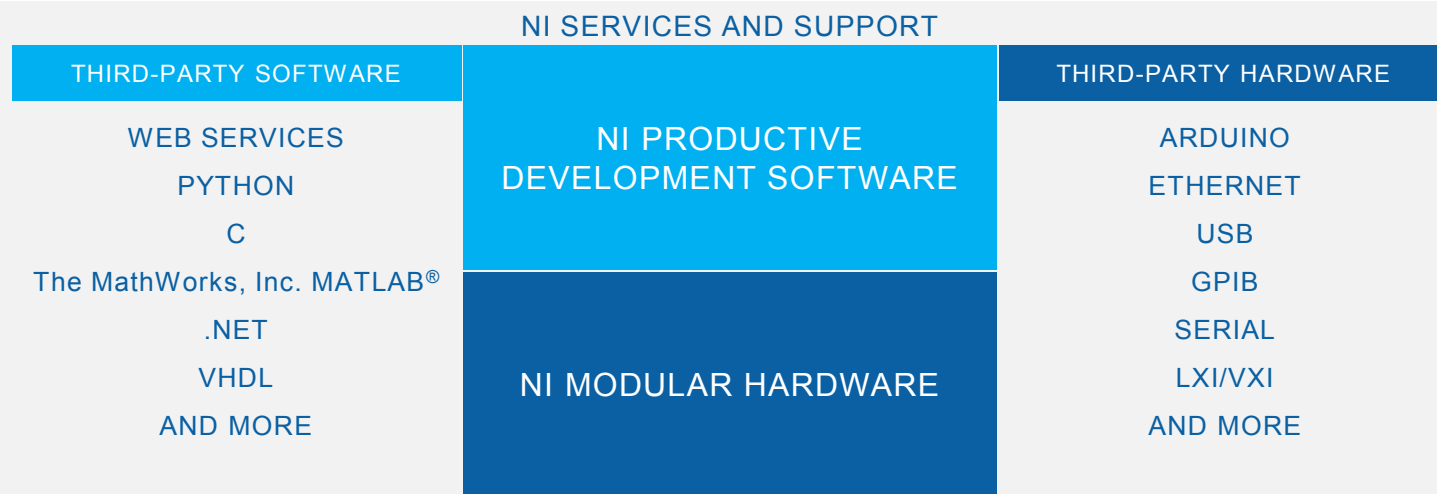
OVER 18%
INVESTMENT IN R&D

Long-Term Track Record of Growth



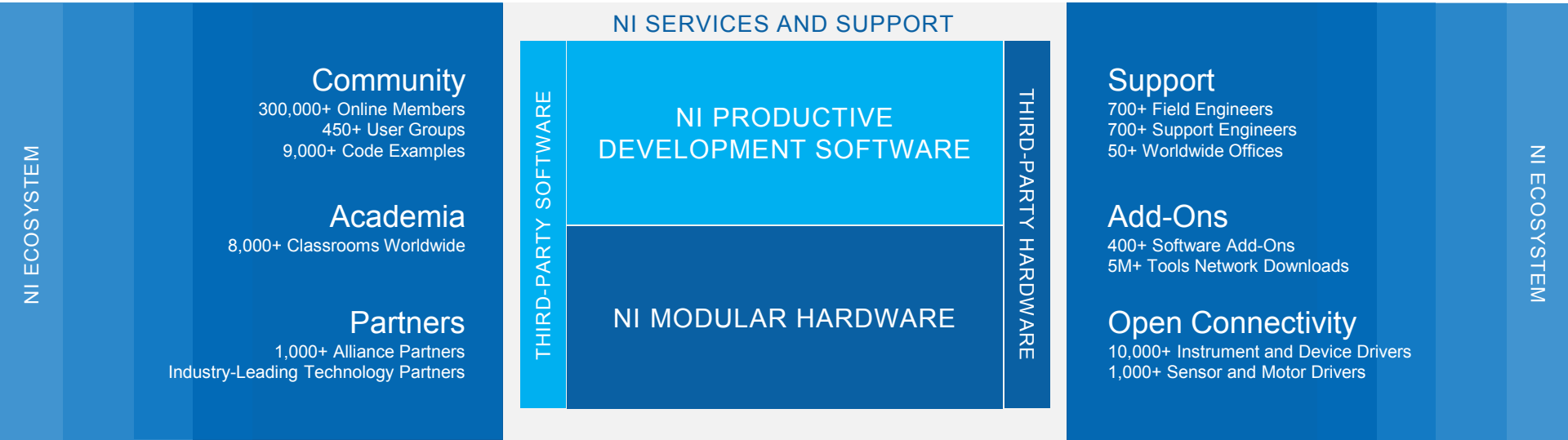
A software-centric platform approach to accelerate the development
of any system that needs test, measurement, and control.

ONE-PLATFORM APPROACH



MATLAB® is a registered trademark of The MathWorks, Inc.

ONE-PLATFORM APPROACH





Flexible Software Protects Your Investments

LabVIEW

TestStand

VeriStand

DIAdem

NI InsightCM™ Enterprise

Multisim

LabWindows™/CVI

Measurement Studio

Third-Party Software



Modular Hardware Allows You to Customize



Complete I/O Coverage
With More Than 600 Modules



Highest Data Throughput
With PCI Express



Software Extensibility
With Apps, IP, and Toolkits



Parallel Measurement Execution
With Latest Multicore Processors



Real-Time Measurements
With Timing and Synchronization



Measurement Acceleration
With User-Programmable FPGAs

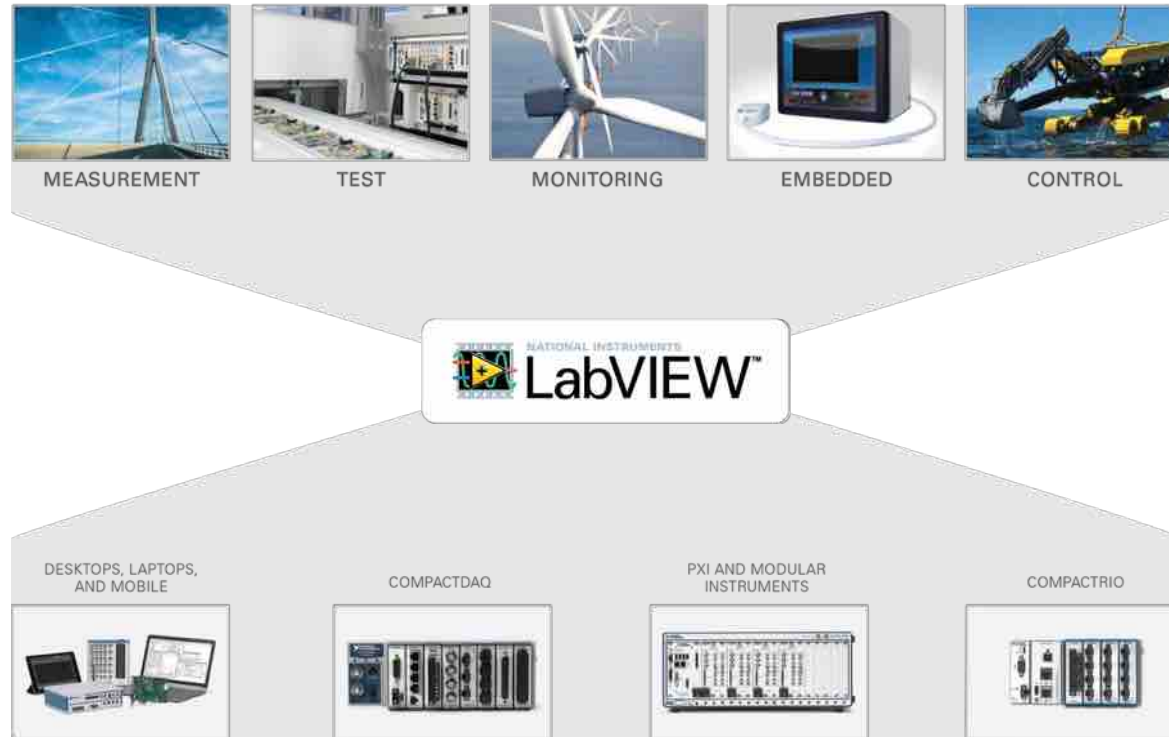


Reduced Size, Power, and Weight
With Form Factor Variants



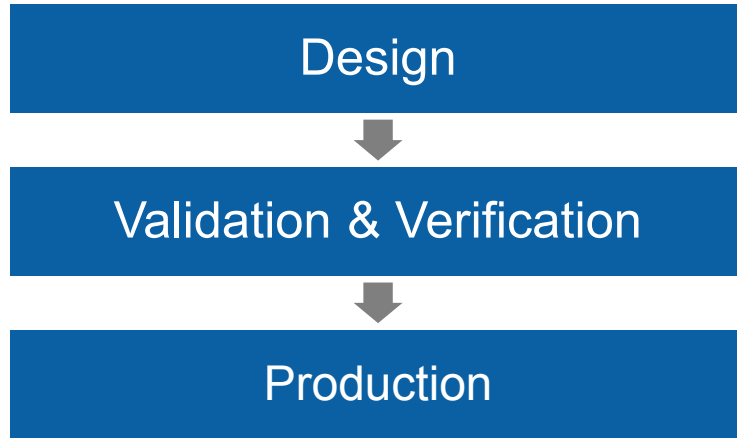
Increased Measurement Range
With Latest ADC/DAC

Platform-Based Approach

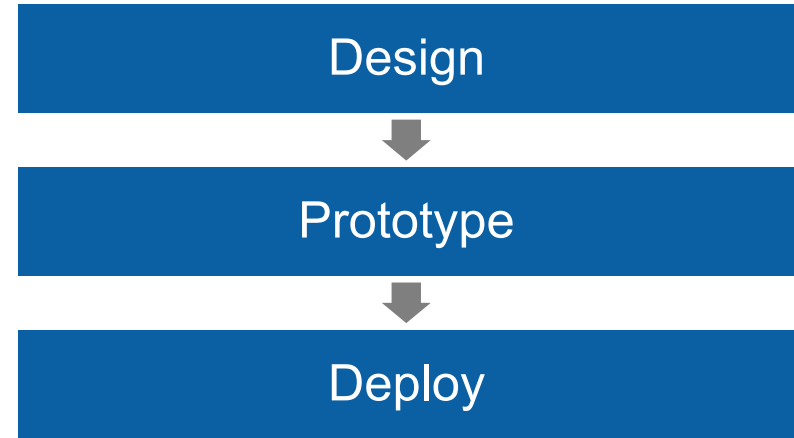


Key Application Areas

Test and Measurement



Embedded Monitoring and Control



NI's Platform-Based Approach to Automated Test

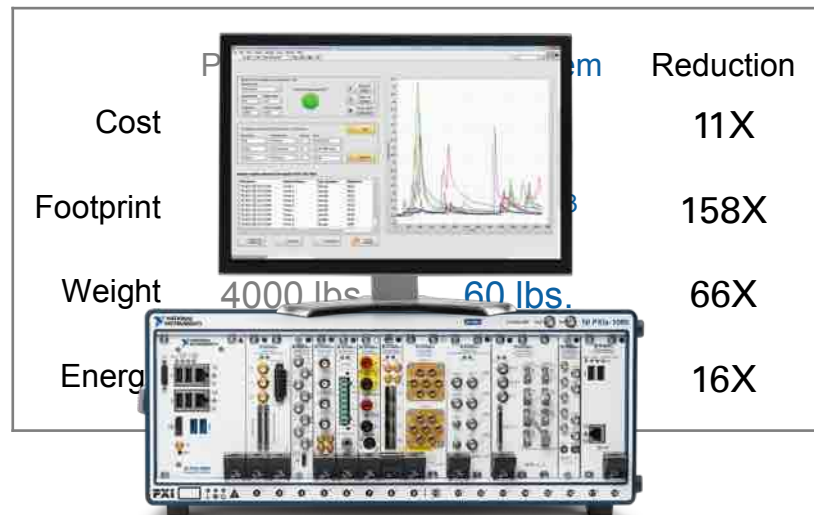
Traditional Instruments



PXI Modular Instruments



VS.



Cost

Reduction

11X

Footprint

158X

Weight

4000 lbs

60 lbs.

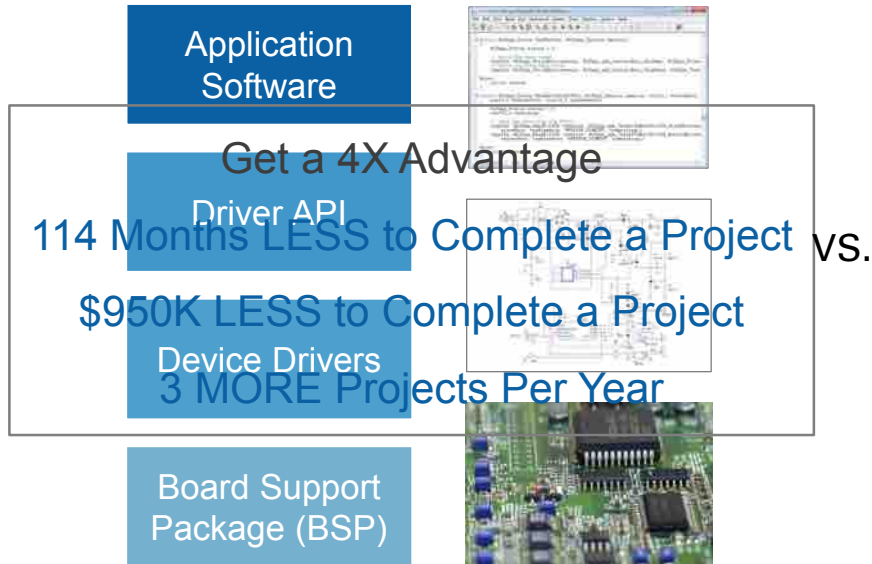
66X

Energy

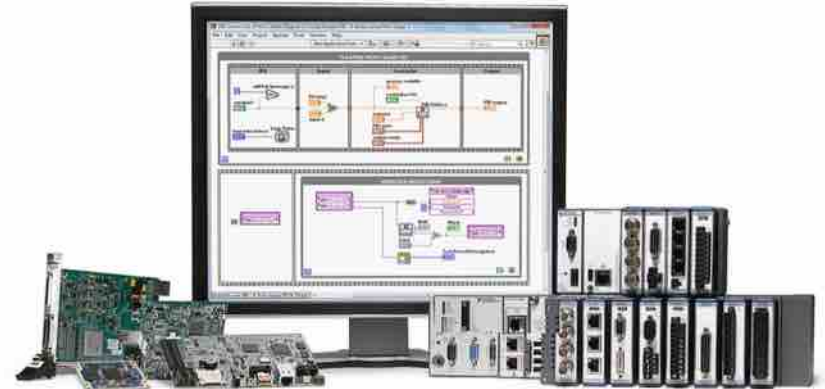
16X

NI's Platform-Based Approach to Embedded Design

Individual Components



Customizable Off-The-Shelf Platform



ARM

XILINX

eclipse



Our Customers' Success

Industrial Machinery	Aerospace and Defense	Electronics and Semiconductor	Academic and Research
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Wireless	Transportation and Heavy Equipment	Automotive	Energy
Wireless	Transportation and Heavy Equipment	Automotive	Energy




INDUSTRIAL
MACHINERY

SIEMENS


“LabVIEW graphical system design allows us to design modular software that can be easily scaled to meet the growing requirements of rapidly evolving wind energy technology.”

—Morten Pedersen, CIM Industrial Systems A/S



“Through the use of advanced software architecture and NI hardware, G Systems was able to provide Lockheed Martin Aeronautics with a highly configurable, expandable system to meet current and future requirements of the F-35 VSIF.”

—Michael Fortenberry, G Systems, Inc.



“The key to choosing NI products for Panasonic was the all-in-one compact enclosure, combinations of modules, the option to easily add features depending on our needs, and the ability to develop a program that has an intuitive graphical interface.”

—Takeuti Isao, Chief Engineer, Electronics Appliances



“Electronics used to seem so cryptic to me, but using NI tools in the new labs made everything so much more understandable. It’s given me the confidence to experiment with electric circuits and try out some of my own projects.”

—Joshua Elijah, Second-Year Student, The University of Manchester



WIRELESS

NOKIA

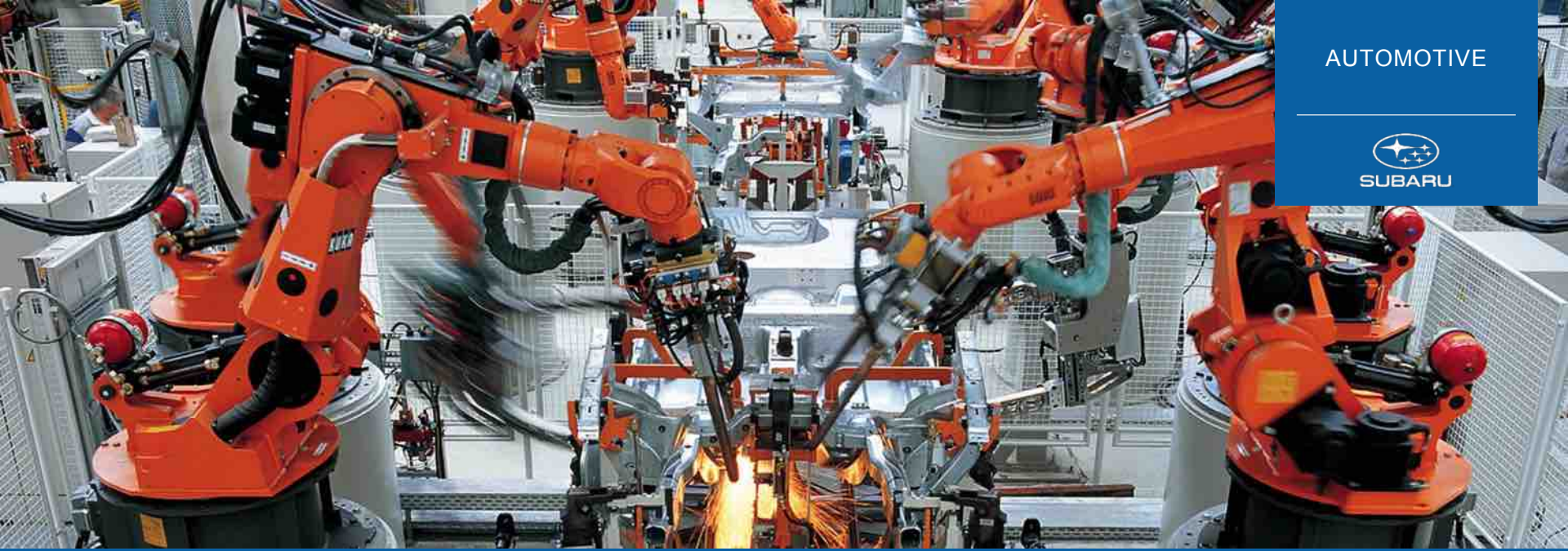
“Together, NI and Nokia Networks are reinventing the future of wireless communication and powering the fastest cell phone networks ever.”

—Lauri Oksanen, Nokia Networks



“[The NI platform] just brings a level of control that I don’t know exists in any other platform.”

—Steven Aposhian, FireFly Equipment



AUTOMOTIVE



“By adopting FPGA-based simulation using the NI hardware and software platforms, we achieved the simulation speed and model fidelity required for verification of an electric motor ECU. We reduced test time to 1/20 of the estimated time for equivalent testing on a dynamometer.”

—Tomohiro Morita, FUJI Heavy Industries, Ltd.



ENERGY

nationalgrid

“The high processing power of CompactRIO allows us to gather and analyze large amounts of data from anywhere on the grid as well as compile and analyze all the data to see grid-wide trends to optimize our investments to meet the energy needs of the next generation.”

—Peter Haigh, National Grid UK



Questions?