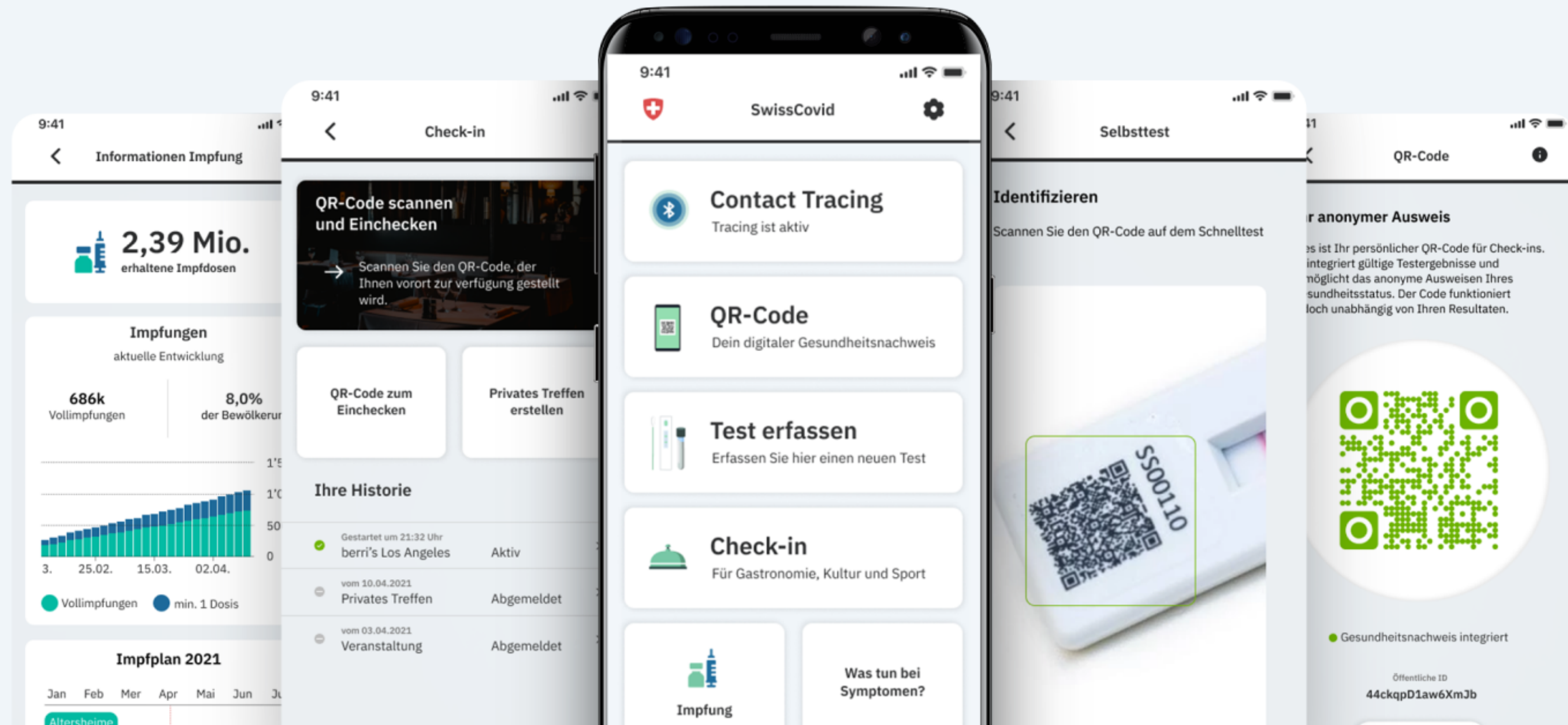
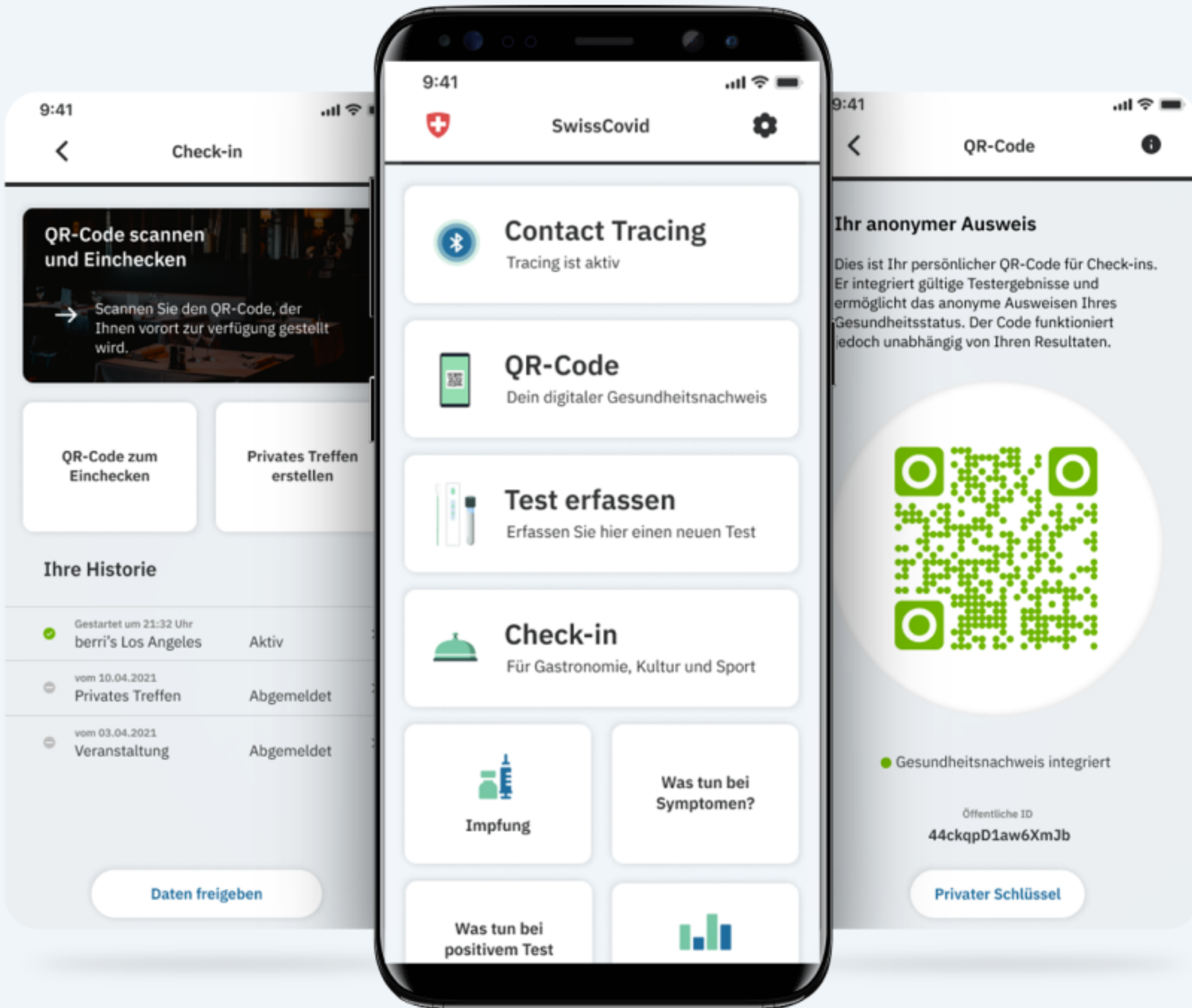


# SwissCovid 2.0

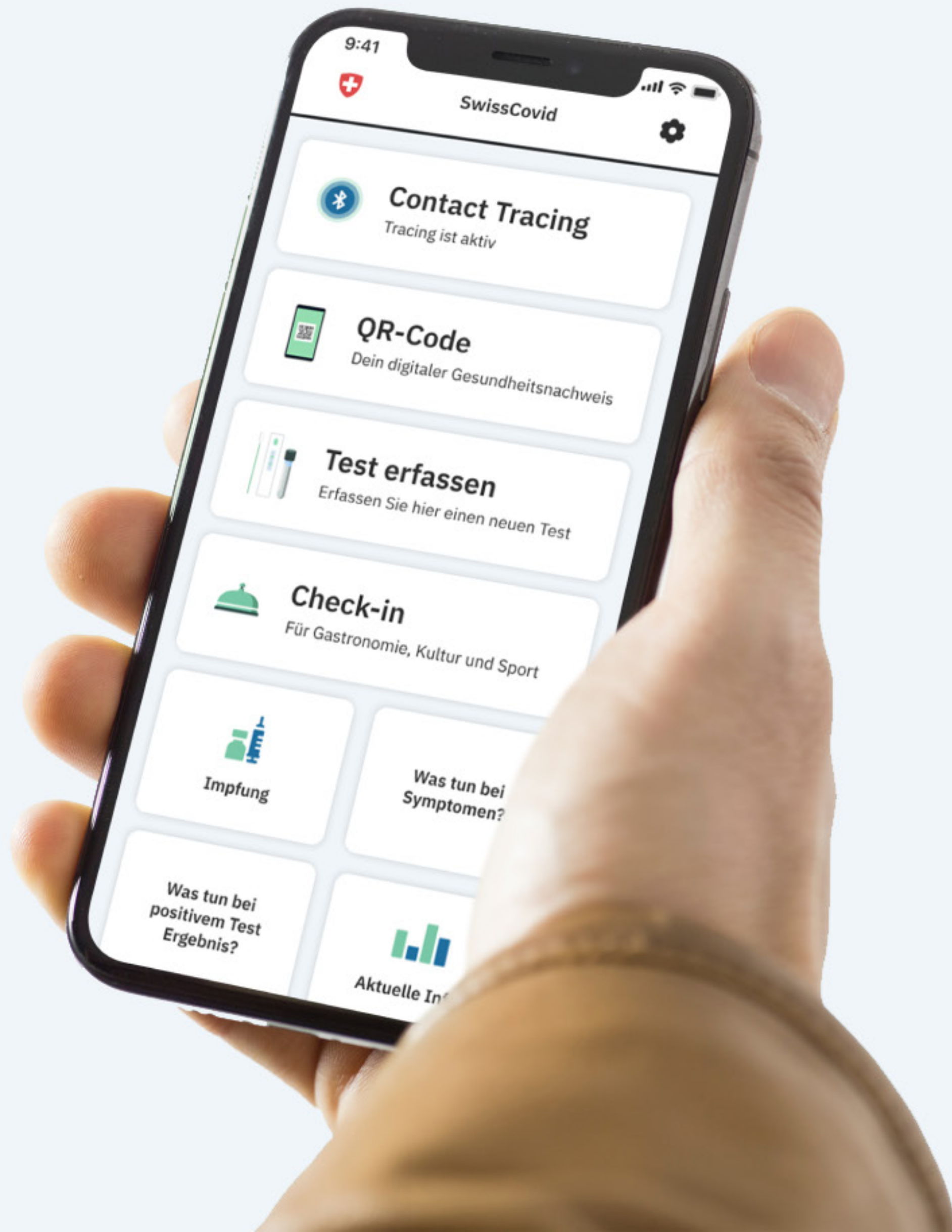
Students: Alec Nikolov, Baran Güneysel, Nicola Delany, Mai Watanabe, Sebastian Hauser  
Lecturers: Florian Wille, Stefano Vannotti, Nicole Foerlsterl





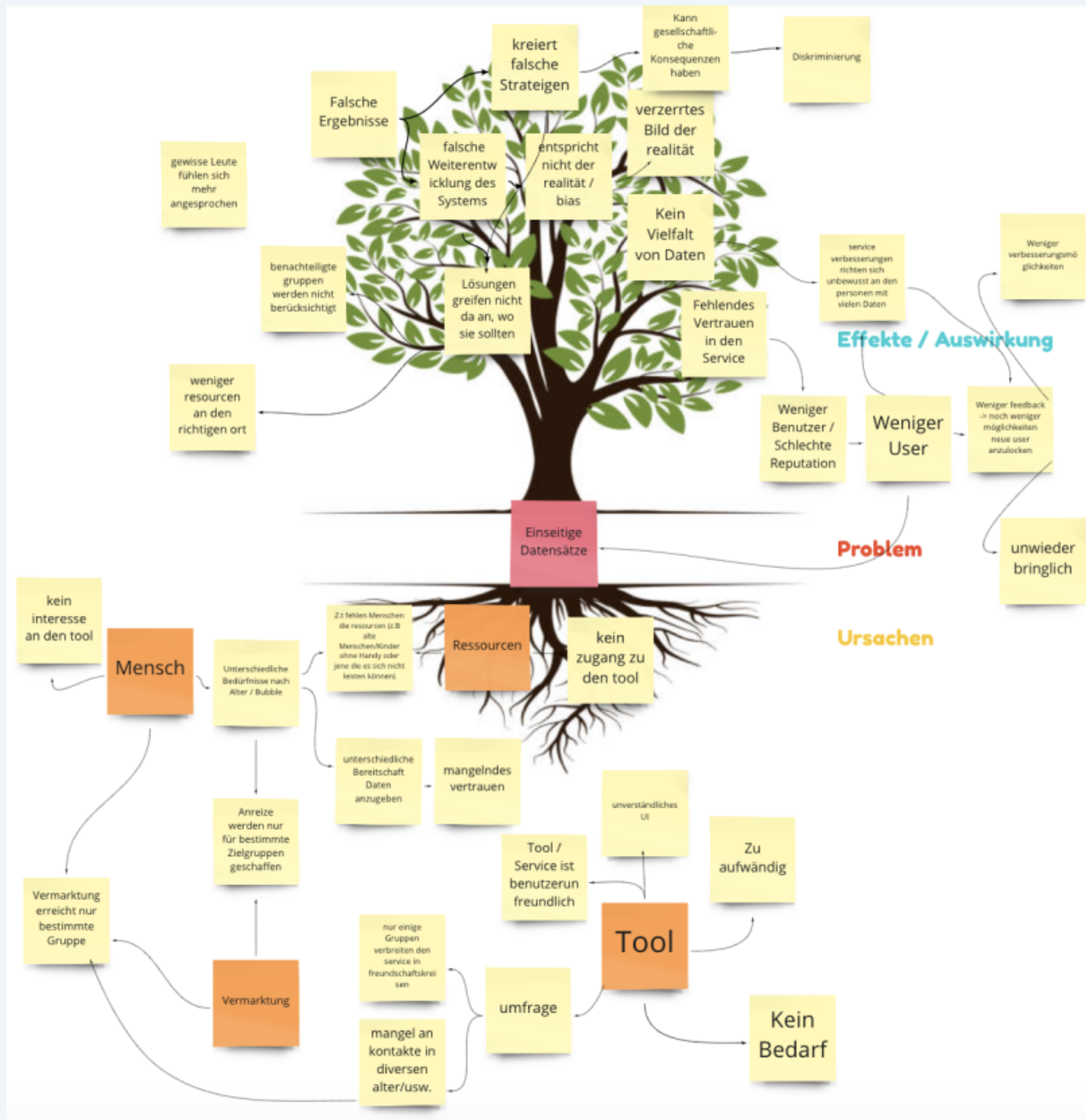
## Content

- Task and goal
- First steps, brainstorming, research and findings
- Organization
- Service blueprint and who is involved
- Main functions and concept
- Business model canvas and value proposition
- First wireframes, prototype and concept-video
- Survey learnings
- Fake article user tests and click dummy usertests
- Wireframes, moodboard and style
- Storyboard
- Concept video
- Features the users benefit from
- How the organizers and businesses benefit
- How the federal government benefits
- Design decisions and function
- Summary and learnings



## Goal

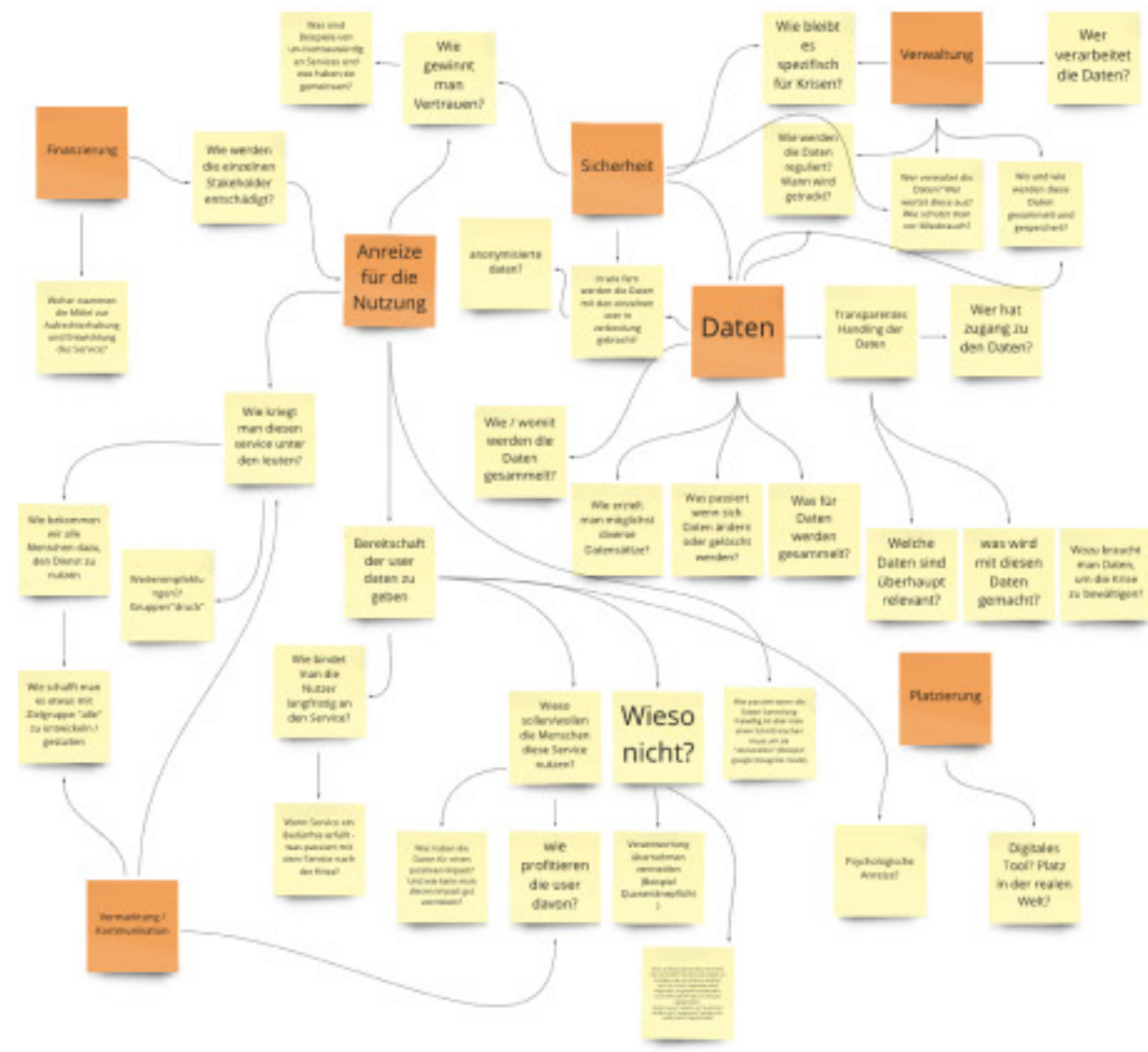
We were given the task to develop a service ecosystem that offers real and immediate benefits for the participants while generating data that is valuable for municipalities in fighting or managing the COVID crisis. The underlying data donation system should be able to process aggregated and individual data.



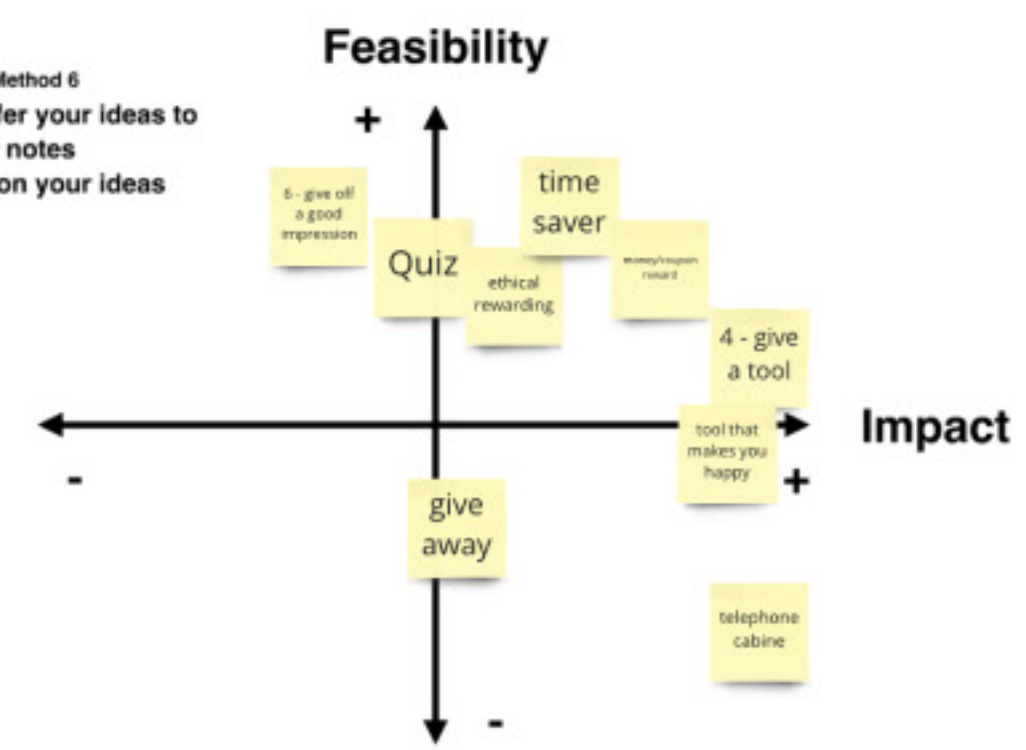
## First steps

In order to make steps in the direction of improving how we deal with this wicked problem, we first needed to think about all the different factors which might have an impact on the service which we would be developing.

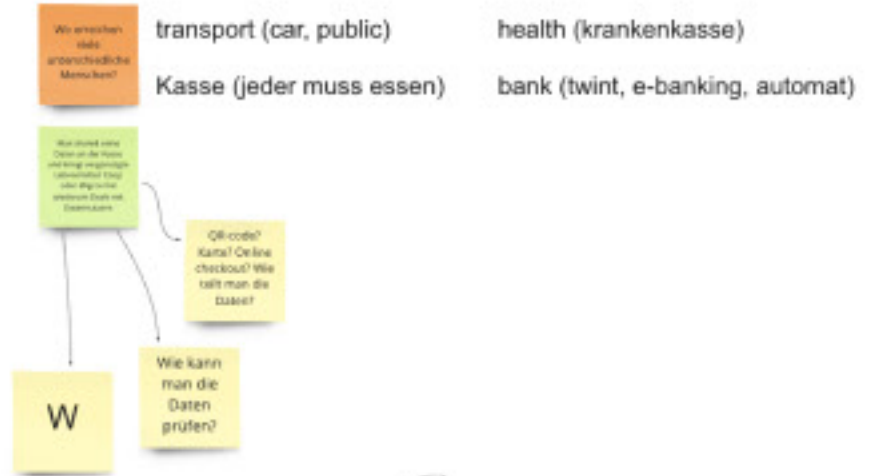
For this we brainstormed which problems exist, framed them with a problem framing tree, pinpointed the core problem in our our problem statement and came up with the “how might we” question that summarizes our goal, after defining what we are looking for we started thinking of some ideas on how to do this.



Develop 1 Method 6  
 - Transfer your ideas to sticky notes  
 - Position your ideas



2 ethical rewarding + 4 - give a tool  
 why use our tool instead of using the million others which are available? because by using our tool you help society and science  
 which tools does everyone use/need?



<p><b>1 remuneration</b></p> <p>Daten sind im eigenen Besitz und man kann diese gegen Geld oder Gutscheine tauschen</p>	<p><b>2 ethical rewarding</b></p> <p>See how using the tool could help others</p> <p>"by using this tool you help..."</p>	<p><b>3 time saver</b></p> <p>e.g. digital agenda (data: where are you, when, why, with who)</p>
<p><b>4 give a tool</b></p> <p>Create a tool which everyone can profit from (ex. meteo) while collecting the user's data (ex. ecosia, postcard creator app)</p>	<p><b>5 give away</b></p> <p>give us ur data and receive a give away which</p> <p>or a lottery, but instead of wasting money and making a loss, you can "spend" your data</p>	<p><b>6 give off a good impression</b></p> <p>be a good role model</p>
<p><b>7 telephone cabine</b></p> <p>Something everyone can walk to and use while collecting data</p> <p>fun activity</p>	<p><b>8 quiz : who are you?</b></p> <p>getting data by participating in a some sort of quiz which gives you back a analysis of your personality (?)</p> <p>(e.g. <a href="https://www.hownormalami.eu/">https://www.hownormalami.eu/</a>)</p>	<p><b>9 a tool that makes you happy/ provides dopamine in some sort of way</b></p>

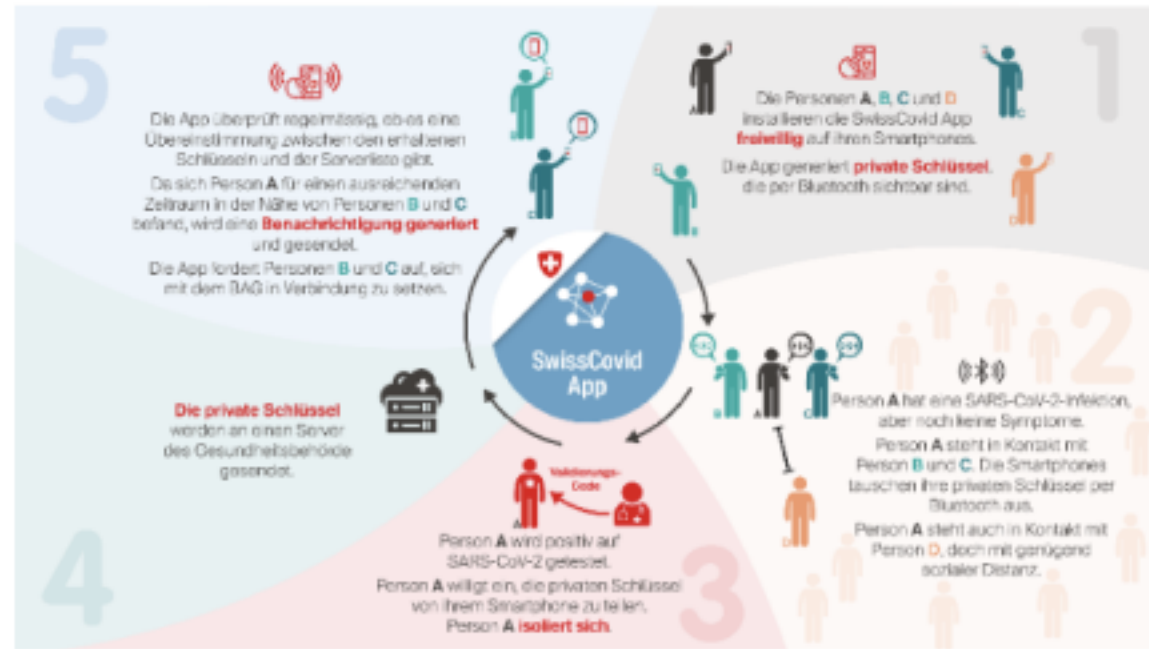
Problem statement:

“If we fail to find diverse data sets, then the service will discriminate/not reach/put off certain groups and give a distorted picture of reality.”

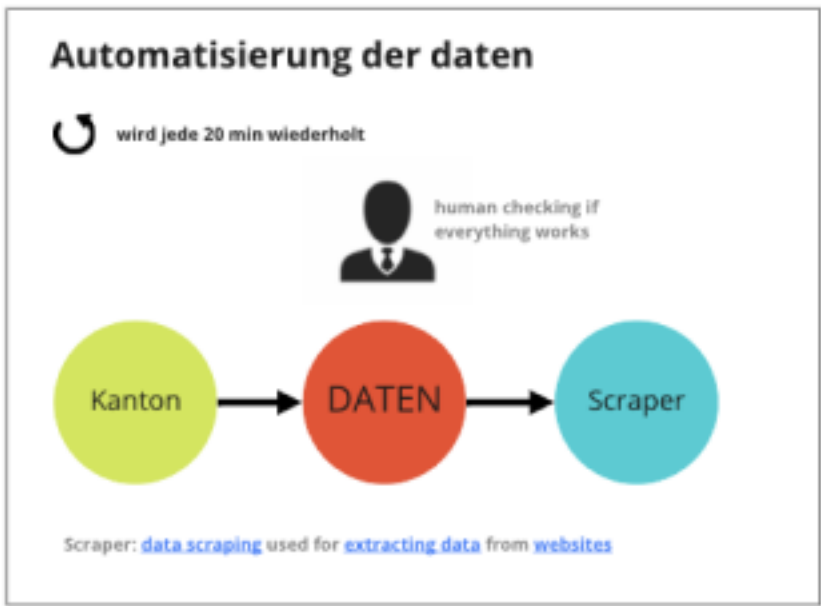
How-might-we question:

“How can we create an incentive for all people and ensure that they can use and understand the service?”

## Datensammlung in Corona zeiten - Wie hat es die Schweiz gemacht?



Am besten funktioniert die Datensammlung wenn jede resource (Kantone) die Daten in einen bestimmten format anbietet (Excel oder CSV). Manche geben auch Zeitreihendaten (**Zeitreihenanalyse**) was auch sehr nützlich ist.



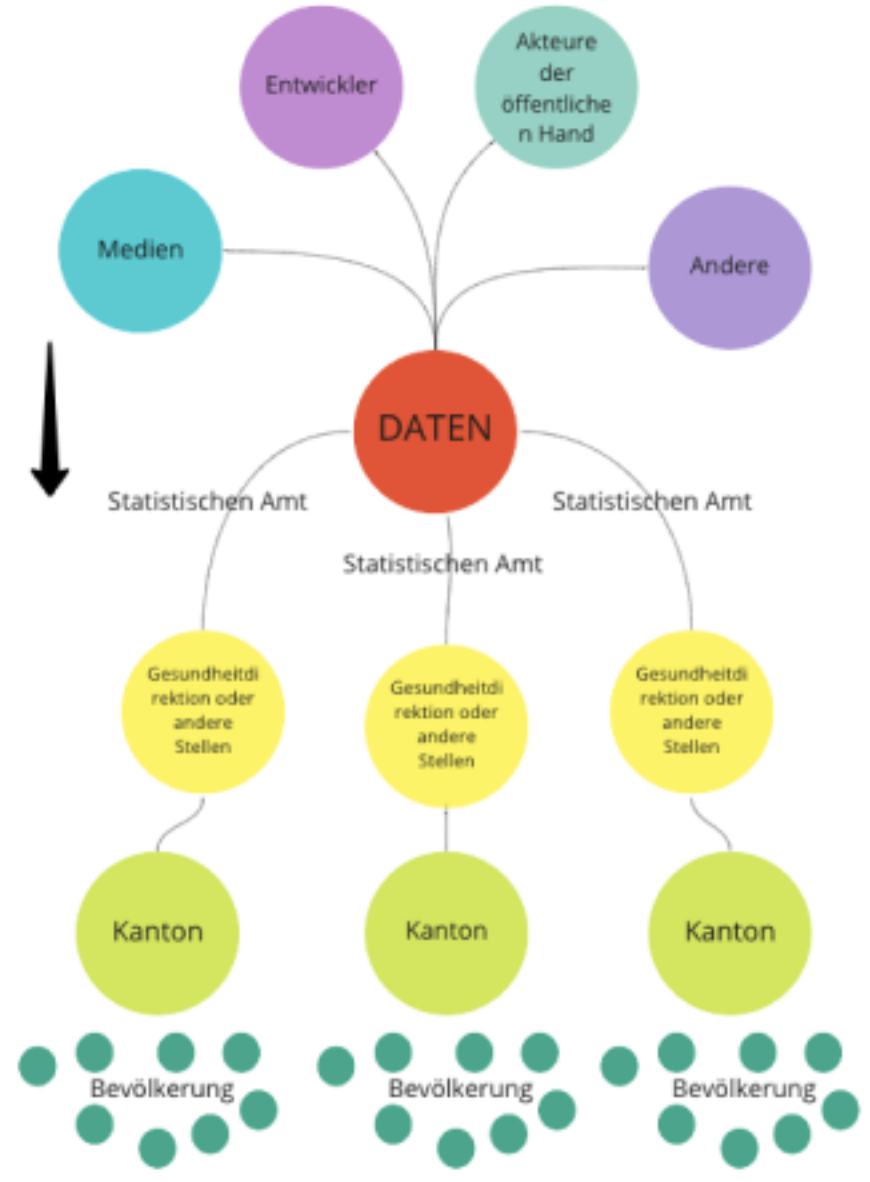
[www.stadt-zuerich.ch](https://www.stadt-zuerich.ch)  
Datensammler in Zeiten der Pandemie - Stadt Zürich

### Covid-19-Monitoring Akteure

- Dateninteressierten | Aufgabe: Daten finden, scraper entwickeln, Reparatur (teilweise freiwillig)
- Leute die Visualisierungen von den Daten machen
- Datenjournalisten
- Koordinatoren

### Daten

- Kanton
- Menschen in Quarantäne
  - Infizierte
  - ins Krankenhaus eingelieferte
  - Tote



# Research

When starting off with such a big topic, one important step for us was to research how and what data is currently being used to help people and what already exists. Important topics to us were how data is collected in Switzerland, how the SwissCovid app works, reasons why people do and don't want to install it, the role of data in a crisis and how companies and the government deal with the data.



## Research findings

Some inspiring findings were the luca app, an app that is similar to the covid app that also has a keyring with a QR-code on it, which is a great alternative for users without a smartphone. Katwarn, which is a german warning and information system for catastrophies. SOCMINT which is the practise of using social media to specifically monitor security/safety issues. The example of the Haiti earthquake, where social media played an important role collecting data on the affected population to find out who needs help? Where are they located? And what to they need? Another finding which lead to a productive discussion was Facebook's "mark yourself as safe" feature. We read about the importance of crowdsourced mapping in crisis zones. And came up with the hypothesis that people would be more likely to give their data to help if they knew what it was being used for and felt like they were helping people in need.

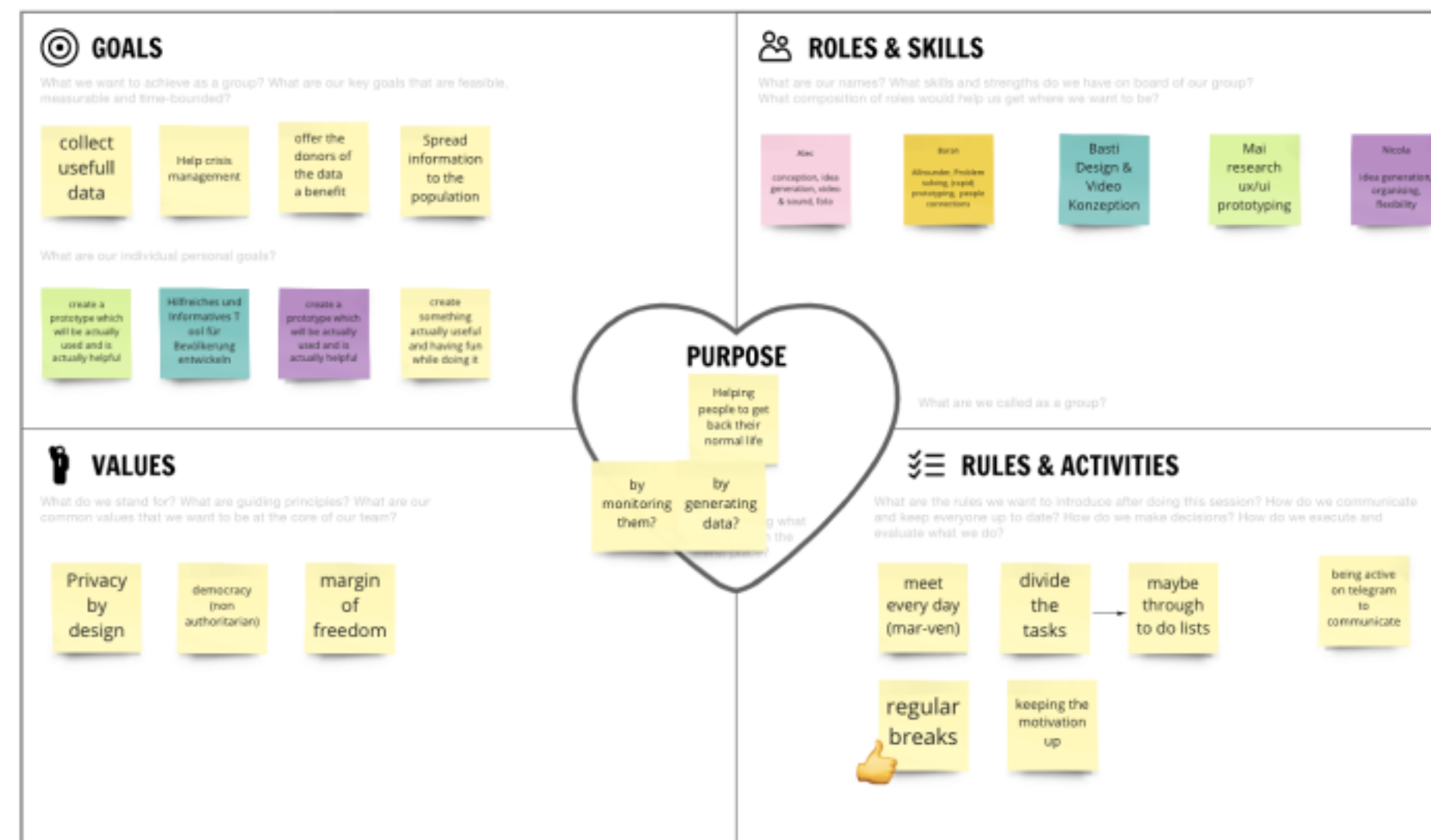
To summarize we learned that data can provide an insight into the fast-changing situation and help drive an effective disaster response. It can influence decision making, problem solving, coordination and conflict resolution.

## Team Canvas Basic

Version 0.8 | [theteamcanvas.com](http://theteamcanvas.com) | [hello@theteamcanvas.com](mailto:hello@theteamcanvas.com)

Most important things to agree on to kick off effective team project and get members to know each other better

Team name  Date **30.03.21**



Team Canvas Basic by [theteamcanvas.com](http://theteamcanvas.com). Created by Alexey Ivanov, Dmitry Voloshchuk. Team Canvas is inspired by Business Model Canvas by Strategyzer.

This work is licensed under the Creative Commons Attribution-Share Alike 4.0. To view a copy of this license, visit <http://creativecommons.org/licenses/by-sa/4.0/>

## Organization

Especially while brainstorming, our Miro board tended to get very cluttered and we noticed that it became time to do some organizing. To divide and conquer and work more efficiently, we used the “team canvas basic” to find our roles and see what similar goals and values we had. Then we separated the different sections of our work, ordered them chronologically and then we color coded depending on what type of work it was, whether they were ideas, research, feedback or something else. The comment function on Miro was also very helpful to share opinions with the team, while working asynchronously and via zoom.

- Input - Aufgaben
- Research
- Brainstorming
- Planning
- Ideas
- Feedback/ mentoring
- Analyse

**Woche 1** Was ist das Problem, was für eine Lösung suchen wir? Brainstorming, Service-Design

**Woche 2 - Service Ideation**

**Week 3/4 - Service Prototyping**

**Frame 26**

The process map is organized into three main sections:

- Woche 1:** Focuses on problem identification and brainstorming. It includes a flowchart and several text-based boxes.
- Woche 2 - Service Ideation:** Involves ideation and service design. It features a large central diagram with a signature, several smaller diagrams, and text boxes. Red circles with numbers 1 and 2 are placed over specific elements.
- Week 3/4 - Service Prototyping:** Focuses on creating prototypes. It includes a grid of yellow boxes, a flowchart, and several text boxes.

**Frame 26:** A large vertical frame containing a table with columns for 'IMPACT/RELEVANCE', 'ACT TO BE DONE', and 'IMPACT CHANGE'. It also includes a list of icons and a small profile picture of a man.

### I. Gesellschaftliche Anforderungen

1. Epidemiologischer Sinn & Zweckgebundenheit
2. Freiwilligkeit & Diskriminierungsfreiheit
3. Grundlegende Privatsphäre
4. Transparenz und Prüfbarkeit

### II. Technische Anforderungen

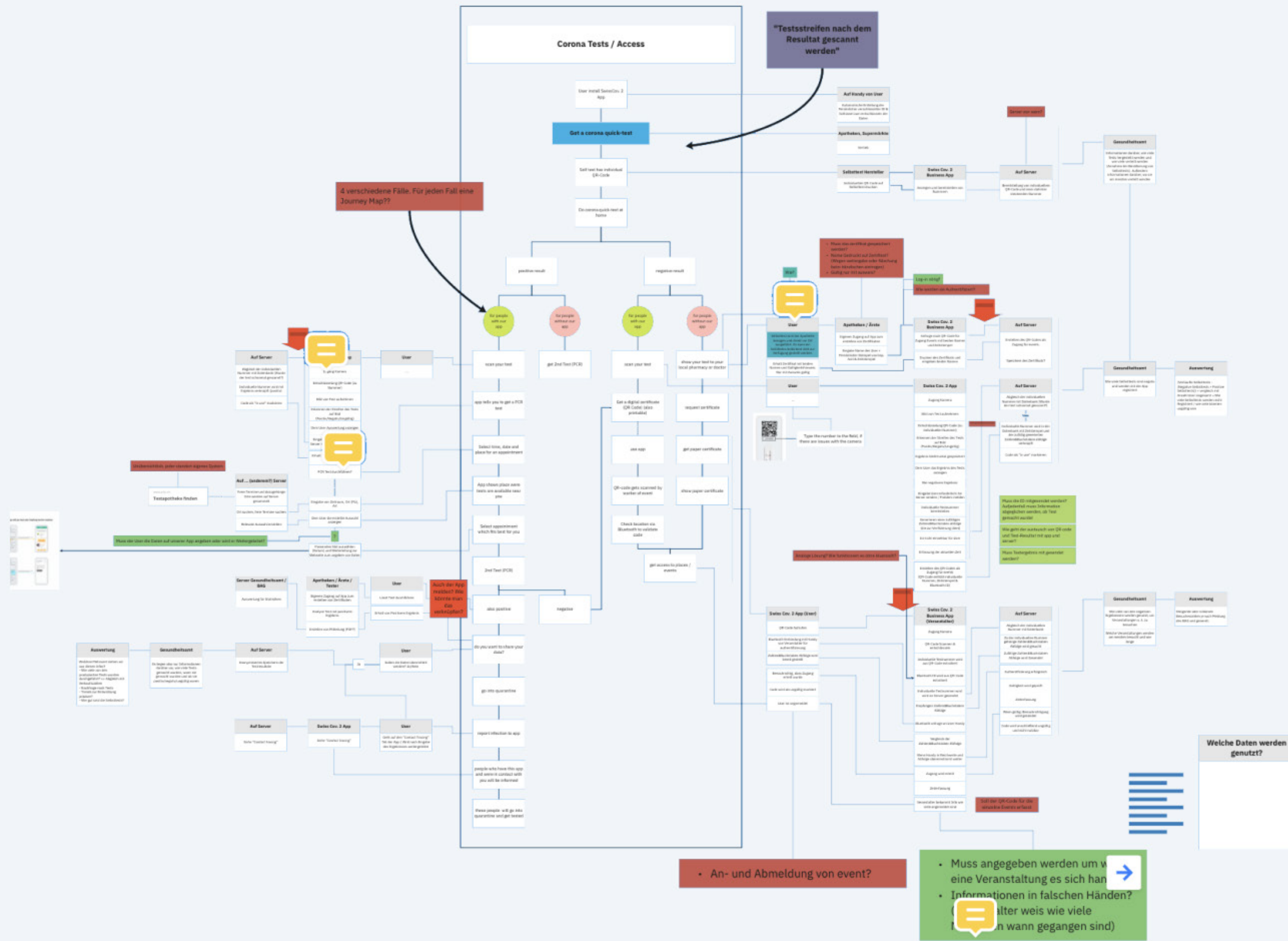
5. Keine zentrale Entität, der vertraut werden muss
6. Datensparsamkeit
7. Anonymität
8. Kein Aufbau von zentralen Bewegungs- und Kontaktprofilen
9. Unverkettbarkeit
10. Unbeobachtbarkeit der Kommunikation

## Service blueprint

On the next 2 slides we will go into detail about our first draft of the service blueprint. However before we started it, we spent a long time discussing how it should work and what systems are built in to prevent problems from arising. We will go into further detail on this near the end of the documentation. We also wrote down a few guidelines for privacy, which you can see on the left, which we feel we must stick to, to ensure people are protected. Some very important points are that people who deny access to their data or want to go about their way, are should not face any negative consequences. This is the responsibility of the government, not our app. Our app needs to be easy to temporarily deactivate or permanently uninstall. Cryptography and anonymization is necessary to ensure the user's privacy is protected.

## How the general population could use our service

Our service does not require you to download our app, however if you download the app you will have more options and your journey will be simplified greatly. You begin by taking a corona-self-test which each have an individual QR code. If the result is positive you're supposed to get a PCR-Test to verify this result and if you have our app, you'll be guided through the process of booking one after you scan your test. You will have the option of filtering appointments according to time, date and place and what is available near you. If the PCR-test comes back positive you will be given the option to share your data and inform people through contact tracing, so that they know they should be tested. If the PCR-test or the original self-test comes back negative, then you can request a certificate from the doctor if you don't have our app, which you can use to gain access to events. If you do have our app, you can directly scan your test and get a digital certificate (QR Code) which also grants you access to events. By using the app you will also have a clear overview of the time the tests are still valid.



**Corona Tests / Access**

"Teststreifen nach dem Resultat gescannt werden"

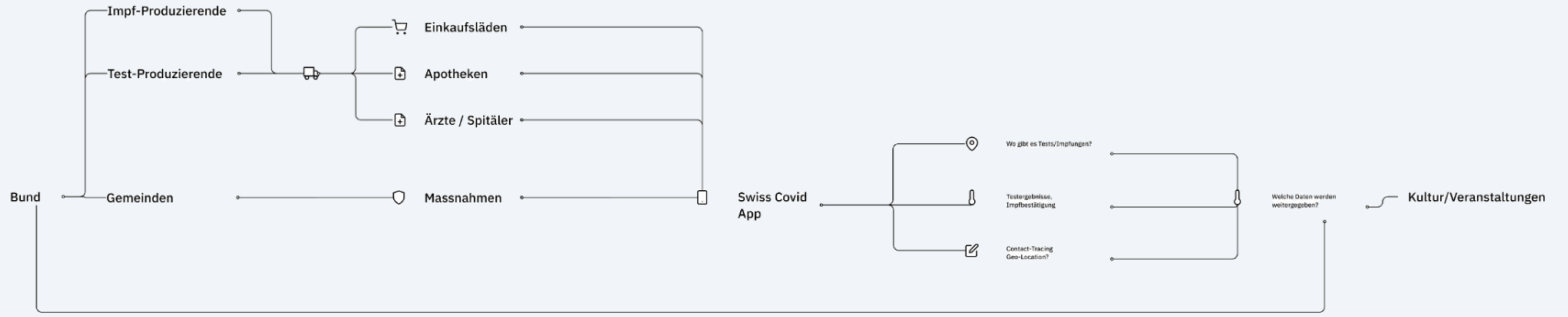
4 verschiedene Fälle. Für jeden Fall eine Journey Map??

An- und Abmeldung von event?

Muss angegeben werden um was eine Veranstaltung es sich handelt...  
 • Informationen in falschen Händen?  
 • Alter wie viele  
 • wann gegangen sind)

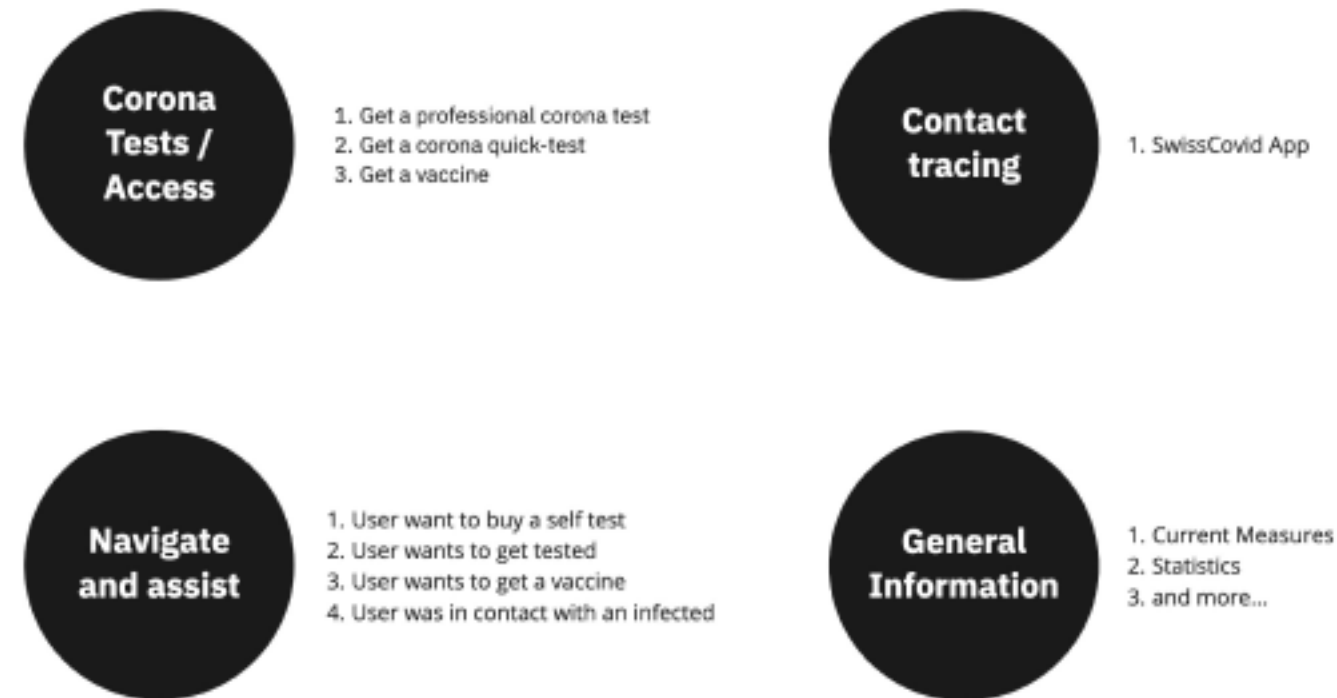
Welche Daten werden genutzt?







## SwissCovid 2.0 main functions



## IMMUNITÄTSAUSWEIS

KONZEPT	DATEN	ECOSYSTEM
<b>Fokus</b> Der Mensch hat die Möglichkeit, seinen Immunstatus zu verbessern, um in den Prozess an die Hand zu nehmen und dabei die Risikopersonen zu identifizieren und anzusprechen.	<b>Welche Daten?</b> Ausgewählte Selbsttests, Impfungen, Antikörper Risikogruppen	<b>Stakeholders</b> User, Gesundheitsämter, Teststellenbetreiber, Privatsphäre, Bund, Apotheken, Test/Impf-Materialbetreiber, AzT/Onco
<b>Key Problem</b> Die hochzeitigen Zusammenleben mit Virus für alle verfügbar.	<b>Datensicherheit</b> Privacy by design, Anonymisierte Datensätze der Daten, Verschlüsselung, Einverständnis erheben. Daten werden lokal gespeichert und nur mit Notwendigkeit freigegeben.	<b>Adaptibilität für Krisen?</b> Der Service könnte das Grundlage für weitere Funktionen bilden. Sehr wichtig ist dabei die Erkennung der Risikogruppen. Diese Menschen bedrohen das Gesundheitssystem am meisten.
<b>Leitfrage</b> Wie können wir gezielt Daten nutzen, um komplette Lockdowns zu verhindern und ein Zusammenleben mit dem Virus zu ermöglichen?	<b>Datenteilsystem</b> Wir versuchen möglichst wenige Daten zu sammeln und diese gezielt einzusetzen. Nicht möglich ist es, weil die Daten im System liegen und anonymisiert bewertet werden und für weitere Daten gesammelt werden.	<b>Service Touchpoints &amp; Artefacts</b> App/Website und ihre Tests, App, Antikörper und Spindler
	<b>Vorteile für Datenteiler?</b> Möglichkeit, sich wieder besser bewegen zu können. Möglichkeit, die eigene Immunität einfach zu prüfen und zu verbessern. Einfache und verständliche Prozesse in der Krise.	<b>Vorteile für Gemeinden?</b> Wenn sie sich erheben haben. Die Risikogruppen identifizieren zu können, ermöglicht es uns, diese direkt anzusprechen und zu unterstützen. Die Resultate der Selbsttests geben ein gutes Bild über den Gebrauch, die Akzeptanz und Reichweite.

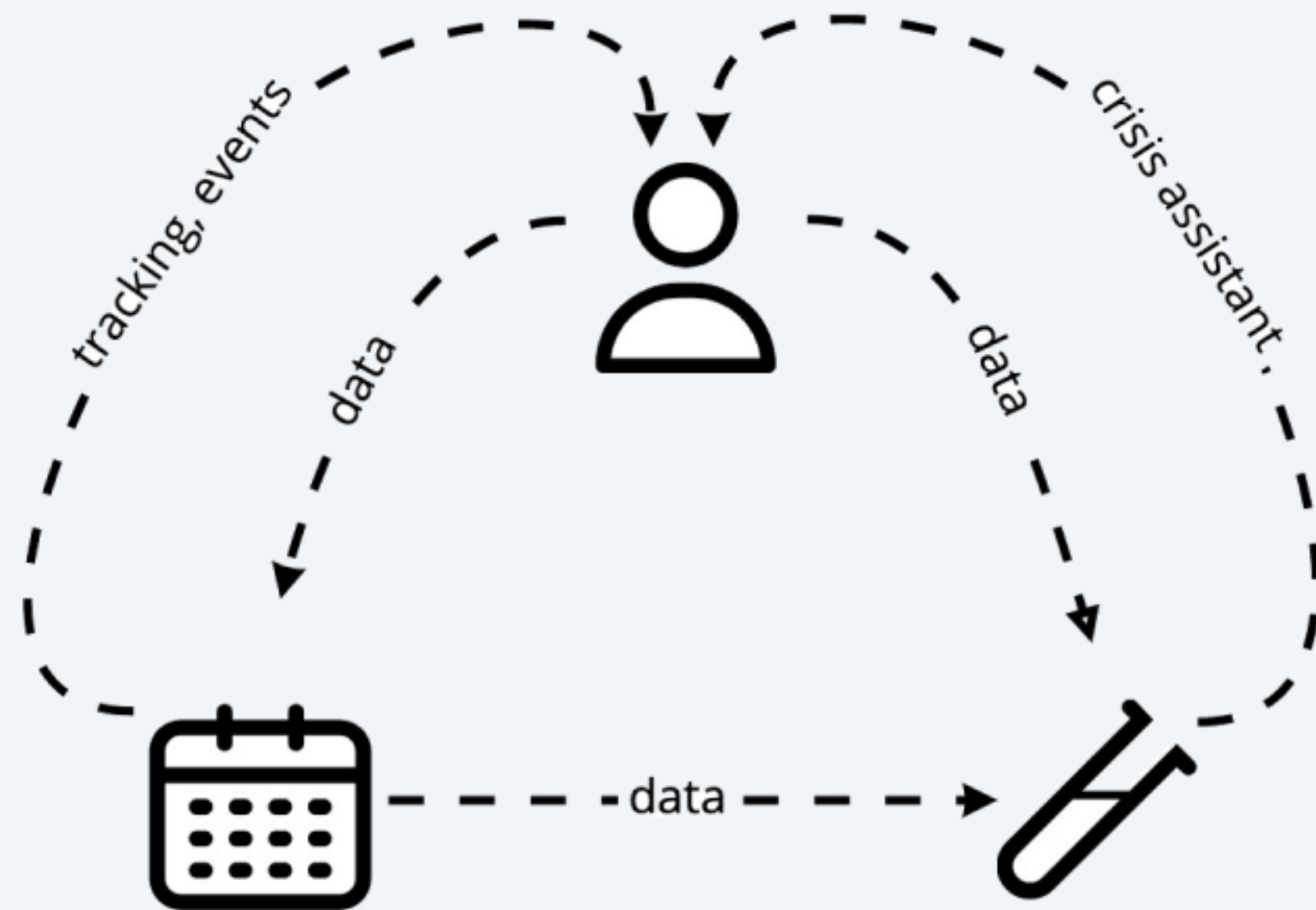
## Functions and concept

The first of the core functions of the app is documenting vaccinations and coronatests, so that the user can show proof to gain access to events.

We decided to keep the function of contact tracing function the same as in the previous SwissCovid app version, because this helps the user detect possible infections early on.

On the other hand, another adjustment we implemented was that we've made planning the tests much easier for the user to do, by guiding them according to their location, needs and wishes.

The last main function was gathering the current information about the Covid-situation in clear manner in a singular space, because it is currently hard to find and spread out through various articles.



## Value and business model

After filling out the business model canvas and value proposition canvas which you will be able to see in the next 2 slides, we came to the conclusion that the main 3 advantages that our app has to offer to the municipalities are that it can help reopen of events for people who are Covid-19 negative or vaccinated. That extraordinary support in various sectors being able to be reduced. Lastly, the gathering of more information so that more useful measures can be implemented and analysis and studies are able to be carried out in more detail








# The Business Model Canvas

Designed for:

Designed by:

Date:

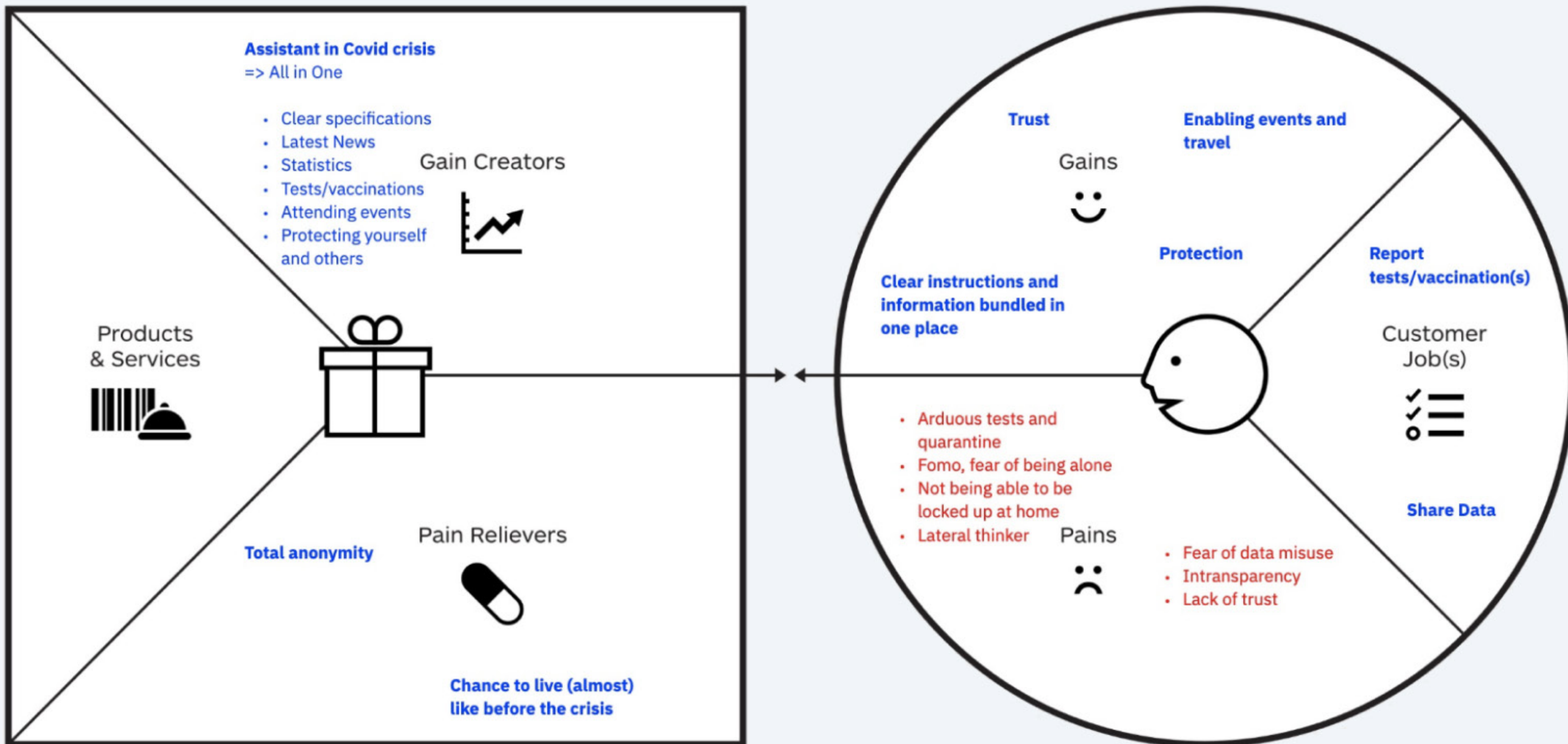
Version:

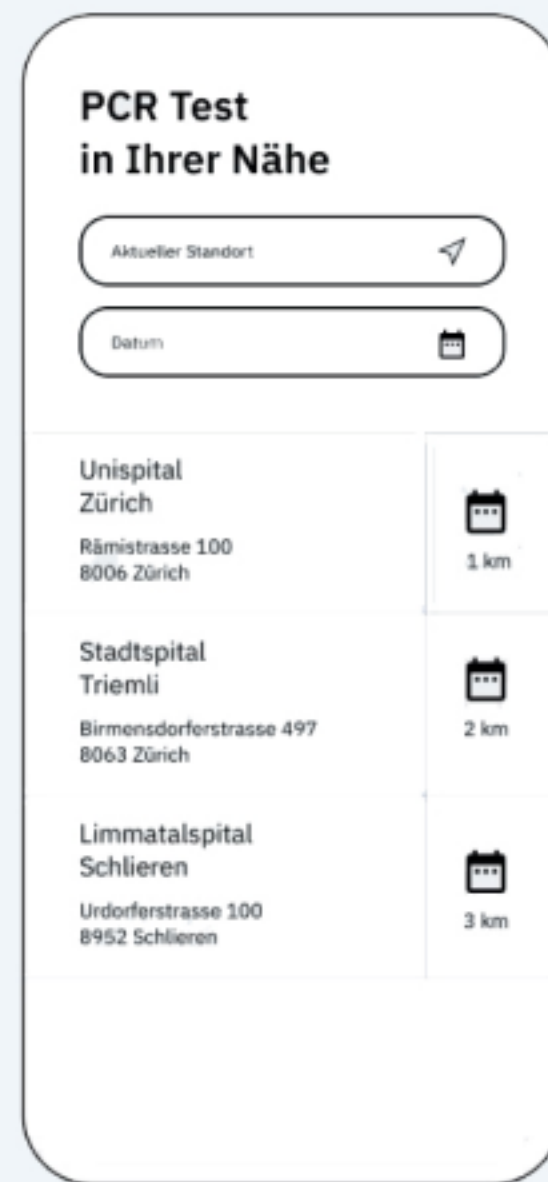
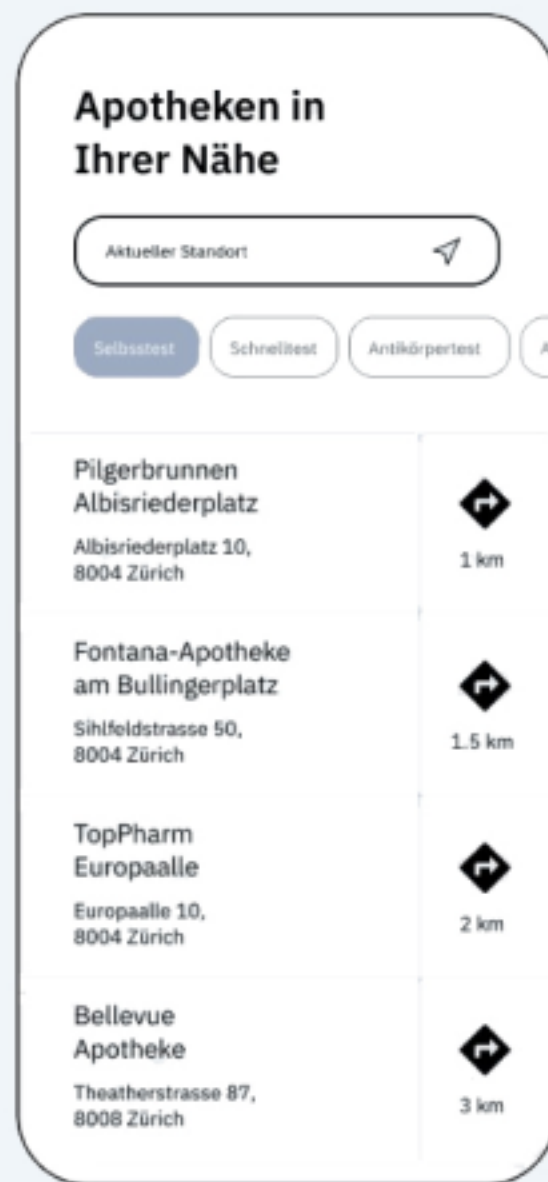
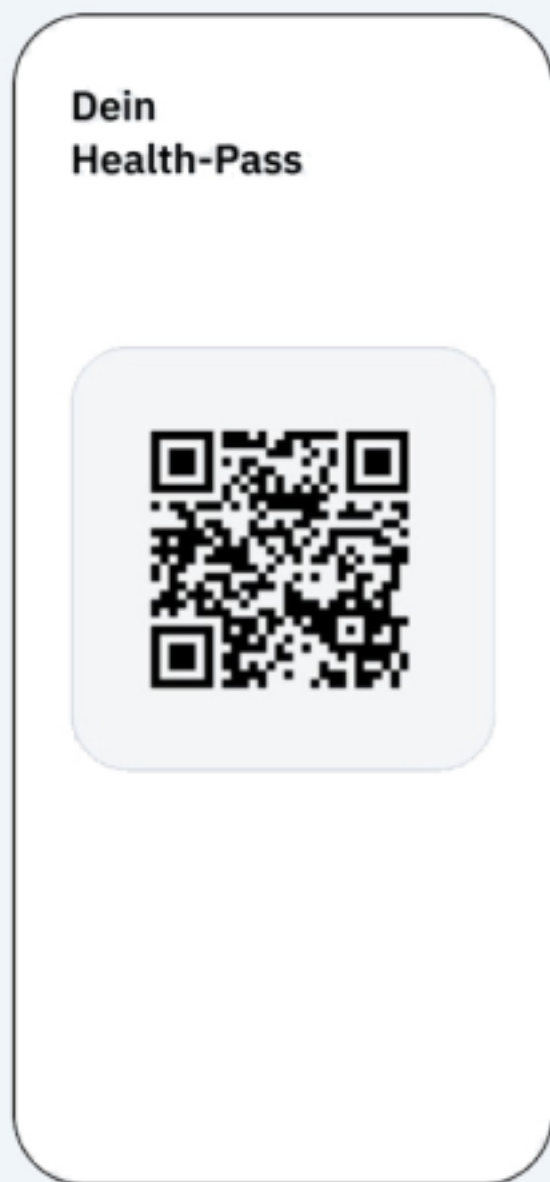
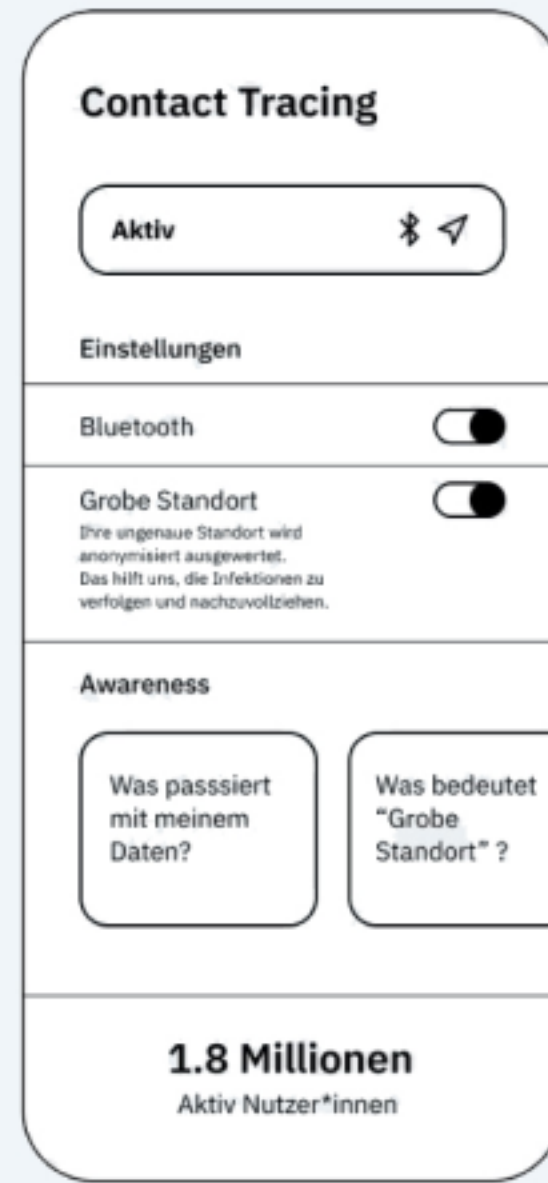
<p><b>Key Partners</b> </p> <ul style="list-style-type: none"> <li>• Stiftung Risiko-Dialog</li> <li>• Bundesamt für Gesundheit (BAG)</li> <li>• Bundesamt für Statistik (BFS)</li> <li>• Bundesamt für Informatik und Telekommunikation (BIT)</li> <li>• Population</li> <li>• Kantons / Regions</li> <li>• Organizers, Owners or bars, etc..</li> </ul>	<p><b>Key Activities</b> </p> <ul style="list-style-type: none"> <li>• Data gathering</li> <li>• Service design</li> <li>• Service implementation</li> <li>• User Testing</li> <li>• Marketing</li> <li>• Maintainance</li> </ul>	<p><b>Value Propositions</b> </p> <p><b>Benefits of our service:</b></p> <ul style="list-style-type: none"> <li>• reopening events for people who are C.Negative or vaccinated</li> <li>• better way of preventing fake tests and more outbreaks</li> <li>• businesses in those industries can stay afloat</li> <li>• gathering more information to implement more useful measures</li> </ul> <p><b>Needs we are satisfying</b></p> <ul style="list-style-type: none"> <li>• more personal freedom during corona</li> <li>• social connection during corona</li> <li>• staying safe and informed</li> <li>• economic growth</li> </ul>	<p><b>Customer Relationships</b> </p> <ul style="list-style-type: none"> <li>• users need to feel like their privacy is not being breached</li> <li>• users need to see the value propositions</li> </ul>	<p><b>Customer Segments</b> </p> <ul style="list-style-type: none"> <li>• Target group: all of the population</li> <li>• Find solution for people who can't download and use our app</li> <li>• People who want to get more freedom</li> <li>• People who want to be safe</li> <li>• People who want to be informed</li> <li>• People who want assistance</li> </ul>
<p><b>Cost Structure</b> </p> <ul style="list-style-type: none"> <li>• Design and develop the system</li> <li>• Implement the system</li> <li>• Updating the system, maintenance</li> <li>• Server</li> <li>• Data storage</li> <li>• Provide vaccinations and tests</li> </ul>			<p><b>Revenue Streams</b> </p> <ul style="list-style-type: none"> <li>• 5 free corona-tests per month</li> <li>• free vaccination</li> <li>• economic growth (restaurants, bars, etc can open again)</li> </ul>	

# The Value Proposition Canvas

Value Proposition

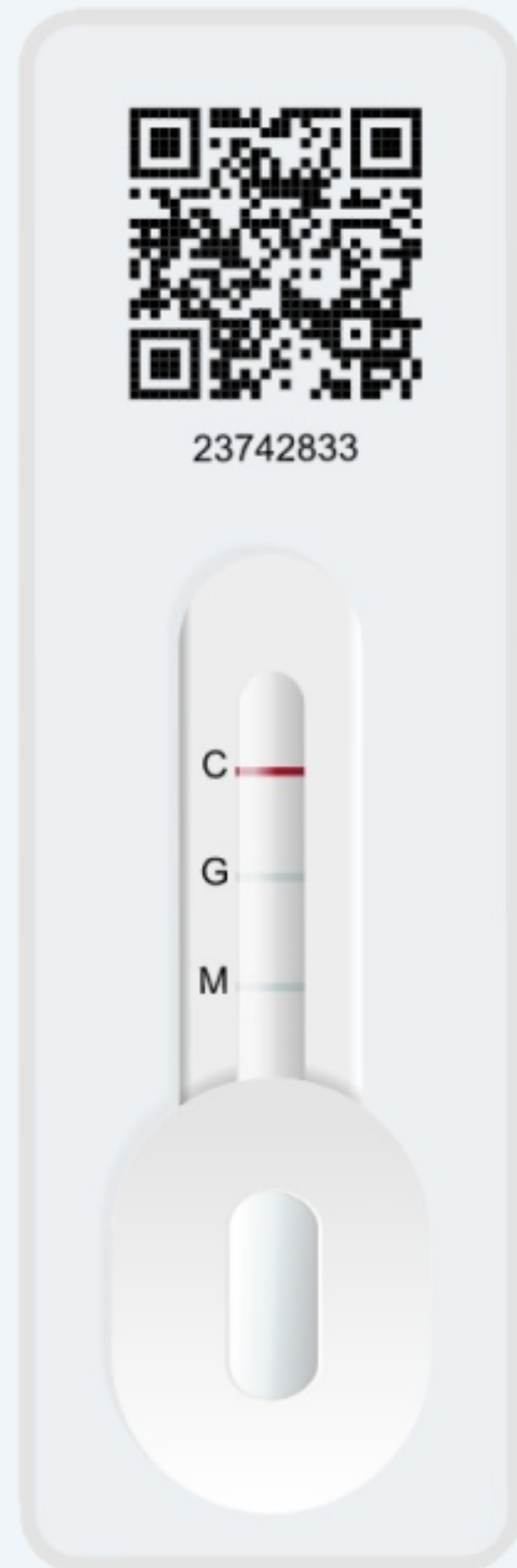
Customer Segment





# First wireframes

After working out what our main functions were, we started experimenting with wireframes, the focus of these were to keep them clean and simple, so that they are easy to use for people of all ages. We wanted it to look sleek, however to still include all of the options we had planned and lots of compact information.



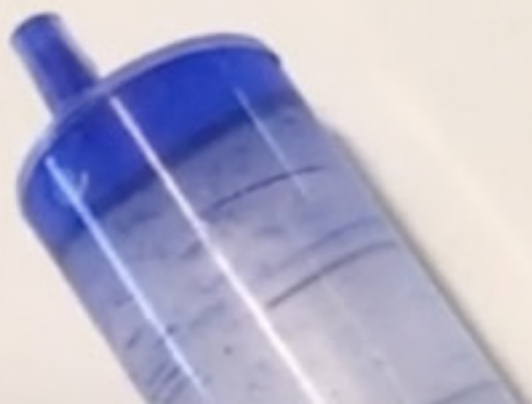
## First prototype

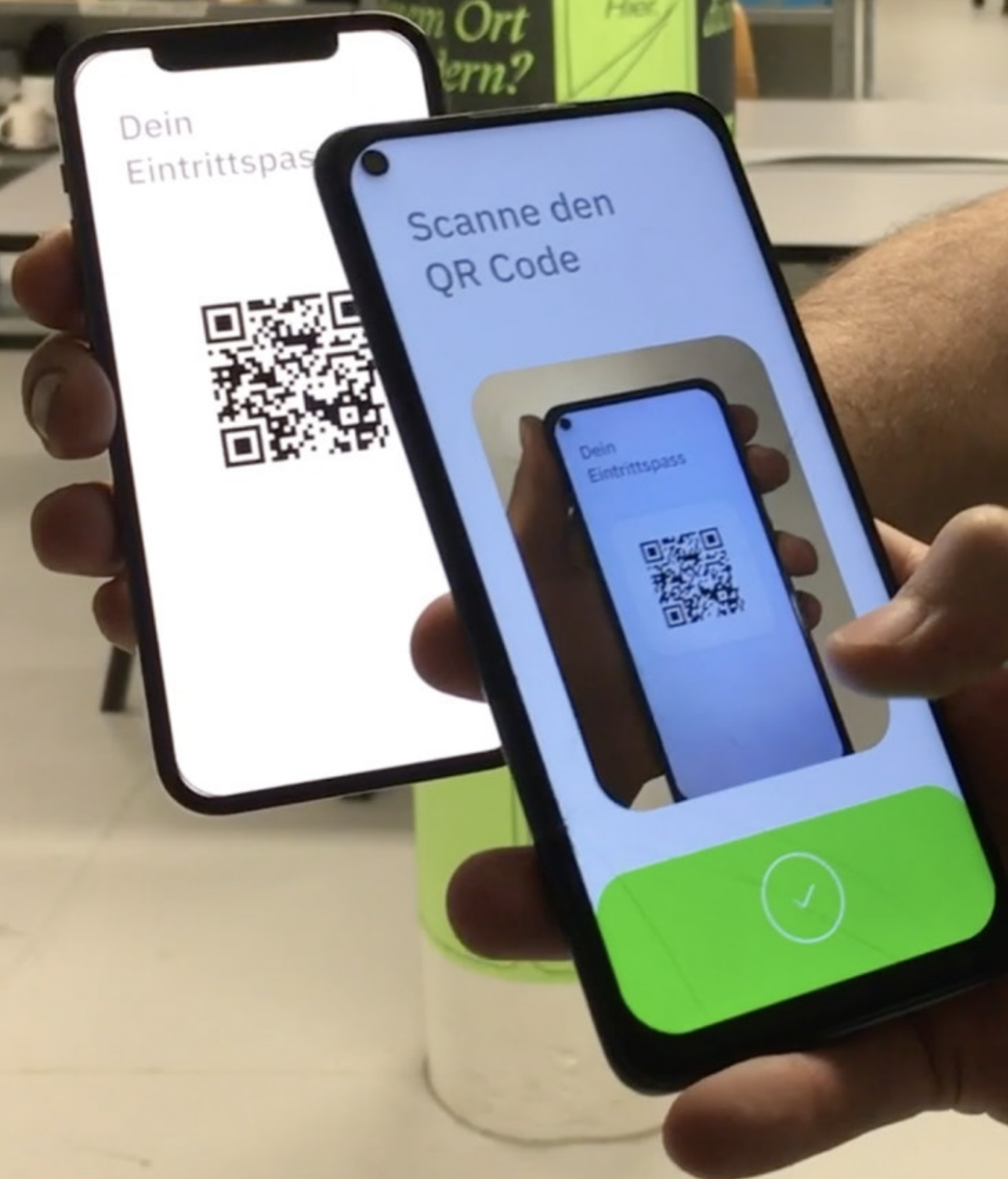
For our video we wanted to built a prototype to go along with our wireframes that could better demonstrate our vision. We built a selftest made out of polystyrene and stuck a printed out barcode onto it, which the user “used to test himself” in the video. The user then “scans in the test” in the video, and we can see a photoshopped picture of the negative test on his phone. Now that he is negative, he can show the QR-code at the entry, regain access to events and enjoy his freedom again. In the following slides you can see a few screenshots from our fist video demonstrating our concept.

Scanne den  
QR Code



Haben Sie Probleme?





Dein  
Eintrittspass



Scanne den  
QR Code

Dein  
Eintrittspass







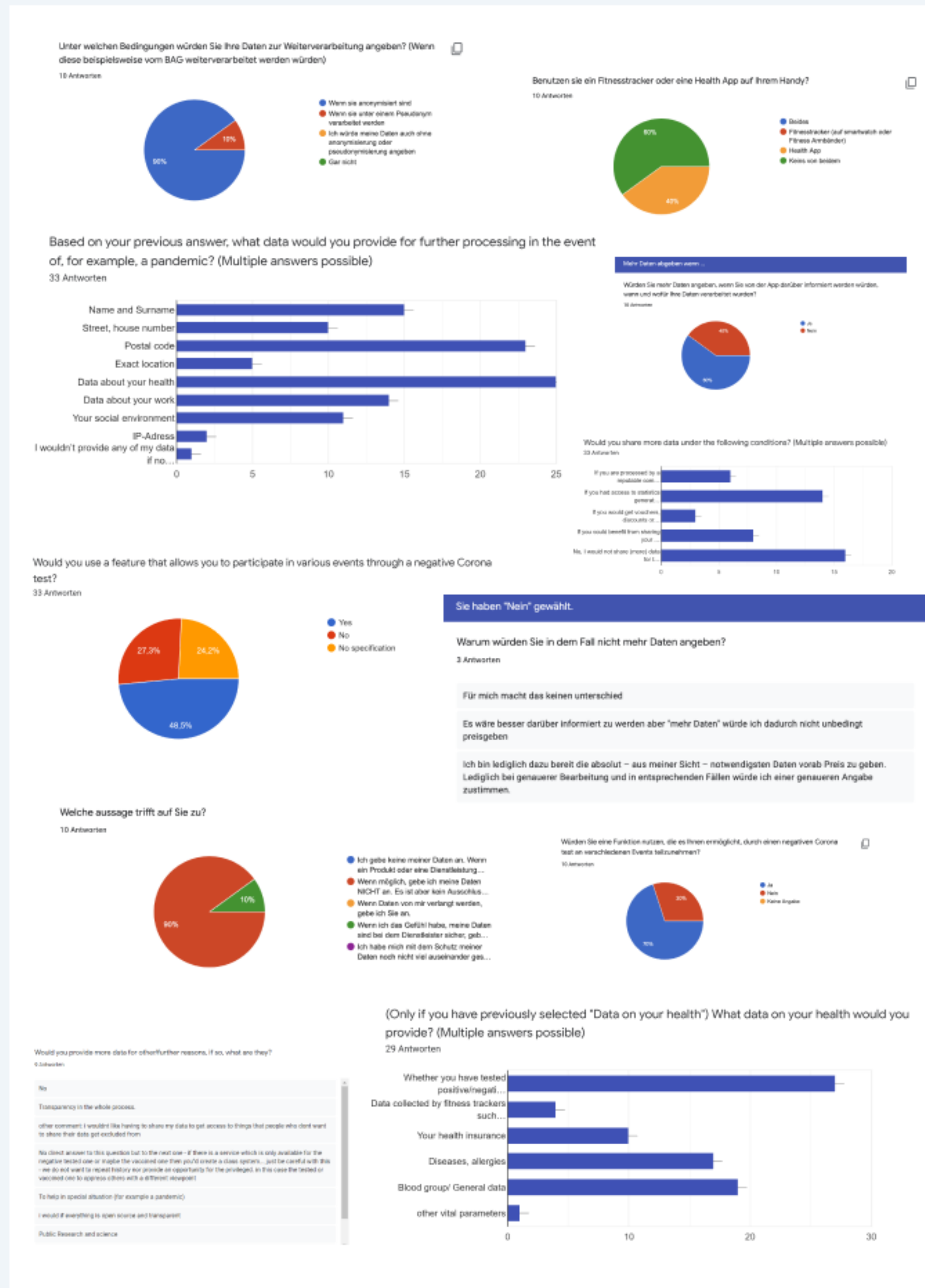
# Survey learnings

We surveyed 33 people and observed that data protection is very important to most people. However most people would be okay with giving out their data anonymized if they were informed when and for what their data is being used.

Another point is that only around half of the surveyed people would be interested in using a negative test to go to events.

Most people would rather not give out their data at all, however it is not a deciding factor when it comes to whether they will use a service/product or not.

25 in 33 people would be prepared to share the data of their health during a crisis situation, however only 16 in 33 people have the Covid-App installed. What could be the reason for this?

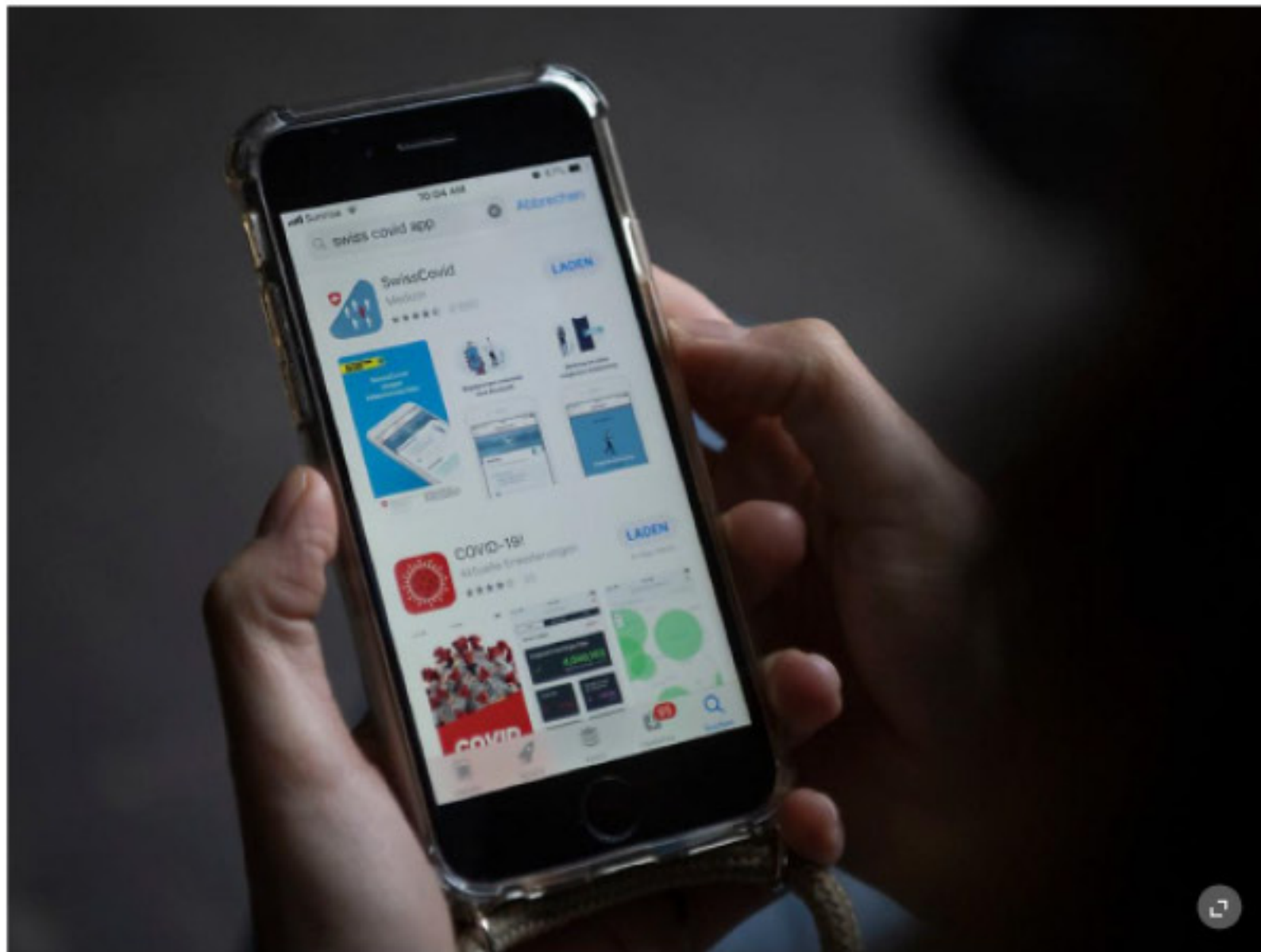


Von den Entwicklern der SwissCovid-App

## Restaurants, Bars, Konzerte: SwissCovid-App Erweiterung für ein nachhaltiges Zusammenleben mit dem Virus?

Der Bund diskutiert derzeit über eine Erweiterung der SwissCovid-App um diverse Funktionen, welche Hoffnung auf ein Leben wie vor dem Virus schenken soll. Die Erweiterung soll Gesundheitsämter und Nutzende in der Krise unterstützen und das Contact-Tracing verbessern.

Publiziert: 13.04.2021, 11:03



Die SwissCovid-App soll schon bald einem Update unterzogen werden  
Foto: Christian Beutler (KeyStone)

## User test - fake article

In addition to the surveys, we created a fake photoshopped PDF article to find out what people really think of our idea. The reason behind doing this was that people are more likely to be honest about what they are thinking when they are talking about someone else's app or project compared to what they would say of they think you are a part of it.

Okay ich ha sie Swiss Covid App nie benutzt und han nur Schlechts ghört, kann i aber nöd beurteile, da ich selber kei Erfahrig han, s'BAG unter dä Führig vom Berset hät mi nu enttüscht und daher müessti ich viieeel meh Erfahrigswert und Informatione ha aber da könnt eine Weile dauern - i däm Sinn hütige Stand Nei

Hotellerieuisse, Gastroverband, wirtschaftsverband chönnet alli potenzielli partner si.

Ich selber ha dApp au nonie abeglade gha. Es fehlt eifach chli eh gueti Werbig e gueti Präsentation und ja de Ruf mösst mer wahrshindli au zerscht ufessere.

Wänn es obligatorisch wird um gwüssi verastaltige oder au läde z bsuche werdet d lüt es zwangsmässig nutze um det inne z cho. Solang alles wie jetzt, dezentral bleibt hani nüt de gäge.

Ich nutze d app au jetzt scho

Ja sicher. Han au scho lang die swiss covid app. Bis jetzt nie e meldig becho.

ja mir sind es momentan au an gedanke desue mache wie mer meh mensche motiviere chönnti d'app z'benutze. Bisher isch halt neß Datenschutzbedenke au en grosse Kritikpunkt, dass d'app kei vorteil für eim selber bringt. So chönt mer villicht meh User dezue gwinne

Das isch sicher en grosse Punkt, dass mer kein Vorteil devo het. sicher en guete Gedanke. :)

Vlt. chamer ja e gueti Kooperation mitere andere Firma mache. Bidsis bispiel das mer Vergünstigunge het bi de SBB oder so.

Pascal Dufner  
Az Artikel & tagesanzeiger logo isch scho offesichtlich, um das wases geht isch aber aktuell

ah das hesch gemeint

Haha wird sicher bald true sii

ah das hesch gemeint

Ja ischmer strub inecho, au s'ganze design, aber generiert pdfs chönnd au strub sie mit biiz überflüge isch au s'thema klar & das wird momentan überall besproche

aber schad, han dänkt ihr mached vielleicht was cools a de zhdk

Ich ha au ned grad viel geg die erwiterig mer müssti dette eifach no luege dass es ide restaurant und so ned zwingend wird zum nutze also mer bietet de dienst trotzdem ah au wemmer dapp ned het eifach mit meh ihschränktige

AZ-Artikel.pdf • 4 pagine

Oh so cool, sinder da als ganzi Klass debi?

hender es interview mitm Berset gmacht?

Sicher e gueti sach solang es open source isch. Tuet das dini Schuel programmere?

Es git ja mehriert sötig projekt. Bin gespannt welles am schluss gwint.

wüeder euch d'app abelade und sie benutze mit dene funktione?

Ja sicher. Han au scho lang die swiss covid app. Bis jetzt nie e meldig becho.

Ansich ne gute sache aber was nicht bedacht wird das die app halt nichts bringt wen sie nur 30% haben

okay mercii

Wär d'Möglichkeit für Restaurant oder Konzert-Bsuech echt interessant für eu sich d'app abezlade?

Lüt kaufe sorry Alec ich enthalte mich minere Meinig, doch wünsch ich viel Erfolg

nei ich bruch au dini meinig

Oder wär d'angst vomene Überwachigsstaat z'gross?

Du  
Wär d'Möglichkeit für Restaurant oder Konzert-Bsuech echt interessant für eu sich d'app abezlade?

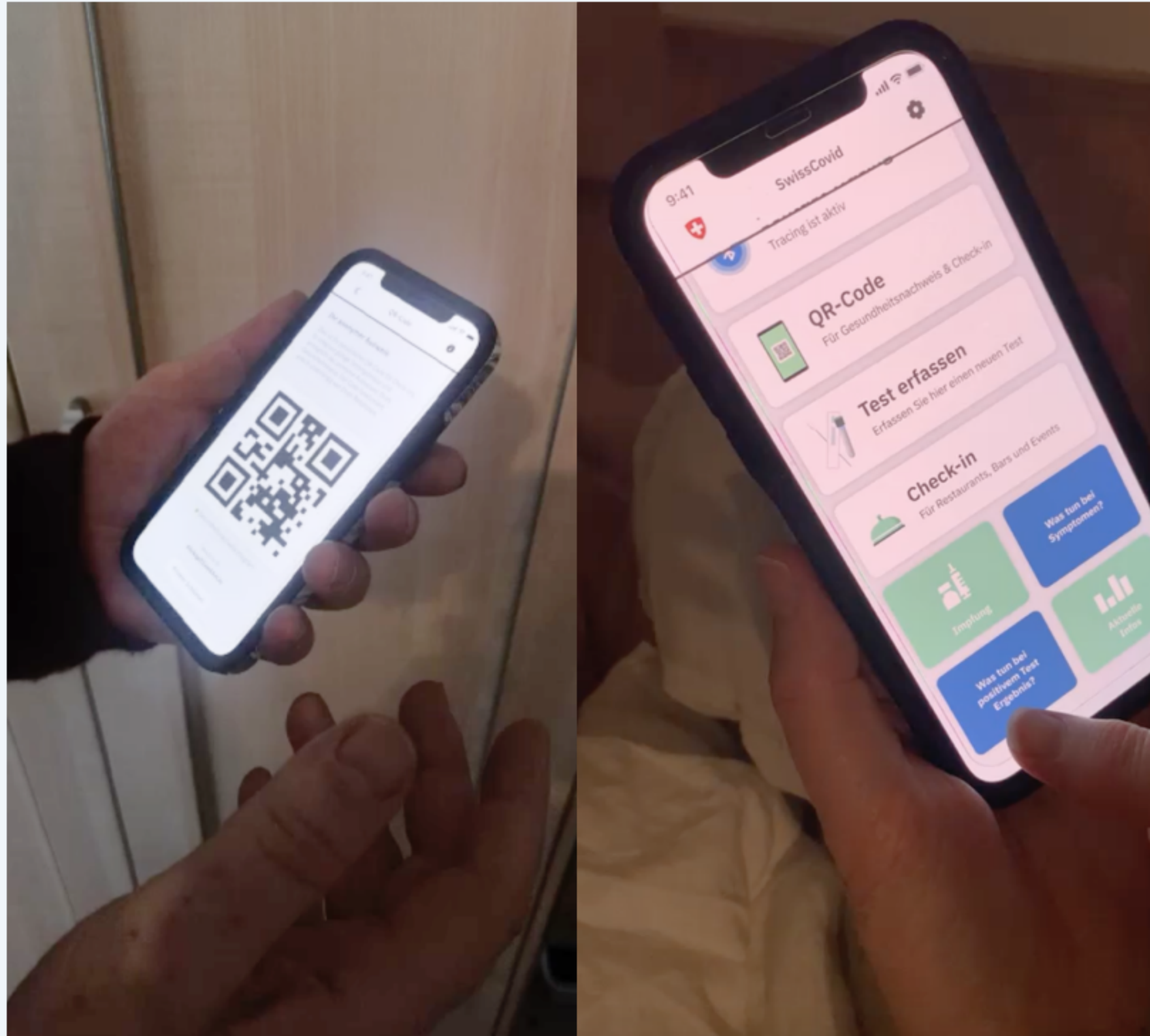
Sicher. Au für die beize. Die warted uff sone app. Müeste aber schnäll gho bevor alli beize bankrott sind.

also mer würd dadurch zuegang zu events becho wenn de test negativ isch denksch d lüt würdet denn ehnder d app installiere?

Ich glaub nöt

## Article feedback and learnings

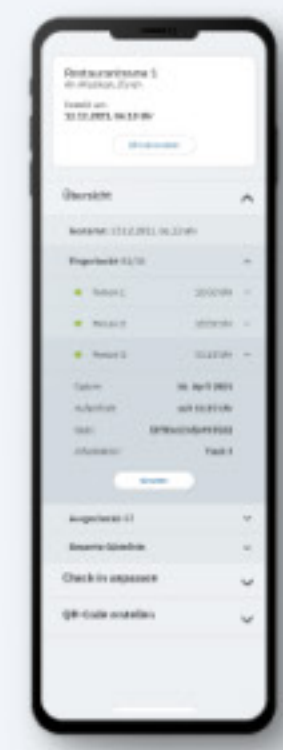
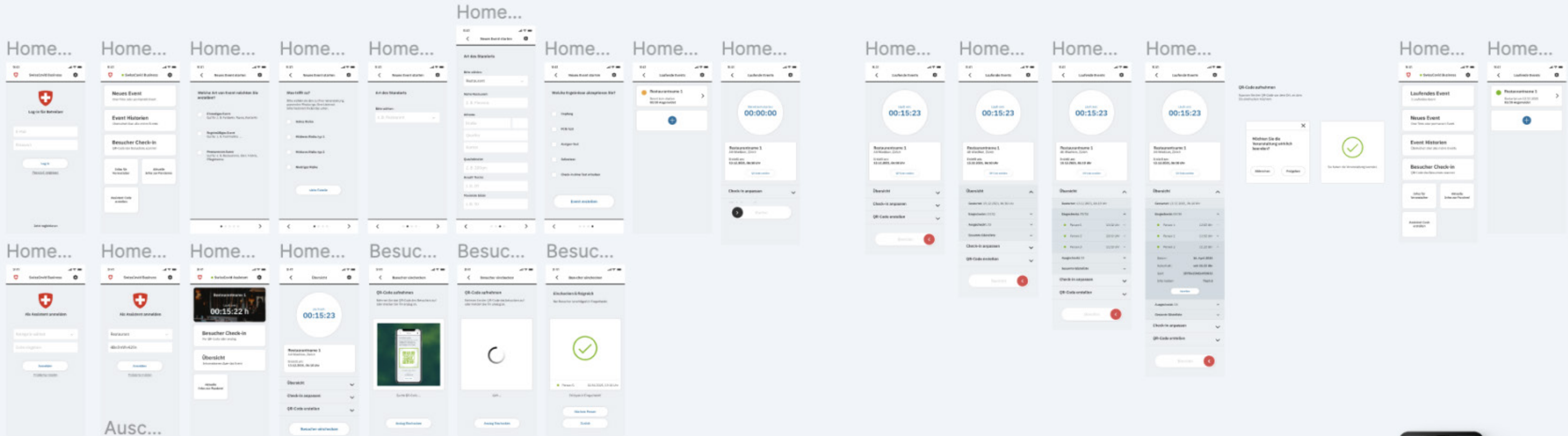
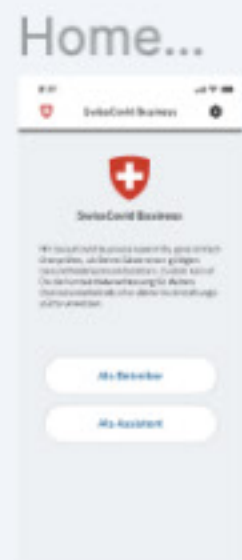
From the article, we gained quite a broad range of opinions, as you can see on the left (only a portion of the feedback is included in this slide). One interesting insight, was that the people who are critical of the app and are worried about their privacy tend to have a general distrust of governments and would rather use an app owned by a third-party. This lead us to believe that these people may not be swayed by different functions of the app itself, instead by how or by who it is marketed or by having a positive experience with the app, e.g. their friends using it. Many who think it's a good idea think offering an advantage by using the app would help motivate people to install it and keep it installed and that the impact it would have on the businesses reopening is a positive thing.

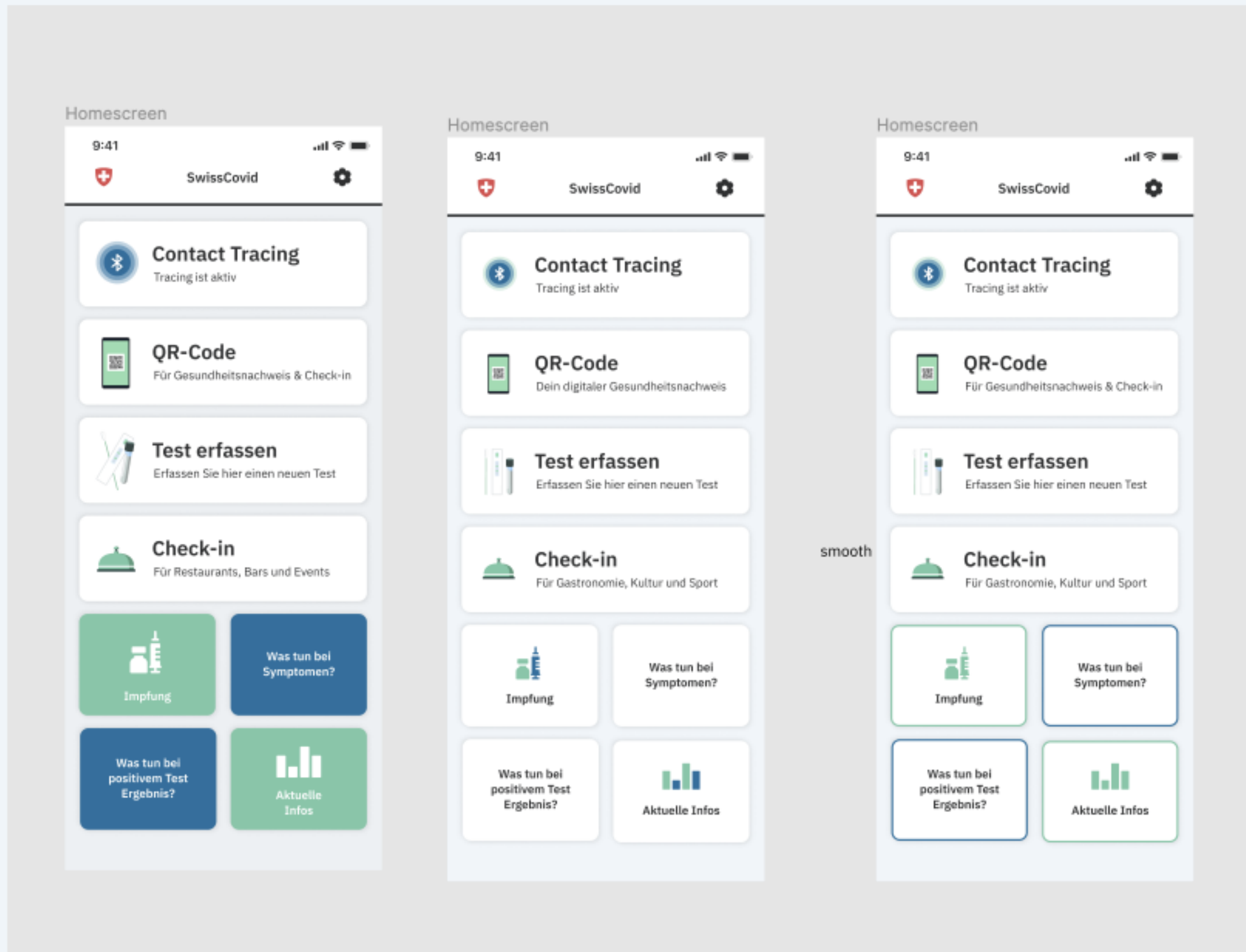


## Tweaking wireframe functions

We took the feedback into account and made a few minor adjustments, after more discussions. However, the general idea stayed the same, the main functions remained getting access to places with your digital health pass, checking-in easily and anonymously at any facility, being able to book an appointment to get tested or vaccinated and getting up-to-date information about the pandemic.

After finishing the wireframes based on functionality (which you can see on the next slide), before moving on to the fine-tuning, we did a few user tests, just to make sure a broad range of users were able to intuitively find their way around our app. According to those we had tested and what we had observed, this worked very well.





## Moodboard and style

After we finished the functional part of the click dummy, it was time to fine-tune it. We analysed what colors and types of icons the current SwissCovid app uses and made a mood board which you can see on the next slide. After that we experimented with various different styles and colors, which led to long discussions colors until we were all happy with the result.

H1 Title

H2 Title

H3 Subtitle



H1 Title

H2 Title

H3 Subtitle



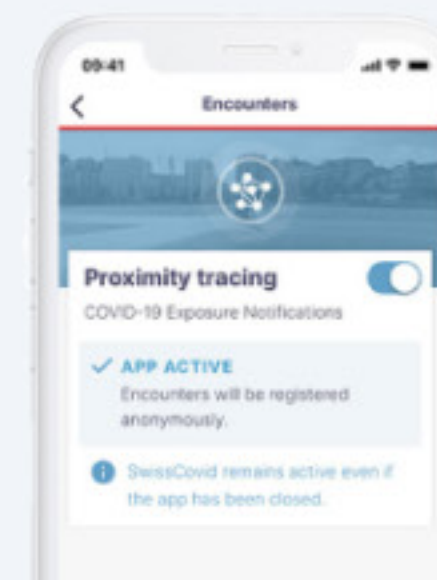
H1 Title

H2 Title

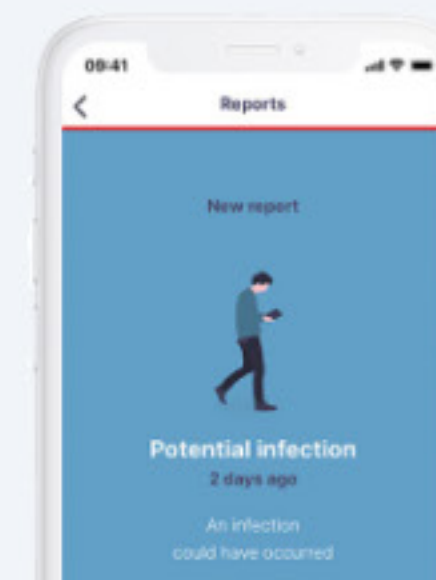
H3 Subtitle



Recognising encounters using Bluetooth



Report of potential infection



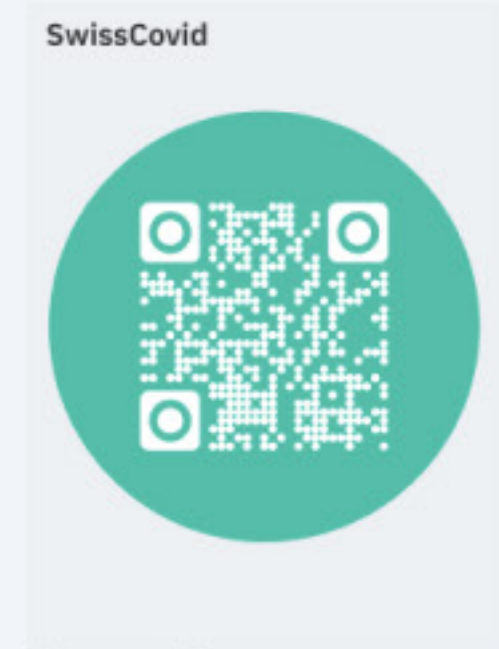
Protection of privacy

- Only random IDs are exchanged, not data about your location or your person.
- The random IDs are stored on your device for 14 days and then deleted.

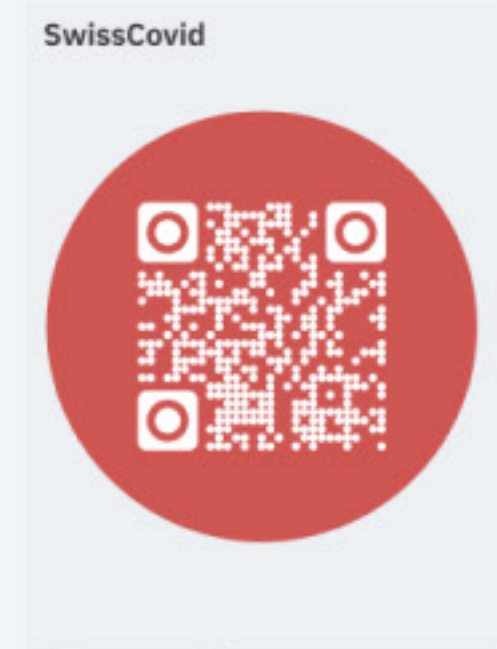




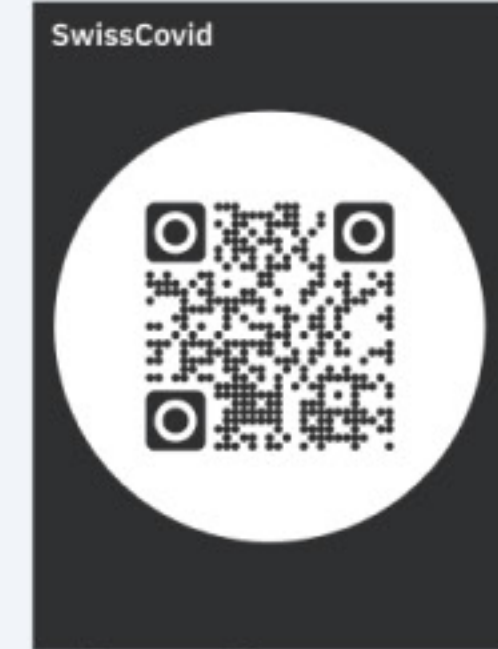
Frame 7



Frame 8



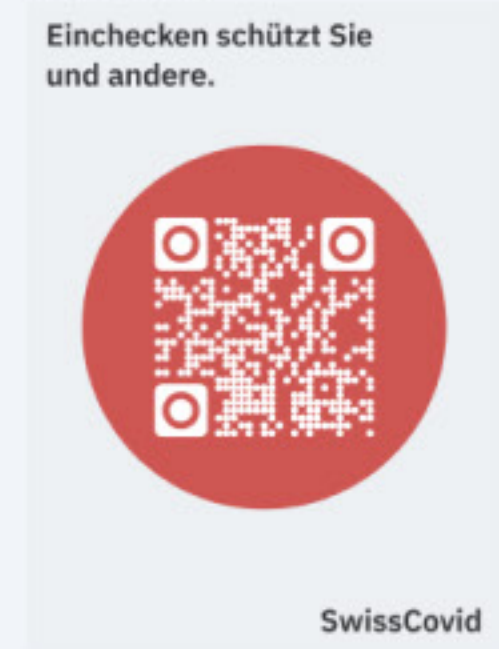
Frame 9



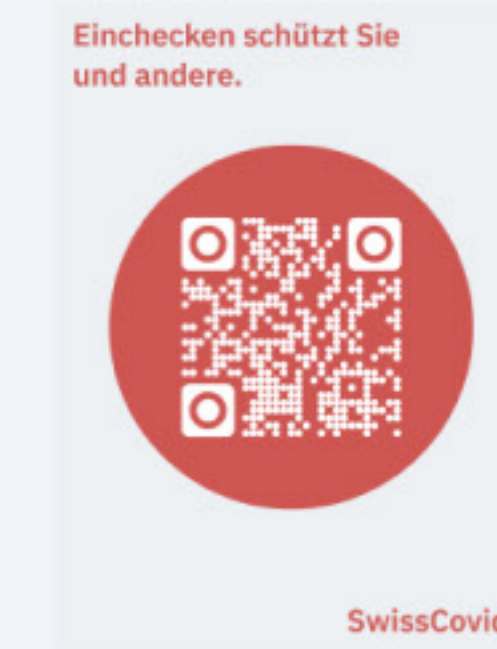
Frame 17



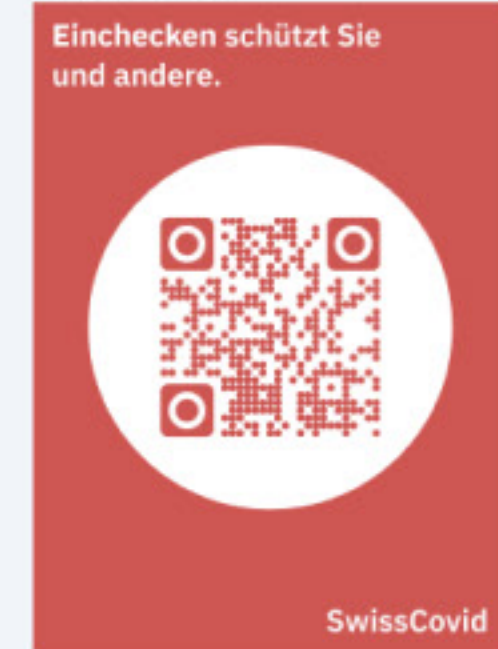
Frame 10



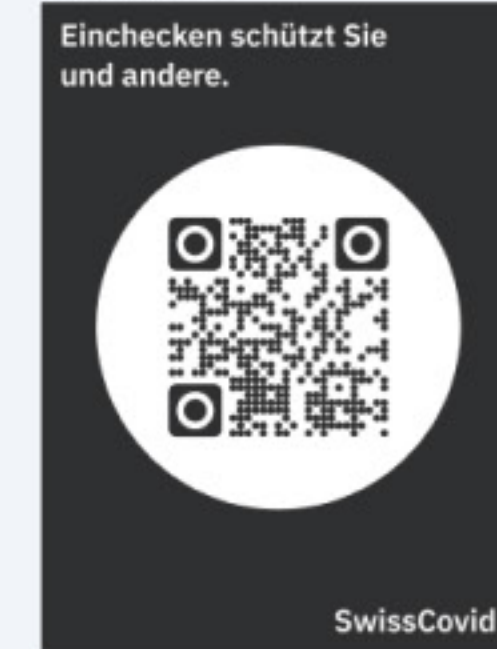
Frame 11



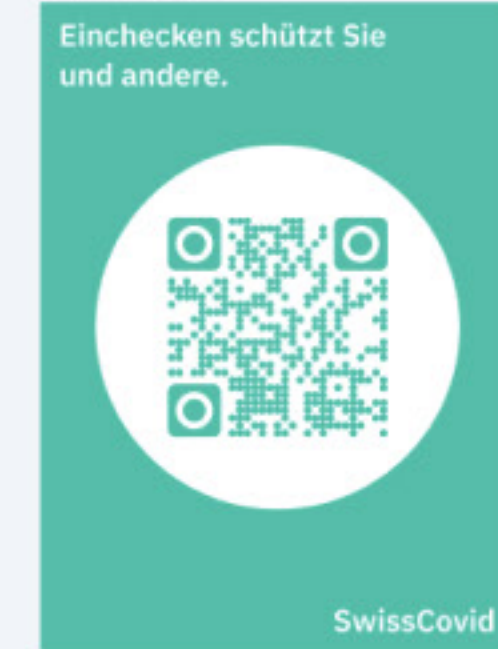
Frame 12



Frame 13



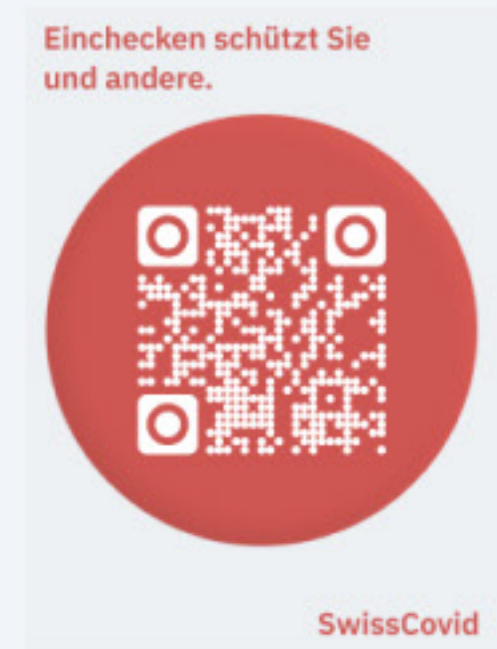
Frame 14



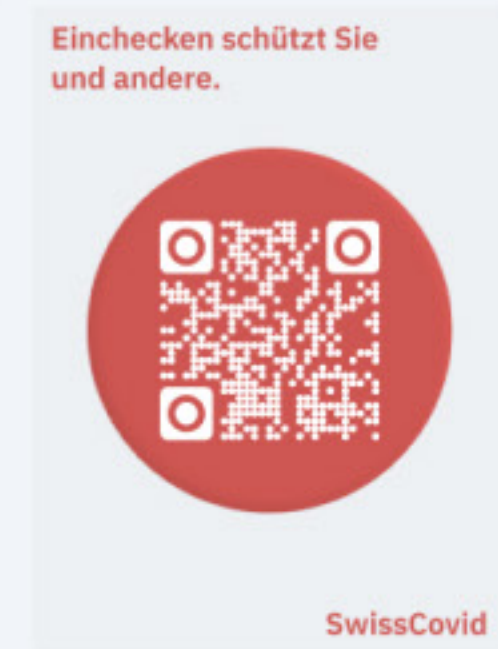
Frame 15



Frame 16



Frame 18



### Color Styles

- DarkBlue
- Gültig
- Rot
- Läuft bald ab
- White
- swisscovid-grün
- swisscovid-blau
- swisscovid-weiss-blau
- swisscovid-weiss-grun
- pictogram-grün
- grey-stroke
- background
- ▶ grey

### Text Styles

- Ag** H1-Title
- Ag** H2-Title
- Ag** H3-Subtitle
- Ag B1-Body
- Ag B2-Body
- Ag L1-Link
- Ag** M - MenuHeader
- Ag H4-Subtitle
- Ag B3-Body
- Ag** Text

### Edit style

swisscovid-weiss-blau

Description


### Properties

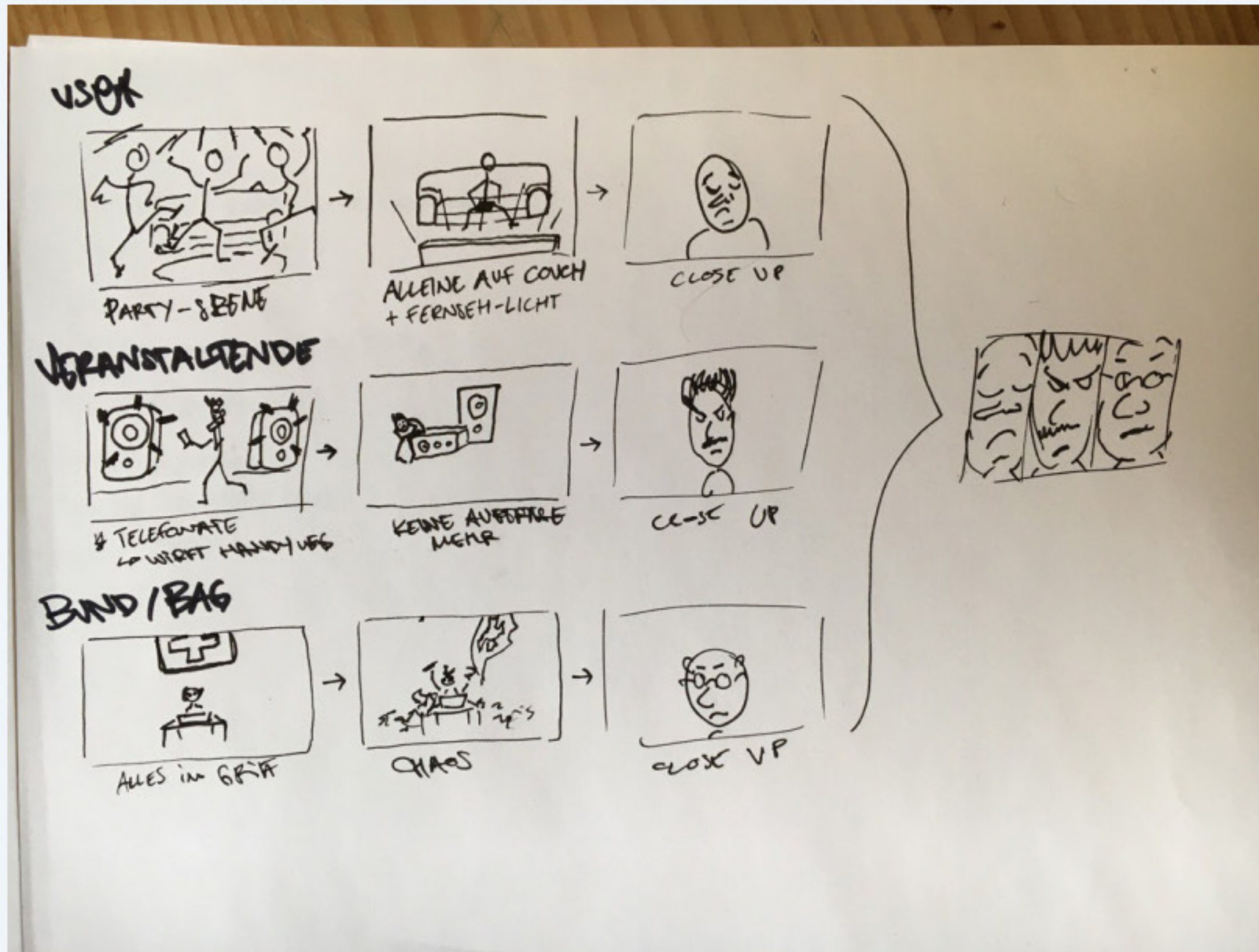
□ F0F5F9 100%  -

### Effect Styles

 swipebutton

 square-buttons

 innershadow



## Storyboard

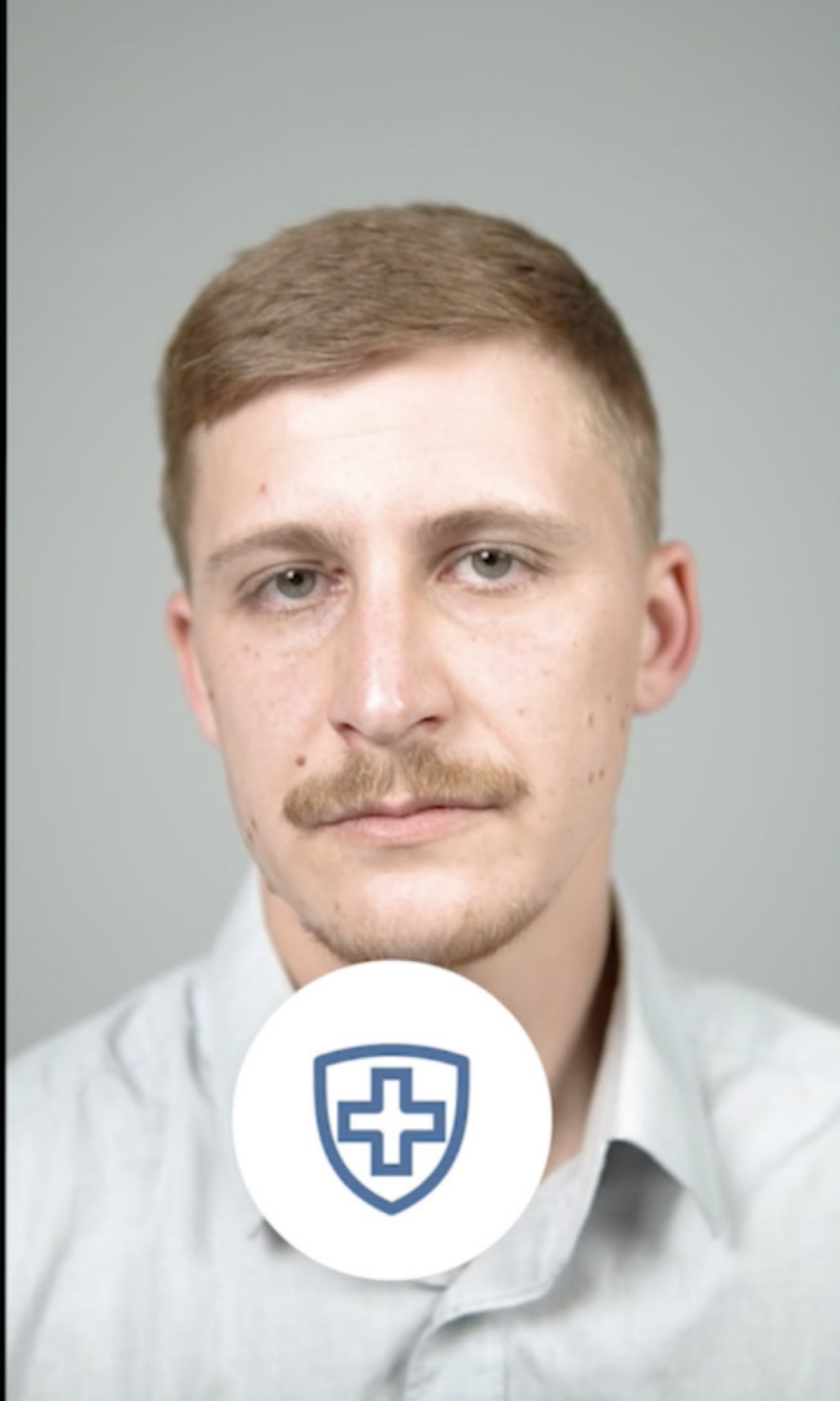
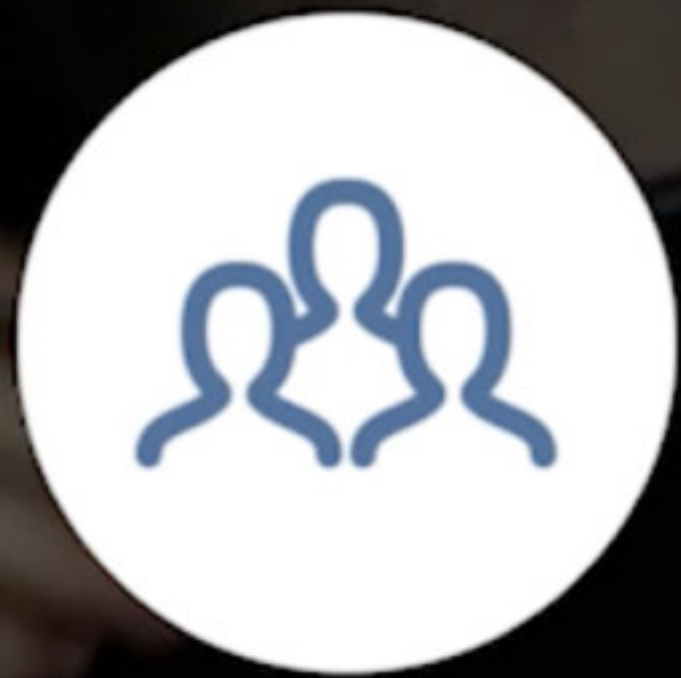
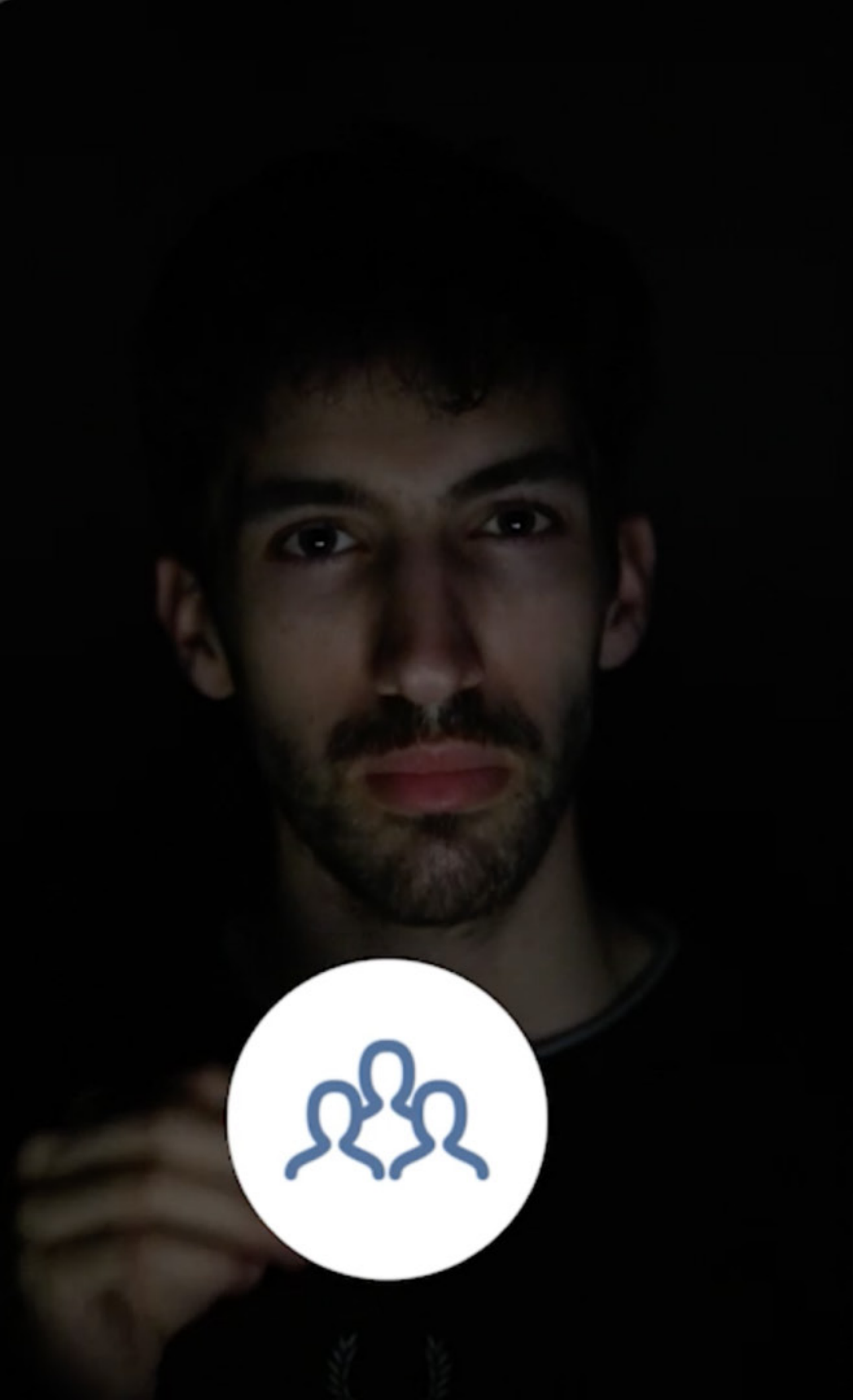
For our video we thought it would be important to focus on the 3 main groups of people who would benefit from using our service. The first being the civilians, the second group being businesses and the third being the federal government, cantons and municipalities.

The aim was to quickly show the impact of the crisis on each of these groups, how our app could help better manage this situation and how it can help these groups work together and mend their bond with each other.













## Win-win for all involved

During the video it should become clear that each of the 3 groups is able to benefit from our app. The users are able to view and use their digital test and vaccination results, there is a check-in function available to them, they can stay informed on possible infections through contact tracing and through privacy by design they can do all of this with peace of mind. The organizers and businesses can safely reopen, they can get an overview of the number of guests and they no longer need to deal with messy paperwork. Lastly the federal government can gain access to anonymized data for the crisis management, this can form a basis for taking targeted measures and the framework is transferable for other crises.

# Features

## Decentralization

All data is stored locally. The data can be forwarded anonymously to the central server with permission. The central server receives minimum amount of information tailored to its requirements.

## Health Certificate

The health certificate includes the gathered covid tests and vaccination status. The data is stored in the blockchain and transmission is only possible with the private key.

## Check-in

In the facilities, guests can check in by scanning the QR code of the place there without sharing any data.

## Secured Verification

Verification is done via Bluetooth, so neither contact details nor an ID have to be provided.

## Rapid Covid-19 Test

Each Rapid Test contains an ID and linking it to the app enables verification of the test.

## Contact Tracing

Contact tracing allows to collect the close contacts with proximity and in the positive Covid case, the stored contact persons can be informed that they were in contact with an infected person.

# For the Bussinesses

With SwissCovid Business you can easily check if your guests have a valid health certificate. In addition, you can implement the contact data collection for your catering business or your event location.

## App overview

- Organizers can scan one visitor after the other in a fast and easy way.
- Catering Businesses can profit from the automated contact data collection of their clients.
- Clients can
- Organized overview of the clients that came and when they left.

## Collected Data



### Events

The information the Business User can view and also share with the BAG are the number of guests, the time and date of their arrival and departure. The amount of vaccinated guests, negative tested guests as well as the positive tested. Which kind of event is taking place. If it is an event in the future or in the past.



### Check-In

The information the Business User can view and also share with the BAG are the number of guests, the time and date of their visit, the rough location of the space and the positive cases that occurred.

# For the federal government, cantons and municipalities

The cantons and the municipalities have access to the data that can support them in combating the pandemic. The Confederation has access to the general.

## App overview

- Installation rate
- Active / passive usage rates
- Data donation rates
- Registered Covid codes

## Risk level

- Low
- Particularly vulnerable / works in the health sector

## Tests and proportion of positive tests

- Proportion of positive PCR, antigen or self-test by postcode
- Proportion of positive PCR, antigen or self-test - Time trend
- Proportion of invalid or unscanned self-tests

## Events

- Cantons / place / postcode
- Number of participants (negative rapid test / negative PCR / vaccinated)
- Date
- Type of event
- Check in number / time

## Facilities

- Check in number/time/date
- Check out Number/Time/Date
- Tested positive Number/Date



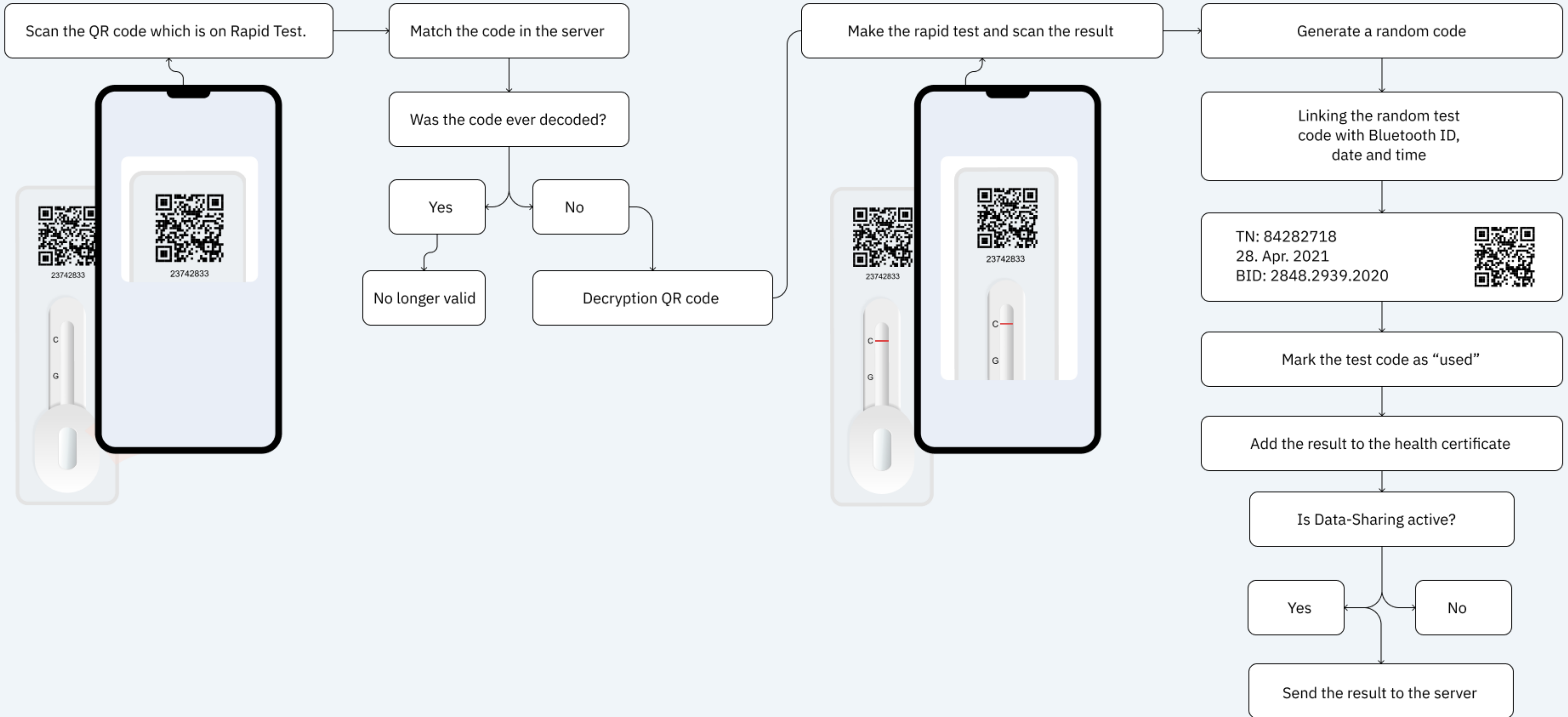
## Design decisions and function

On the next slide you will be able to see how Rapid Test Verification works. This was an important function that we needed to pay attention to, to prevent false test results. If the code (and the test) has been used before, then it is no longer valid. The random test code is also linked with Bluetooth ID, date and time, this is to make sure someone doesn't screenshot the QR-code and send it to someone else.

PCR, rapid and antigen test results can be stored locally. This information serves as a self-check and proof of health for bars, restaurants and events. The user's information is verified at the entrances of visited sites via their encrypted Bluetooth ID. This eliminates the need for contact details.

These decisions ensure both privacy and safety.

# How Rapid Test Verification works



## To summarize

The reason why SwissCovid 2.0 is a game changer is that it's designed to facilitate cooperation between the federation, cultural practitioners and the population. Everyone should benefit from collaborating.

Privacy by design and safety are our focus. SwissCovid allows individuals to maintain control of their personal collected information and share it in a way that is secured, verifiable and anonymous.

Freedom and personal choice is maintained because our service ensures data minimization. Data sharing is not a must on data collection. Collected data can also create value, when it's locally stored. People are allowed to share the data with the covenant, but without a data sharing it also serves its purposes.

Crisis management is the aim. The collected data is to be evaluated by the federal government in times of crisis and used to develop crisis management measures. The analysis of the data leads to measures and solutions.



## Looking back

During this module, we got the opportunity of dealing with an interesting and relevant wicked problem, which contains many different facets and affects many different people, so there was quite a lot to do. Somehow we remained calm and motivated, worked together and managed to organize ourselves without any issues. We discussed the best approach to a solution after hearing many different opinions and weighing the pros and cons regarding each of them, while working with people we haven't worked with before, we also learnt a lot from each other.

Many methods which we learnt are applicable in many different areas and it was great being able to practise tools which we have previously worked with.

All in all it has been a positive learning experience.



9:41

Informationen Impfung

**2,39 Mio.**  
erhaltene Impfdosen

**Impfungen**  
aktuelle Entwicklung

**686k**  
Vollimpfungen

**8,0%**  
der Bevölkerung

**Impfplan 2021**

Jan Feb Mer Apr Mai Jun J

Altersheime  
über 80

9:41

Check-in

**QR-Code scannen und Einchecken**

→ Scannen Sie den QR-Code, der Ihnen vorort zur Verfügung gestellt wird.

QR-Code zum Einchecken

Privates Treffen erstellen

**Ihre Historie**

- Gestartet um 21:32 Uhr  
berri's Los Angeles Aktiv
- vom 10.04.2021  
Privates Treffen Abgemeldet
- vom 03.04.2021  
Veranstaltung Abgemeldet

Daten freigeben

SwissCovid

**Contact Tracing**  
Tracing ist aktiv

**QR-Code**  
Dein digitaler Gesundheitsnachweis

**Test erfassen**  
Erfassen Sie hier einen neuen Test

**Check-in**  
Für Gastronomie, Kultur und Sport

**Impfung**

**Was tun bei Symptomen?**

**Was tun bei positivem Test Ergebnis?**

**Aktuelle Infos**

9:41

Selbsttest

**Identifizieren**

Scannen Sie den QR-Code auf dem Schnelltest

9:41

QR-Code

**anonymer Ausweis**

es ist Ihr persönlicher QR-Code für Check-ins. integriert gültige Testergebnisse und ermöglicht das anonyme Ausweisen Ihres Gesundheitsstatus. Der Code funktioniert doch unabhängig von Ihren Resultaten.

Gesundheitsnachweis integriert

Öffentliche ID  
44ckqpD1aw6XmJb

Privater Schlüssel