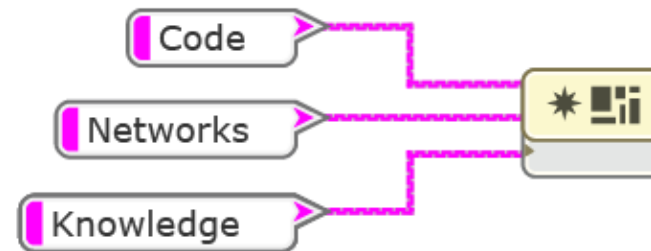
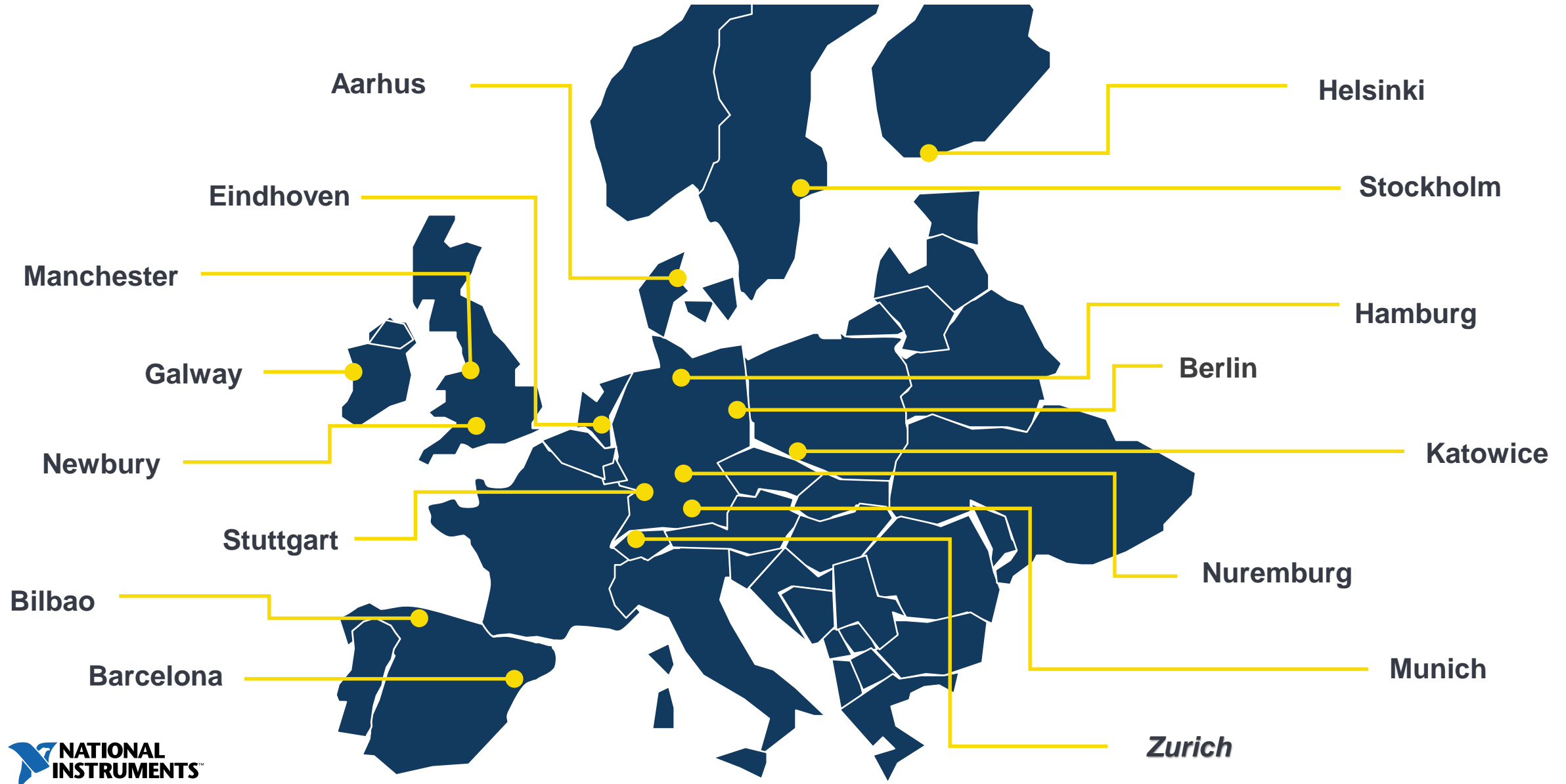


LabVIEW™ DEVELOPER DAYS

May & June 2018



What is LabVIEW Developer Days?





LabVIEW™



Understanding Elephant Communication

Austin Consultants

Challenge:

Creating a way to visualise infrasonic elephant communication for the Zoological Society of London.

Solution:

Used LabVIEW, LabVIEW NXG and Compact DAQ to create a web-based visualisation of infrasonic communications and now working on implementing machine learning to understand elephant noises.



Hacking Implantable Medical Devices

KU Leuven

Challenge:

Determining if medical implant devices can be controlled by a malicious third party.

Solution:

Used LabVIEW and USRP software defined radio to 'listen' to signals from devices and 'hack' them.



Passively Monitoring Health in Nursing Homes

Coventry University and University College London

Challenge:

Reducing burden on healthcare staff continuously monitoring the health, activity and well-being of nursing home patients.

Solution:

Using LabVIEW and USRP software defined radio and machine learning algorithms to monitor changes in WIFI signals due to patients' movements.



Testing the World's Most Cost-Effective Fighter Plane

SAAB Aeronautics

Challenge:

Creating a hardware-in-the-loop system based on commercial off-the-shelf equipment for testing LRUs in their Gripen E aircraft.

Solution:

Using LabVIEW, CompactRIO and SLSC to develop a full HIL system to test airplane's LRUs.

Proficiency leads to success





Innovation



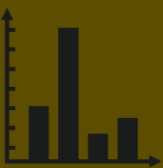
Customer Loyalty



Profitability



Employee Retention



Market Share

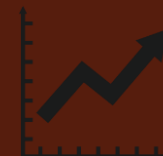


Reduce Costs

Student Experience



Share of Wallet



Reliability



New Customers



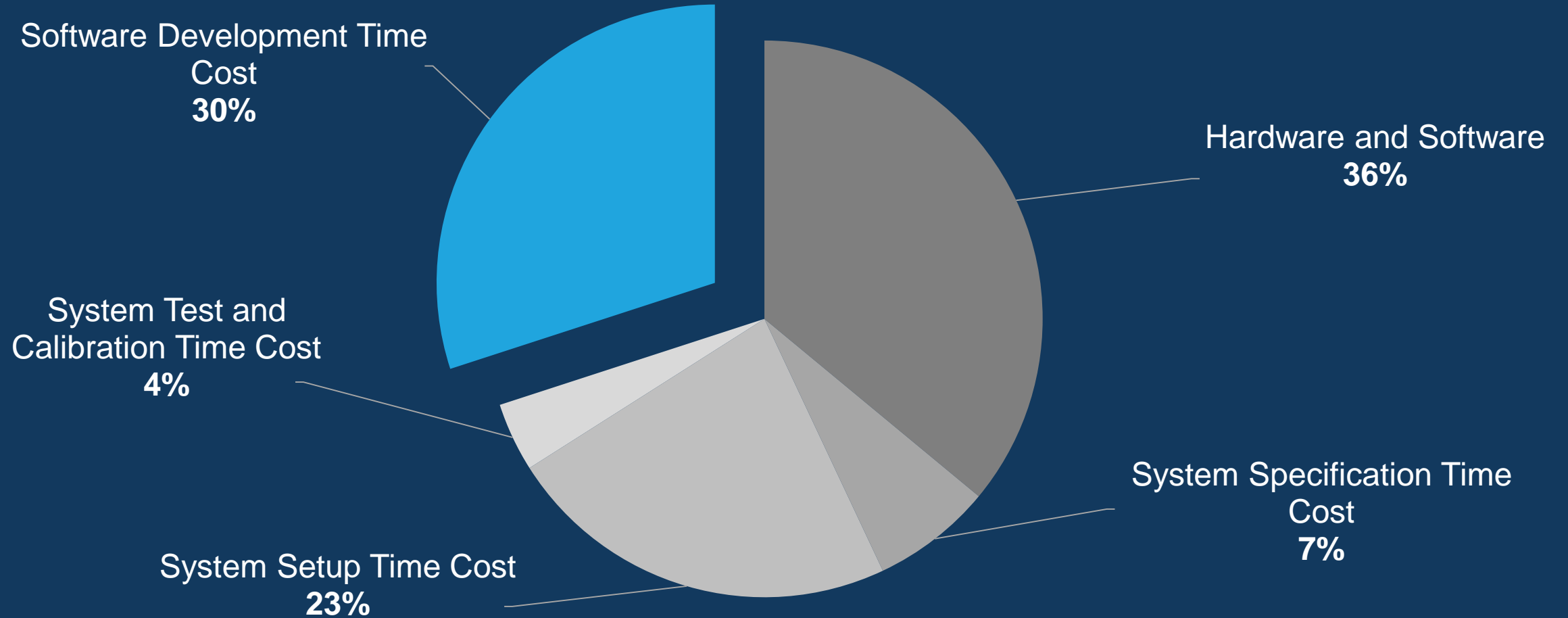
Customer Service



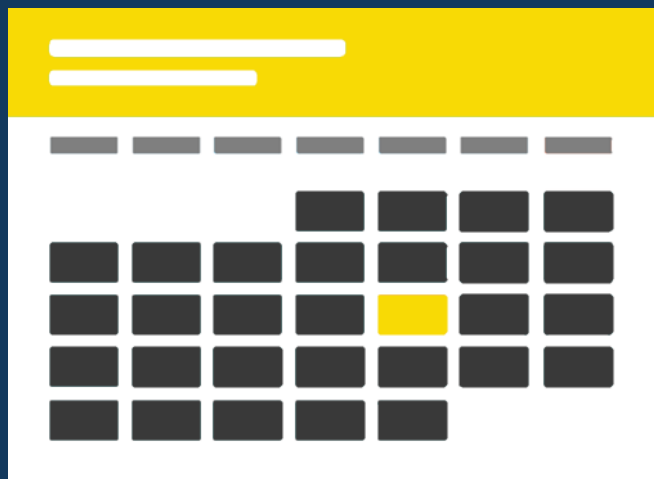
Productivity



Reduce Costs



But Developer Days only happens once a year



Accelerate Learning. Promote Accomplishments.

Badge Program



Learn

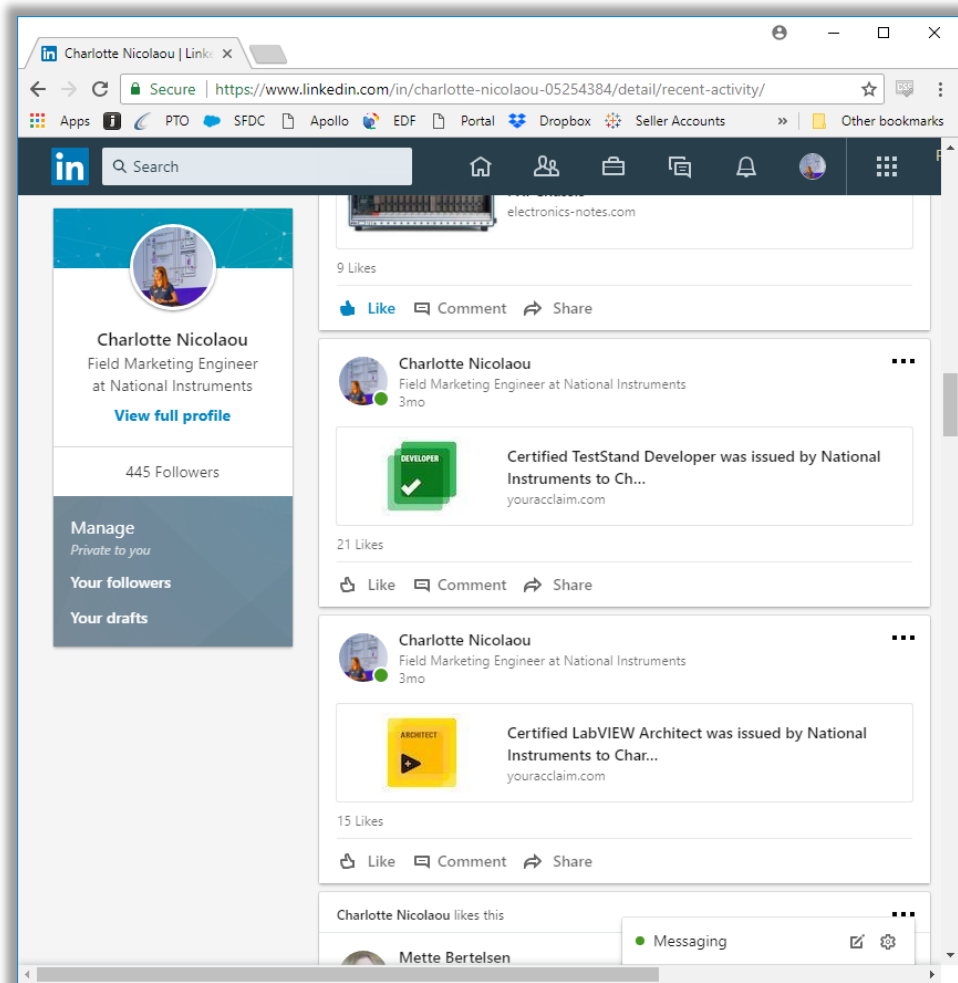


Test



Promote

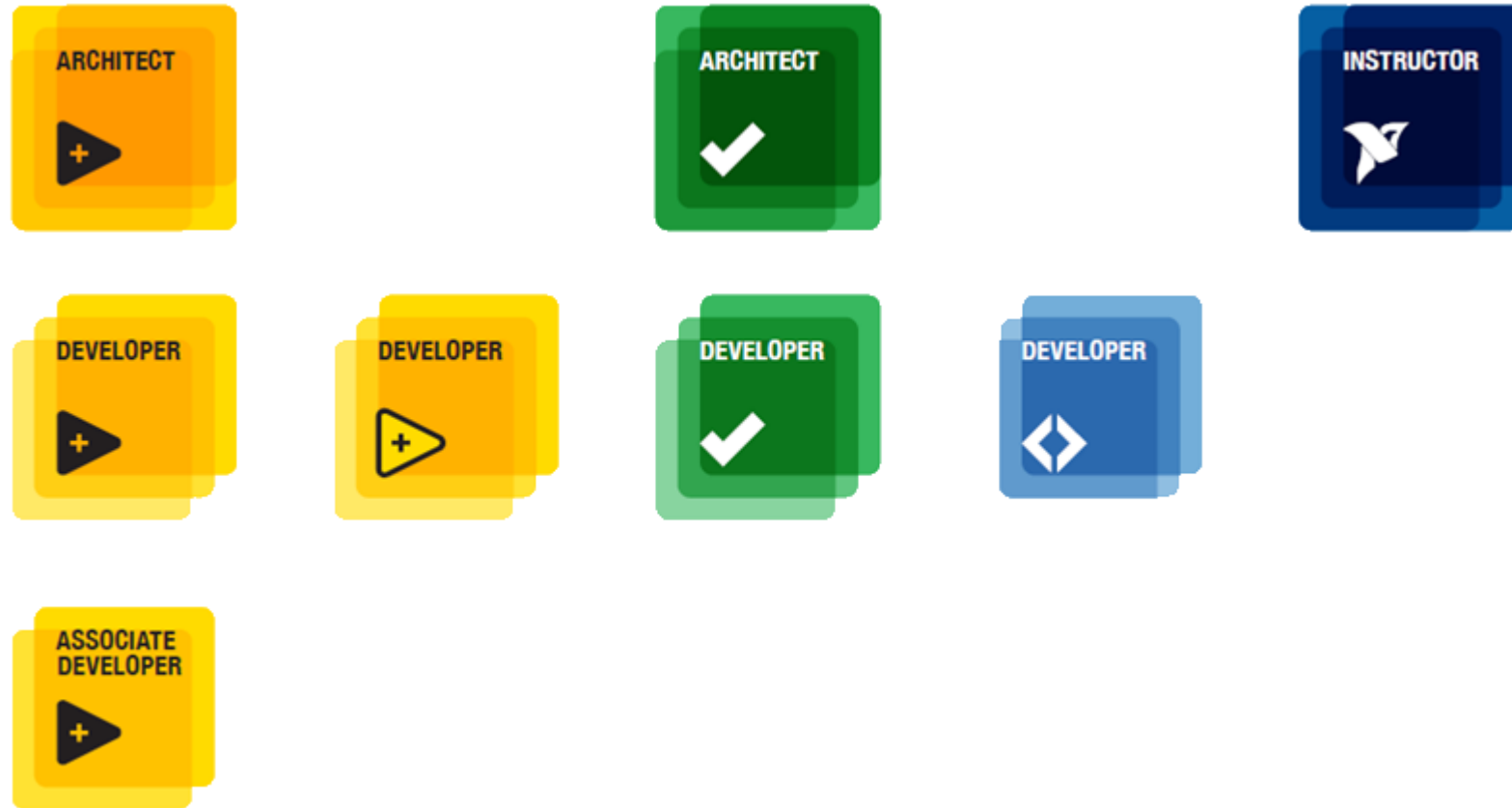
Badge Program



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Professional Certification



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- **Correctly answer 85%** of the 15-20 questions
- Send your passing score to northern.europe.training@ni.com
- Receive your discount

User Groups



Learn New Trends



Get Help



Develop Best Practices



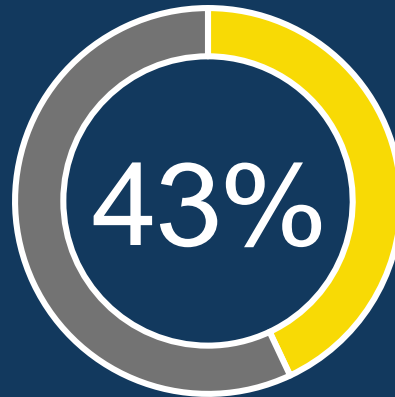
Network



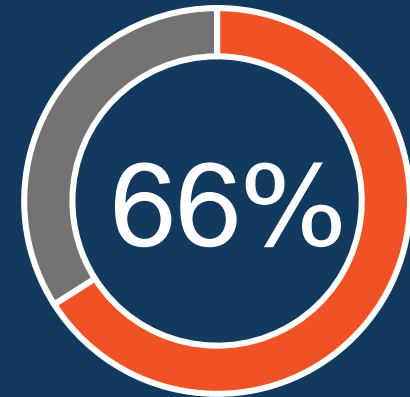
Training Courses



Quicker
Development Time



Less Time
on Maintenance



Faster
Learning Time

Training Prize Draw



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Visit **ni.com/labviewcoe** for more information.

Align on a plan to integrate new techniques into your unique workflow

Undertake an iterative process of learning about new skills and techniques

Execute a self-assessment across all team-based proficiency areas to identify gaps in process and skills

LabVIEW Community

forums.ni.com



ASK



CONNECT



SHARE

Other Proficiency Events



CLA Summit 2018



L3 Technologies



9X

Code Reuse Across
Similar Products



80%

Improvement in
Development Times



50%

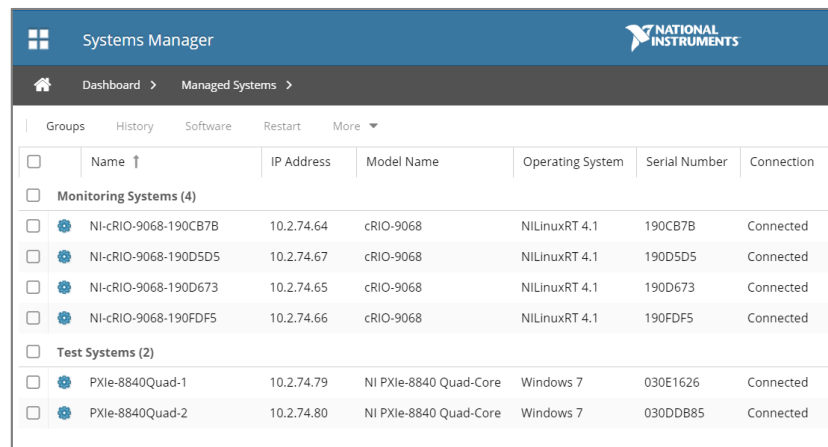
Reduction of Beta
Test Downtime

NI News



SystemLink™

Web Application



	Name ↑	IP Address	Model Name	Operating System	Serial Number	Connection
Monitoring Systems (4)						
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<input type="checkbox"/>	NI-cRIO-9068-190D5D5	10.2.74.67	cRIO-9068	NI Linux RT 4.1	190D5D5	Connected
<input type="checkbox"/>	NI-cRIO-9068-190D673	10.2.74.65	cRIO-9068	NI Linux RT 4.1	190D673	Connected
<input type="checkbox"/>	NI-cRIO-9068-190FDF5	10.2.74.66	cRIO-9068	NI Linux RT 4.1	190FDF5	Connected
Test Systems (2)						
<input type="checkbox"/>	PXIe-8840Quad-1	10.2.74.79	NI PXIe-8840 Quad-Core	Windows 7	030E1626	Connected
<input type="checkbox"/>	PXIe-8840Quad-2	10.2.74.80	NI PXIe-8840 Quad-Core	Windows 7	030DDB85	Connected

Server

Managed Systems



CompactRIO with NI DAQmx Support

Combine the ease-of-use DAQmx programming with the low-level functionality of LabVIEW FPGA



ATE Core Configurations

Core Mechanical, Power, and
Safety Infrastructure for ATE



FieldDAQ

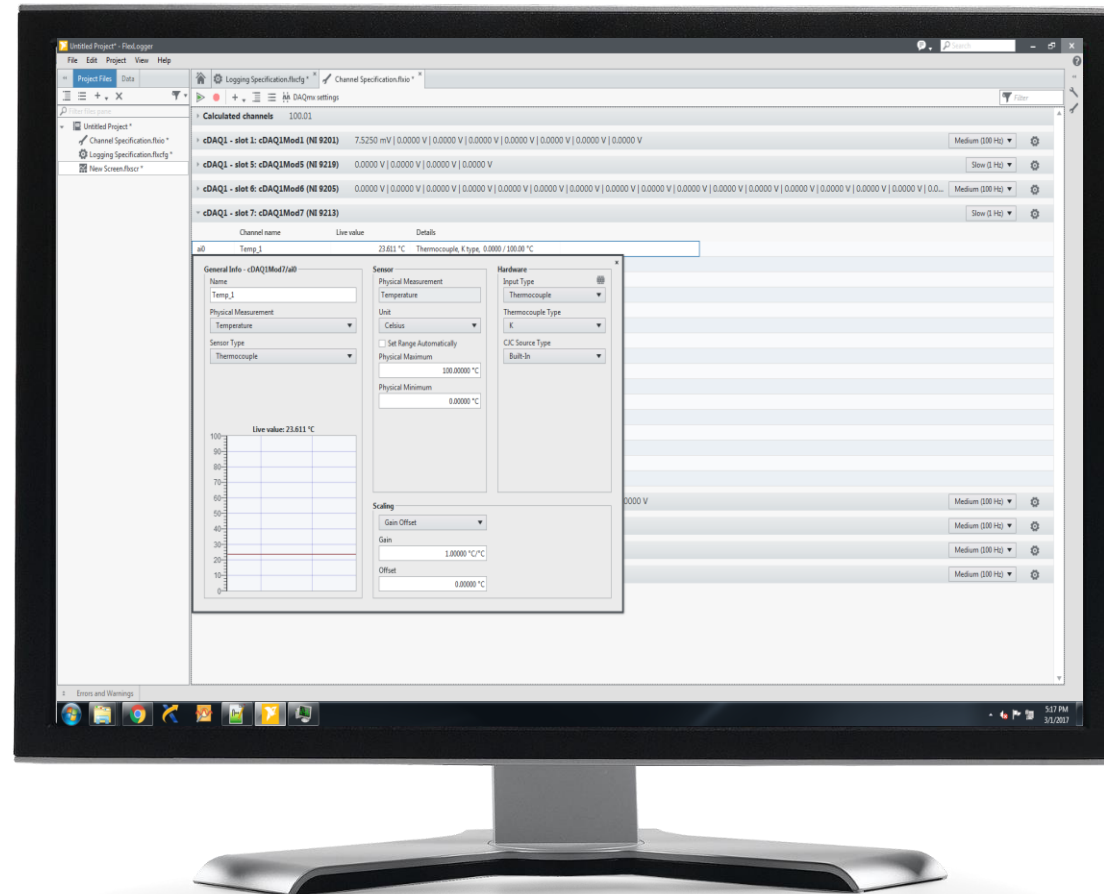
Rugged, IP67 and IP65 rated distributed data acquisition devices

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FlexLogger™

Configuration based software to quickly acquire and log data from sensors



Instrument Studio

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