Data as a journey, not a destination



Didem Gürdür Broo, Ph.D.

University of Cambridge Department of Engineering
Civil Engineering Building, JJ Thompson Avenue 7a, Cambridge CB3 0FA
E-mail: dg580@cam.ac.uk

Presented at the 15th MODPROD Workshop 3-4th February, Linköping, Sweden; www.modprod.org





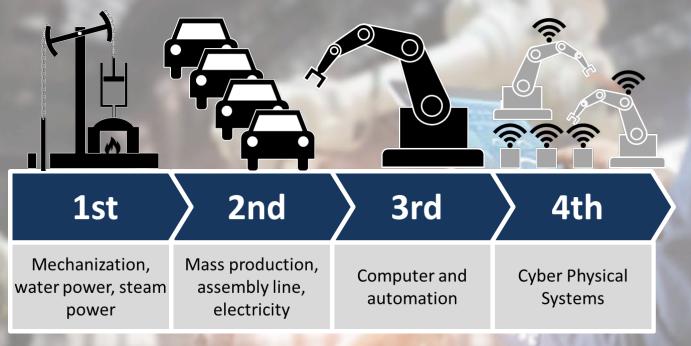




Agenda

Discussion points from the presentation

How did we come here? Some examples of cyber-physical systems What is this weird thing called data? Many dilemmas of the data How can we do better? - Three mindsets



Christoph Roser at AllAboutLean.com

Industry 4.0

WHAT HAVE I LEARNT WHILE WORKING WITH THESE SYSTEMS?



DATA

Big Data: Too Man-3, Not Wiki edit bots engage in long-term feuds

With Big Data

When B

Why Machine Learning and Big Data are NOT the answer to all your business

The number of uyo.

Why big data isn't always the answer marter?

Why so many

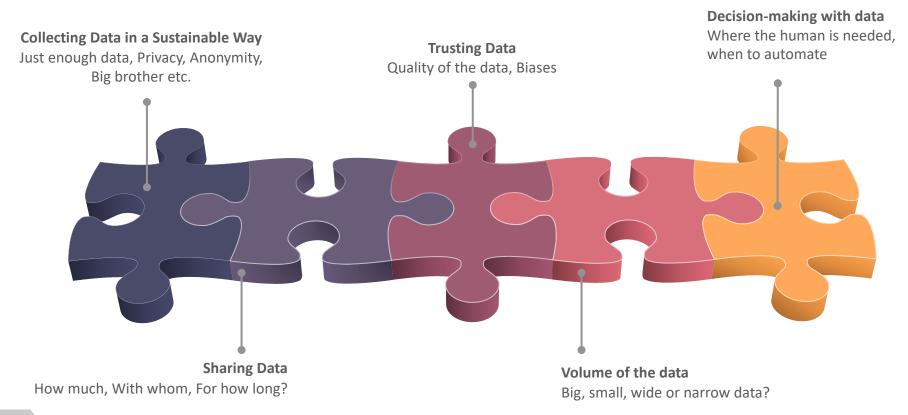
unprecedentea

Qualitative data can provide deeper insight into customers, behav

.. with access to

nical dilemmas

FIVE DILLEMAS OF DATA



HOW CAN WE DO BETTER?

How to deal with the data-related challenges to operationalize data better?

Mindset shift:

Design for people, with people.
Future-oriented thinking.
Interconnected systems of systems
perspective.

Digital capabilities:

Data is the first step: data analytics, artificial intelligence, emerging technologies, interoperability.

Better processes:

Data management procedures for better availability, accessibility, quality, heterogeneity and longevity.

Organisational structures:

Data as the core of design, development, operation and integration; and new skill sets.

THANK YOU



Didem Gürdür Broo, Ph.D.

University of Cambridge Department of Engineering
Civil Engineering Building, JJ Thompson Avenue 7a, Cambridge CB3 0FA
Tel: +46764278546 | E-mail: dg580@cam.ac.uk





