Building a Data Economy: Access for Public Bodies to Privately Held Data

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Data -- and the ability to make sense of it -- are arguably the most valuable assets in the digital economy. Where possible, its use should be voluntarily encouraged for economic and social benefits.
Mobile data brings value for public good and positive social impact in a variety of areas.
Pioneering data sharing

2012 - 2015

Exciting Results...
Pioneering data sharing

2012 - 2015

Exciting Results...
Framework for Data Sharing

Security
Secure access to the data

Remote Access

Limited License

Question and Answers

Pre-computed Indicators & Synthetic Data

Anonymization
Limited or aggregated data release

Exploratory
Low to medium number of users

Development

Applicative
Medium to large number of users and open data

Secure access to the data

Yves-Alexandre de Montjoye (MIT, Harvard), Vincent Blondel (Louvain), Geoffrey Canright (Telenor), Nicolas de Cordes (Orange), Sébastien Deletaille (Real Impact Analytics), Kenth Engo-Monsen (Telenor), Sebastien Gambs (INRIA), Manuel Garcia-Herranz (UNICEF), Jake Kendall (Gates Foundation), Cameron Kerry (MIT Media Lab, Brookings, Sidley), Gautier Krings (Real Impact Analytics), Miguel Luengo-Oroz (UN Global Pulse), Nuria Oliver Ramirez (Telefonica), Zbigniew Smoreda (Orange Labs), Eric Wetter (Flowminder), Alex “Sandy” Pentland (MIT), Linus Bengtsson (Flowminder)
Ongoing Large-Scale Efforts
Multi-stakeholder Network of Data Champions representing data producers and users to harness the data revolution for sustainable development.

GSMA LAUNCHES BIG DATA FOR SOCIAL GOOD INITIATIVE

February 27, 2017 | Press Release

Backed by 16 Operators Accounting for 2 Billion Connections in Over 100 Countries; Pilots Set to Launch in June 2017 in Bangladesh, Brazil, India, Myanmar and Thailand

Barcelona: Today at Mobile World Congress, the GSMA launched the “Big Data for Social Good” initiative, which will leverage mobile operators’ big data capabilities to address humanitarian crises, including epidemics and natural disasters. The programme is being launched with 16 of the world’s leading mobile operators – Bharti Airtel, Deutsche Telekom, Ericsson, Grameenphone, Orange, Pantelion, Reliance Jio, Telcel, Telenor, Telenor Pakistan, Tanzania Telecommunications Company Limited (TTCL), Telenor Myanmar, Telenor Thailand, Telecom Italia, Vodafone, and Viettel – and leading technology providers including IBM, Mapbox, and Microsoft.
Big Data for Social Good” initiative, which will leverage mobile operators’ big data capabilities to address humanitarian crises, including epidemics and natural disasters.

The United Nations Foundation is a supporting partner, providing coordination and integration with the broader ecosystem, including organisations such as Global Partnership for Sustainable Development Data (GPSDD) and the Digital Impact Alliance (DIAL).
At #MWC16, the mobile industry committed to support the UN Sustainable Development Goals.
A major goal of the Big Data for Social Good initiative is to develop scalable, common processes and mechanisms and build an ecosystem to support timely planning and response to crises. To support this, the GSMA will be establishing a code of conduct designed to ensure that all activity undertaken adheres to strict privacy regulations. Further, the GSMA is working to standardize the process, leveraging common algorithms and processes to generate insights, as well as defining de-facto standard output formats for sharing insights and mechanisms for delivering insights.

Public Health: The objective of the multi-operator pilot is to develop common capabilities to monitor, alert, predict and manage the spread of diseases that, if unaddressed, could create epidemics.
Data-Pop Alliance is a global coalition on Big Data & development created by the Harvard Humanitarian Initiative, MIT Media Lab, and Overseas Development Institute joined by Flowminder, bringing together researchers, experts, practitioners and activists to “promote a people-centered Big Data revolution” by locally co-designing and deploying collaborative research, training, and engagement activities.
OPAL is a techno-political platform that aims to leverage data for development by **unlocking** the potential of private data for **public good** in a **privacy-conscientious, scalable, socially and economically sustainable** manner.
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Secure Modules
- Data ingestion
- Database
- Algorithm Execution
- Q&A client
- Aggregation
- Auditing & billing

Privacy
- Data aggregation
- Secure communications
- Permissions & audits
http://opalproject.org/
Ongoing collaboration with mobile operators (including Vodafone) to use aggregate and pseudo-anonymized mobile data to better inform UK policy making in e.g. transport, population, industrial strategy, emergency services, public health...
Guiding Principles
We don’t think there is a need for regulatory intervention on access for public bodies to privately held data. We should leverage existing best practices, educate and realize any opportunities via a voluntary approach taking into account the considerations enumerated in the next slide.
Any data sharing approach will need to be legally compliant, socially acceptable, commercially and financially viable, technically feasible and sustainable over time.