

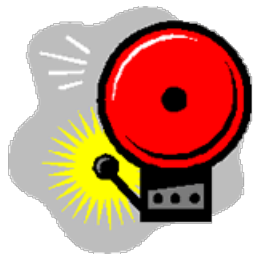
A Multi-Disciplined Approach to Sensors and Data

Richard Curtis
Opus Research



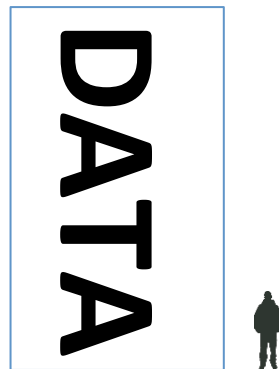
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- Measure civil infrastructure
- Measure a vast array of things
- Measuring or Monitoring?



Data

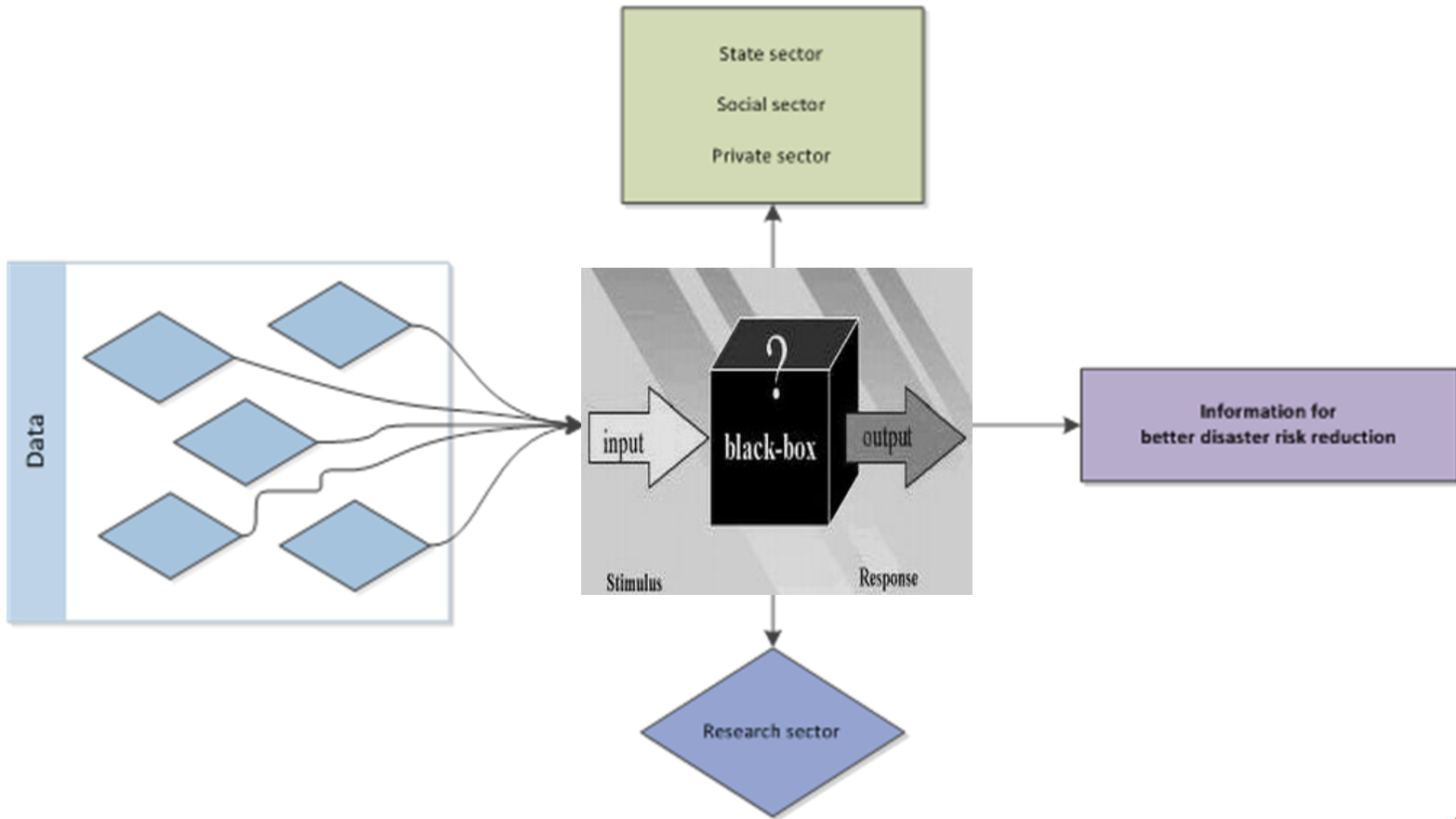
- BIG Data – in the trough of the Hype Curve



- What / how much data do you want to capture?
 - Depends on what you want to know.



Data



And what do you do with it?

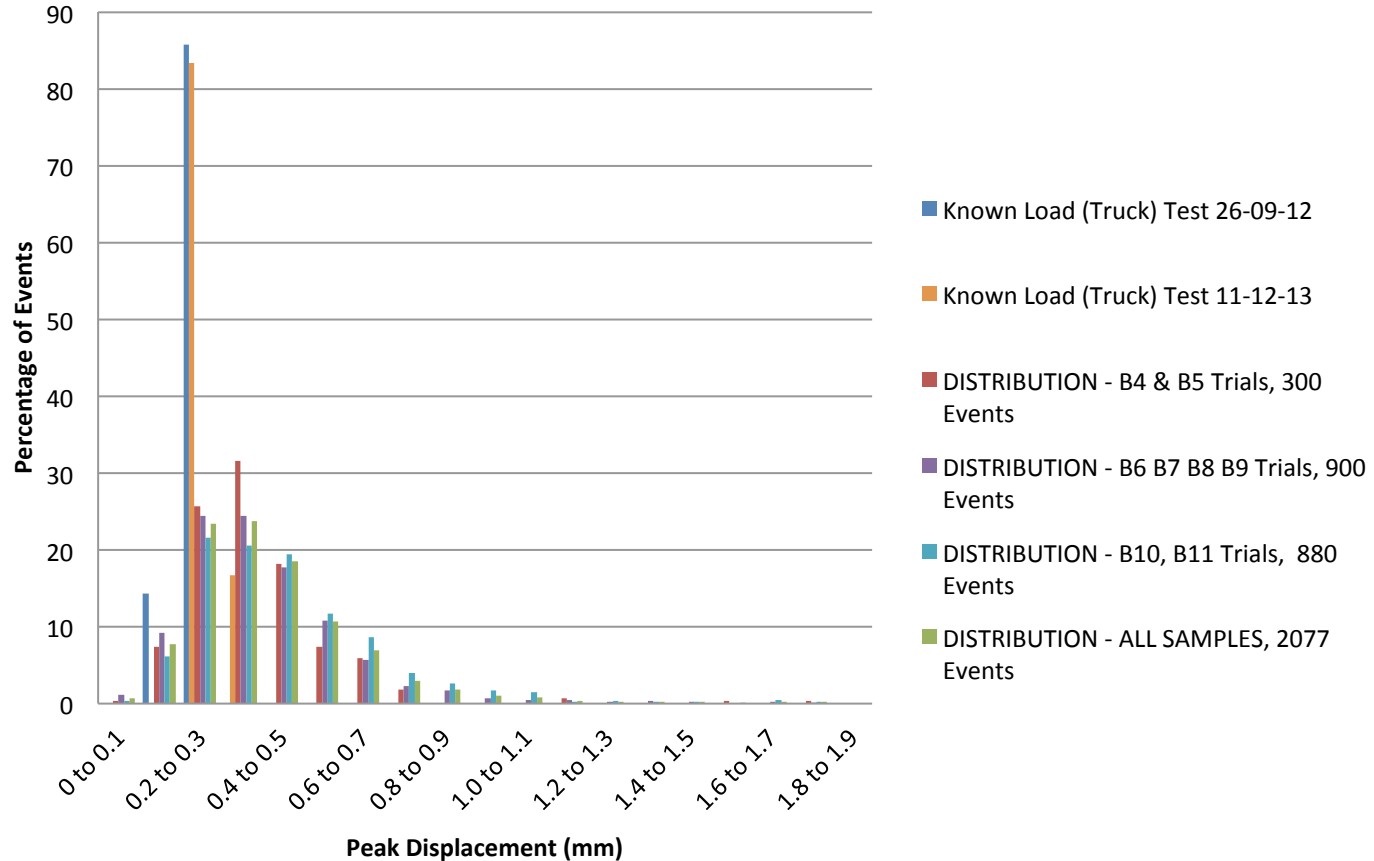
- Already a lot of data out there that is simply not mined for its value - clever uses of existing data?
- Monitoring an asset can be about both its performance/structural integrity, and how people use it.



Distribution of Peak Vertical Displacements

Calculated from accelerometer data (2077 Events)

Span R-S



Add People

.....and it just gets more interesting

- Fit for purpose design
- Using data to better understand the wider implications of people's behaviour in relation to assets.





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