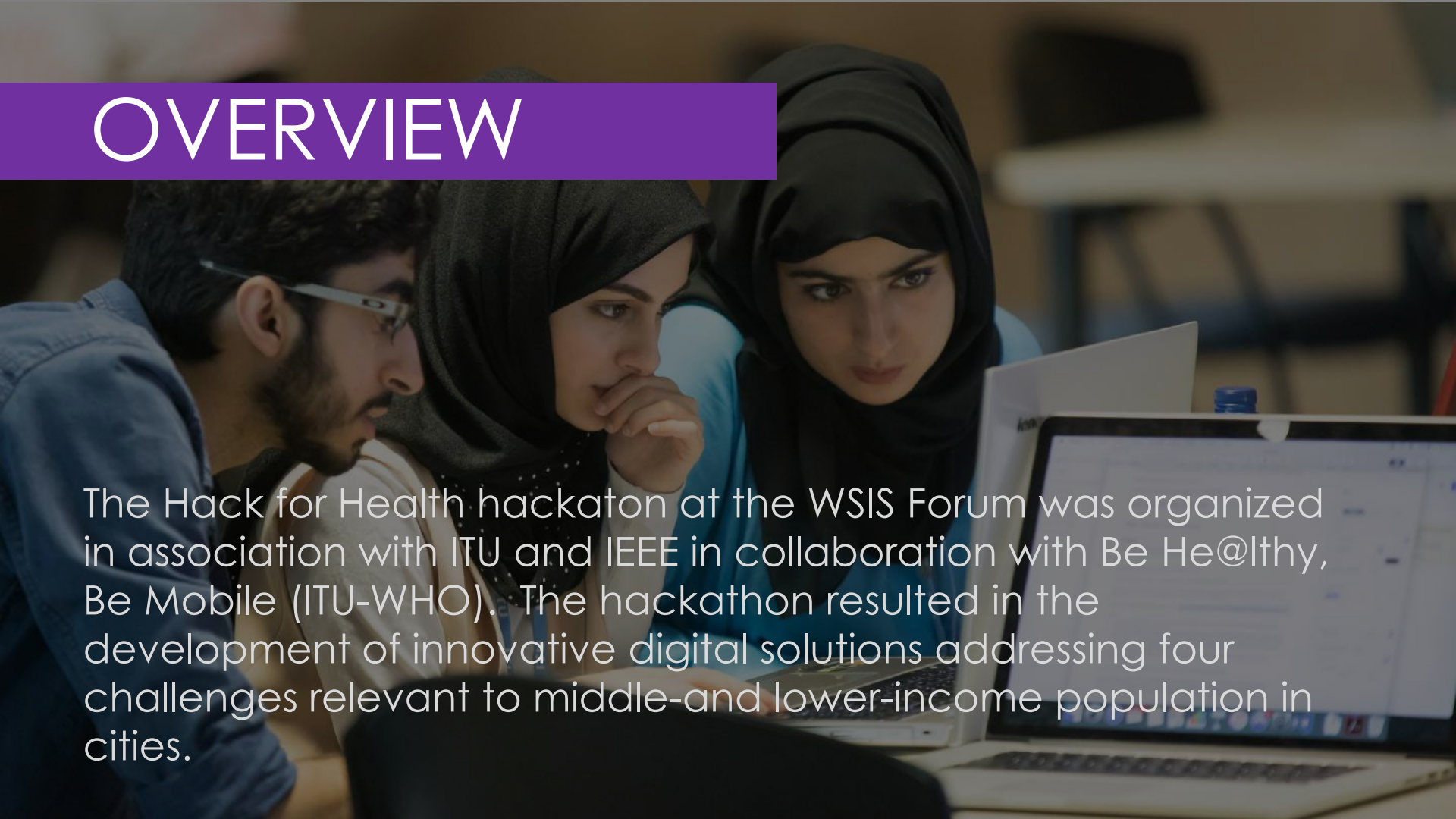

WSIS
FORUM
12-16
JUNE 2017
Geneva | Switzerland

OVERVIEW



The Hack for Health hackaton at the WSIS Forum was organized in association with ITU and IEEE in collaboration with Be He@lthy, Be Mobile (ITU-WHO). The hackathon resulted in the development of innovative digital solutions addressing four challenges relevant to middle-and lower-income population in cities.

PARTICIPANTS

42 total hackers
17 women, 25 men

16 nations represented including USA, Poland, Gambia, Nigeria, Tunisia, New Zealand, Bangladesh, Algeria, Switzerland, Nepal, Norway, Russia, Pakistan, Zambia, UAE, Sudan

30 + 5 + 7

30 current undergrad students
5 current grad students
7 current grad students who are also working professionals

The most common areas of study: computer science, mathematics, business, biological engineering, software engineering, chemistry, epidemiology, electrical engineering, informatics

10 + 16 + 16

10 expert developer
16 fairly proficient
16 learning to code or other types of expertise

BY REGION

A few interesting facts about who is participating

3 Region A | The Americas

5 Region B | Western Europe

7 Region C| Eastern Europe and Northern Asia

19 Region D | The Africa

12 Region E | Asia and Australasia

CHALLENGES

Four challenges were addrssed to develop an innovative digital solution to reduce exposure to common risk factors for non-communicable diseases in smart, healthy cities in middle-and lower-income cities.


CLEAN WATER ACCESS


URBAN ENVIRONMENTAL QUALITY


MANAGING NON-COMMUNICABLE DISEASES FOR HEALTHY LIVING


PROMOTING HEALTHY BEHAVIORS

SOLUTIONS

Innovation can take many forms. It might be a mobile application, web application, computer game, game for mobile devices, tools, libraries, or visualizations that address one of the four challenges. All solutions included both concept and a working prototype.


POLAND
HACK FOR HEALTH

TEAM POLAND

NCD Management for Healthy Living

Challenge

Allow for self-diagnosis, treatment, and greater disease awareness in those individuals with non-communicable illnesses, such as diabetes and heart disease.

Solution

A two-sided application to analyze eating patterns for better health. The mobile patient app aqcuires basic medical data, physical activities, allergies, environmental conditions, and more, which gives context to the user's eating behaviors and includes a product scanner for supermarket use to evaluate purchases. The doctor side web service monitors the patient data and makes recommendations for food intake and physical activity for best health. The data will allow for the use machine learning and a classification algorithm to improve the system with less human input.

Paulina Wojtyczcka
POLAND

Robert Kuna
POLAND

Fabian Kapuścik
POLAND

Jakub Król
POLAND

Aleksander Surman
POLAND

Jakub Gawlas
POLAND

Adam Merk
POLAND


TUNISIA
HACK FOR HEALTH

TEAM TUNISIA

Urban Environmental Quality

Challenge
Air pollution is increasing exponentially and serves as a major contributing factor to a wide-variety of global health issues.

Solution
An application that gathers air pollution data using sensors and feeds it into an algorithm that provides relevant information for government and citizens to incite healthy practices. Citizens participate in change by installing sensors at their homes to provide more accurate data. This allows them to draw benefits in return.

Meher Bnouni
TUNISIA

Khalil Ben Sassi
TUNISIA

Ichrak Mars
TUNISIA

Seif El Hajjem
TUNISIA


NYOUTRITION
HACK FOR HEALTH

TEAM NYOUTRITION

Promoting Healthy Behavior

Challenge
Addressing issues in maintaining healthy nutrition habits and a good diet are of immense importance worldwide.

Solution
A platform that invites informed users to take responsibility of their own health and nutrition in the context of a moderated collaborative, community platform. With nYOUtrition, individuals are empowered to transform their health with people just like them and with support from experts.

Nicole Kogan
USA

Kaveh Bazargan
Iran

Shantam Maheshwari
India


UAE
HACK FOR HEALTH

TEAM UAE

Non-Communicable Disease

Challenge
Non-communicable disease (NCD) is responsible for 68% of deaths. Targeting it has a high potential to decrease health problems.

Solution
An application that mines data from social networks, APIs and Google trends, then visualizes the data for governments and decision makers. Availability of the information is limited and the solution pinpoints the affected areas so efforts can be focused on those areas, and hence the efficiency of campaigns (and health outcomes) are maximized.

Anfal Attai
UAE

Khalid AlAwar
UAE

Najla AlAnsari
UAE


NORWAY
HACK FOR HEALTH

TEAM NORWAY

SAGA: *Bridging the Gap Between Folklore and Fact*

Challenge
Improve citizen awareness of healthy behaviors and promote healthy habits, such as increased physical exercise, proper nutrition and stress management.

Solution
An interactive kid-friendly media (ebooks, games, cartoons) presented on a website which incorporates local folklore with a factual twist to help teach children healthier eating habits.

Dendembo Diallo

Anne Ingeltjorn

Daria Krivonos

AWARDS

First Place: ITU Acceleration Awards
Team Norway | dSAGA: Bridging the Gap Between Folklore and Fact

Second Place: ITU Acceleration Awards
Team Poland | NCD Management for Healthy Living

Third Place: IEEE "Excellence in Ethics Award
Team Tunisia | NCD Management for Healthy Living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