

# STOPP CORONA APP

## Project Overview

May 2020



ÖSTERREICHISCHES ROTES KREUZ

*Aus Liebe zum Menschen.*

# CONTAINMENT 2.0 STRATEGY



## THE HAMMER

Lock-down

Massive restrictions



Avoid collapse of health system



## THE DANCE

Start isolating contacts based on **sensitive symptom check** (high false-positive)

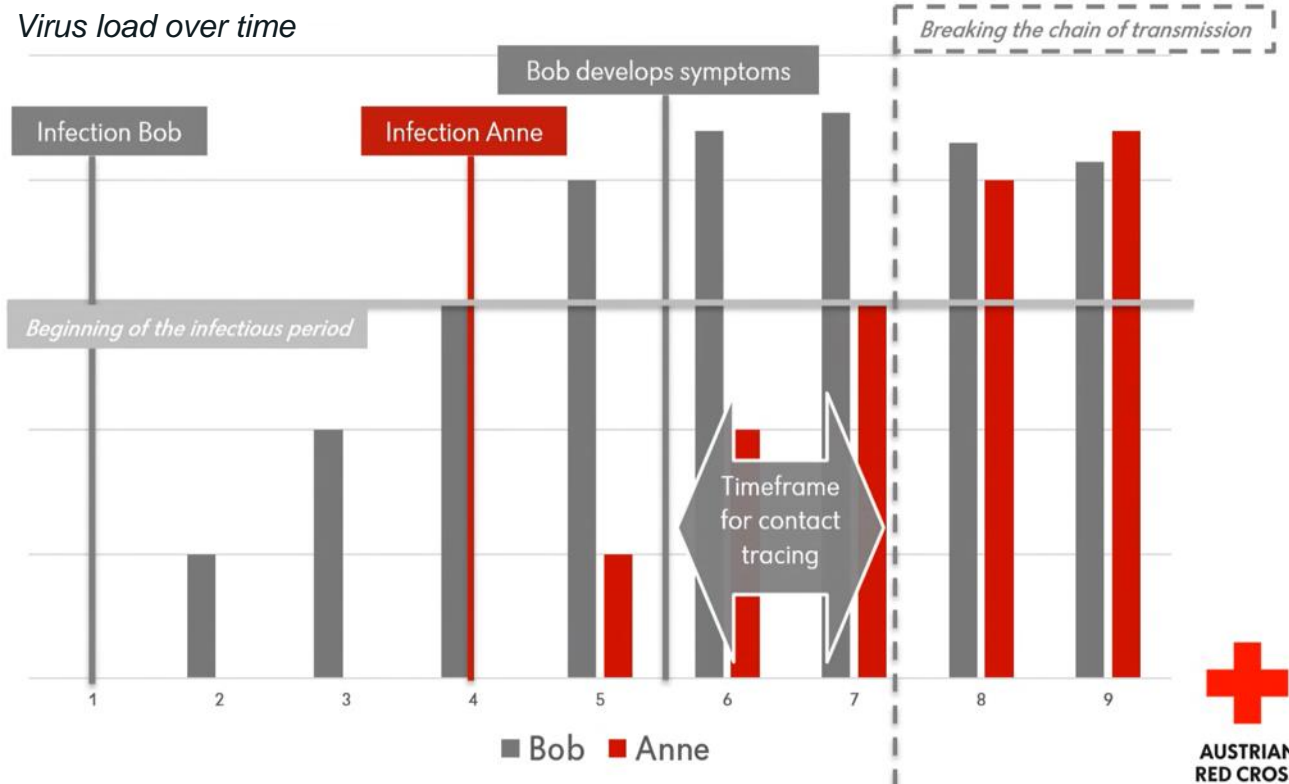
Do **quick testing** with potential infections (24h median) and inform isolated contacts in timely manner



Manage open society without fallbacks



# WHY CONTACT TRACING IS IMPORTANT



# APP DEVELOPMENT HIGHLIGHTS



- Closed source ✓
- Trusted source ✓
- Open source ✓



Closed collaboration to define functional requirements for their interfaces



Data protection / de-central system



- #1 first contact tracing app in Europe
- #1 shortest go-to-market time in the world
- #1 de-central app in the world
- #1 broadest vision & functionality



Co-Author of DP-3T interoperability protocol



Beacon Concept



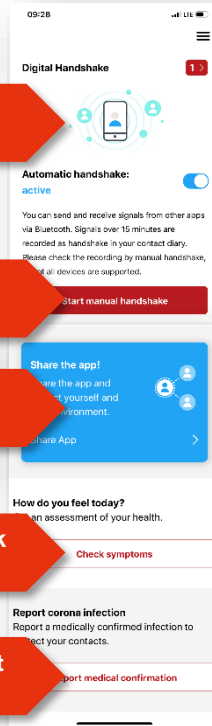
Close collaboration with NGOs and Universities



- > **Single purpose application**
- > **Decentral and GDPR compliant**
- > **Input from 230+ experts**
- > **Globally scalable**
- > **Red Cross as trusted organization**
- > **Approved by Austrian authorities**
- > **Supported by NGOs**
- > **International reference model**

# MAJOR APP FUNCTIONALITY

## Homescreen



1. Automatic Handshake

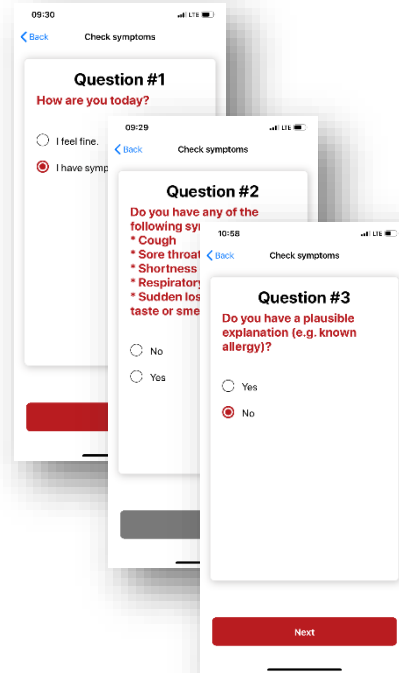
2. Manuell Handshake

3. Share App Link

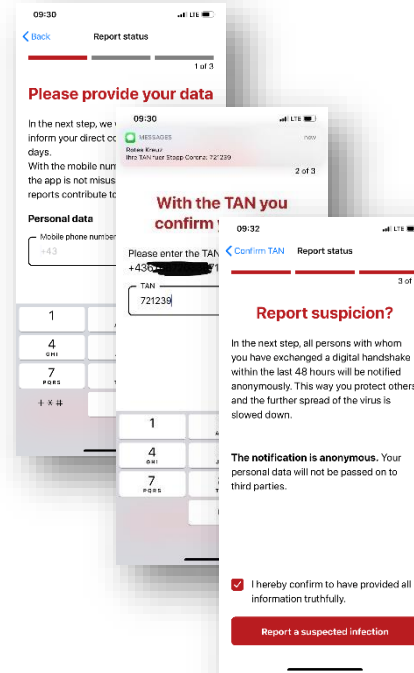
4. Symptom Check (yellow warning)

5. Positiv Lab Test (red warning)

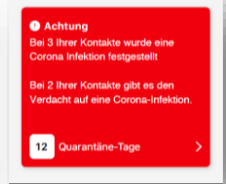
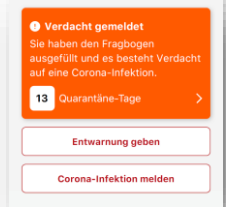
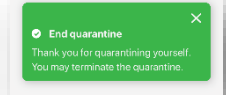
## Questionnaire



## Authorization (SMS/TAN)



## Different States (green / yellow / red)



**STOPP  
CORONA**

**Take a look:**

<https://tinyurl.com/stoppcorona>



- 4 Wenn das nicht möglich ist, hilft ihnen gerne das **Team Österreich** unter: **0800 600 600**
- 5 Der Amtsarzt beendet die Quarantäne.

**Willkommen!**

Mit der Installation der COVID-19 App helfen Sie dabei, die **Ausbreitung** des neuartigen Corona-Virus zu **verlangsamen**.



Weiter

9:41 Digitaler Handshake

Begegnung auswählen & speichern

Wie funktioniert's? ⓘ

Smartphones in der Umgebung

Sie sind: 1136

- alle
- 2453 ✓ Gespeichert
- 2398
- 4755
- 1616
- 8845

Kontakt nicht gefunden? >

Speichern

9:41

**Gemeinsam gegen COVID-19**

✓ **Erkrankt gemeldet**

Sie haben sich als offiziell COVID-19 erkrankt gemeldet.

Begeben Sie sich in Quarantäne >

9:41 Digitaler Handshake

Begegnung auswählen & speichern

Starten Sie den digitalen Handshake um eine Begegnung zu speichern. Die Kontakte werden im Krankheitsfall anonym beschrieben.

09.03.2020	11:00-12:00	#120
12.03.2020	22:00-23:00	#119
11.03.2020	8:00-9:00	#118
10.03.2020	16:00-17:00	#117
10.03.2020	17:00-18:00	#116




9:41

[Check symptoms](#)

**Result**

**Stay healthy and help to protect others.**

In the current situation it is important to follow a few basic rules.  
**Care for you, care for me.**

-  Wash your hands regularly: with soap, warm water and for at least 20 seconds.
-  Keep at least 1-2 meters distance to other people.
-  Keep in touch via electronic media.
-  If you feel ill, please stay home.

9:41

# STARTING POINT

Accenture was requested to support the Austrian Government's Crisis Management Team and the National Red Cross

Key Question

„How can technology support the current situation in 2-4 weeks from now?“

How did it start on March 9th 2020?

Within 12 hours...	Ideate & prioritize
Within 24 hours...	Prototype & test
Within 1 week...	Define & implement
Within 2 weeks...	Go live & scale

## Guidelines

- 1) Fast & Impactful
- 2) Secure & Robust
- 3) Scalable





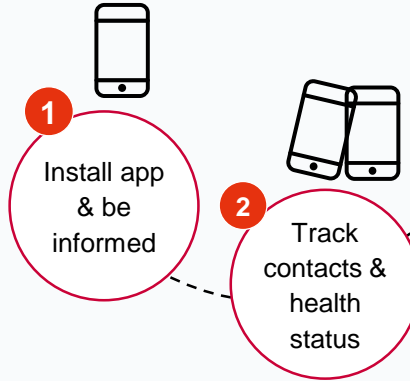
# STOPP CORONA APP



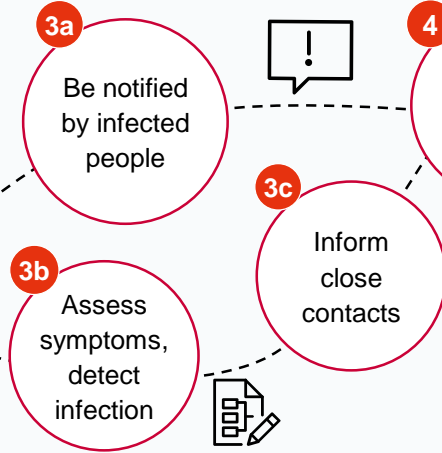
„I am happy to save other people's lives“

**Patrick**

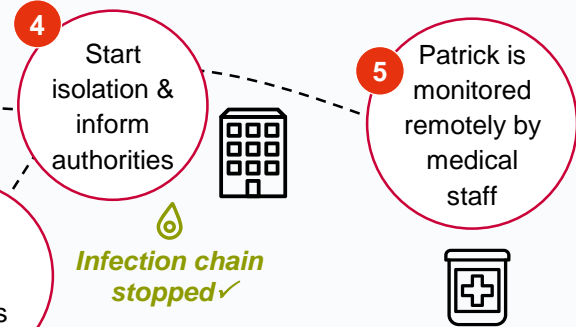
## TRACE CONTACTS



## PREVENT INFECTION



## REMOTE MONITORING



**Stopp Corona - MOBILE APP**  
(accenture custom dev)



**MOBILE APP + PLATFORM**  
(OpenTeleHealth)



# RELEASE PLAN

	Design	Implementation	Rollout
V1.0 Manual Handshake, Confirmed Infection	✓	✓	✓
V1.1 Warning / De-warning, Symptom Check, Automatic Pairing (opt-in)	✓	✓	✓
V1.2 & 1.3 Further Enhancements & Security Features, Open Source	✓	✓	✓

# CONTAINMENT 2.0<sup>1)</sup>

Quantifying SARS-CoV-2 transmission suggests **epidemic control with digital contact tracing** (Prof. Fraser Oxford):

- **Pre-symptomatic infection** is a critical factor (see Figure 1 – blue area), people do not know that they are already infecting others
- **Time** from symptom → labor test → test result → trace contacts → inform contact → isolate potentially infected people **takes too long** to effectively break infection chains
- In theory, if **60% of population** would use an app and **60% do isolate** based on the app, the pandemic would be solved (Figure-2)

i

The red cross app design is based on notification when symptoms are starting, to be even more efficient

Figure-1: Model of infectiousness

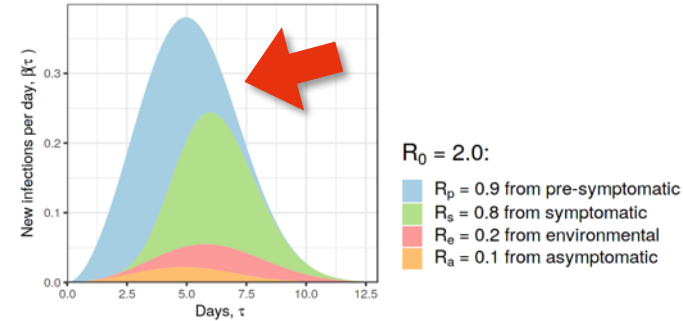
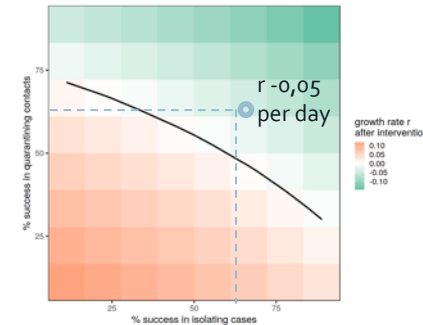


Figure-2: Intervention success



1) <https://science.sciencemag.org/content/early/2020/04/09/science.abb6936>;

# REFERENCES

## Penetration Test

[Link to press statement](#)



## SBA Research is a research center for Information Security

Principle of data minimalization, data protection and security is fulfilled

## Data Protection & GDPR Compliance

[Link to press statement](#)



## Digital Human Rights Center & Smart Right Consulting

App fulfills “Human Dignity by Design”

## Data Protection NGOs

[Link to press statement](#)

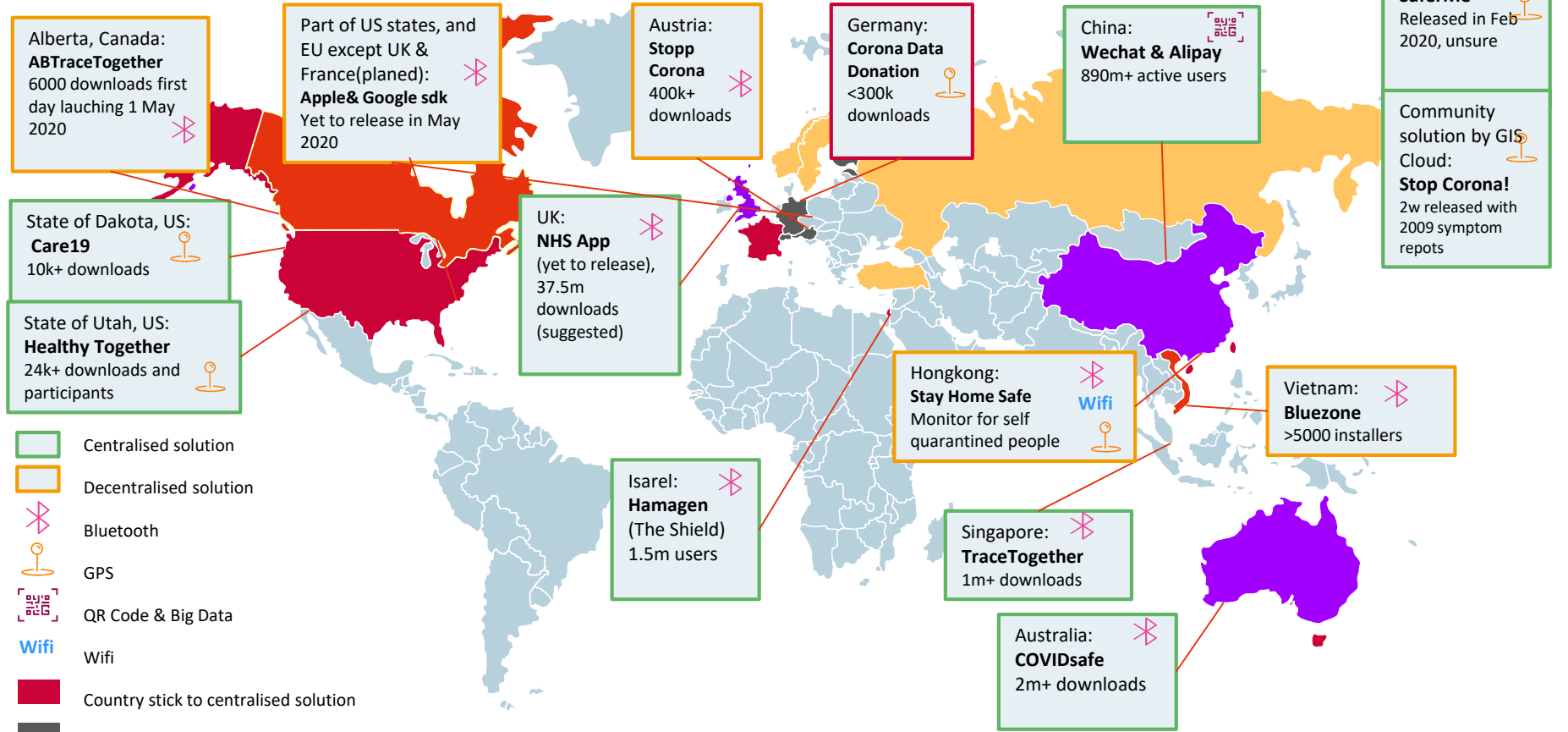


## Impactful Data Protection NGOS (e.g. Facebook vs. Europe)

Decentral app is role model for Europe



# GBLALE APP OVERVIEW COVID-19



Business Specific solution:  
**SaferMe**  
 Released in Feb 2020, unsure

Community solution by GIS Cloud:  
**Stop Corona!**  
 2w released with 2009 symptom reports

- Centralised solution
- Decentralised solution
- ✂ Bluetooth
- 📍 GPS
- QR QR Code & Big Data
- Wifi Wifi
- Country stick to centralised solution
- Country initiating/migrating to decentralised solution (Austria, Swiss, Estonia, Finland, Germany, Alberta of Canada, Vietnam)

# PRESS OVERVIEW

INNOVATIONEN

## Coronavirus: Rotes Kreuz laucht kommende Woche "Stopp Corona"-App

Soll Amtsärzte entlasten und Infektionskette unterbrechen

19. März 2020, 14:29 24 Postings

## Österreichs Coronavirus-App sorgt für Verblüffung in Europa

Der positiv verlaufene Datenschutzaudit der App des Roten Kreuzes platzt mitten in einen erbittert geführten europäischen Richtungsstreit um eine zukünftige Corona-App. Nur Österreich verfügt bereits über eine solche Applikation.



trend.

WIRTSCHAFT GELD BRANCHEN STANDPUNKTE STARTUPS PRIVAT

trend.at · Branchen · Gesundheit, Medizin & Pharma

## Stopp-Corona-App: Technologie, die Freiheit gibt

CORONA-TRACING

## Das österreichische App-Wunder

PREMIUM

von Thomas Kuhn  
30. April 2020



Corona-App-Entwickler im Interview

## "Deutschland hat sich für einen anderen Weg entschieden"

Österreich steht bereits kurz davor, eine Corona-Tracing-App herauszubringen. Michael Zettels Unternehmen Accenture hat sie mitentwickelt. Im Interview spricht er über die grundsätzlichen Konflikte der Angelegenheit und wo es im Moment noch hakt.

# RELEASEPLAN - OUTLOOK

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V1.2 & 1.3 Further Enhancements & Security Features, Open Source	✓	✓	✓
<b>V1.4 Personal data in local data center, recommendation feature</b>	Started	6 <sup>th</sup> May	8 <sup>th</sup> May
<b>V2.x Switch to Apple&amp;Google &amp; Interoperability</b>	Analysis started	May (tbc)	June (tbc)

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