Open data challenges and opportunities in research

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Sir Tim Berners-Lee, inventor of the web, tweeting from middle of the 2012 Olympics
Catalyzing open data culture

Reach
- Capacity
- Standards
- Start-ups

Impact
- Training
- Research
- Development

Engagement
- Structured evidence
- Inspiring stories
- Events and Membership

Engagement
“A piece of data or content is open if anyone is free to use, reuse, and redistribute it — subject only, at most, to the requirement to attribute and/or share-alike.”

https://github.com/theodi/data-definitions

http://opendefinition.org
The first **robust quality badge** for open data
- Helps publishers certify their data
- Helps users find and use it
- Helps others benchmark it

http://certificates.theODI.org
High quality open data is critical

**Expert**
An exceptional example of information infrastructure.

**Standard**
Regularly published open data with robust support that people can rely on.

**Pilot**
Data users receive extra support from, and can provide feedback to, the publisher.

**Raw**
A great start at the basics of publishing open data.
Social, Environmental and Economic

Population
Education
Health
Crime and Law
Housing
Transportation
Media & publications
User-generated
Personal data-shadows

Maps / geographic
Terrain / land-use
Weather / climate
Water / hydrographic
Farming / species
Pollution / ecosystems
Materials / resource scarcity

Corporate ownership / tax
Public sector transactions
Peer-to-peer lending
Open procurement
Market information (e.g. commodities)
Asset registers (e.g. stranded assets)
Supply-chain transactions
Personal spending
On-going research and early partnerships

• Open data for safer smarter cities
• Commercial research into use, reuse and sharing of open data
• FP7/EU collaborations – capturing the state of the market and making it easier for SME’s to engage
  – OpenDataMonitor
  – Data and Platform as a Service
• We publish all research openly
£200m potential saving identified in 6 weeks

Helped convene domain-experts
  + health & data analytics
  + communications

Analysed 35m records
  + all the data & clinical facts

National & international reach
  + Economist & FT
  + broadsheets & tabloid press
  + cited in G8 & govt. reports

Long-term
  + £100k now raised for phase 2

Scalable to £1bn

http://PrescribingAnalytics.com
£378m of peer-to-peer lending across the UK

Helped convene domain-experts
+ p2p lenders
+ banking professionals
+ analytics and viz (ODI & Iconomical)
+ communications (ODI)

Analysed 14m records
+ all the data
+ anonymised and analysed
+ ODI research

International reach
+ Front-page Financial Times

Long-term
+ Create real-time view
+ Stimulate market

http://smtm.labs.theodi.org/
Research we are interested in

• Commercial insights
• Research and Development
• Bleeding edge - making publication, use and dissemination of open data easier for all!

Contact us: http://theodi.org/research
(pictured from left clockwise: Dr Tom Heath, Ulrich Atz, Community Mgr hire)