

The Future of Big Data in the Philippines

Philippines Data Festival, Nov 16 2018

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European Commission Expert Advisory Group

Commission and its priorities

Policies, information and services



European Commission > Strategy > Digital Single Market > Policies >

Digital Single Market

POLICY

Guidance on private sector data sharing

Data-driven innovation is a key enabler of growth and jobs in Europe. The importance of data collected online and generated by the Internet of Things (IoT) objects, and the availability of big data analytics tools and artificial intelligence applications are key technical drivers.



Flowminder (non-profit): Track-record of applied work with mobile operators and international, government agencies

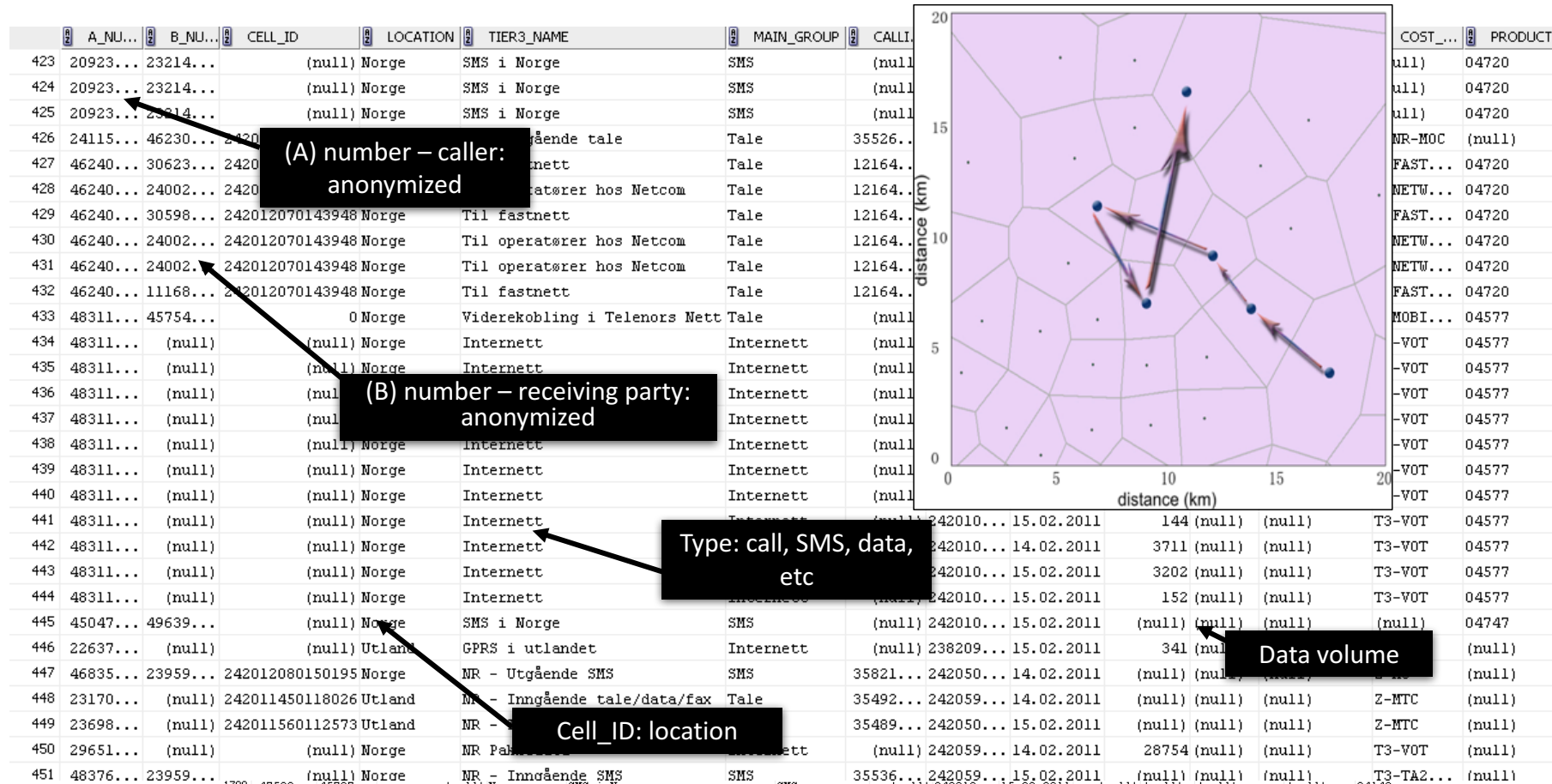
Sample collaborations and donors:



Partners on data, privacy and regulatory issues.



Mobile network data: Call detail records (CDR)



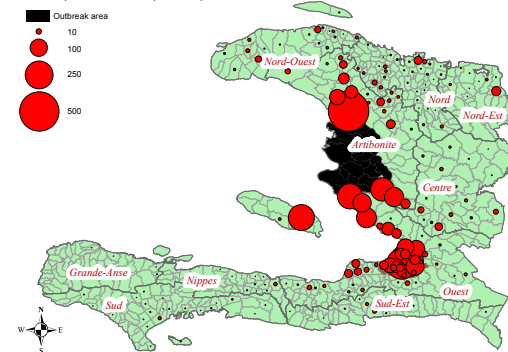
Pioneered anonymized mobile network data for crisis response: 2010 Haiti earthquake & cholera outbreak



Digicel HQ day after the earthquake

Digicel
haiti

Average daily numbers of sims that moved out from the communal sections surrounding Saint-Marc, Oct 15 to Oct 23, 9:00 am, 2010.



GLOBAL UPDATE

Haiti: Cellphone Tracking Helps Groups Set Up More Effective Aid Distribution, Study Says



The New York Times



theguardian

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Nepal earthquake
2015

Kathmandu daily exodus may reach 300,000 as residents flee chaos

More than 100,000 have already left the badly damaged capital of Nepal, heading for distant regions to escape the threat of aftershocks, lawlessness and disease

Nepal 2015 earthquake: rapid analyses 14 days after quake

FLOWMINDER.ORG



Nepal Population Estimates as of 27th May 2015

Pre-earthquake population

2.8m

Population outflow
(above normal)

+340,000
(200,000 ~ 480,000)

Population inflow
(above normal)

-150,000
(-90,000 ~ -210,000)

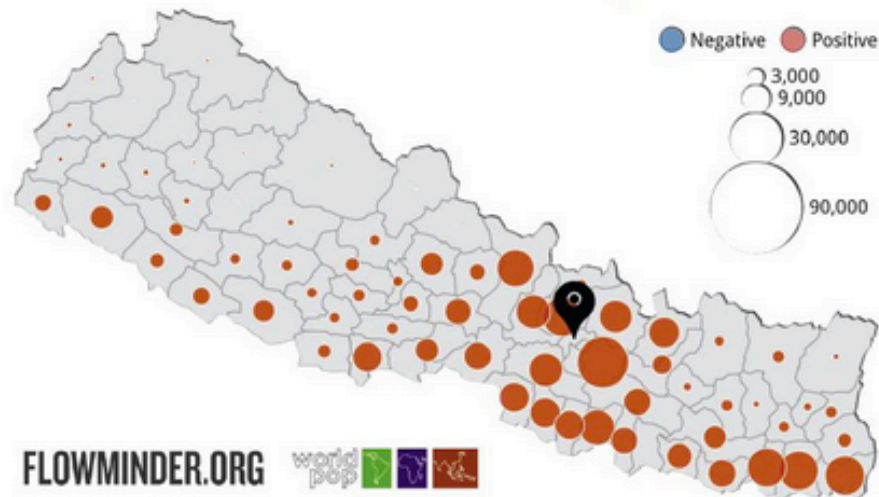
2. Kathmandu Valley

Kathmandu Valley is here defined as the districts Kathmandu, Bhaktapur and Lalitpur. Kathmandu Valley. Kathmandu Valley is home to 2.8m people under normal conditions [1].

Key findings:

- An estimated 340,000 people more than normal had left Kathmandu Valley - comparing 23rd-27th May with 20th-24th April (ratio to the population 12%).
- An estimated 150,000 persons less than normal had come into Kathmandu Valley during the same period (ratio to the population -5.3%).
- People leaving Kathmandu Valley went to a large number of areas, notably the populous areas in the south and the Central and West Development Regions.

Above normal flows from Kathmandu Valley to other districts



Above normal flows from Kathmandu Valley to other districts
(comparing 23rd-27th May and 20th-24th April).

[1] www.worldpop.org



29 May - 5 June 2015 #760

Nation

Where are we?

Ncell partners with Flowminder to track movement of Nepalis post-earthquake

Ayesha Shakya

Nearly 400,000 people left the Valley in six days after quake: Study

More than 390,000 people left Kathmandu Valley after the devastating earthquake of April 25. This is what a study report pre-

during period shifted to large number of areas, notably the populous areas in the southern, central and western development re-

In Sindhupalchowk, the most affected district, an estimated 15,000 people (which is more than the normal inflow) had arrived at the district in the review period. Travel to Kathmandu went down drastically and out of the people leaving the district, many went to Kavrepalanchowk, with lesser number also going to Sarlahi, Siraha, Jhapa and Nuwakot.

An estimated 41,000 individuals went to Gorkha, the epicentre of April 25 earthquake, during the review period. Meanwhile, an estimated 10,000 people visited the district of Tanahun. The number of people in most of the major cities

aSonera said that Ncell was providing customer macro data to the Flowminder that processes the data to better understand population displacement and mobility patterns pre- and post-quake. Nepal has 23 million mobile phone subscribers out of a population of 27 million people and Ncell claims to have 46 per cent market share.

Earlier, Flowminder, which pioneered analysis of mobile network data to support responses to natural disasters and epidemics, had used the same technique

The Himalayan

Landslides and Displacement Situation Update

27 August 2015



 Nepal Earthquake
Assessment Unit

This report is an update of the 'Landslide and displacement update' of 27 July 2015. The main objective of this note is to provide an overview of the current situation and limitations of the available data.

Overview

2.33 million people not living in original house

REACH/Shelter Cluster Assessment 17/05/2015

59,500 people in 104 sites >20 HH

CCCM DTM 21/07/2015

Almost **80,000** people relocated due to landslide risks

Media sources 17/08/2015



QCHA



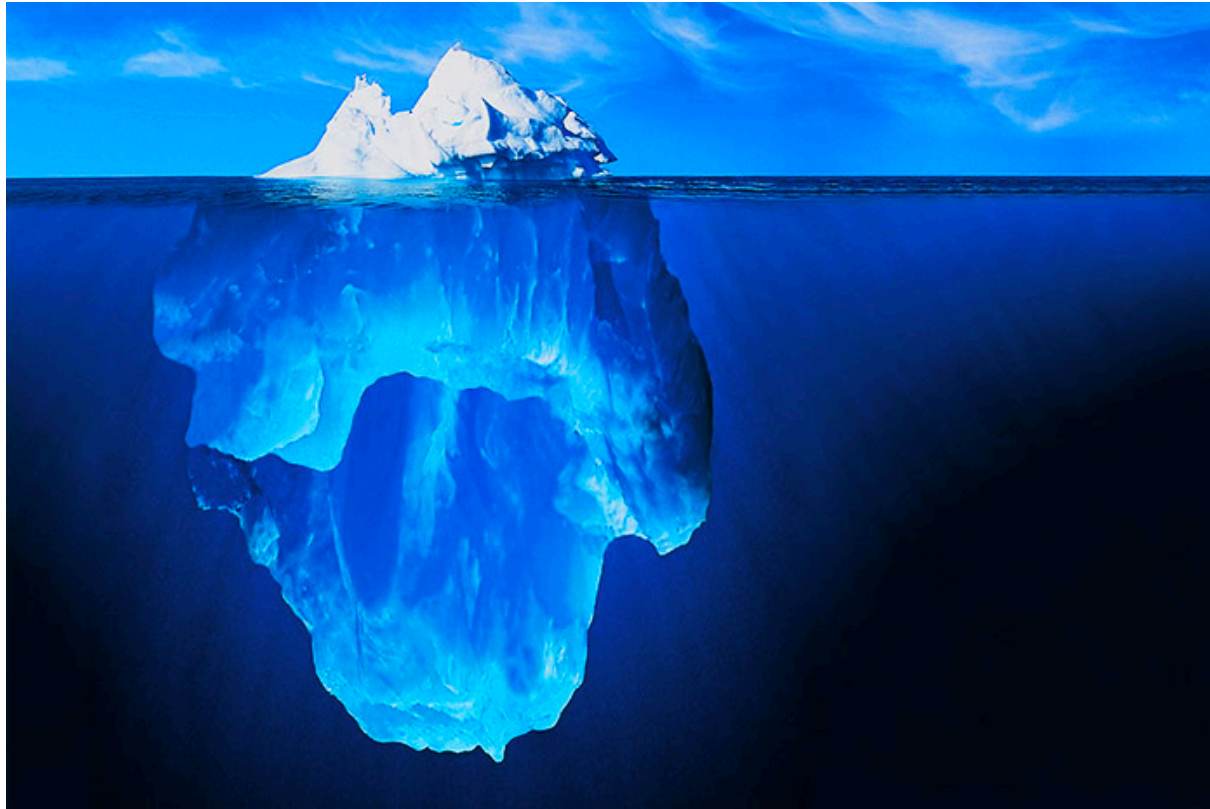
Office of the United Nations
Resident and Humanitarian
Coordinator



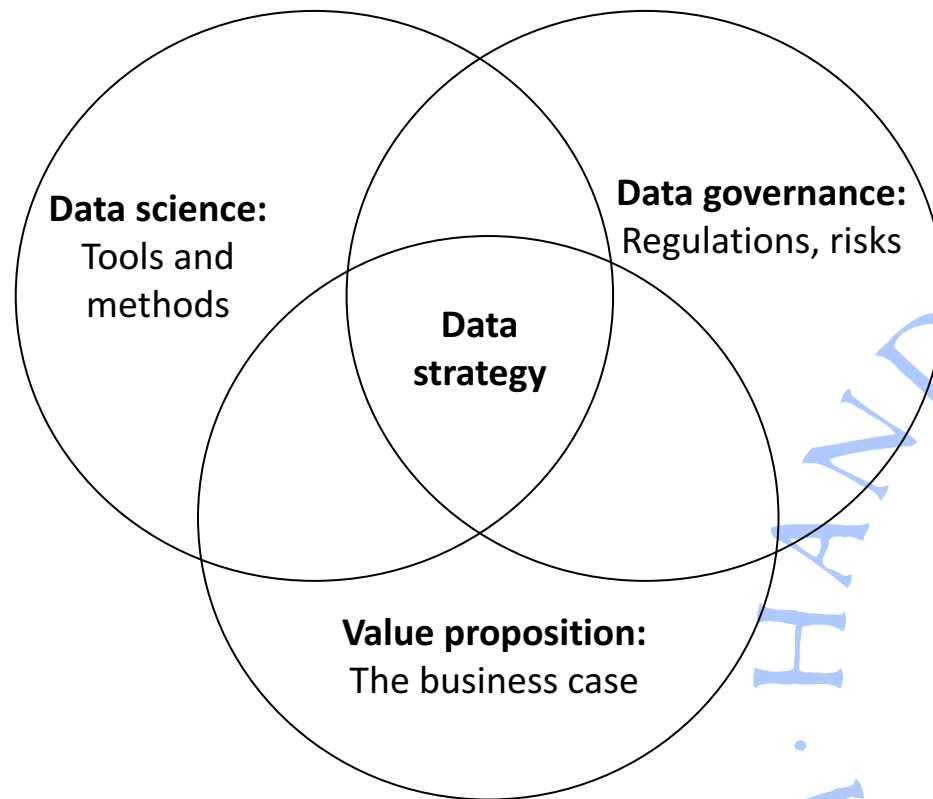
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Page 5 of 6

Three common data science pitfalls



Unbalanced approach



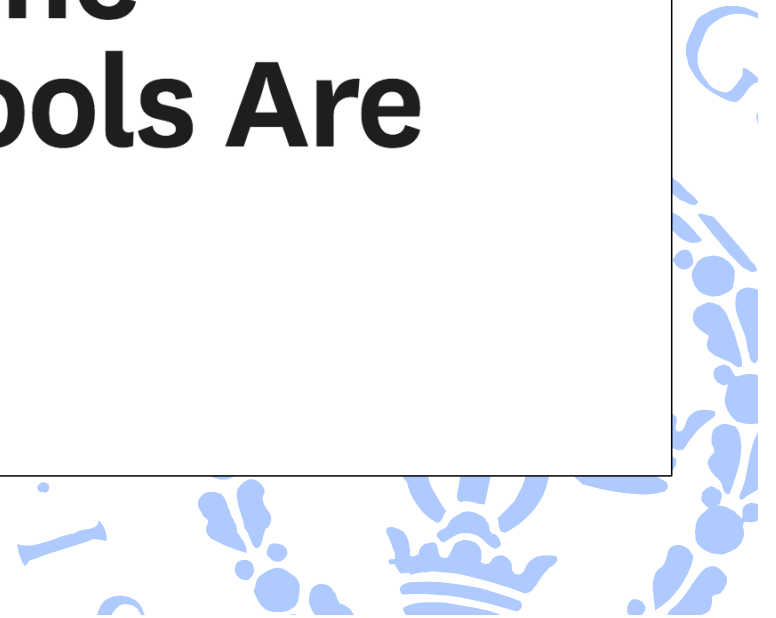
**Harvard
Business
Review**

DATA

If Your Data Is Bad, Your Machine Learning Tools Are Useless

by **Thomas C. Redman**

APRIL 02, 2018



Nominal approach without expertise



Data science trends

- Data science as exclusive vs commodity.
- Data science as skills vs. data science as tools.
- Data science value chain.
- Data science in the Philippines – risks and opportunities.

