CASE

CENTRE FOR
APPLIED
SPATIAL
EPIDEMIOLOGY

KIT Royal Tropical Institute

Stop TB Partnership

Pakistan National TB
Control Program

Doctor's Desk

HACK TB

What's Your Burden?

The University Of Sheffield.

IDM EPCON

UNIVERSITÀ DEGLI STUDI DI MILANO BICOCCA

IHME

WHAT IS HACK TB?

From May to August 2019, the KIT Royal Tropical Institute's Centre for Spatial Epidemiology (CASE), together with Pakistan's National TB Control Program and the Stop TB Partnership, hosted a virtual hackathon to develop novel approaches to predict TB burden.

The hackathon brought together research groups interested in TB modelling to collaborate on a joint exercise to estimate the sub-national TB burden in Pakistan in 2018.

The models developed were evaluated for validity, accuracy and precision by a panel of experts.

IDEA   **CONNECT**   **SOLVE**   **SHARE**

WHAT IS A HACKATHON?

Hackathons are collaborative and playful problem-solving events with a competitive twist. The core idea is that by competing in a friendly way, we can co-create something greater than the sum of the parts.

THE HACK TB CHALLENGE

TB care and prevention strategies are usually developed at the national level, but they are not always applicable, effective or tailored to the local context.

Sub-national TB estimates are very valuable for National TB Programs as knowing the local TB burden allows context-specific interventions to be designed, programs to be adapted and resource allocation to be optimised.

HACK TB tries to answer the question: Can we make useful predictive models for the sub-national TB burden in Pakistan?

AIM

To estimate the sub-national bacteriologically positive TB prevalence among people older than 15 in Pakistan in 2018.

RULES OF THE GAME

1. Each team was given the same datasets provided by the Pakistan National TB Program
2. They were allowed to use any other public and accessible data
3. They had three months to develop their estimates using their own models.

THE TEAMS

The University of Sheffield
IDM
Epcon
University of Milano-Bicocca
IHME
The Mystery Team

THE WINNER

The winning model will be announced at the 50th Union World Conference on Lung Health in Hyderabad, India.

The hackathon will not only award the most innovative model but will create a community of experts and ultimately help National TB Programs find and treat more TB patients.

A publication will be written comparing the various approaches developed by the participating teams and individuals.

To find out the winner and meet the teams, join the **MATCH Access Analysis and Diagnostic Network Optimisation symposium.**
Friday 1st at 14h00
Room MR G.03 & G.04

CASE

CENTRE FOR
APPLIED
SPATIAL
EPIDEMIOLOGY

Do you want to know your burden?

KIT Royal Tropical Institute established KIT CASE to improve health interventions by aligning epidemiological approaches with evidence-based best practices. We work together with governments, institutes and NGOs in low-to-middle-income countries, while encouraging health managers to use available data and spatial analysis techniques to improve decision making and more effectively deliver health care to all.

KIT CASE combines technical expertise in the fields of spatial statistics, geo-data management and impact evaluations with a broad content knowledge of various infectious and neglected tropical diseases—including Tuberculosis (TB), HIV, and Malaria, among others—to support disease control programs.

CASE ADVISORS
Mirjam Bakker, PhD: M.Bakker@kit.nl
Ente Rood, PhD: E.Rood@kit.nl
Sandra Alba, PhD: S.Alba@kit.nl
Christina Mergenthaler, MPH: C.Mergenthaler@kit.nl

TELEPHONE
+31 (0)20 56 88 711

FOLLOW US ON SOCIAL MEDIA
🐦 100KIT
f KIT Royal Tropical Institute
in KIT Royal Tropical Institute

WEBSITE
www.kit.nl/case

KIT Royal Tropical Institute