Data Innovation for the SDGs

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All You Can Eat Data
POVERTY MAPPING WITH REMOTE SENSING

Satellite images of South Asia by night

South Asia in 1994  South Asia in 2010

Images are taken from Maxim Pinkovskiy and Xavier Sala-i-Martin (2016) – Lights, Camera ... Income! Illuminating the National Accounts-Household Survey Debate. The Quarterly Journal of Economics

Photo
Satellite image

Thatched roof

Metal roof

http://www.unglobalpulse.org/projects
CROWDSOURCING FOOD PRICES IN RURAL INDONESIA

TARGETING MALARIA INTERVENTIONS BASED ON MOBILITY FROM MOBILE PHONE DATA

Integrating rapid risk mapping and mobile phone call record data for strategic malaria elimination planning

Tatem et al. Malaria Journal 2014, 13:52
http://www.malariajournal.com/content/13/1/52

<table>
<thead>
<tr>
<th>Malaria risk zone</th>
<th>Zone map</th>
<th>Population residing in zone in 2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>NVDCP zone 1</td>
<td><img src="zone_map_1.png" alt="Zone Map NVDCP Zone 1" /></td>
<td>1.29 million</td>
</tr>
<tr>
<td>Risk map zones &gt;50%</td>
<td><img src="zone_map_2.png" alt="Zone Map Risk Zones &gt;50%" /></td>
<td>0.24 million</td>
</tr>
</tbody>
</table>
UNDERSTANDING BARRIERS TO EDUCATION IN UGANDA USING TEXT ANALYTICS
GENDER DISTRIBUTION OF TWEETS ABOUT GLOBAL DEVELOPMENT

- A good education
- Access to clean water and sanitation
- Action taken on climate change
- Affordable and nutritious food
- An honest and responsive government
- Better healthcare
- Better job opportunities
- Better transport and roads
- Equality between men and women
- Freedom from discrimination and persecution
- Phone and internet access
- Political freedoms
- Protecting forests, rivers and oceans
- Protection against crime and violence
- Reliable energy at home
- Support for people who can’t work

ALL COUNTRIES

BRASIL

INDIA

http://www.unglobalpulse.org/projects
SMART WATER PUMPS: GSM-ENABLED REMOTE MONITORING OF HANDPUMPS

Here, one can find a map with the location of all the pumps, as well as a graph that displays water usage over time.
ENERGY CONSUMPTION OPTIMIZATION IN PUBLIC BUILDINGS
ECONOMIC INDICATORS HIDDEN IN BIG POSTAL DATA

http://journals.plos.org/plosone/article?id=10.1371/journal.pone.0155976
REAL-TIME TRAFFIC MONITORING IN KAMPALA USING GPS DATA FROM MOTORBIKES
REACHING ACROSS THE DIGITAL DIVIDE: TURNING RADIO INTO BIG DATA

http://www.unglobalpulse.org/radio%20content%20analysis%20tool%20for%20development
“...you find so many rotten tomatoes in the markets...”
TRASH TRACK: MONITORING THE “REMOVAL CHAIN”

senseable.mit.edu/trashtrack/
APPS TO EMPOWER CITIZEN’S DATA DRIVEN DECISION MAKING
DATA SCIENCE CHALLENGE: FACIAL RECOGNITION FOR WHALES

Right Whale Recognition
Thu 27 Aug 2015 – Thu 7 Jan 2016 (8 months ago)

Identify endangered right whales in aerial photographs

With fewer than 500 North Atlantic right whales left in the world's oceans, knowing the health and status of each whale is integral to the efforts of researchers working to protect the species from extinction.
MOBILIZING THE CROWD: CROWDSOURCING IMAGE ANALYSIS TO MAP ANIMAL LIFE IN SERENGETI

http://www.nature.com/articles/sdata201526
Pigeons wearing tiny backpacks with pollution sensors.

http://pigeonairpatrol.com/
DATA VISUALIZATION OF GOVERNANCE AND PEACE POLL IN GHANA

http://www.unglobalpulse.org/projects
THANK YOU!