*Clara Palau*
@clarapalaum

Geneva, ITU AI for Good
16 May, 2018

UNICEF: 70 years
for every child

**Pandemics**

# Real-time data



Mark Naftalin

The following SMS was sent to 46,000 U-Reporters: "Do you know how to prevent yourself from getting Ebola?" Out of those who responded, 38% had no knowledge.

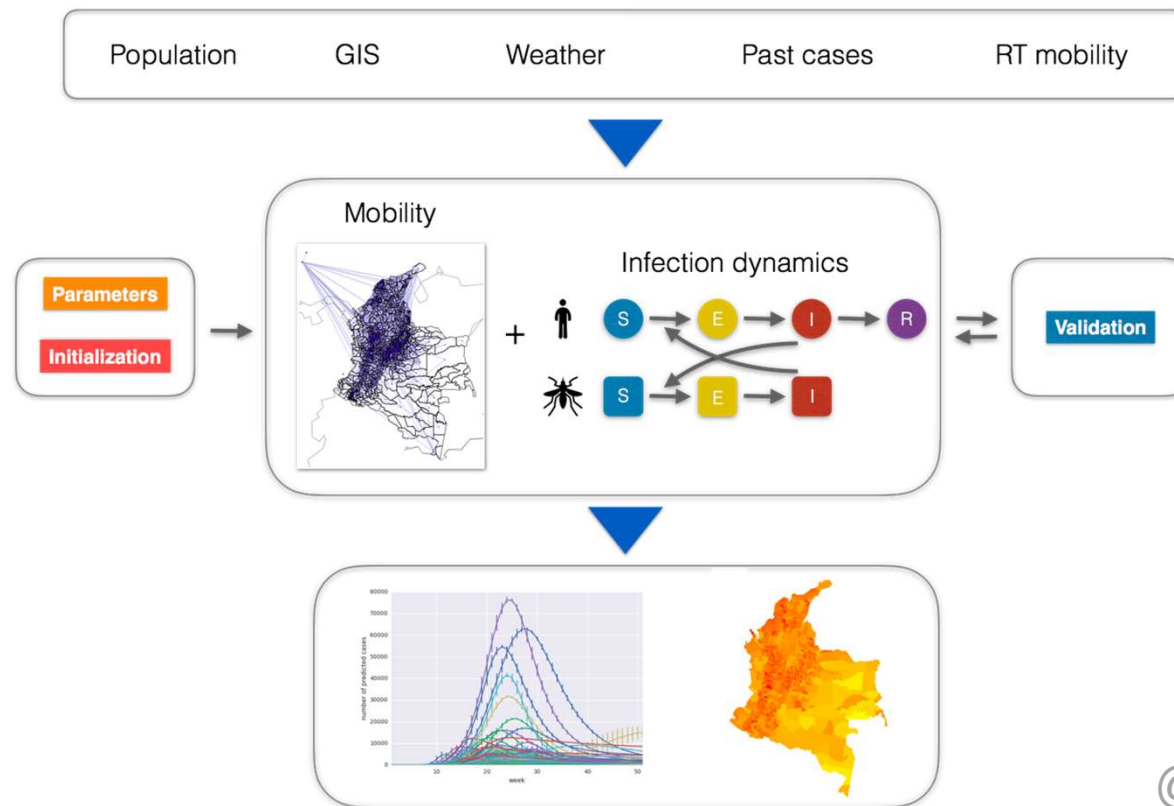# Big data platform

Google

facebook
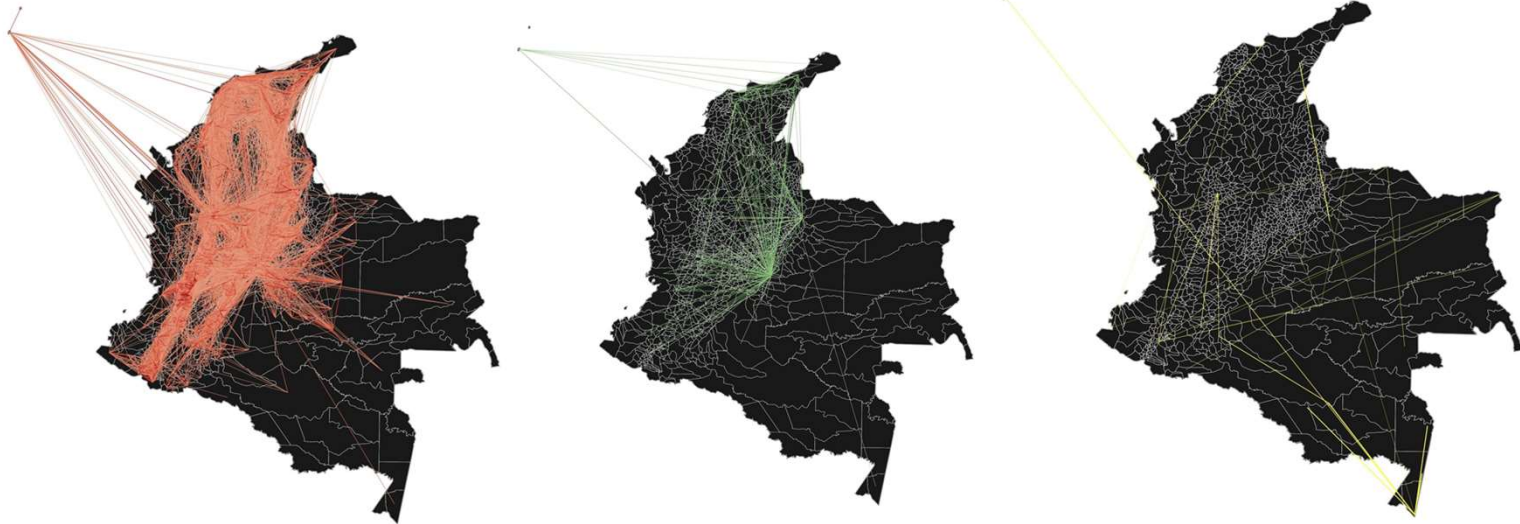
Telefónica

aMaDEUS

IBM

@unicefinnovate
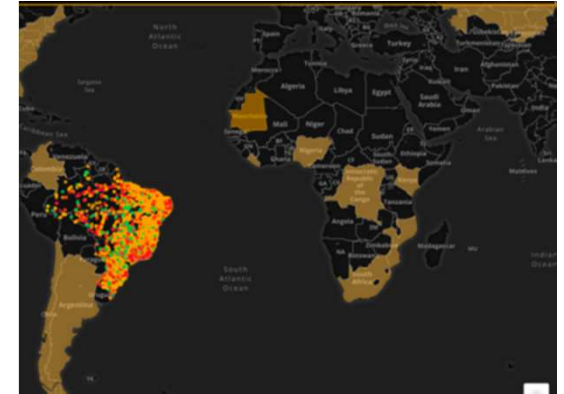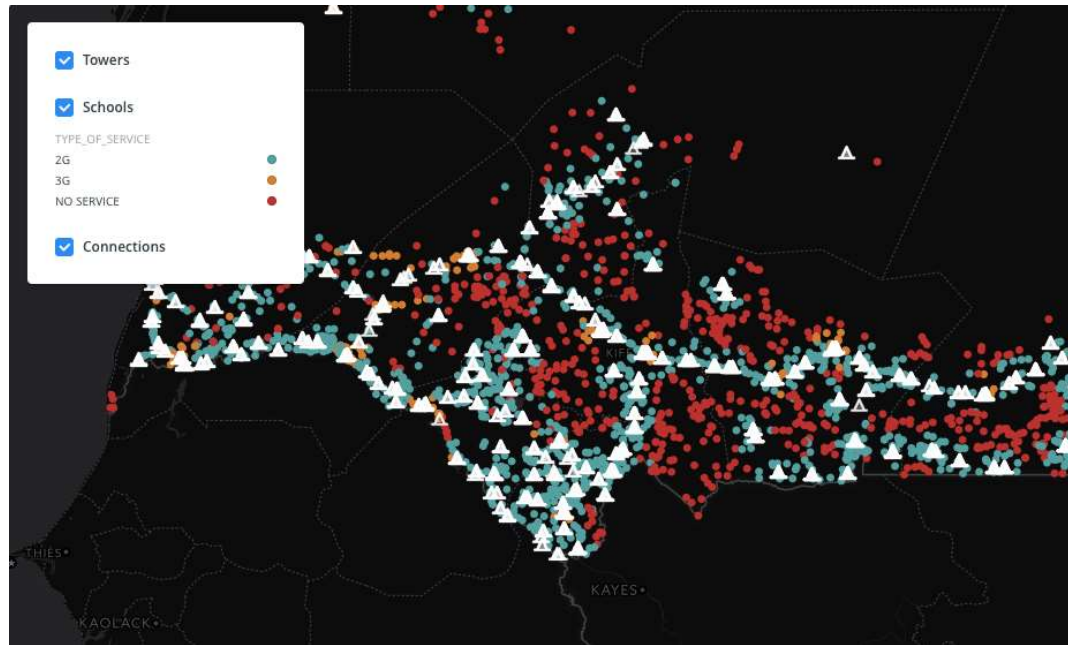
# Integrate epidemic modelling



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# Understand data bias

Colombia people's movements seen from different sources.
Who is in the blind spots of **data and algorithms**?

# Mapping risk factors





CASE STUDY:
**"How do you map risk?**

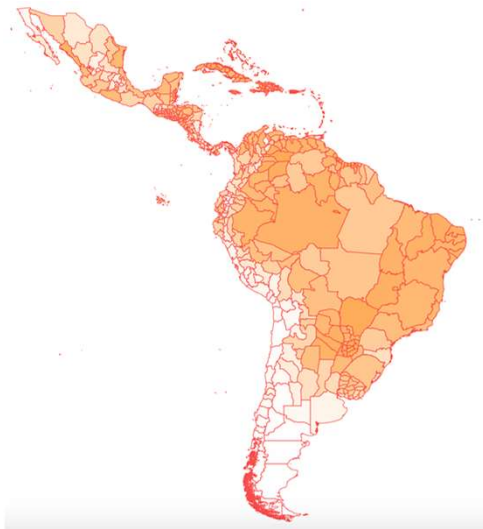How do you map every school in the world?**"
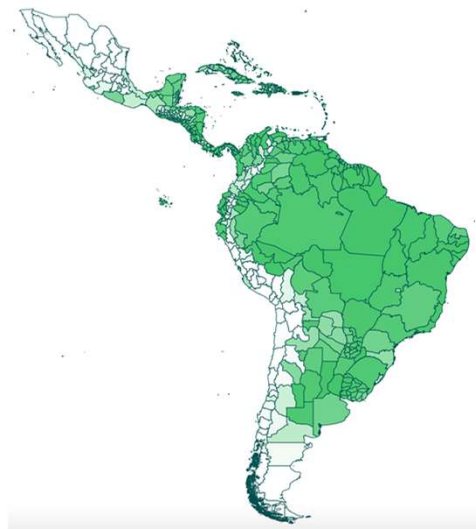
Using Satellite imagery and AI

# Assess epidemic risk

**Machine Learning (ML)** techniques to:

- Quantify the contribution of different **factors** (temperature, mosquito suitability, urban/rural, poverty, mobility, etc) to **epidemic risk**
- Understand their **interaction**



Mosquito suitability | Temperature | Population

# thanks