



About the GSMA

THE GSMA WAS FOUNDED IN

1987

15 OFFICES WORLDWIDE













everything to a #betterfuture



The mobile industry is the first to formally commit to the UN Sustainable **Development Goals**





















The GSMA represents the interests of mobile operators worldwide





WITH ALMOST in the broader mobile ecosystem



The world's leading mobile industry events, Mobile World Congress and Mobile World Congress Shanghai, together attract

people from across the globe each year

The GSMA works to deliver a regulatory environment that creates value for consumers by engaging regularly with:









Exclusively for GSMA Members, InfoCentre² is your place to connect with a global community of industry experts

GSMA Working Groups provide frameworks and standards in commercial. operational and technical matters that help maintain and advance mobile industry ecosystems



MOBILE CONNECTIONS WORLDWIDE



The Mobile Industry Purpose

CONNECTING EVERYONE

AND

EVERYTHING

BETTER
FUTURE



Big Data and Social Good



Urgent needs

1.8 Billion

Number of people affected by a disaster in the last decade

15 Million Number of people who die as a result of infectious diseases each year



Mobile Big Data can help

Mobilising Big Data for people in need

Providing actionable insight

(S) Enabling effective and efficient response

Ensuring a big impact where it matters most

Identifying where people are and moving is essential to **understand** and effectively **respond** to **disease** outbreaks and spread, natural **disasters** and **environmental** issues



The GSMA Big Data for Social Good Initiative

GSMA

Industry Purpose

SDG Accelerator

BD4SG

- The Big Data for Social Good (BD4SG) initiative was launched at Mobile World Congress 2017
- Backed by 20 operators accounting for over two billion connections in over 100 countries and an advisory panel of 11 global agencies and partners
- After first wave of trials showcasing big data capabilities in epidemics & health, the initiative is expanding to focus its next wave on disaster preparedness & climate impacts
- In these trials, MNOs are capturing anonymised, aggregated mobile indicators in a consistent output format, whilst respecting and protecting the privacy of individuals via an agreed Code of Conduct



Value of Mobile Big Data

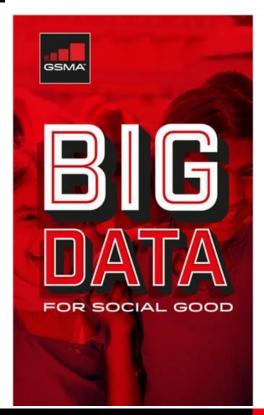
Mobile network operators capture location and usage information that are

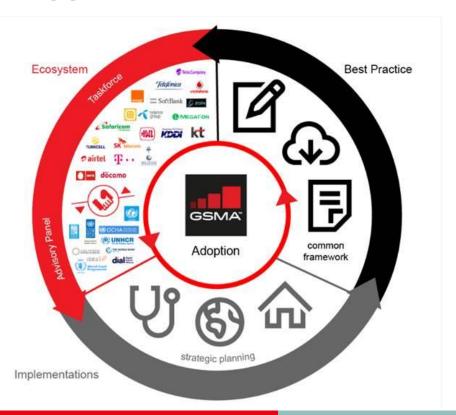
- aggregated and anonymised
- delivering valuable insights to drive better decision-making
- whilst respecting and protecting privacy

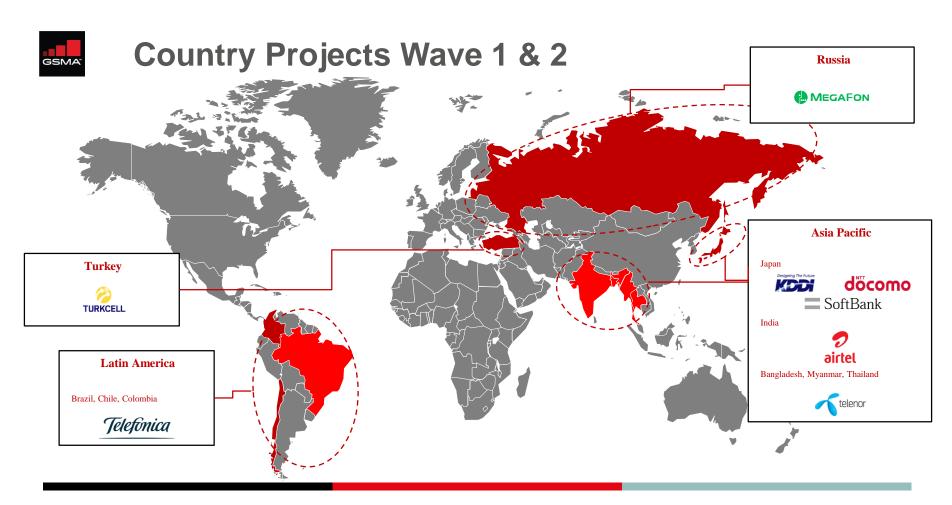




Key Pillars and Approach

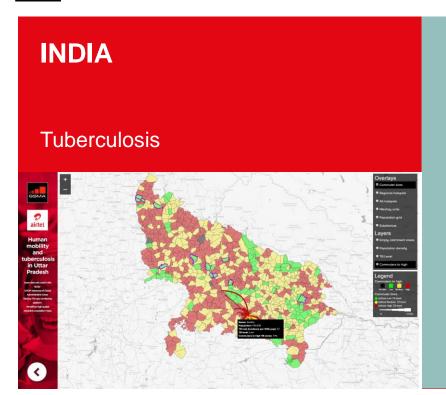








Tuberculosis in India









Tuberculosis in India

Challenge

 Tuberculosis is a major health burden in India, where c. 480k people die and 2.8 million new cases occur annually (WHO, 2016)

• The government of India has established a National Strategic Plan to end tuberculosis by 2025

Solution

- Collaboration between WHO/ ITU Be He@Ithy Be Mobile, Airtel and GSMA to understand value of mobile Big Data for health systems
- Leveraging anonymised, aggregated mobile and TB case data to create maps of TB incidence rates and assess transmission patterns

Impact

- The Proof of Concept predicts locations at risk of increasing TB rates, or where missing (undiagnosed) cases might be found
- This can help target interventions such as awareness raising, mobile clinics, vaccination campaigns, or tobacco cessation initiatives





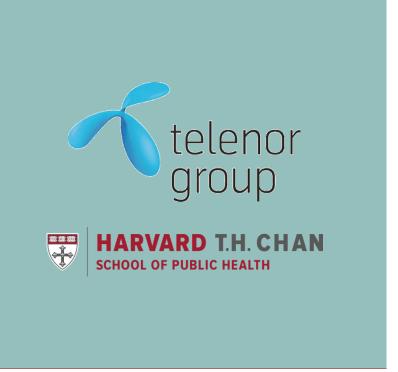






Multi-Drug Resistant Malaria in Asia Pacific







Multi-Drug Resistant Malaria in Asia Pacific

Challenge

 Multi-Drug Resistant Malaria has emerged in Cambodia and is spreading across international borders

Solution (ongoing)

 Aim is to model the population movements that spread drug resistant forms of malaria in Bangladesh, Thailand and Myanmar

• Telenor providing aggregated, anonymised mobility data and Harvard School of Public Health developing epidemiological analysis

Potential Impact

- Identification of the routes of travel that spread drug resistance
- Identification of high-risk regions to target interventions and education







Earthquakes Preparedness in Japan

JAPAN

Earthquake Preparedness













Earthquakes Preparedness in Japan

Challenge

Japan lies on a tectonic fault line and major earthquakes are a relatively frequent occurrence

Earthquakes can cause huge destruction and disruption, displacing people from their homes and causing transport chaos

Solution (ongoing)

- The Japanese mobile operators are collaborating with the Cabinet Office to produce displacement and transport maps, overlaid with seismic activity
- This will allow real-time and predictive analysis of population locations and transport routes

Potential Impact

Knowing how many people were in the affected region at the time of a disaster, where they have been displaced to, and which transport routes are still passable, is of huge value to emergency response efforts, allowing faster and more accurate decision-making and evacuation planning









Our goal is to save lives.

Collaboration between public and private sectors is at the heart of achieving the UN Sustainable Development goals



