



Hack4SocialGood – Innovation Workshop for Inclusive Digitalization



Berner Fachhochschule
Haute école spécialisée bernoise
Bern University of Applied Sciences

31.03.2023 – 01.04.2023 – Generationenhaus, Bahnhofplatz 2, Bern

Getting these slides

Posted in our Plenum:

<https://team.opendata.ch/hack4socialgood/channels/town-square>

-> You need a login for access (see pre-event email)



Why are we here?

Helping



Learning



Fun



<https://hackcodeofconduct.org/>

Program

Friday

13.30-13.40	Intro
13.40-14.10	Keynote
14.10-15.00	Panel
15.00-15.20	Coffee Pause
15.20-16.00	Teams
16.00- 23.00	Teamwork
18.30/19.00	Pizza



Saturday

8.00-9.00	Breakfast
9.00-15.30	Teamwork
15.30-16.30	Teams present
16.30-17.00	Apero (jury)
17.00- 18.00	Prizes/Apero

Language!

Participants

- DE no EN (approx. 10)
- EN no DE (approx. 6)

Event

- Intro EN/Panel in DE
- Teamwork mixed

Kids!!

- Fun Learning (Blue-Bot, Lego Robots)
- Outside Playground!
- Snacks/Lunch!
- ...and of course visits to mom/dad

[Link to Detailed Program](#)

A BIG Team Effort!



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oliver.huembelin@bfh.ch



laet@zhaw.ch



maria.sokhn@he-arc.ch



joshua.weber@fhnw.ch



oleg@datalets.ch



tobias.fritschi@bfh.ch



OTTO WIRZ – STIFTUNG



Christoph Merian Stiftung



HASLERSTIFTUNG PH Bern

Pädagogische Hochschule

Thanks to all you participants!



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Hack4SocialGood, Bern, 31.03.23

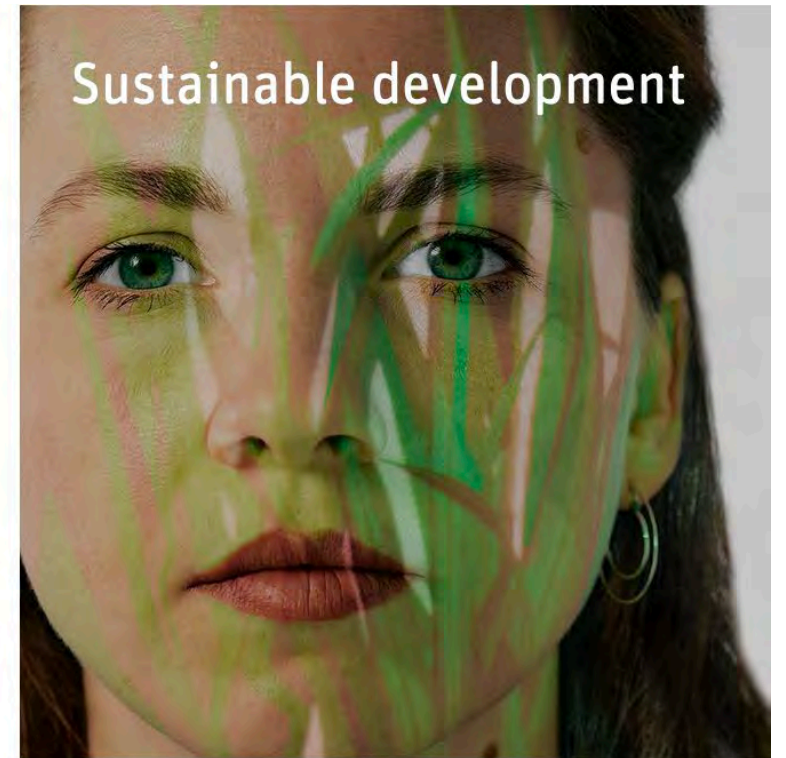
Humane **Digital** Transformation @ BFH

Sarah Dégallier Rochat

► BFH Strategic Thematic Fields - Humane Digital Transformation

Strategic Thematic Fields

The BFH as an agent for responsible social transformations



We have the power to **design, develop and integrate digital technologies**

to align with our vision of a just and equitable future.

Our levels of actions

R&D Projects

Expertise and Services

Education

Social Participation

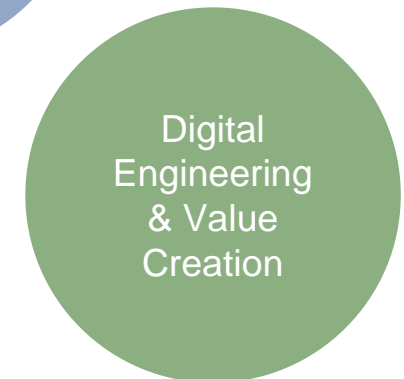
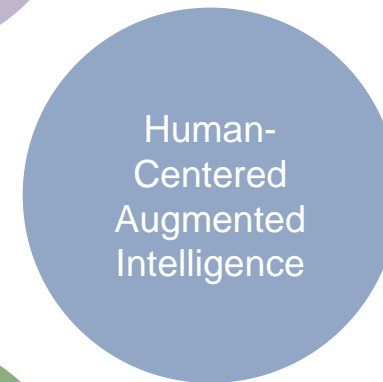


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Humane Digital
Transformation

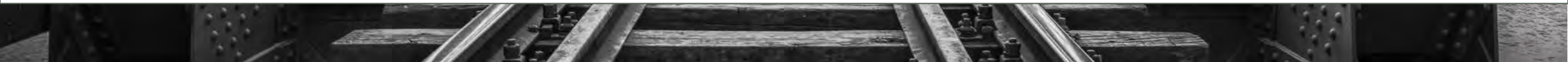
Goals of the TF *Humane Digital Transformation*

- ▶ Foster **digital upskilling** and **digital literacy** for all
- ▶ Ensure a **human-centered design** and **integration** of digital technologies
- ▶ **Develop digital tools that empower people** at work and in their daily life





We spend a lot time *designing* the bridge,
but not enough time *thinking about the people* who are crossing it.
Dr. Prabhjot Singh, Director of Systems Design at the Earth Institute



Interested? Contact us!



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www.bfh.ch/humane-digital-transformation





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Presentations

Hack4SocialGood 2023, March 31-April 1



Berner
Fachhochschule

Augmented Intelligence in the Digital Society of the Future

Prof. Dr. Mascha Kurpicz-Briki

Applied Machine Intelligence

Bern University of Applied Sciences, Switzerland

<http://www.bfh.ch/ami>

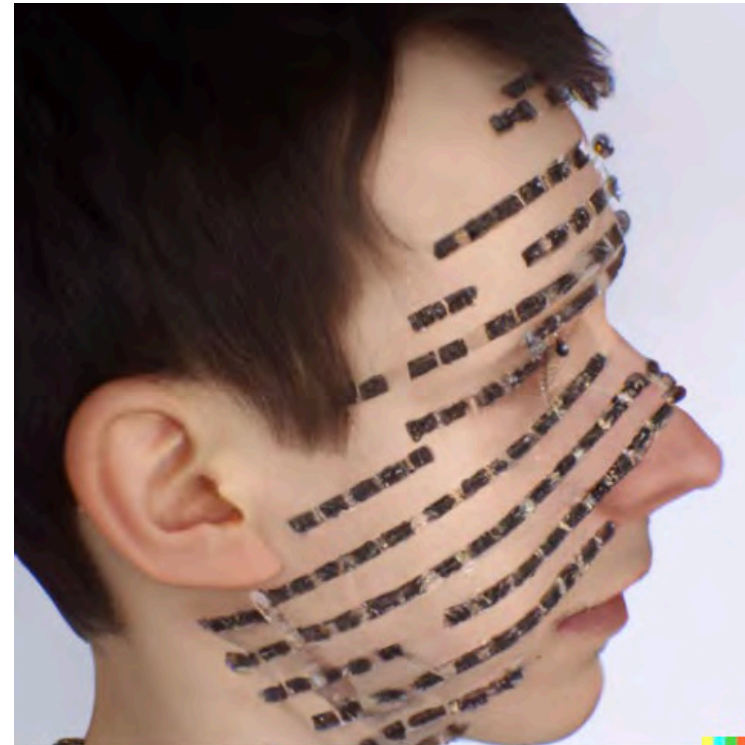
DALL-E: How does a generative AI imagine the society of the future?

„artificial intelligence and humans in the society of the future“

Created by



DALL·E





...



Share

Save ▾

“cats sitting on the beach eating ice cream in van gogh style”

M

Mascha × DALL·E

Human & AI

First of all, let's take a look behind the scenes of machine learning...

Traditional Software

ingredients + specific instructions =
result



Image Source: pixabay.com

Artificial Intelligence

„machine learning“



(Supervised) Machine Learning in a Nutshell

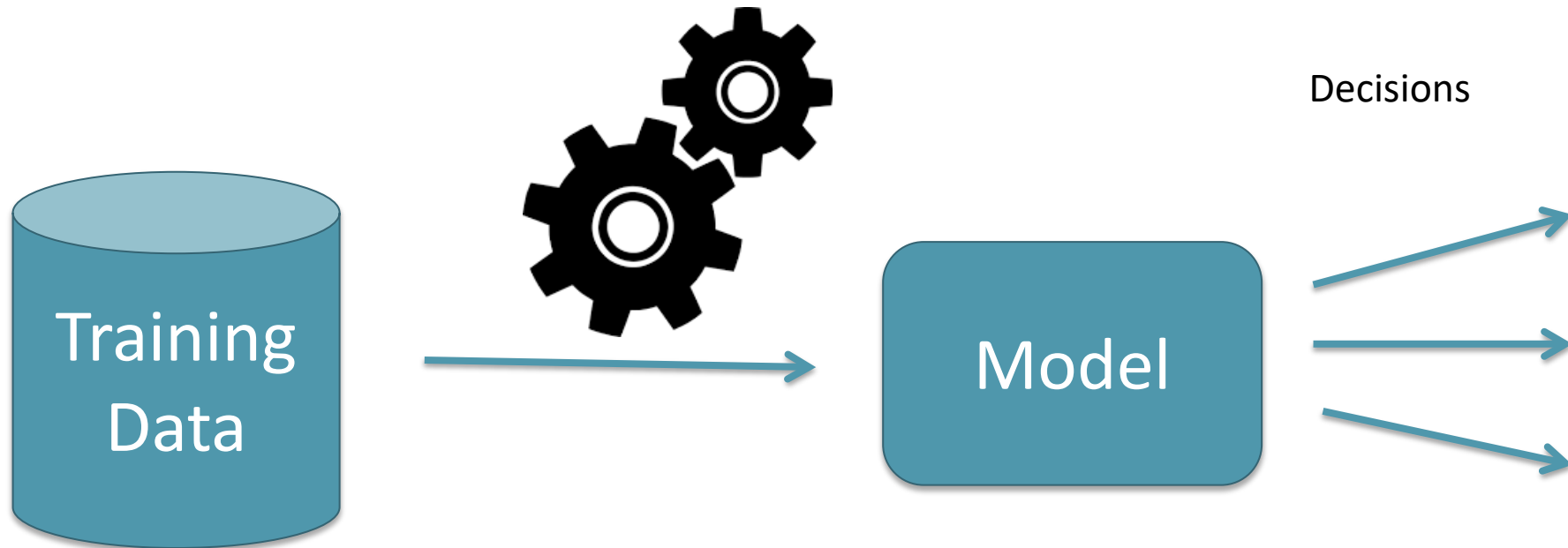
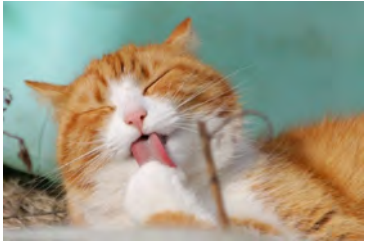


Image Source: <https://publicdomainvectors.org>

Cat



Cat



...



??



Cat

Dog



Dog

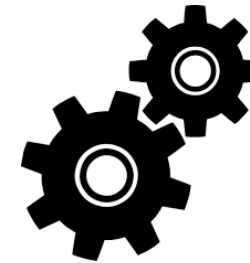


Image Source: pixabay.com

The future is now: potential of text-based AI applications in daily (business) life:

- **machine translation** of texts and documents
- **generation** of small, repetitive texts
- **Information extraction** from documents, **classification** of documents in categories
- **Chatbots** when dealing with many similar requests (often in collaboration with human intervention)

Bias in AI (including NLP)

Problem

News Headlines

« Tay: Microsoft issues apology over racist chatbot fiasco »

« Why your voice assistant might be sexist »

« Google apologises for Photos app's racist blunder »

« Amazon scraps secret AI recruiting tool that showed bias against women »



Machine Learning Algorithm



Model

Smart Decision Making

Is it fair?

It has been shown that often, AI reflects stereotypes of our society, which influences the automated decisions. Due to the complexity of the problem, there is no out-of-the-box solution for all setups.

What does Fairness mean to **YOU**?

The Definition of Fairness...

... for an application to grant a loan?

... for an application to sort screws into boxes?

... for an application to sort job applications?

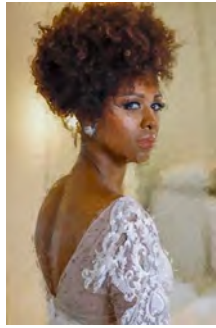
... for an application that is used only in Switzerland?

... for an application that is used world-wide?

Tech-Company Recruiting Bias

- Automated scoring of new job applications
- Trained against CVs of the past 10 years
- Application became biased against women
- Because of the male-dominated training data, the algorithm learned to prefer men

Source: <https://www.reuters.com/article/us-amazon-com-jobs-automation-insight/amazon-scrap-secret-ai-recruiting-tool-that-showed-bias-against-women-idUSKCN1MK08G>



...

Bride

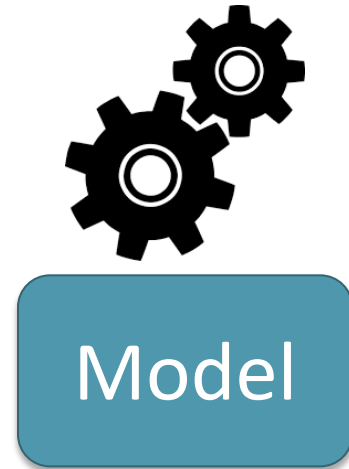
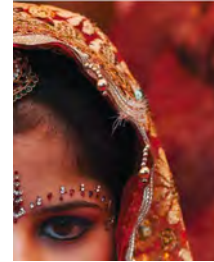
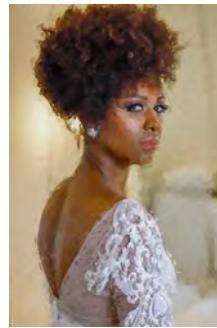


Image Sources: pixabay.com, iStock/Getty; Prakash Singh/AFP/Getty



Cultural Bias!

?? → ??

?? → Bride



...

Bride

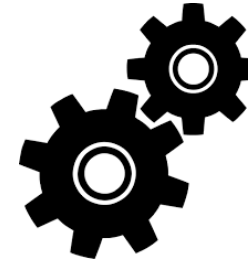


Image Sources: pixabay.com, iStock/Getty; Prakash Singh/AFP/Getty

BIAS: Mitigating Diversity Biases in the Labor Market

- use of Artificial Intelligence in the labor market
- how biased human processes are reproduced in AI
- identify and mitigate bias in the recruitment process, in supporting AI products, and in particular in text processing



Horizon Europe (HORIZON)

It is probably nearly impossible to have a **bias-free** application or **bias-free** training data

What we need is **awareness** and the **right questions**.

For **each** individual project.

- Which types of bias are **relevant** for the fairness of **your** application?
- If we have a **bias in the historical data** – what to do?
- Adapt the data? Question/Adapt the results?

Particular attention/regulations for applications that

(1) decide about **people**, or

(2) about **ressources concerning people**, or

(3) make decisions about the **inclusion** of people

Source: Zweig, K. A., Fischer, S. & Lischka, K., 2018. Wo Maschinen irren können. *AlgoEthik-Reihe der Bertelsmann-Stiftung*, Volume 4.



*How does the society of
the future look like?*

Image Source: pixabay.com

Two types of AI

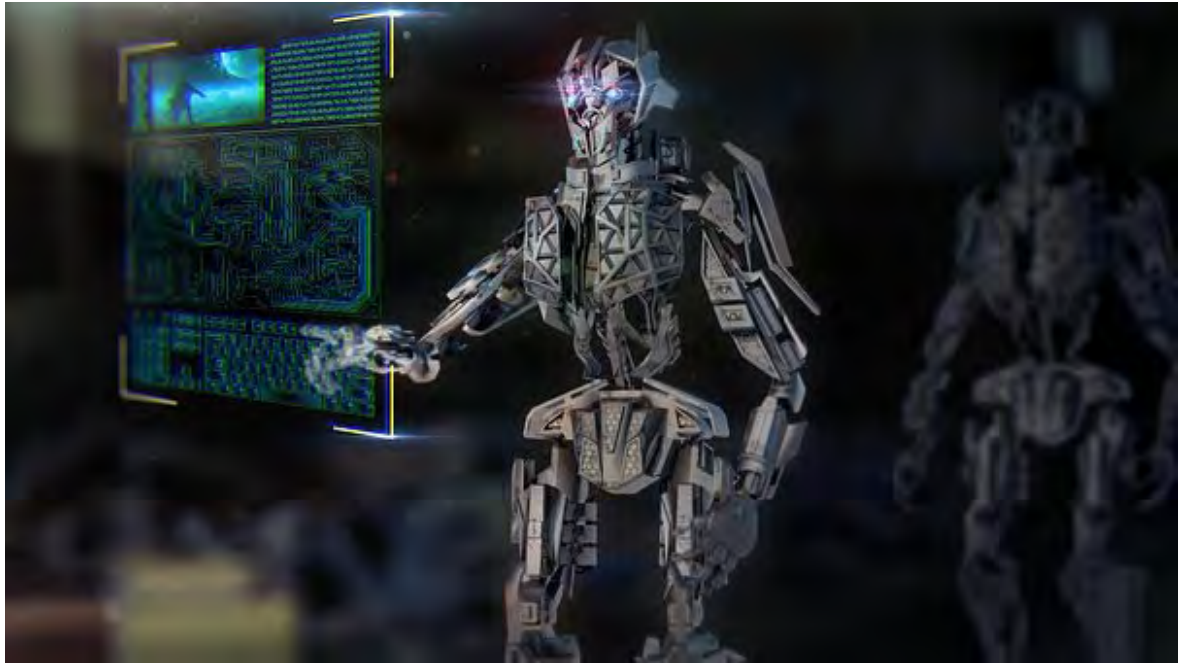


Image Source: pixabay.com

Augmented Intelligence, rather than Artificial Intelligence

- Empower humans, rather than replacing them
- Support repetitive tasks with AI, giving more time for interesting tasks to humans
- Automated processing of documents, information extraction, etc.



Image Source: pixabay.com



Berner
Fachhochschule

Questions?

Prof. Dr. Mascha Kurpicz-Briki
Applied Machine Intelligence

mascha.kurpicz@bfh.ch

Panel

David Lätsch, Professor ZHAW School of Social Work

Sophie Acherman, Stop Hate Speech



Beat Hohermuth, Diartis



Rafael Freuler, Jugendarbeit.digital



Pause





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The Challenges

Hack4SocialGood 2023, March 31-April 1

Challenge Pitches

	Organization	Name
Fachsoftware modernisieren / Modernising software	soquflex	Stefan Schlumpf
AI - Unterstützung für Jugendliche / AI-supporting youth	Jugendarbeit.digital	Rafael Freuler
Webbasierte Applikation / Web-based application	Vereinigung Berner Gemeinwesenarbeit	Nina Müller
Freiwillig Studenten/Volunteer students	Sustainability Week Switzerland	Ina Schelling
Community App	Bonjour	Sam Scheider
Digital Unterstützung von Klienten/ Digitally supporting clients	Sozialdienst Münchenbuchsee	Stefan Lerch
Matching software	Gärngschee Basel	Sandie Collins
Menschen in Not-Freiwillienhilfe / Needy-Vounteers	Certaid	Matthias Pieren
Online-Antragssystem / Online application system	Winterhilfe Bern	Miriam Bruelhart
Automatische Übersetzung der Datenerhebung	Helvetas	Rebecca Laes-Kushner
KI für informierte Bürger / AI for informed citizes	Campax	Noor Alamery
Digital-Analoge Dialog Stadtplanung	Stadtteilsekretariat Basel-West	Angelina Koch
Interaktive digitale Quartierkarte/Interactive digital neighborhoods	Zürcher Gemeinschaftszentrum	Franziska Obrist

4 min. each; note org/name of interest

Soquflex Hack4SocialGood 2023

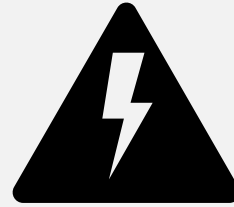
Stefan Schlumpf

31. März 2023

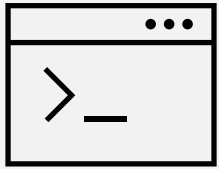
Goal

Create specialist software as a web app and modernize it with support planning

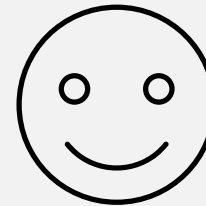
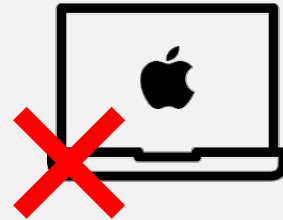
Starting Point



Current



Windows-
APP

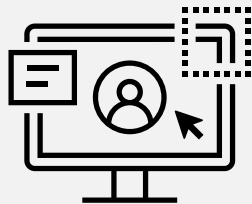


Windows-
User



Mac-
User

Hack4SocialGood 2023



Web-APP



Alle-Benutzer

Assignment

«Software»

Create a new web application using the latest technology:

- Frontend (e.g., react.js, Angular, Vue.js, ...) and Backend (z.B. Java, Python, ...)
- Database
- Login
- Modern User Interface (i.e., Bootstrap)



= Software Designer/ UX-Designer

«Professional»

Elaborate a smart and elegant idea of how modern planning should look:

- Target setting and planning
- Development
- Measurement/ Visualization



= Business Engineer / Social Sector/ UX-Designer

Ressources

Edit style sheets master text

The following resources are in the Bitbucket Repository:

- This presentation
- Current windows version and a Soquflex database
- Screenshots of the current version
- Rough database schema
- Suggested framework

soquflex 

Danke

Support broker bot for teens

Chat bot to connect teenagers to the best human support possible

Jugendarbeit.digital

What is it about?

Create a chat bot for teenagers that are seeking help:

1. Teenagers describe their problem to the chat bot
2. The bot suggests the appropriate help lines or support organisation to get help for the described problem
3. Teenagers find support from a real human, that understands their issue, as quickly as possible.

Why is it important?

37% of teenagers have mental health issues¹.

29% don't talk to anyone about it.

Looking for help online is unreliable and frustrating.

There are over 2700 specialized support organisations for teenagers in Switzerland.

Let's connect teenagers with the right contact for their issue.

¹<https://www.unicef.ch/de/unsere-arbeit/schweiz-liechtenstein/psychische-gesundheit>

Jugendarbeit.digital

What resources will you provide?

- DB with 2700 Support contacts
- Server infrastructure
- Rocket.chat chat infrastructure, if needed
- Development support on Friday, as needed
- Conceptual support Friday and Saturday, as needed
- After the Hackaton:
Partnerships with over 100 municipalities and regions for potential beta tests and



VBG

Vereinigung
Berner
Gemeinwesenarbeit

Für lebendige Quartiere!

The idea of a helpful search function platform for people with disadvantages to find quick and helpful information and social institutions.

What's the challenge about?



How people in need find quick & helpful institutions using digital research?

How could a search mask with embedded translation function and selecting filters look like?

Why this is important?

Many residents have problems to find a helpful institution.

For many institutions the reaching of their target group is challenging.



Which resources can be provided?

- ▶ Lists of existing search / information websites
- ▶ Bad examples
- ▶ List of social institutions in Bern

Contact for more information

Nina Müller

Nina.mueller@vbgbern.ch // 078 208 92 59

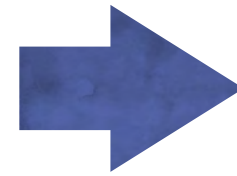
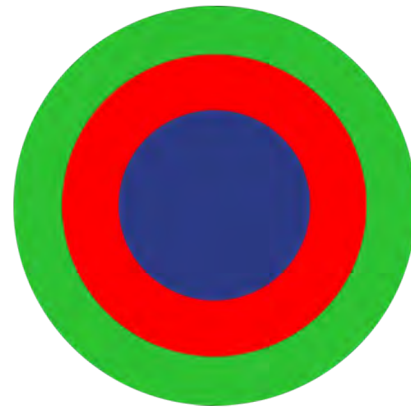
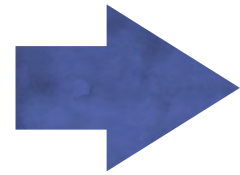
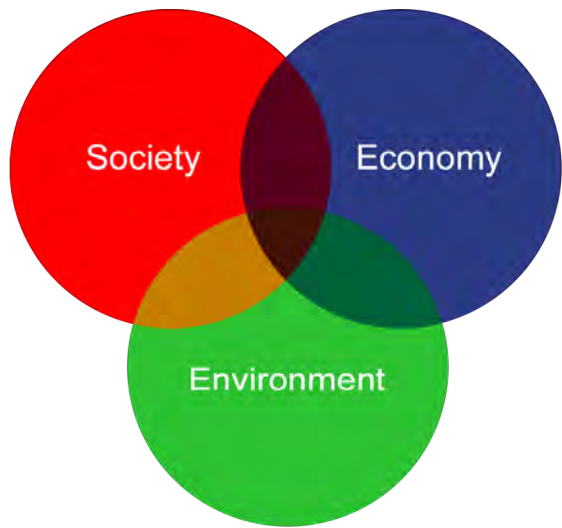


Sustainability Week Switzerland



SWS Logo and Vision

STRONG SUSTAINABILITY



Local Sustainability Weeks



Mentor to act

Skill Development and
Youth Empowerment



Inform to inspire

Event Series



Empower to enable

Demands and Solutions



Encourage to change

Network for Support
and Cooperation

Challenge

- Working in decentral/ local student teams
- Data collection in general, Usage of data
- We are looking for a Tool to help us organise the collaboration and data collection

Goal:

Working together, learn from each other as students
Using the knowledge from a diverse field of studies
Hand down knowledge and inspire others to act more sustainably as well

Get in Touch!

The community App challenge by Bonjour



What is our challenge about?

What does an app or a digital/hybrid tool need to motivate and allow people of different backgrounds and generations to **Get in Touch** with each other, find their community or create new ones?



Why does this matter?

Social contacts are one of the most important pathways to **personal well-being** and **resilience**.

They are the **basis** for the **social cohesion** and **resilience of societies**.

Access to social interaction, also digital, should be **possible** for **everyone** (See Human Rights UNCRPD and 17 SDGs).

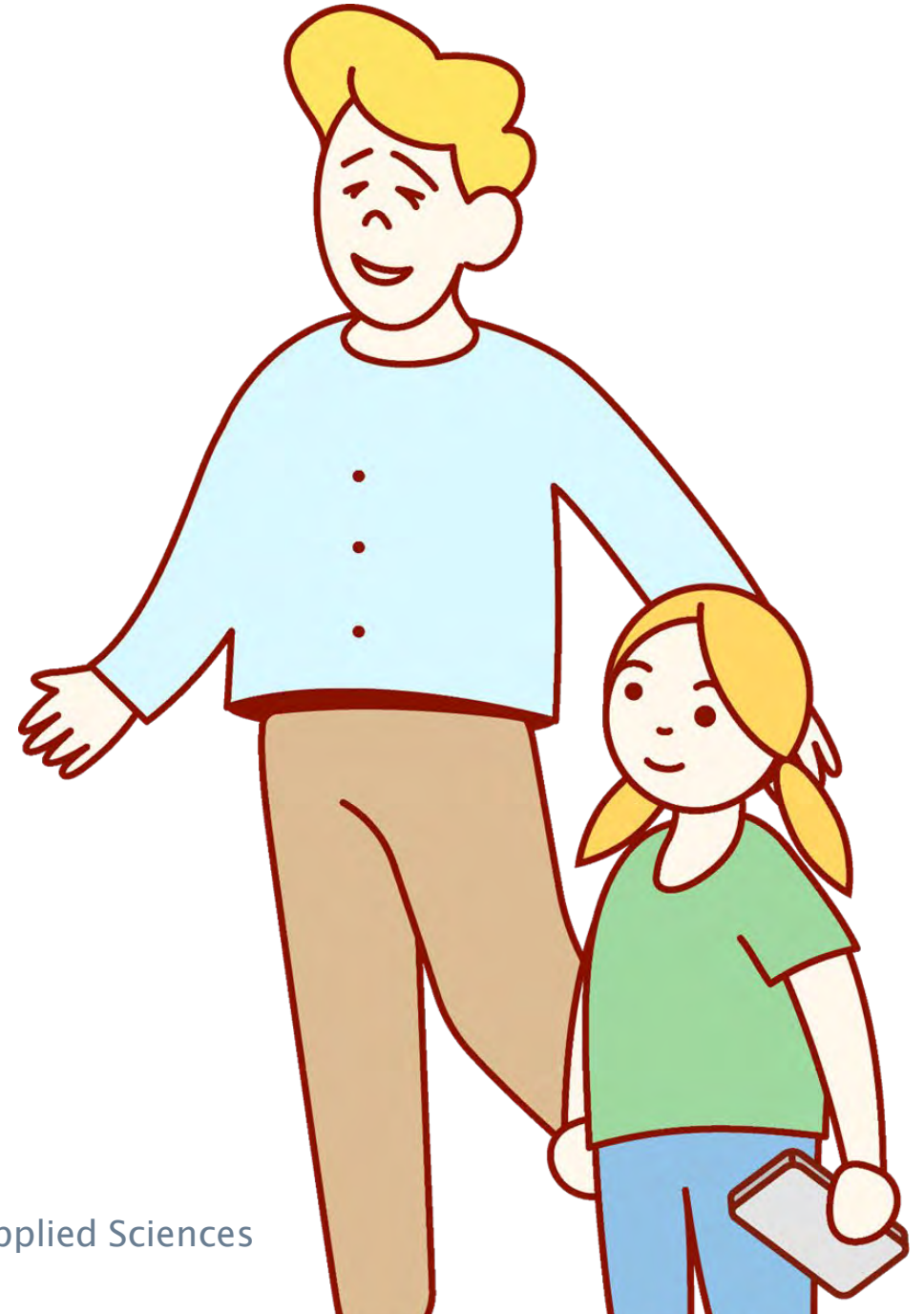


Hansueli and his granddaughter Lisa

Technically interested, yet sceptical

Proud grandfather, active and involved

Gen Z, digital native, glued to her phone



Rosemarie

New living situation and environment

Open minded and broad interests

Limited Mobility



Jeremy

Expat, here for 3 years

Not familiar with local culture

Socially interested but rather shy

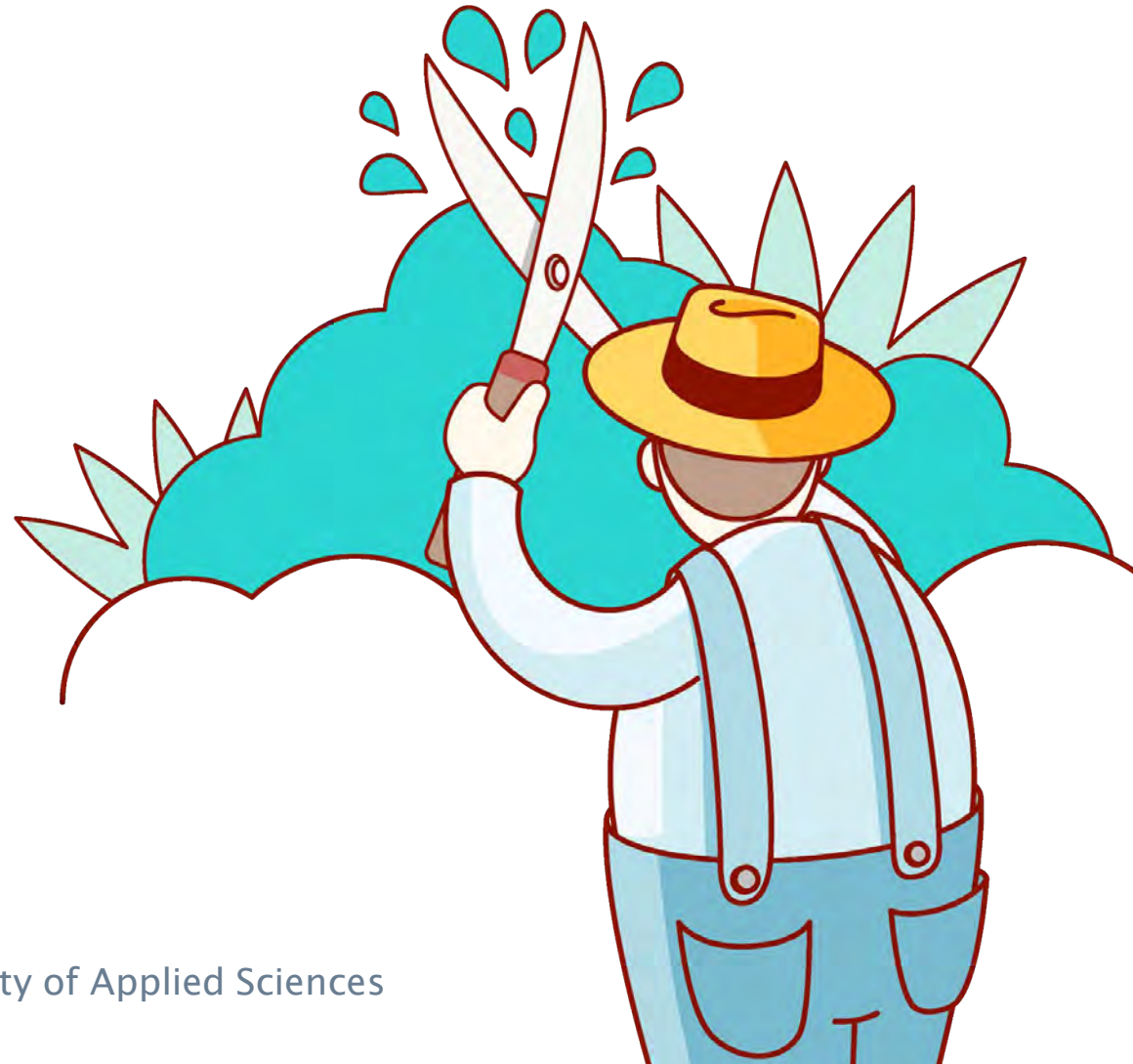


Giuseppe

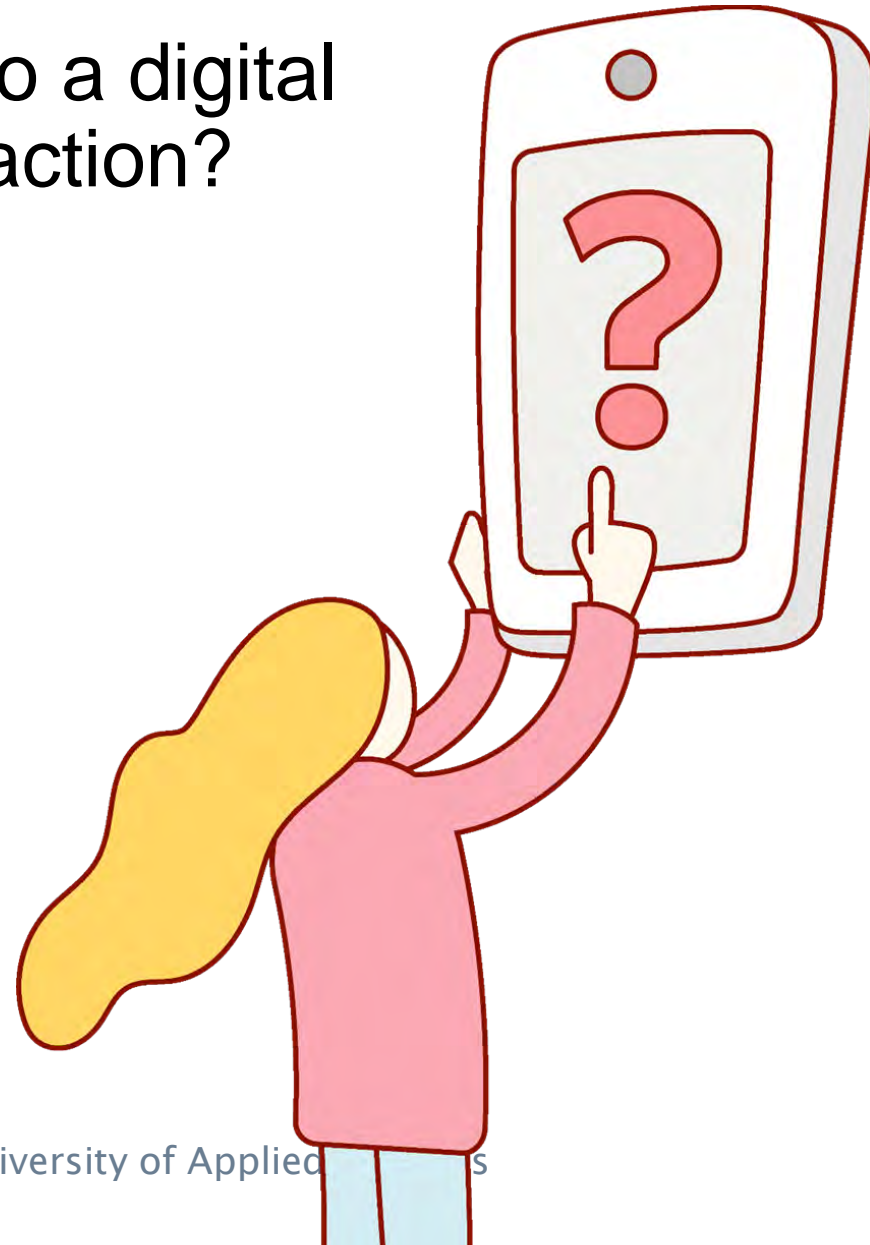
Immigrated in the 1960

Kids having their own families

Needs help, but whom to ask?



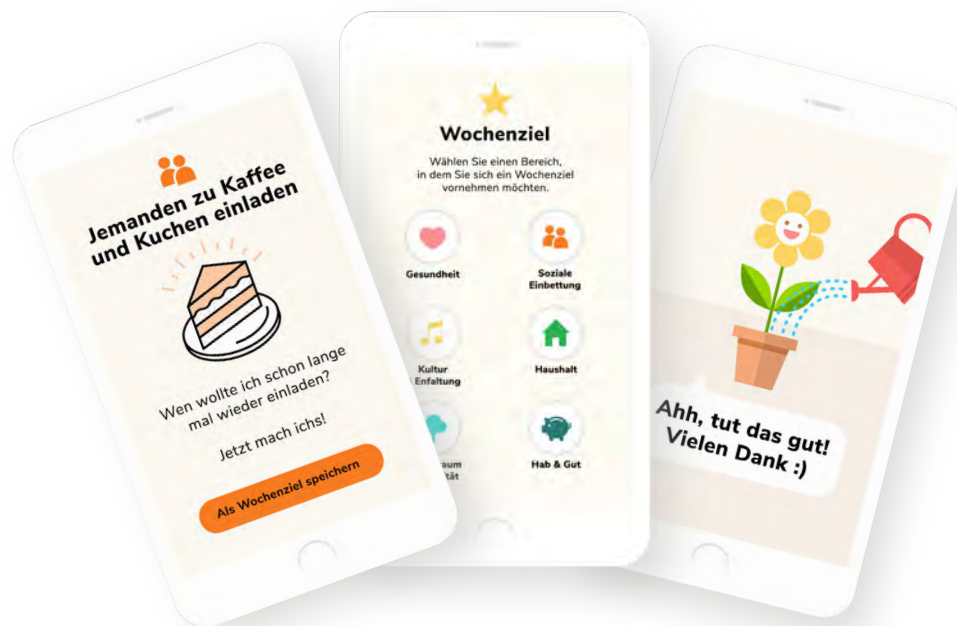
So, how can a new approach to a digital app promote more social interaction?



What we provide



The Human Resource:
Ask instead of assume



Hack an App:
The Bonjour GROW App (Focus self motivation / with an array of activities)

<https://bonjour.help/bonjour-grow-app/>



Code:
Open source code of the Angular Progressive Web App:

<https://github.com/bonjour-foundation/grow>

Wanted

We call on **creative minds, developers** and **problem-solvers** to join our challenge and develop an innovative digital solution that **brings generations and people of different backgrounds together** and **promotes social interactions.**



Join us and
shape the future
of social interaction

Gärngschee's (You're Welcome's) Wish List Campaign



- Lockdown
- Neighborhood assistance
- Helping the poor
- Food distribution
- Wish list campaign

Wunschzettelaktion 2022

Challenges

- ▶ Managing wish applications
- ▶ Verification of need
- ▶ Administration of wish fulfillment
- ▶ Administration of donations, potentially taken over by corporations
- ▶ Preparing the wishes in a presentable form



How we do it now

- ▶ Google-Form for wishes
- ▶ Google-Form for those fulfilling wishes
- ▶ 2 Google presentations (material vs. gift certificates)
- ▶ Many, many subtables....



Provided Resources

- ▶ Google Tables with examples
- ▶ Google presentation with examples



certaid – connecting help seekers and helpers

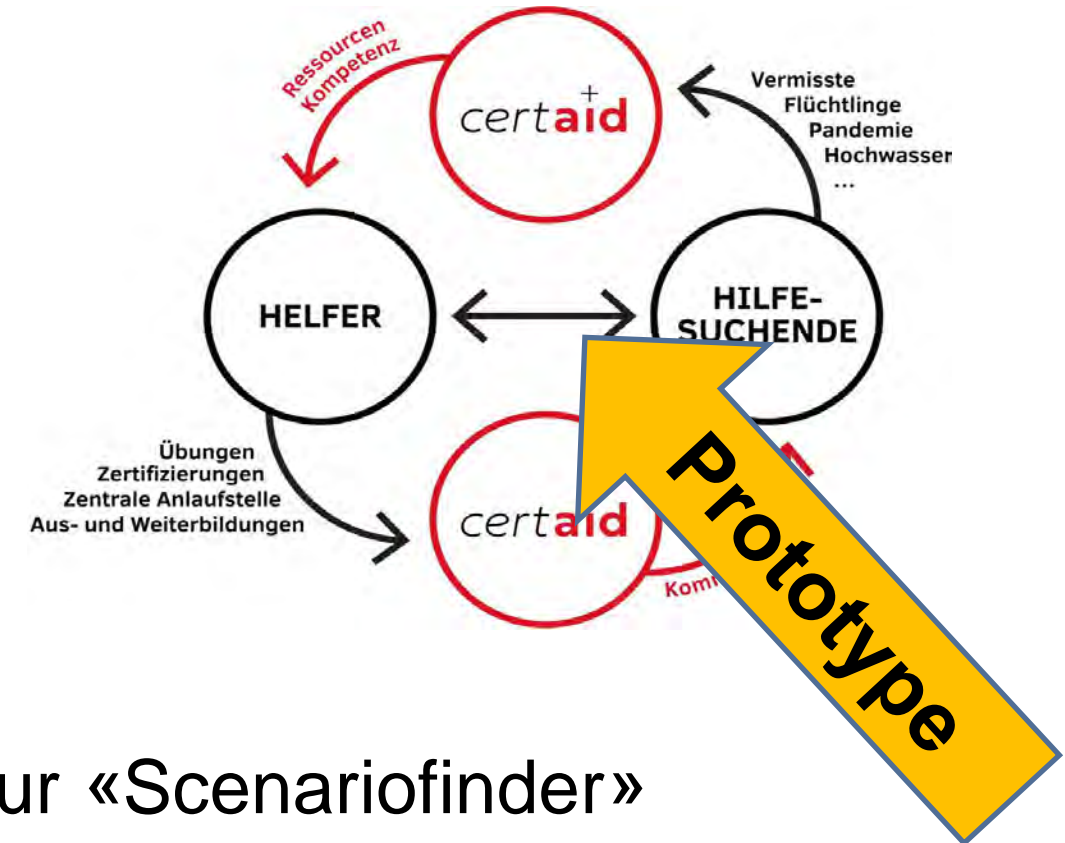
VERMISST



Um was geht es? / What is it about?

A general tool for volunteer-needy matching

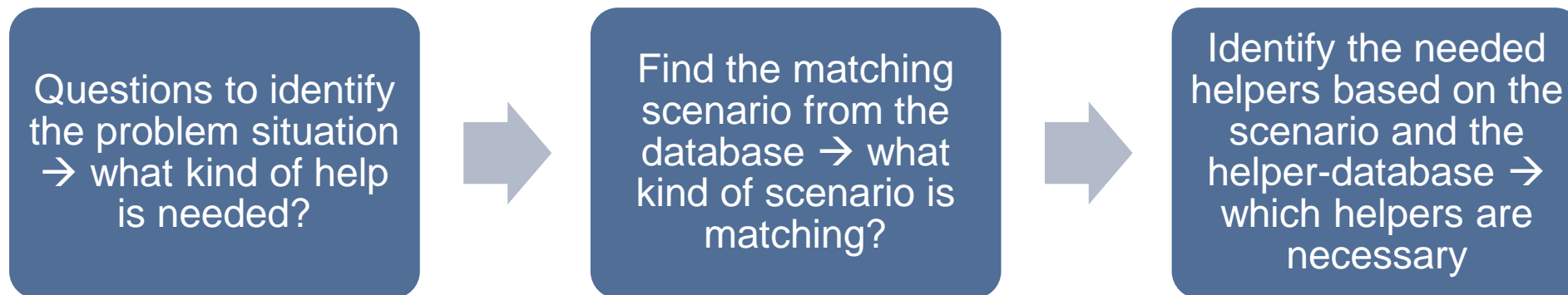
- fast
- easy
- safe



Target: build and run a prototype of our «Scenariofinder»

Um was geht es? / What is it about?

Challenge target: Prototype of the „scenariofinder“



With the «scenariofinder» we can find the right helpers in less time!


Weshalb ist das wichtig? / Why is it important?

Potentially up to **2 Million** additional volunteers



Volunteer-Need matching could solve a lot of problem

Diverse unfulfilled needs

 **Luzerner Zeitung**
<https://www.luzernerzeitung.ch> > aargau > aarau > furs-k... ⋮

Fürs Kindercafé Aarau gibt es zu wenig freiwillige Helfer

 **Schaffhauser Nachrichten**
<https://www.shn.ch> > region > vie... · [Diese Seite übersetzen](#) ⋮

Viel Papierkram und zu wenig Helfer - Schaffhauser Nachrichten

 **Berliner Zeitung**
<https://www.berliner-zeitung.de> > Berlin ⋮


Immer weniger Freiwillige: Die Helfer brauchen Hilfe

 **Landanzeiger**
<https://www.landanzeiger.ch> > aktuell-sehr-viele-igel-j... ⋮

Aktuell sehr viele Igel, jedoch viel zu wenig Helfer

 **Thuner Tagblatt**
<https://www.thunertagblatt.ch> > Sport > Leichtathletik ⋮

Wenig Hotelzimmer, fehlende Helfer: Turbulent bis zum ...

 **Projektwoche.ch**
<https://projektwoche.ch> > helfer ⋮

Helfer gesucht - Projektwoche.ch

Helfer gesucht. Möchtest du Geschichte schreiben und Teil der Projektwoche Züri Oberland 2021 werden? Dich erwarten 5 spannende Tage – auch als Helfer ist ...

 **gurtenCLASSIC**
<https://www.gurtenclassic.ch> > helfende-gesucht ⋮

Helfer*innen gesucht - gurtenCLASSIC

Helfer*innen gesucht ... Helfer*In suchen und von einem Gratisstart profitieren! ... Melde uns hier eine Helferin oder einen Helfer, welche/r an der 40.

 **SBV-FSA.ch**
<https://www.sbv-fsa.ch> > news > freiwillige-helfer-ges... ⋮

Freiwillige Helfer gesucht! - SBV-FSA.ch

Freiwillige Helfer gesucht! Möchten Sie blinde oder sehbehinderte Menschen auf. Ausflügen, Besichtigungen, Führungen, Museumsbesuchen, Theateraufführungen ...

 **Welt Jugendmusik Festival Zürich**
<https://www.wjmf.ch> > dringend-helfer-gesucht ⋮

Helfer gesucht - WJMF

Helfer gesucht. Hast du Lust auf ein unvergessliches Erlebnis sowie einzigartige Begegnungen mit jungen Musizierenden aus aller Welt?

 **Quellrock Open Air**
<https://quellrock.ch> > Allgemein ⋮

Helfer gesucht! - Quellrock Open Air

Helfer gesucht! Über 200 freiwillige Helferinnen und Helfer sind vor, während und nach dem

Welche Ressourcen werden zur Verfügung gestellt?

What resources will you provide?

- ▶ Use-Cases
- ▶ Mockups
- ▶ Scenario-Data
- ▶ An expert in searching for missed people—to help with example case.

Stadtteilsekretariat Basel West

HOME IMPRESSUM

informiert **berät** koordiniert vermittelt begleitet
kommuniziert arbeitet zusammen **vernetzt vertritt** unterstützt

NEWS SCHWERPUNKTE MITWIRKUNG VERANSTALTUNGEN PROJEKTPORTAL BASEL-WEST ÜBER UNS KONTAKT

NEWS > [22. März 2023] Filmvorführung und Gespräch: Biologische Landwirtschaft und Permakultur in der

SUCHE ...

NEWS AUS DER VERWALTUNG UND POLITIK



Workshops für Veranstalter: Nachhaltige Events in Basel

Das Amt für Umwelt und Energie lädt Veranstalter von Events ein zur Workshopreihe „Nachhaltige Events Basel-Stadt“. In vier Workshops beleuchten die Teilnehmer:innen das Thema und laden baselstädtische Veranstalterinnen und Veranstalter ein, mitzudenken und sich einzubringen. [mehr lesen ...]

40 5154556
Stadtteilsekretariat
BASEL-WEST
10
JAHRE
STS-BW

NEWS AUS DEM STS BASEL-WEST

20. APRIL 2023
19.00 UHR SCHWEIZ
20.00 UHR UKRAINE

FILMVORFÜHRUNG
UKRAINE



Challenges

- „Stadtteilsekretariate unterstützen auf der Ebene der drei städtischen Wahlkreise eine nachhaltige Stadtteil- und Quartierentwicklung, um soziale Strukturen langfristig aufrechtzuerhalten. Sie fördern Vernetzungen, Mitwirkung, Integration und das Zusammenleben und stärken die Eigenverantwortung und das Engagement von Bewohnenden. Stadtteilsekretariate sind als Trägervereine organisiert. Mitglieder sind im Stadtteil oder in den Quartieren des Stadtteils aktive Vereine und Organisationen. Als Schnittstellen zwischen Verwaltung und Stadtteil bündeln die Stadtteilsekretariate Vorschläge, Anregungen und Meinungen aus der Bevölkerung.“ www.stsbw.ch
- **Projekt:** Eine 1,5 km lange Strassenachse wird umgestaltet und neuer öffentlicher Raum kann gewonnen werden. Im besonderen können die Zivilgesellschaft, KMUs und Institutionen entlang des Strassenraums (eg Nutzungen, Korrespondenz zum öffentlichen Raum) partizipativ eingebunden werden.
- Strategische, öffentliche Leitbilder und Konzepte können Anwendung finden unter Einbezug der Bevölkerung.
- Information – Aktivierung – Handeln Eine mögliche technische Applikation soll sich diesen Prämissen widmen und das lokale Gewerbe stärken.



Digital-Analog-Netze für den städtebaulichen Dialog

- Nötige Skills: Programmierung, Website-Design, Stadtplanung, gesellschaftliches Engagement
- Netzwerk zwischen den lokalen Akteurlinnen (Gewerbe, Institutionen, Anlieger), welches sich um Anliegen in dem Raum kümmert und seine zukünftige Gestaltung wirkt sich positiv auf das Flanierleben entlang der 1,5 km langen Achse aus.





-
- **Umsetzung übergeordneter Strategien: z.B. Stadtklimakonzept sowie Aktivierung lokaler Ressourcen und Netzwerke mittels Partizipation und Beteiligung**
 - **Ziel ist die Stärkung lokaler Gewerbetreibender und die Stärkung einer raumbezogenen Identität (unsere Strasse) mittels eines Digital-Analog-Netzes.**
 - **Anlass und Aktivierung ist das Strassenumgestaltungsprojekt**



Was braucht es?

- Daten

Analyse KMUS

Ansprache / analoges Marketingkonzept / Treffen und Organisation auf Stadtteilebene /

- Softwarecode

App etc.

- Checklisten

- usw.

Online Antragssystem

Online application system



We need your help!



winterhilfe
Kanton Bern

Helfen ▾ Hilfe erhalten Über uns ▾ Kontakt

CHF Finanzielle Unterstützung

Nötige Unterlagen

- Formular Unterstützungsgesuch mit Angabe des Grundes der Notlage
- Einkommensbelege (letzte drei Lohnabrechnungen von allen Haushaltmitgliedern, Prämienverbilligung, Alimentsvereinbarung, Rentenverfügung, Ergänzungsleistung)
- Unterlagen zu regelmässigen Auslagen (Miete, Krankenkasse, Kinderbetreuung, Alimente)
- Kopie letzte komplette Steueranmeldung oder (für Quellenbesteuerte) aktuelle Kontoauszüge (inkl. Sparkonti)
- Unterlagen zur gewünschten Leistung mit Rechnung und Einzahlungsschein
- Weitere Dokumente, die für Ihr Gesuch wichtig sind

Ausgefülltes Gesuchsformular mit erforderlichen Unterlagen im .pdf-Format per Mail an bern@winterhilfe.ch schicken.

Merkblatt und Unterstützungsgesuch

Sport- und Musikunterricht für Kinder und Jugendliche ▾

Coiffeur, Sportgutscheine

Schul-ausrüstung

winterhilfe
Kanton Bern

Unterstützungsgesuch

Unterstützungsgesuch

Unterstützungsgesuch



Beispiel Gesuchstellende

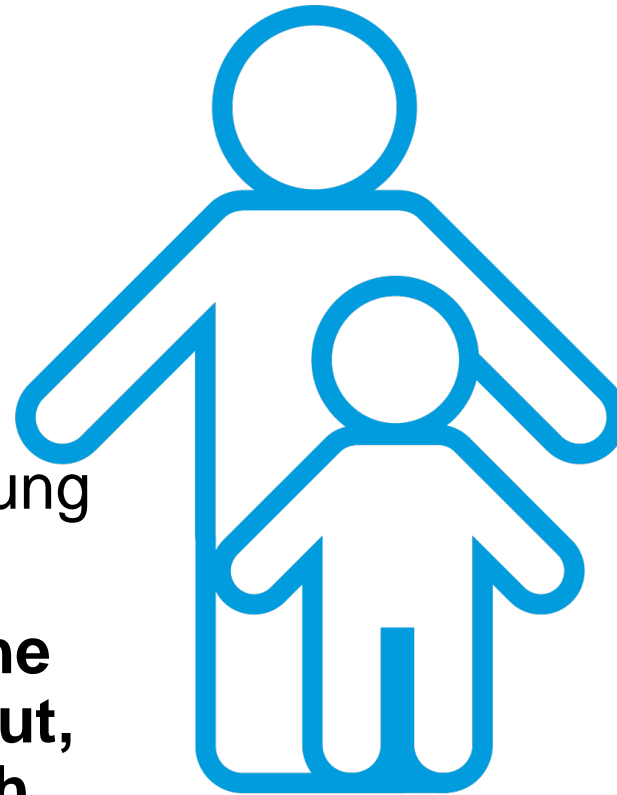
Example Applicant

Frau N. und ihr 3-jähriger Sohn
Ms. N and her 3-year old son

- Alleinerziehend
- 80% Stelle
- Wenig Zeit und Ressourcen
- Kein Laptop/Drucker
- Wenig administrative Erfahrung

Bedürfnisse:

**Benutzerfreundlichkeit, rasche
Abwicklung, logisch aufgebaut,
einreichen per Handy möglich**



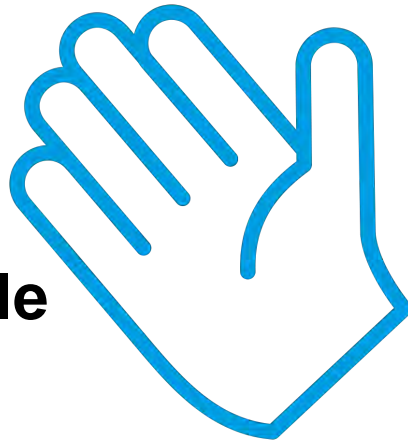
- Single
- Working 80%
- Little time & Resources
- No computer/printer
- No administrative experience

**Needs: User-friendly, quick
processing, logically
structured, cell phone
accessible**

Aktuelle Konsequenzen

- Viele Gesuche in Warteschlange
- Nachfordern/nachprüfen = Zeitintensiv
- Längere Bearbeitungsdauer = spätere Rückmeldung

Fazit: Der **Status Quo ist für alle Beteiligten unbefriedigend**



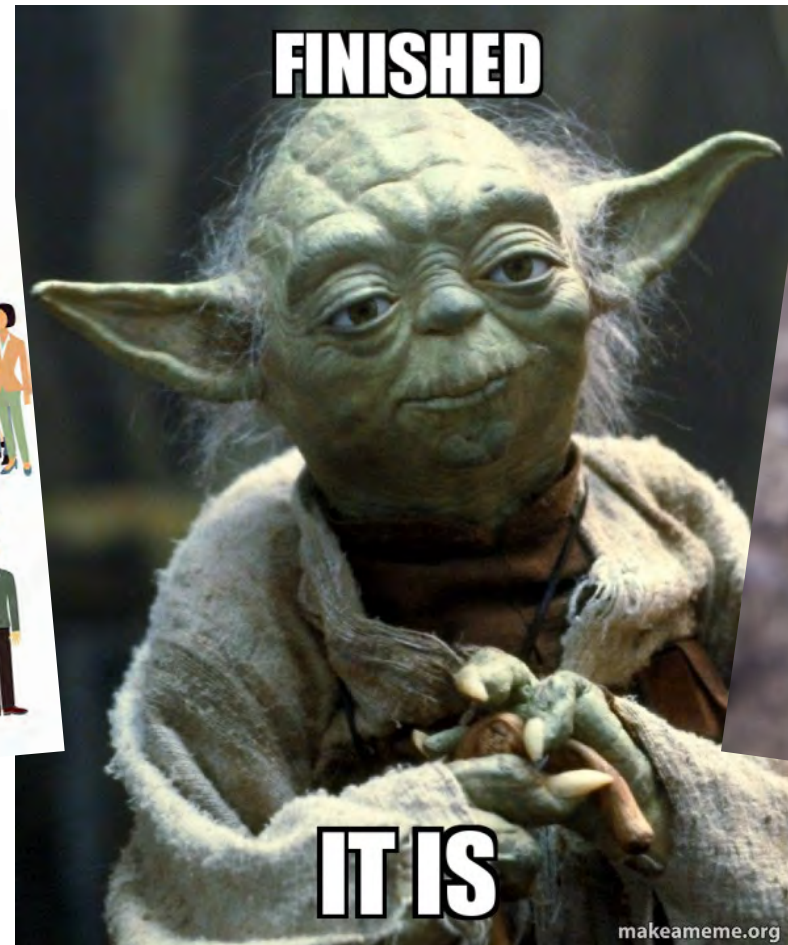
Current Implications

- Many applications pending
- Requests/Checking= Time-intensive
- Slow processing = delayed response

Summary: The **Status Quo is unsatisfactory for all involved**

Ziele

Goals



Quelle: <https://makeameme.org/meme/finished-it-is>

<https://stock.adobe.com/de/images/menschenmenge-und-personengruppen-illustration/190391987>

<https://www.domradio.de/artikel/strukturelle-ursachen-ueberwinden-kirche-mahnt-bessere-armutsbekaempfung-der-eu>

Danke für deine
Unterstützung!



Thanks for your
support!

HELVETAS: TRANSLATING DIGITAL DATA INTO ENGLISH

Rebecca Laes-Kushner, Digital M&E Coordinator
rebecca.laeskushner@helvetas.org

+41 44 368 67 25

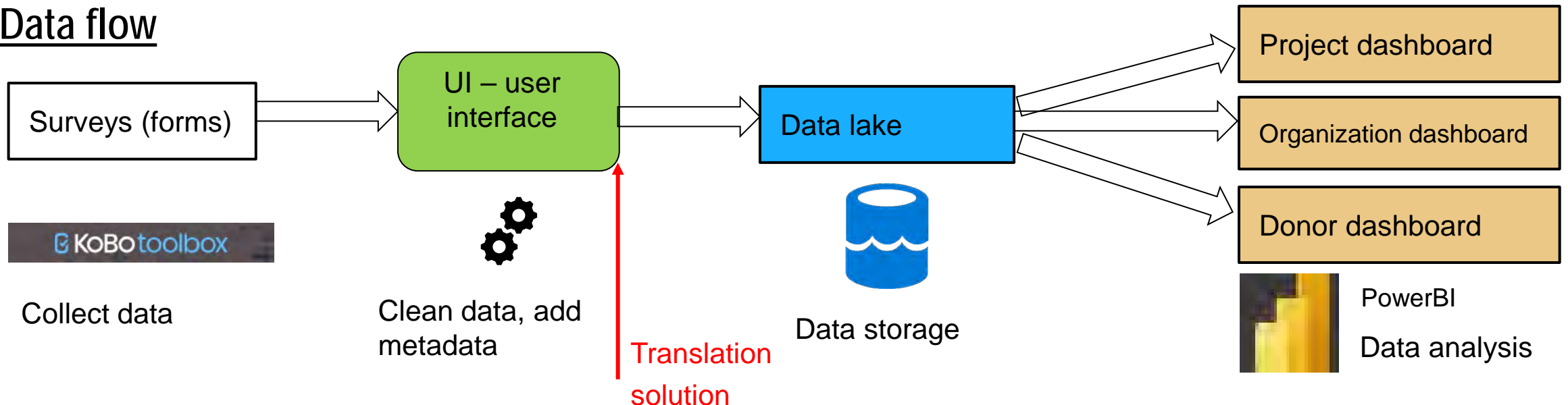
31 March 2023



The issue

- Head Office needs to use data from 30+ country offices in 20-30 languages
- Problem: can't aggregate data because it's in multiple languages
- Need **English translation**
 - Goal: 2 versions of data in Data Lake: local language (for country offices to use) and English (for data aggregation by Head Office (HO)).

Data flow



Why a solution is needed

Analyzing project data is critical for...

- good project management
- effective & efficient data use
- Many donors, who require digital systems

project
Template YES PROJECT- EMPLOYMENT VERIFICATION (after training evaluation)

BIO-DATA

abc Full name
Question text

Sex
Question text

Male XML value: male

Female XML value: female

Click to add another response... XML value: AUTOMATIC

District name
Question text

Dodoma city XML value: dodoma_city

XML value: unregd_name

XML value: AUTOMATIC

dashboard from project in Honduras



KoboToolbox survey from project in Tanzania

Resources

- Introduction to Helvetas
- Introduction to project
- Tools Einführung
- Sample data in almost all languages used by country offices, in spreadsheets (one tab in local language, second tab in English)
- List of all countries/languages

Hack4SocialGood Hackathon

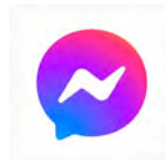
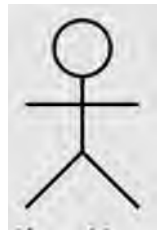
Swiss Elections ChatBot

Faktenbasis, nicht Propaganda!



What is it about?

- Develop a chatbot answering voters' questions based on factual political data, not propaganda (e.g., smartvote data).
- An example question is "which party did the most for gender equality in the canton of Zurich in the last legislative session".
- Factual-data from reliable sources
- No-media manipulated, potentially misleading, data



Why is it important?

- Disinformation is widespread during election-years to purposely mislead voters. This undermines confidence in democratic systems and their integrity.
- We are actively working on encouraging young people to vote, and want to make the process as easy and accessible to everyone as possible, regardless of their political knowledge.

Resources

- Data <https://github.com/jmuth/parliament-viz.ch/tree/master/scraping>
<https://opendata.swiss/en/dataset/webservices-httpws-old-parlament-ch>
<https://github.com/loleg/swiss-parl-wordtime>
- Github repo <https://github.com/Campax-org/election-chatbot>
- Similar projects <https://politbot.ch/chat> ,
<https://chatbot.api.digitalorganizing.ch/> , <https://justement.ch/search>
- Existing chatbot <https://t.me/CampaxElectionBot>

Contacts

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vladimir@campax.org, Vladimir

oleg@campax.org, Oleg



Berner Fachhochschule
Haute école spécialisée bernoise
Bern University of Applied Sciences

The Details

Forming Teams

Analogue (15 min)

- ▶ 1. Hosts w/ sign in plenum.
- ▶ 2. Group by host. Talk.
- ▶ 3. “Needed” signs, if your group is lacking a skill set.
- ▶ 4. Move to working rooms (next slide)

Digital

- ▶ 1. Go to:
<https://bd.hack4socialgood.ch/>
- ▶ 2. Click on event, login or register (via Mattermost)
- ▶ 3. Choose your team
<https://bd.hack4socialgood.ch/event/4>
- ▶ 4. In team area links to chat/video in plenum or for your team.
- ▶ 5. Check in video for remote participants before starting!!



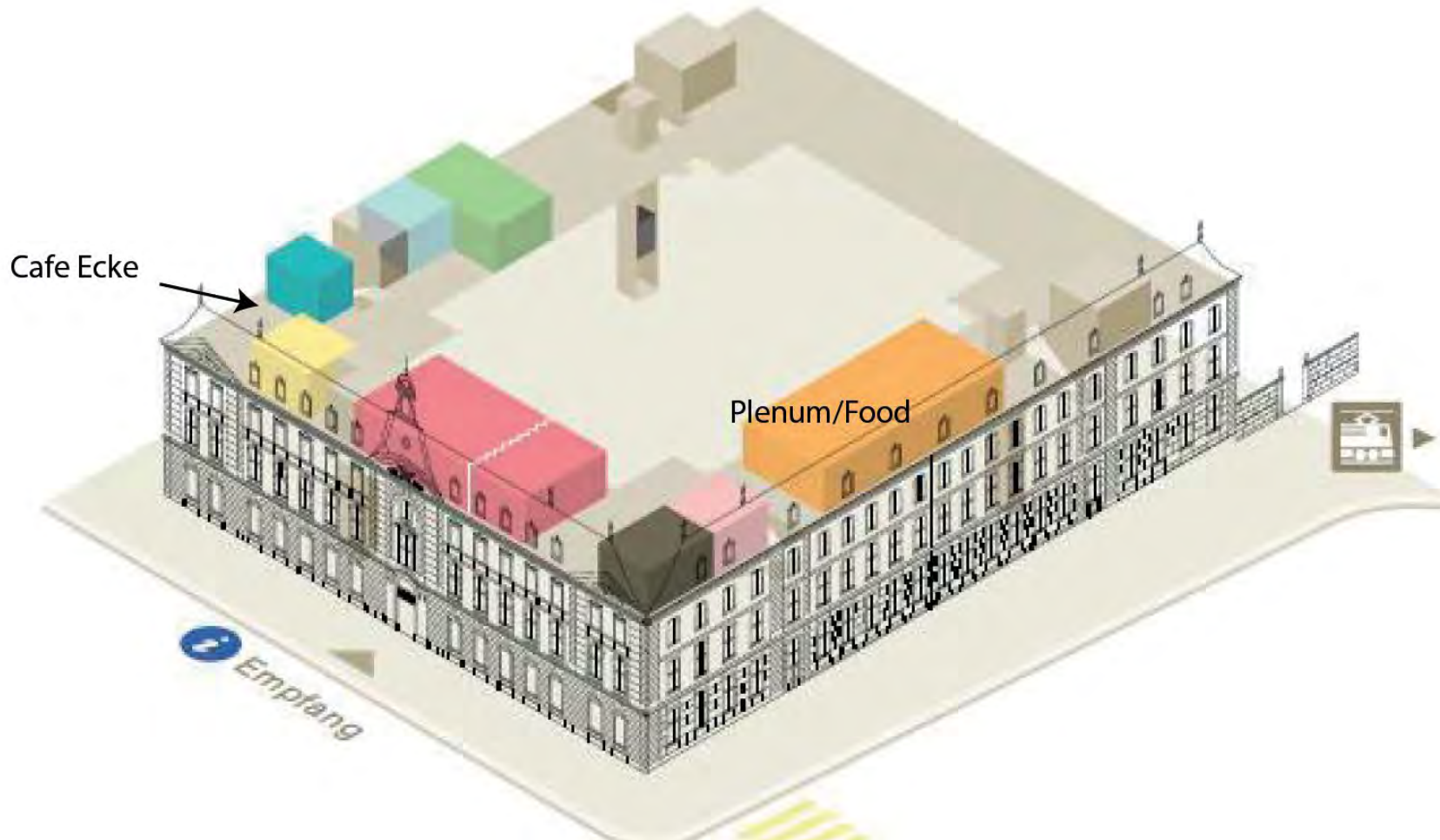
Contact

KI für
informierte
Bürger

CA
make it

Join in

Map



Sitzungszimmer

● Süd	max 8	Helvetas
● West 1	max 6	Jugendarbeit.digital
● West 2	max 8	Winterhilfe
● Ost 1	max 10	Berner Gemeinwesen
● Ost 2	max 10	Basel West
● Spittelsaal	max 70	Certaid
● Bestuhlung		Campax
● Bubenbergsaal 1+2		Bonjour
● Bestuhlung	#2: max: 2*8	Gärngschee
● Bogenschützensaal 2		Fri: soquflex
● Bestuhlung	max: 2*8	Fri: Sustainability
		Sat: Kids

Assistance

Remote

- ▶ Online Help Channel
<https://team.opendata.ch/hack4socialgood/channels/help>
- ▶ Emergency numbers
 - ▶ **Oliver:** +41 31 848 36 97
oliver.huembelin@bfh.ch
 - ▶ **Debra:** +41 31 848 36 89
debra.hevenstone@bfh.ch

Live

- ▶ Challenge Hosts in Cafe Ecke
Friday 16.00-17.00
- ▶ Organizing Committee has
«**HELP!**» signs
- ▶ Special tech help



Oleg Lavrosky










Ibrahim Kuray

Documenting your work on dribdat

- 1) Write updates to communicate progress and drafts
- 2) Save code & prototypes
- 3) Handbook: <https://docs.dribdat.cc/usage.html>
- 4) *Upload final presentation to your page by Saturday 15.15!!*

7 steps...

-  This is an idea or challenge description
-  A team has formed and started a project
-  Research has been done to define the scope
-  Initial designs have been sketched and shared
-  A prototype of the idea has been developed
-  The prototype has been deployed and presented
-  This project is live and available to the public



Project Submission

- ▶ Create a presentation (live or film, <5 min)
 - Who are you
 - Your solution
 - Accomplishments
 - Future steps



- ▶ Presentations go live Saturday 15.30

Jury



Maria Sokhn
IT, HES-SO



Arno Schmidhauser,
IT, BFH



Samuel Wehrli
Life Sciences, ZHAW



Stefan Adam
Social Work, FHNW

Final presentations!

- ▶ Limits
 - ▶ 5 min
 - ▶ + questions (up to 5)
- ▶ Groups
 - ▶ Basel West
 - ▶ Helvetas
 - ▶ Campax
 - ▶ Jugendarbeit.digital / VBG
 - ▶ Winterhilfe
 - ▶ Bonjour
 - ▶ Certaïd



Audience Prize



▶ <https://www.menti.com/alut3hqmg3ge>

▶ Present

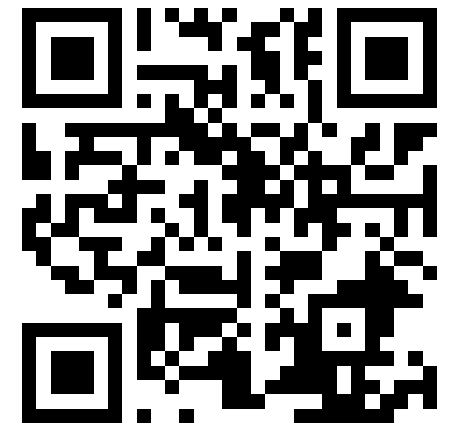


Closing Evaluation

- ▶ Please Answer!!
 - ▶ For the funders!
 - ▶ For us!
 - ▶ For you!



<https://survey.fhnw.ch/uc/Hack4SocialGood/>



Results

Licensing and Utilization

- ▶ Open data and content can be freely used, changed, and passed on for any purpose.
opendefinition.org
- ▶ Unless otherwise stated, all documentation of the event will be published with Creative Commons Attribution 4.0 International.
creativecommons.ch

Continuing Projects

- ▶ **BFH IT Semester Project or Thesis**
Prof. Dr. Arno Schmidhauser
BFH, IT
arno.schmidhauser@bfh.ch
- ▶ **BFH Social Entrepreneurship**
Prof. Dr. Christoph Gehrlach, MBA
BFH, Social Work
christoph.gehrlach@bfh.ch

Pause- Jury Deliberation (16.30-17.00)



Be Creative and Have Fun!

