Panel Session 6

New Instrumentation for PHM

Sponsored by



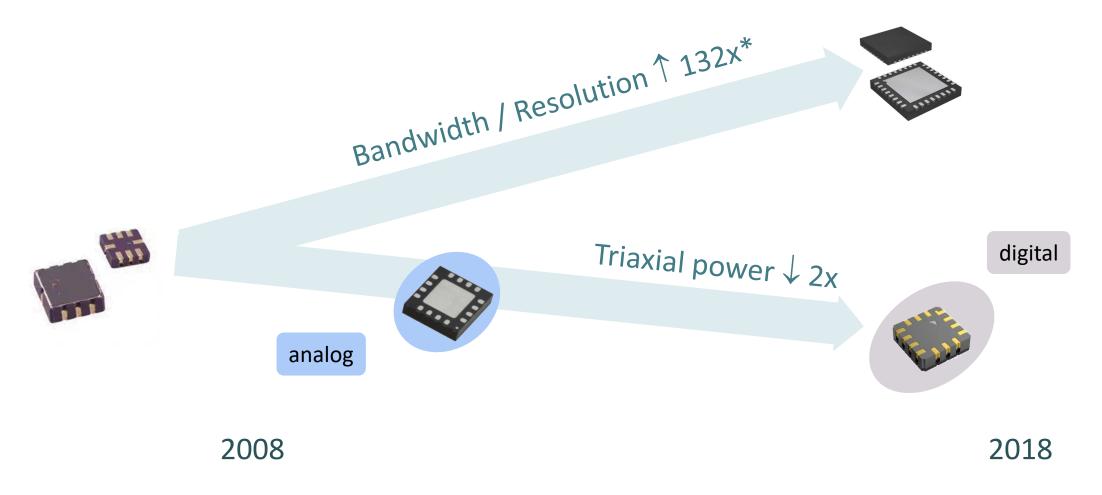
Annual Meeting of the PHM Society

Philadelphia, PA

September 26th, 2018



MEMS Accelerometer Performance Improvements



^{*}Accelerometers with high frequency response, at least 10kHz +3dB bandwidth



The *Digital* Condition Monitoring Sensor...

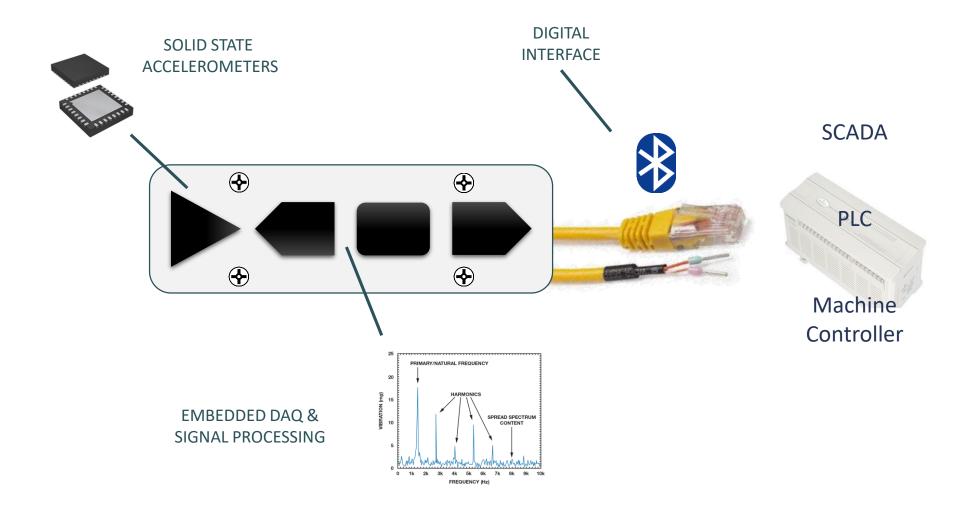


Exhibit A: The Explosion in Wireless (*Digital*) Sensors

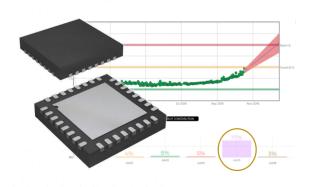






2010 2018

IIoT Technologies applied to Condition Monitoring





MEMS accedes conginees and bipproaches higher levels of integrations accuracy smaller for chald to redictive insights digital interface



Wireless Networks

Lower deployment costs for continuous on-line monitoring



Data dashboards

Cloud or server based data visualization and analysis

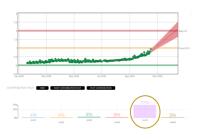
Development Process for New Machine Health Solutions...











Assessment SME Engagement

Data Acquisition

New Health Indicators

New sensor development



Monitoring, Diagnostics and Prognostics





















The Machine Instrumentation Group

A collaborative network of services to support development of a Machine Health program

Our mission is to implement condition monitoring solutions for machine health problems that resist traditional technologies...

- Data engineering for Health Indicator development
- Data analysis platforms
- Field instrumentation
- Sensor definition, design and build





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Thank you!

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