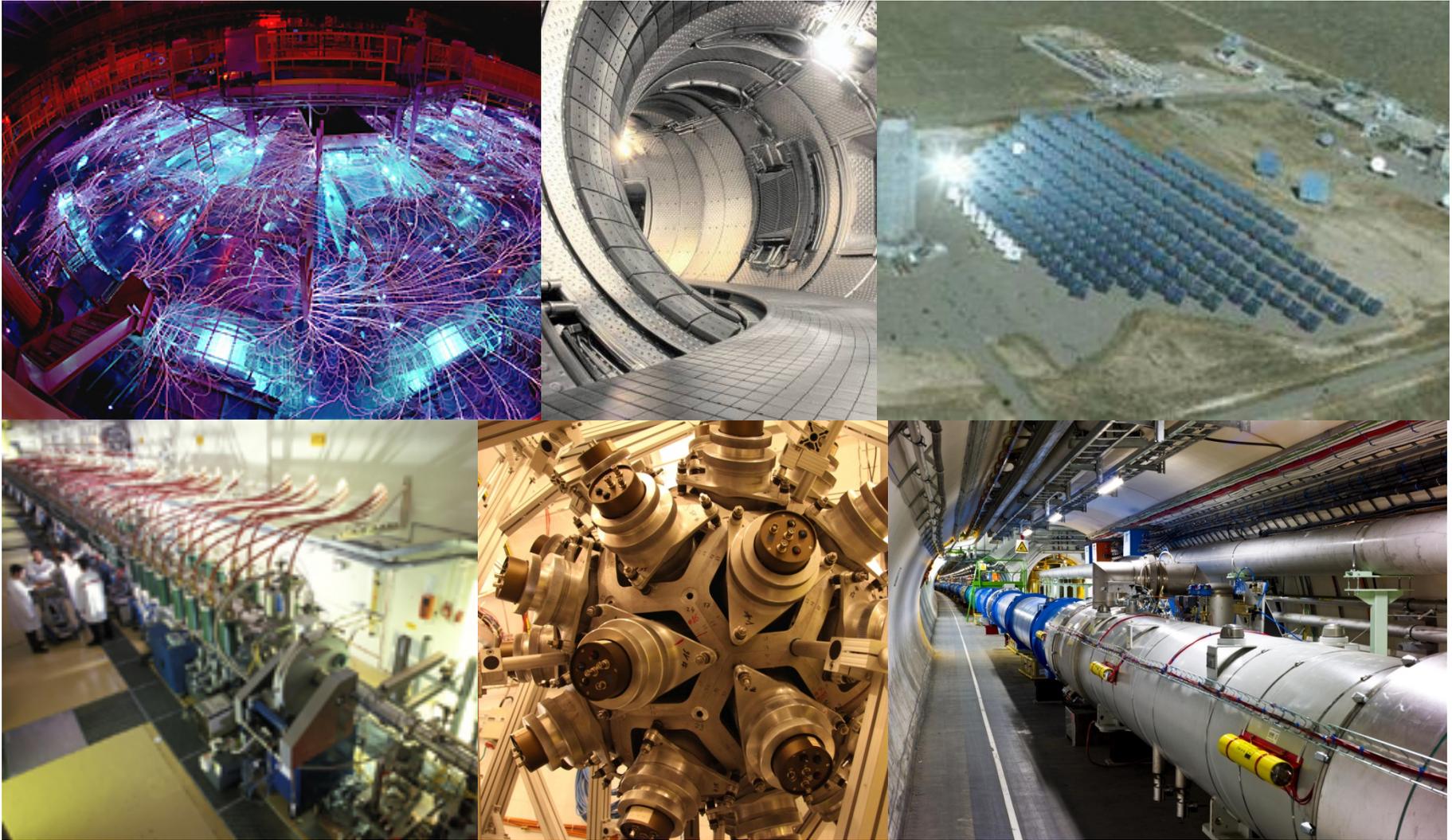


Agilent Software Solutions for Multichannel Single-shot Experiments

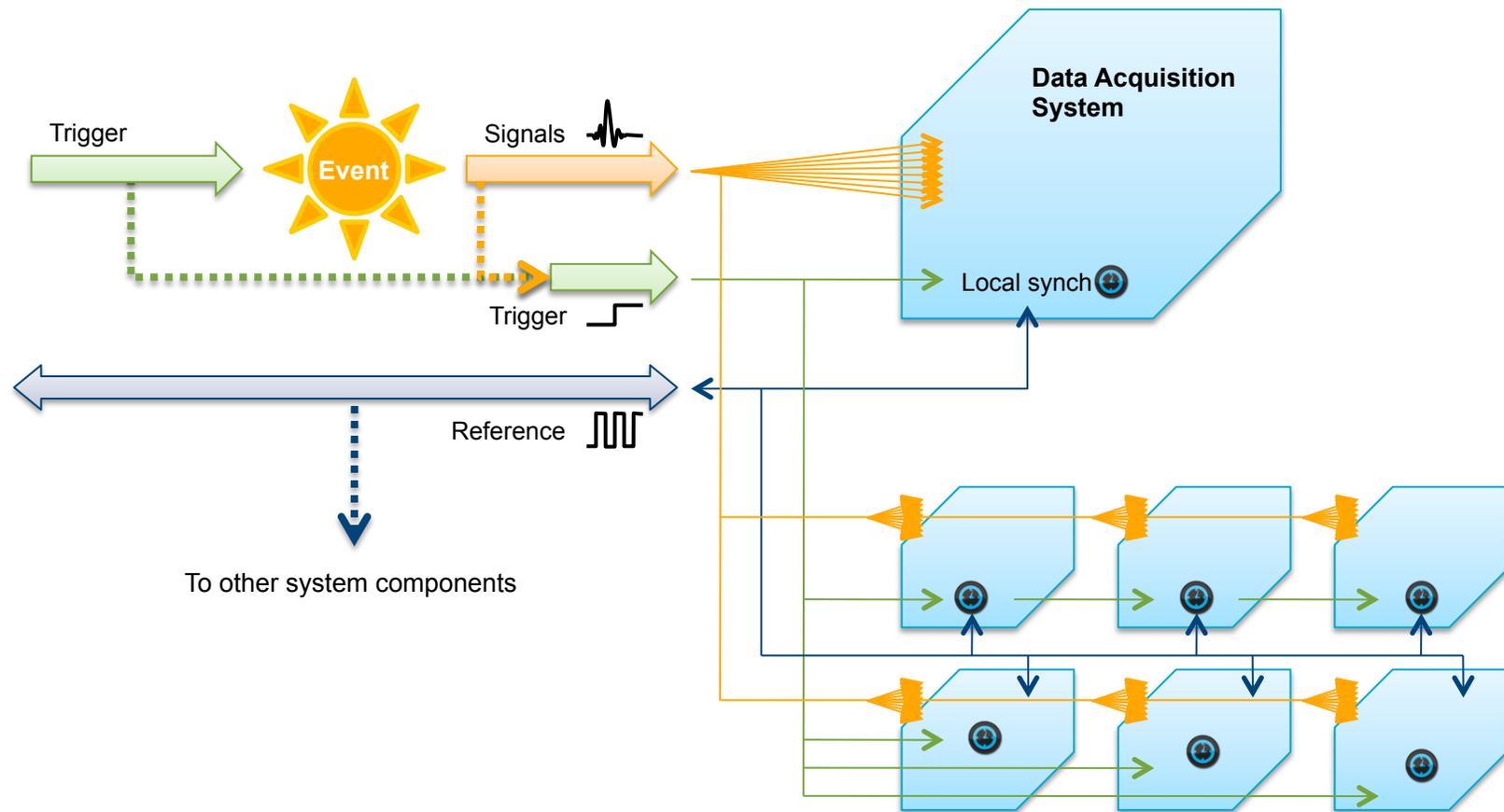
Richard Soden B.Eng. Ph.D.
Application Engineer
Agilent Technologies



Agilent's Background in Multichannel systems

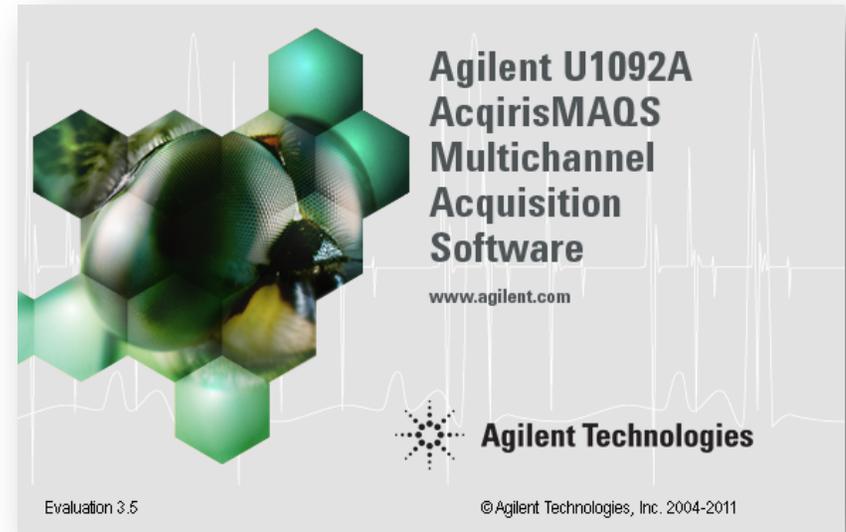


Typical Digitizer configuration in High-speed Single-shot Experiments



AcqirisMAQS

Turnkey software for control and visualization of 10's to 100's of data acquisition channels



- **Single-station license:** creates both client and instrument server in one controlling PC, and allows the control a single acquisition system with tens to hundreds of data acquisition channels.
- **Distributed master and monitoring license:** allow client-server control and monitoring of multiple data acquisition systems from multiple locations simultaneously, and to access test systems located at dispersed sites.
- **Multi-station, single-shot master and monitoring license:** provides the full functionality of the AcqirisMAQS software, including data security, that can be installed on unlimited clients and servers at the licensed site.

Agilent Acqiris Instrument Server

Server ready on 2CE0090G6L (148.5.21.240)

Instruments	Clients
Slot 0	
Slot 17: DC271 s/n 240010200	
Slot 17: DC271 s/n 240010200	
Slot 17: DC271 s/n 240010200	

Name	Full Scale	Offset	Coupling	Impedance	BWL	Data Readout	Active Channels
DC271 240010200:ch1	1 V	0 V	DC	50	0 Hz	On	Ch1:Ch2:Ch3:Ch4
DC271 240010200:ch2	1 V	0 V	DC	50	0 Hz	On	Ch1:Ch2:Ch3:Ch4
DC271 240010200:ch3	1 V	0 V	DC	50	0 Hz	On	Ch1:Ch2:Ch3:Ch4
DC271 240010200:ch4	1 V	0 V	DC	50	0 Hz	On	Ch1:Ch2:Ch3:Ch4
DC271 240010200:ext1	1 V	...	DC	50	0 Hz	On	Ch1:Ch2:Ch3:Ch4
DC271 240010200:ext2

Data Security in non-Repeatable Experiments

Priorities for the data acquisition system:

- Management of the system configuration
- Confidence that if a trigger arrives to the digitizer, the signal to be recorded *will be* recorded = **Data Acquisition Safety**
- Confidence that the recorded data will be correctly retrieved from the digitizer memory = **Data Integrity**
- Fail-safe operation

- **Multichannel GUI**
- **Software and controller independence once ARMED**
- **Battery backup, memory protection and data recovery, hot-swap controllers,...**



Hardware Supported in AcqirisMAQS

- Agilent Acqiris Digitizers and TDCs
- 3rd party Digital Delay Generator (GFT1208)
- NEW Agilent 90000 Oscilloscopes (through IVI Scope)
- NEW Agilent AXIe Digitizers



Thank you

For more information visit

www.agilent.com/find/modular

or

www.agilent.com/find/acqirismaqs

