



NPL Footbridge Project and Sensor Networks Advanced Data Analysis

National Physical Laboratory

7th December, 2012

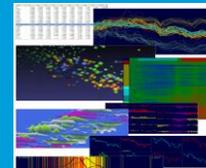


Are you monitoring your assets?
Are you using SHM systems?

We want to hear from you
We value your input
You are invited to take part in
a panel discussion

What to do with the data?
How reliable is the information?
Do you need the answers?

We may be able to help
We can share information
We can learn and develop together



Advanced data analysis competition based on footbridge data
Call for further collaboration

To register free: www.npl.co.uk/events

For more information: elena.barton@npl.co.uk



**NPL footbridge – SHM demonstrator
2009 - 2012
21 technologies
over 40 partners and contributors**

History:

- 2010: Introduced damage concrete removal / rebar cut**
- 2011: CFRP and concrete repair patches design and sensing techniques**



Main challenges:

- Performance evaluation of sensing technologies**
- Reliability of data, calibration and uncertainty**
- Advanced data analysis**

Possible solutions

- Data to knowledge and information: Sensor fusion, Data mining, Statistical learning, Pattern recognition**
- 21st century data management: Sensor Networks and Cloud computing**

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