Kingdom of the Netherlands

Human Rights DIPLO HACK

26. - 27. February 2016
@ Impact Hub Geneva

www.diplohack.org

IMPACT HUB Geneva

THE Port.ch
unite innovators · impact future · act today

MISSION

At the Human Rights DiploHack 2016

hackers, human rights experts and diplomats joined forces for a 48-hour period

to tackle two challenges

presented by the Office of the High Commissioner for Human Rights

that directly impact people's lives from around the world.

TESTIMONIAL

"Another noteworthy example is next week's DiploHack. This event will connect human rights experts, developers, designers and diplomats around the challenge to create new technological tools for human rights monitoring."

Michael Møller: Director General United Nations Office at Geneva - Huffington Post

Yann Forget, CC BY-SA 3.0

Human Rights DIPLO HACK

PREPARATIONS

Moumou82, CC BY-SA 3.0

PREPARATORY MEETING

20th January 2016, Palais des Nations

PREPARATORY MEETING - agenda

Welcome by NL Mission
Quirine van de Linde, Permanent Representation of the Kingdom of the Netherlands

Introduction to Hackathons
Daniel Dobos, CERN

Examples of Humanitarian Hackathon challenges
Ines Knäpper, THE Port

Testimonial: Better Body Bag Project
Steffen Raetzer, SSRA

Previous DiploHacks
Frank Huisingh, Ministry of Foreign Affairs, Netherlands

Upcoming: 1st Geneva DiploHack
Felix Staehli, Impact Hub Geneva

“Meet a hacker” - Open discussion panel
Kevin Koh, OHCHR & Steffen Raetzer, SSRA

Wrap up summary & outlook

PREPARATORY MEETING - testimonials

"The DiploHack combines all of the previous areas of work I have been in and the aspirations I have for innovation-driven solutions to human rights and social issues."

Kevin Koh: Human Rights Officer and Lawyer at the United Nations Office of the High Commissioner for Human Rights (OHCHR)

"The DiploHack was exactly the way I imagined it as a creative and dynamic exercise to think out of the box. Coming from the world of diplomacy, my ideas and proposals were tested against the brains of scientists and activists, leading to concrete solutions. Ultimately, in the field of human rights maybe more than in other areas, technology solutions will need to be accompanied by political will"

A fast-track participant

Prioryman, CC BY-SA 3.0

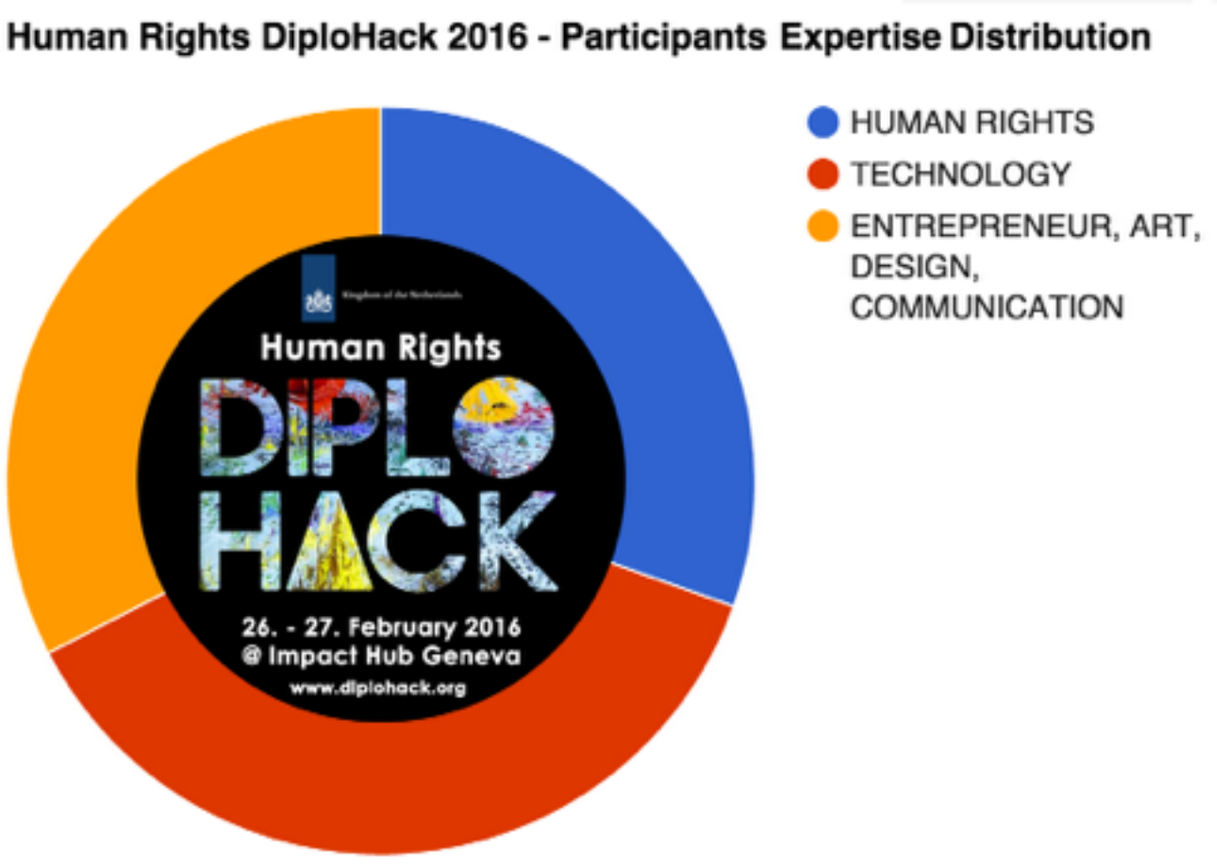
STATISTICS

Applications:

3 times overbooked

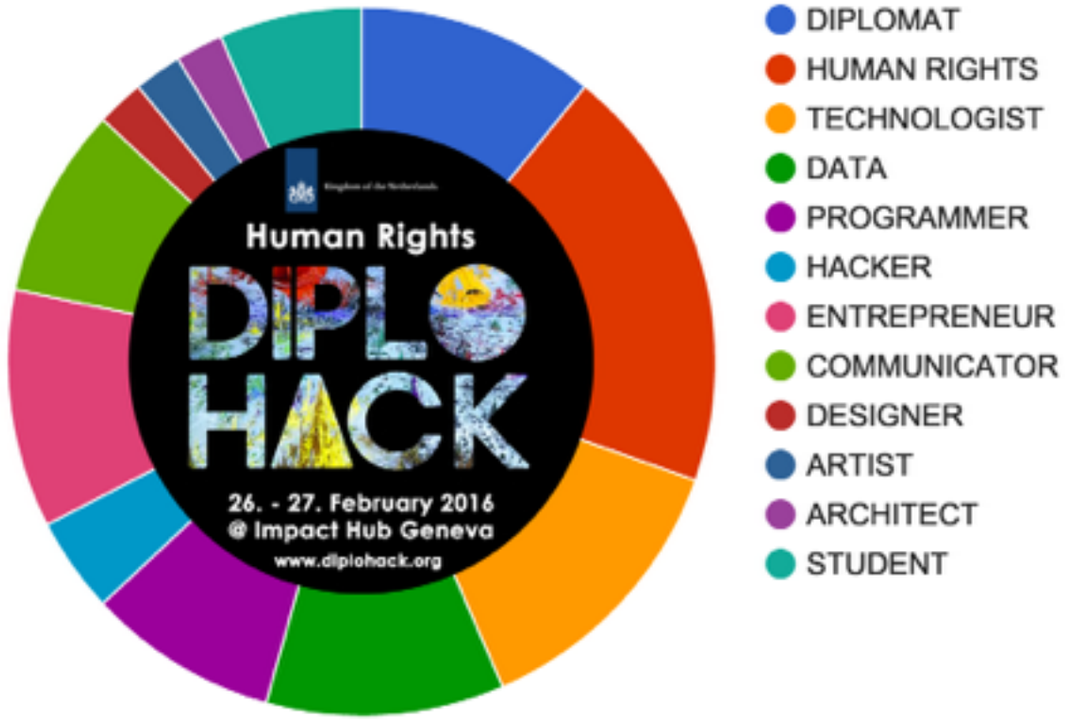
41 nationalities

58% female applicants

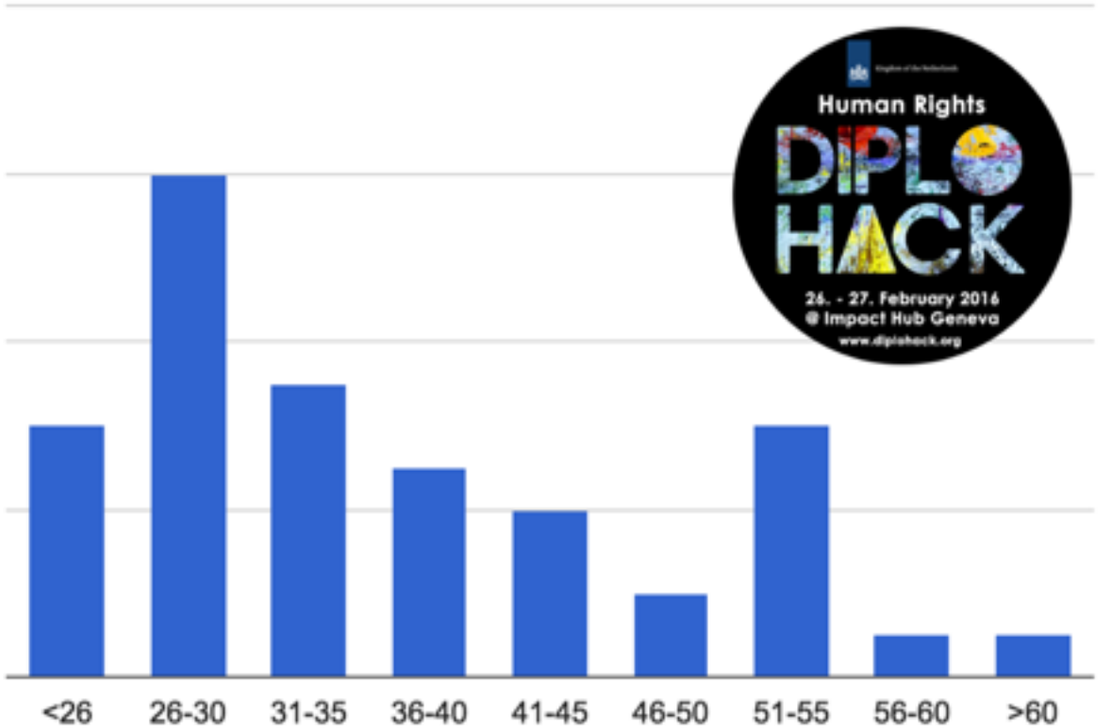


STATISTICS - details

Human Rights DiploHack 2016 - Participants Background Distribution

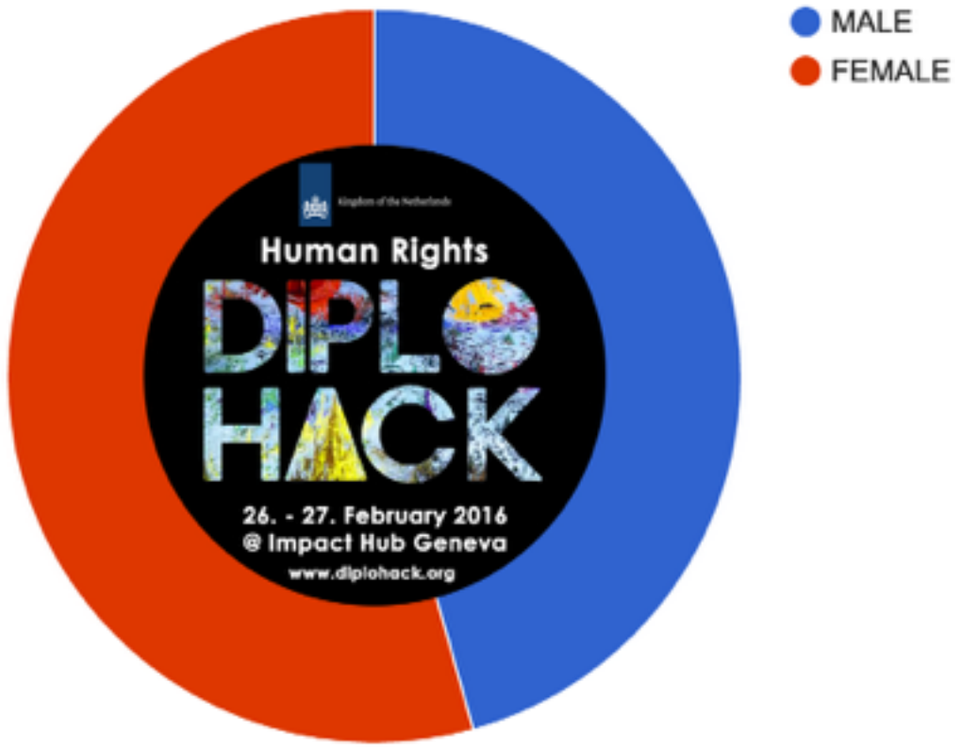


Human Rights DiploHack 2016 - Participants Age Distribution



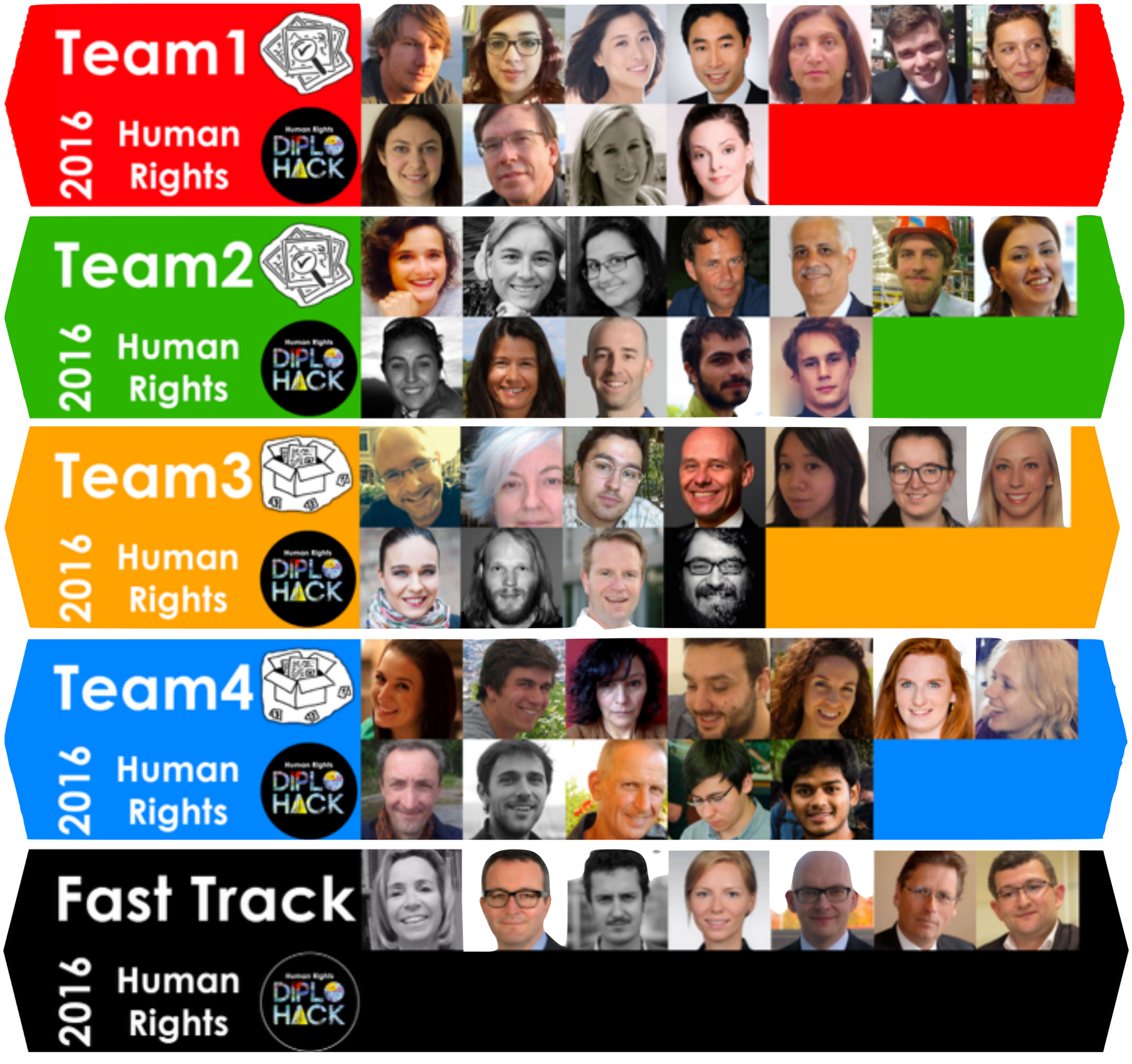
Human Rights DiploHack 2016 - Participants Nationality Distribution

Human Rights DiploHack 2016 - Participants Gender Distribution



PARTICIPANTS

PARTICIPANTS - teams



CHALLENGE - Big Verification Challenge

Human Rights DIPLO HACK

UNITED NATIONS HUMAN RIGHTS OFFICE OF THE HIGH COMMISSIONER

An improved way of using limited verification resources

Does a photo or video tell the ‘truth’? Methods and tools for verification of visual content are constantly improving, but the amount of content requiring verification for Human Rights purposes increases over-proportional – limiting its usability to a small and biased selection. Can improved creation, filtering, sorting and verification contribute to turn the tables on this volume problem?

CHALLENGE - Evidence Collection Box

UNITED NATIONS
HUMAN RIGHTS
OFFICE OF THE HIGH COMMISSIONER

Human Rights
DIPLO HACK

A field-ready evidence collection & transportation tool

How can Human Rights Defenders collect and transport evidence in a safe way? New data transmission protocols, storage and verification methods open up new opportunities to improve towards a more trustworthy, and field-operation friendly evidence system. How can limited communication possibilities be used in the most effective way?

Human Rights

DIPLO HACK

HACKATHON

HACKATHON - agenda

Friday 26th of February

09h Registration & Breakfast

09h30 Kick-off Meeting:

- Welcome
- Motivational Talks
- Introduction to Hackathons
- Structure, Goals and Rules
- Group Picture

10h Hacking

12h Fast Track Presentations

18h Midterm Review

19h Dinner

20h Hacking

Saturday 27th of February

08h Breakfast & Hacking

Preparation of Final Pitch

18h Finals

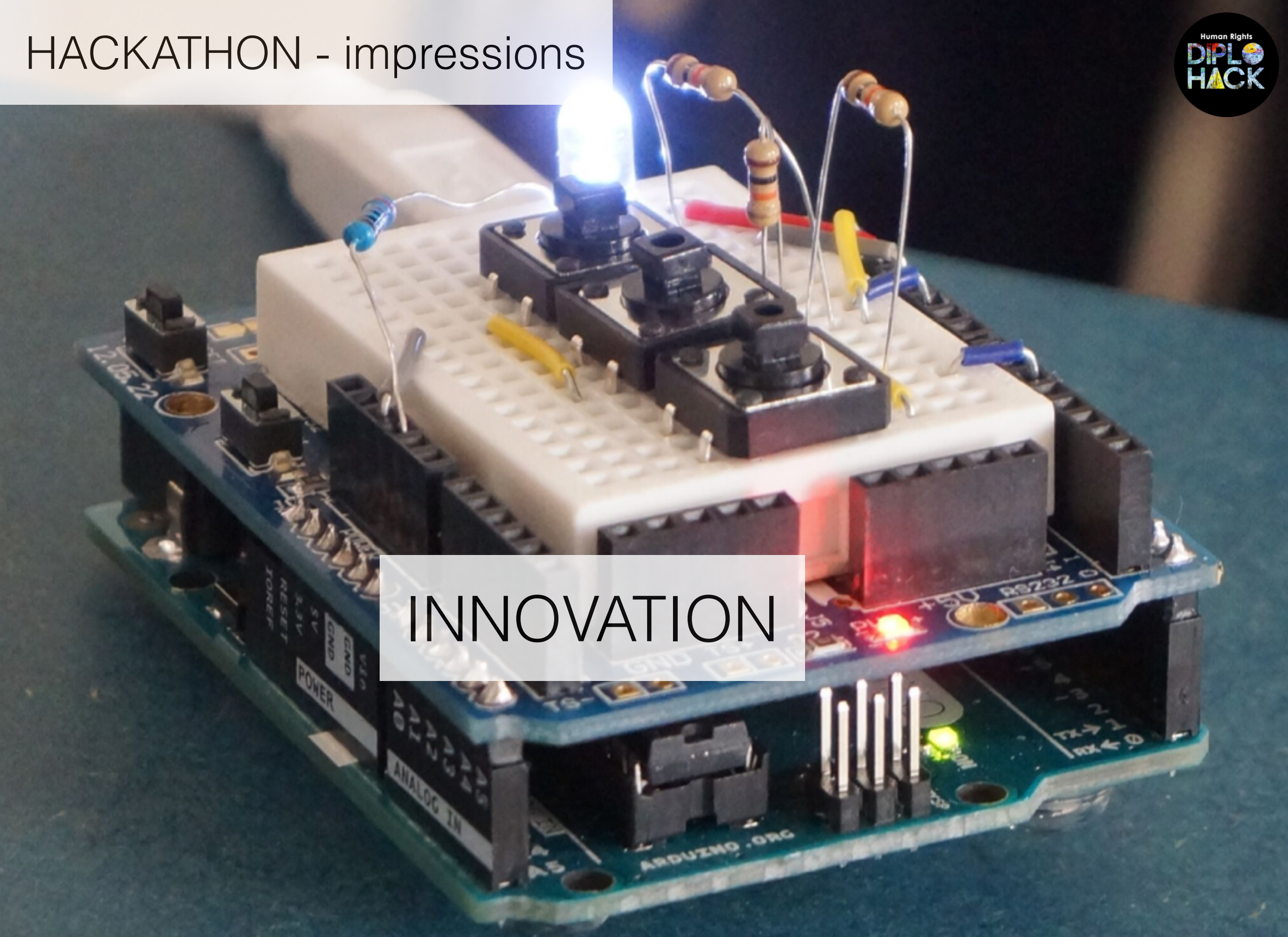
- Welcome words
- Keynote speakers
- Team presentations
- Closing and wrap-up

19h30 Apero

Monday 29th of February

13h Presentation of the results
as side event to the 31st session of the Human Rights Council

HACKATHON - impressions



INNOVATION

HACKATHON - impressions

COLLABORATION

HACKATHON - impressions

CO-CREATION

HACKATHON - impressions

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CREATIVITY

RESULTS - fast track team

VALUE

Cristoph Peschoux (FR)
Ellen Verpoest van Thiel (BE)
Ibrahim Aladoofi (YE)
Jerome Bellion-Jourdan (FR)
Martin Labbé (FR)
Nicola Forster (CH)
Patricia Russ (DE)
Pavel Podvig(RU)
Petri Hakkarainen (FI)
Quirine van de Linde (NL)
Roderick van Schreven (NL)
Sascha Schmeling (DE)

TECHNOLOGY

“recognising the value of Human Rights violation information”

“secure hot-spot mailbox on each UN vehicle & office”

PICTRUE - team 1

Friedhelm Weinberg (DE)
Imane Alagui (MA)
Jiexin Guo (CN)
Kevin Koh (SG)
Ladan Pooyan-Weihs (FR/IR)
Laurens van der Woude (NL)
Nora Erdmann (DE)
Lucy Antrobus (UK)
Phil Dickie (AU)
Rita Kaali (US)
Viktoria Szabo (HU)

GET THE PICTURE - team 2

Annik Bindler (CH)
Biliana Vassileva (BG)
Swati Chhibber (IN)
Herman Paassen (NL)
Ibrahim Aladoofi (YE)
Joosep Pata (EE)
Manush Aslanyan (AM)
Paulina Carvallo (CL/US)
Monica Nascimento e Silva (PT)
Robert MacKenzie (CA)
Stefanos Laskaridis (GR)
Tom Versteeg (NL)

FIRST DEFENDER TOOLKIT - team 3

Anders Bengtson (SW)
Barbara Ruis (NL)
Ennio Boati (IT)
Kees van Baar (NL)
Lori Chang (US)
Marieke Abbink (NL)
Michela Paganini (IT)
Réka Farkas (HU)
Sebastian Langer (DE)
Steffen Raetzer (DE)
Yann Heurtaux (FR/BE)

TEAM4EVIDENCE - team 4

Brittany Robles (US)
Frank Huisingh (NL)
Hester van der Ent (NL)
Ilias Koutsakis (GR)
Irene Martinetti (IT)
Madelein Speth (NL)
Maria Verwoerd (NL)
Olivier Arifon (FR)
Pierluigi Bortignon (IT)
Robin Coupland (UK)
Sasha Iatsenia (CH)
SP Mohanty (IN)

HACKATHON - testimonials

"Diplohack is the **perfect occasion** to tackle human right challenges in a disruptive way."

A Participant

"My first hackathon: an **energizing and inspiring experience**!! Great to see so much creativity and determination to find a solution that can make a real change when it comes to protecting human rights! A much needed **message of hope** at the beginning of HRC31."

A Fast Track Participant

HRC31
High Level Side-Event

DIPLOHACK - presentation

Informal presentation of Diplohack 2016 results on human rights evidence to human rights ambassador of the Netherlands

Kees van Baar

HRC31 SIDE EVENT - agenda

Welcome
Quirine van de Linde, Permanent Representation of the Kingdom of the Netherlands

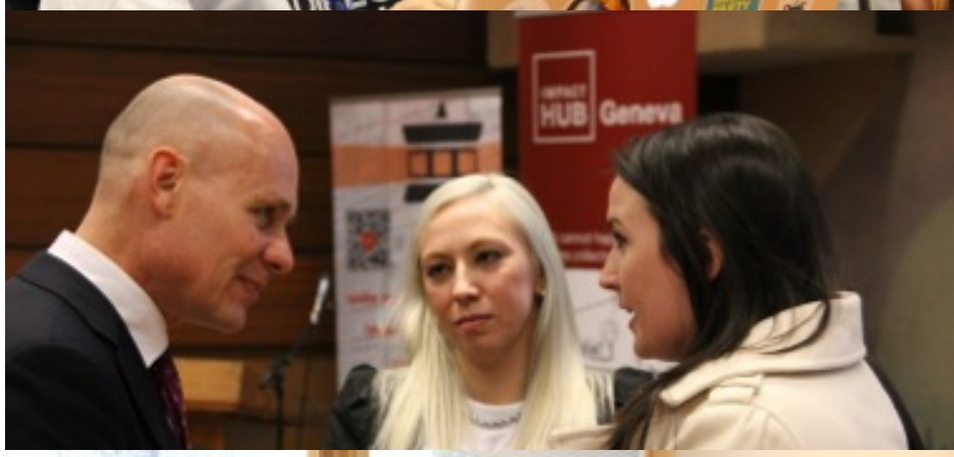
Human Rights DiploHack
Ines Knäpper, THE Port
Felix Staehli, Impact Hub Geneva

Introduction to Challenges
Christoph Peschoux, OHCHR

Pitches of results
DiploHackers of each of the 4 Teams
Kevin Koh, Dr. Robert MacKenzie, Michela Paganini & Brittany Robles, Irene Martinetti & Sasha Iatsenia

Address by the MFA NL
H.E. Bert Koenders

Address by DHC for Human Rights
H.E. Kate Gilmore



DIPLOHACK - high level side-event

Opening and Moderation

Quirine van de Linde

DIPLOHACK - high level side-event

Human Rights DIPLOHACK

UNITED NATIONS
HUMAN RIGHTS
OFFICE OF THE HIGH COMMISSIONER

Presentation of Diplohack Challenges

Christophe Peschoux

DIPLOHACK - high level side-event

Summary of the Human Rights Diplohack 2016

Ines Knäpper & Felix Stähli

DIPLOHACK - high level side-event

Video Summary of the Diplohack
https://youtu.be/N1heXaqMpyI

True Hero Films

DIPLOHACK - high level side-event

Presentation of the Team Results

Kevin Koh, Dr. Robert MacKenzie, Michela Paganini & Brittany Robles, Irene Martinetti & Sasha Iatsenia

PICTRUE

-

machine learning algorithm identifies if & what kind of Human Rights violation happens on any picture & video

PICTRUE - result

Researchable evidence database

Self-learning Assessment Framework for Rights (SAFR)

- integrated tool **incrementally improves** filtering, sorting & verifying images
- based on previous data, tool **increases capacity** to corroborate evidence from as many data sets as possible
- shifts human rights framework **from reactive** model **to proactive** model

Machine Learning
Image Pattern
Recognition

99.99% child classroom
0.01% none
0.0% child classroom
0.0% child labour

58.2% child classroom
31.6% child soldier
8.1% child labour
1.9% none

Human Rights DIPLO HACK

GET THE PICTURE

-

photo/video verification with different levels of confidence in the hand of every Human Rights officer

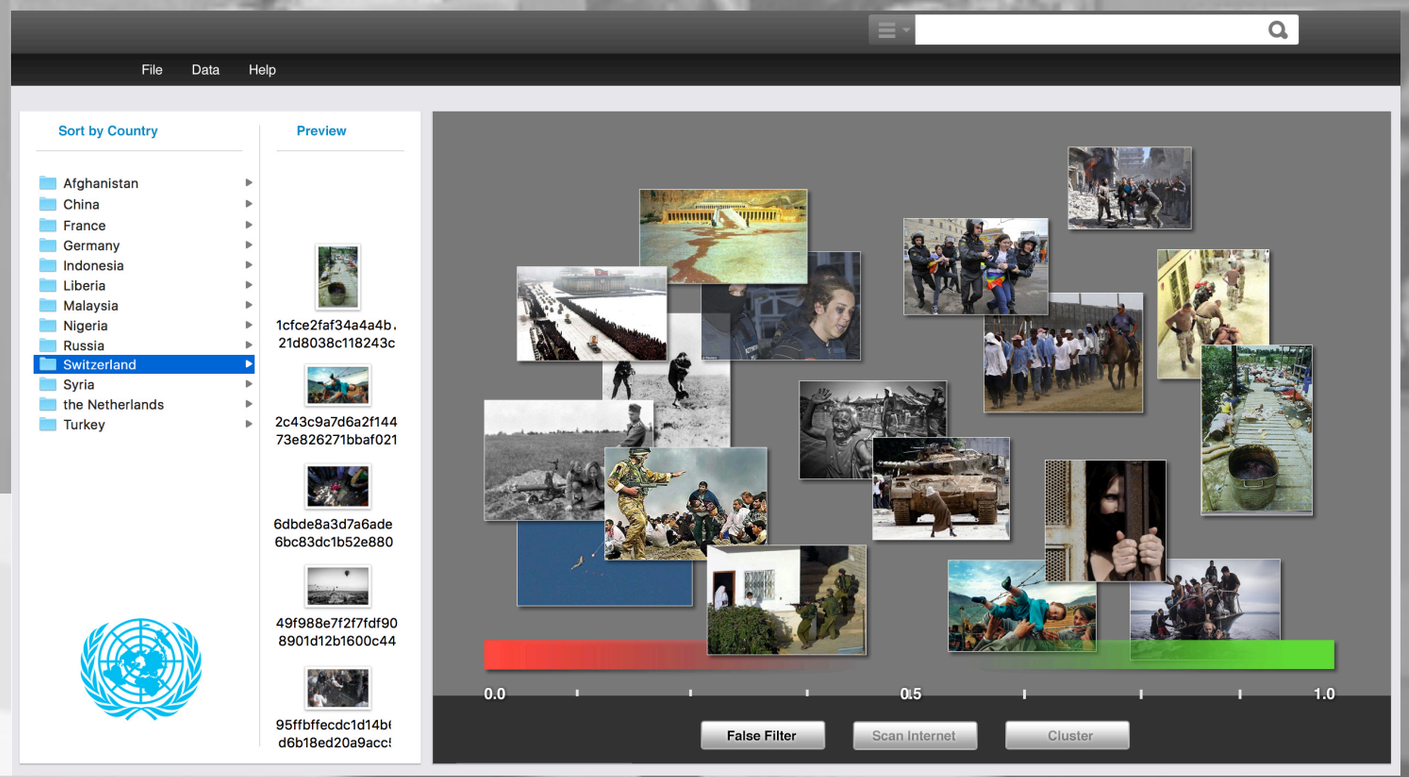
GET THE PICTURE - result

Tools for Verification

- *False Filter* - smart filter **identifies "false, tampered & manipulated"** data files
- *Clusterer* - (semi-) **automated content-based clustering** in **"cases"** (e.g. location & time)
- *Network of Helpers* - essence **crowd sourcing** of selected (prioritized) data sets
- **Ro(Bot)** – actively **scan Internet and social media** for case-related images & videos

Manipulated

Original



False Filter implemented in online file browser

FIRST DEFENDER TOOLKIT

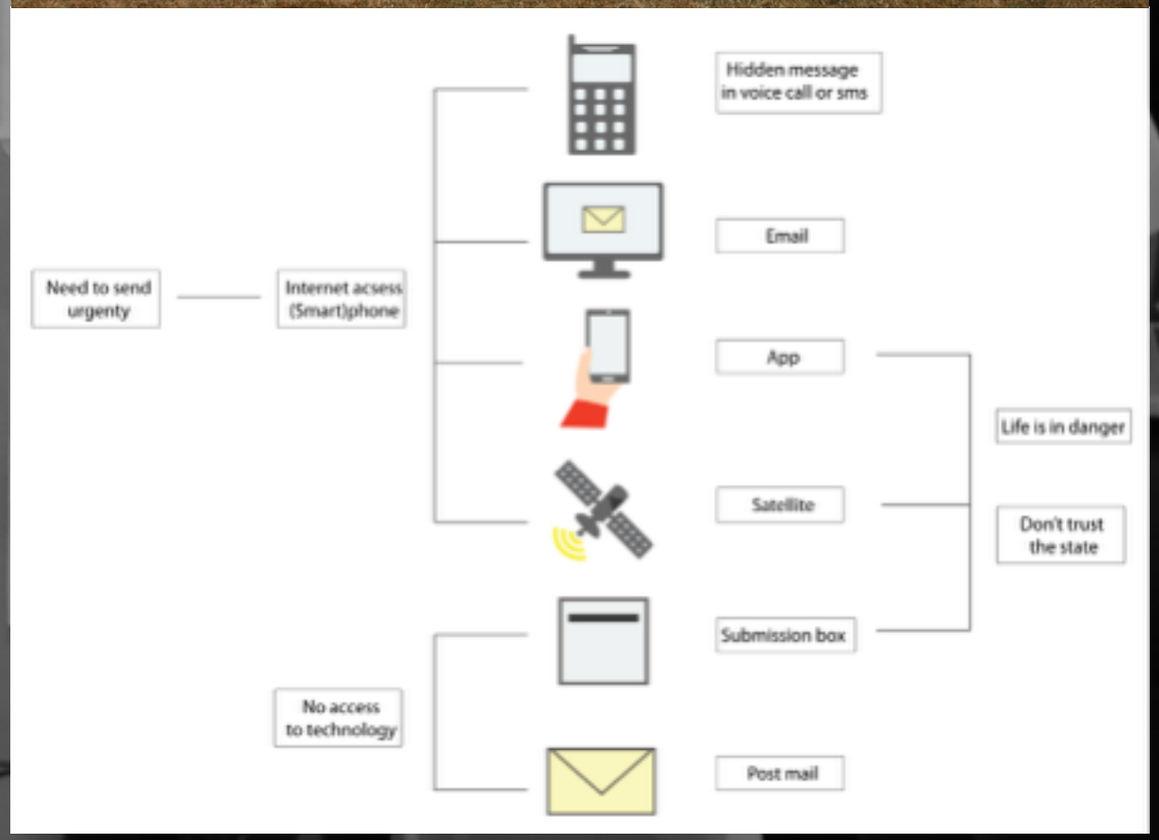
-

reporting Human Rights violation without technology expertise & leaving no trace of who it did

FIRST DEFENDER TOOLKIT - result

easy, high-tech & single-use satellite transmission box

low-tech classical mailbox - busy locations created by news boards allow anonymity



Human Rights DIPLO HACK

TEAM4EVIDENCE

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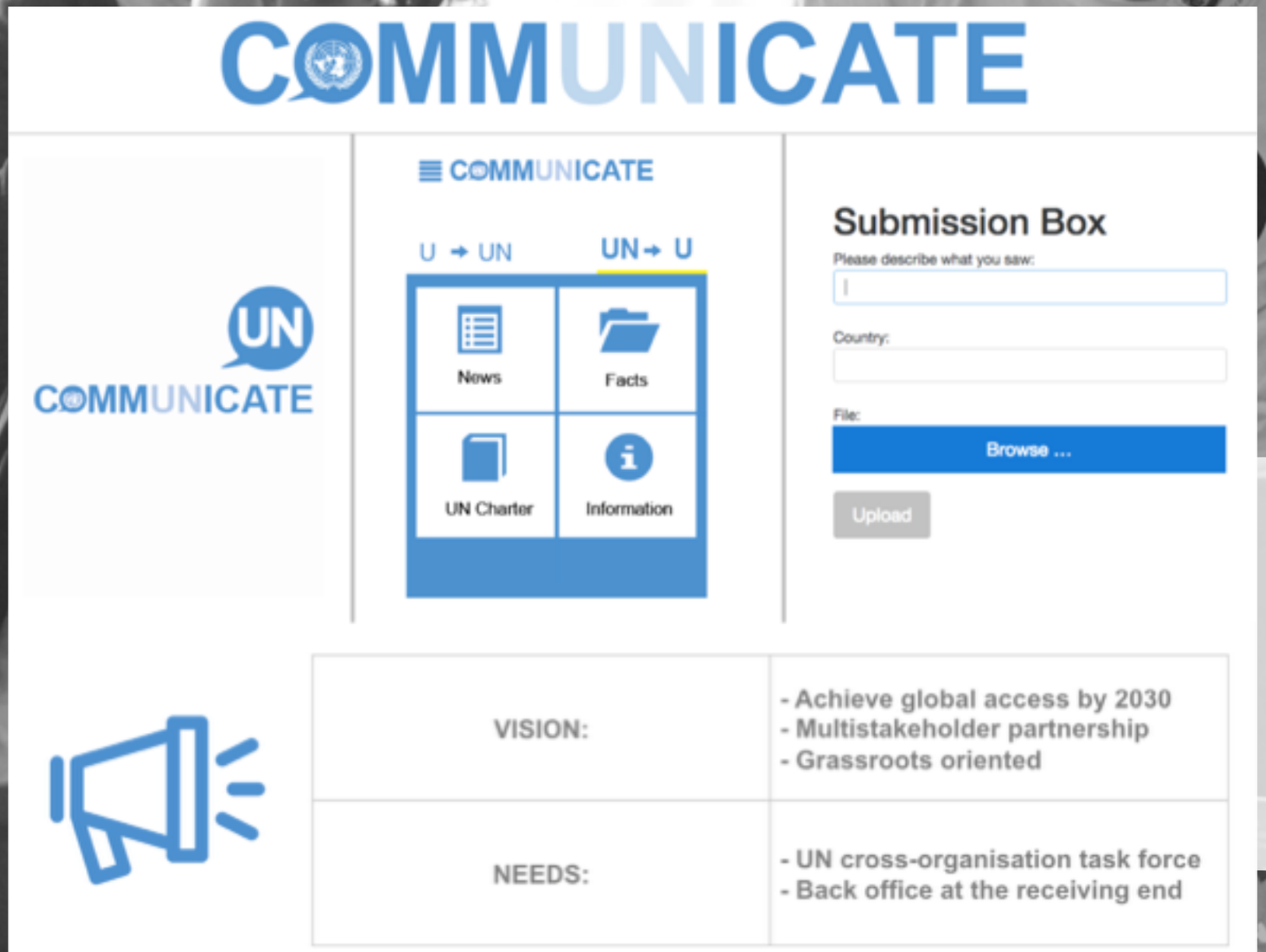
CommUNicate will allow easy, safe, secure & anonymous communication with the United Nations

TEAM4EVIDENCE - result

easy & secure
drag-&-drop file
upload



secure communication
fully embedded in
general UN
communication website,
app & strategy

website & app allow anonymous easy-setup communication

DIPLOHACK - HRC31 birthday present

This DiploHack and OHCHR logo was 3D printed during the hackathon

DIPLOHACK - speech Bert Koenders

"We have to innovate diplomacy."

Bert Koenders

"We need you, we need innovation for the cause of human rights!"

Bert Koenders

DIPLOHACK - speech Kate Gilmore

"Human Rights 2.0"

Kate Gilmore

"Never forget, always share and act in solidarity."

Kate Gilmore

DIPLOHACK - testimonials

"This small group of individuals hacked into the future where rights are respected."

Kate Gilmore

HOPE TO SEE YOU AT HUMAN RIGHTS DIPLOHACK 2017

Human Rights DIPLO HACK

ORGANISERS - Team

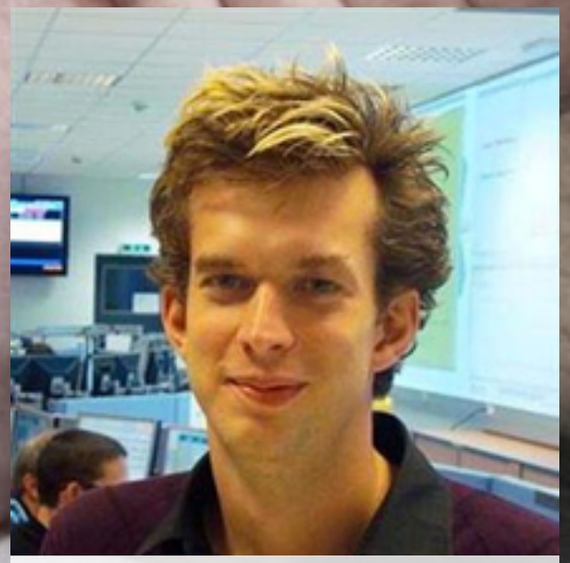
Quirine

Frank

Ines

Felix

Rutger



Daniel

ORGANISERS - THE Port

Swiss not-for-profit association, based in the heart of International Geneva.

We foster need driven innovation in the humanitarian sector by combining creative minds from CERN, International Organisations, NGOs, Academia and the Private Sector to work in interdisciplinary teams on topics beneficial to society.

More about our work at: www.theport.ch

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ORGANISERS - Impact HUB Geneva

Social innovation lab.

Incubator for purpose driven ventures. Learning community. We are connected to 70+ Impact Hub peer spaces and communities worldwide and focus in Geneva particularly on cross-sectoral innovation.

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