

# Presentation WDMF API

## WiFiDirect-Message-Flooding-API

Joel Busch, Manuel Grossmann, Claude Hähni, Jakob Meier,  
Alessandro Nicolusi, Pascal Oberholzer

# We can what others can't!

- ▶ Everybody knows the moment when we would like to send a message but our mobile-phone has no connection.
- ▶ Sometimes it can save life if we could send a help message to the ambulance station even if we have no connection (for example on a mountain while skiing).

## What we thought

- ▶ Each phone has Bluetooth and WIFI which is often not in use if there is no antenna within reach.
- ▶ WIFI has a bigger reach than Bluetooth → WIFI is more capable than Bluetooth
- ▶ Address as many programmers as possible to use our idea: more users → higher probability to have someone in reach who uses the same "network"

# What we have created

- ▶ API to address as many programmers as possible
- ▶ Emergency app to show a simple example that our API works and what serious problems we can solve.
- ▶ Chat app to show an other scope of application.

# API

content...

# Emergency app

content...

# Chat app

- ▶ Send simple text messages to one other person.
- ▶ Asynchronous key pair (public and private key) to guarantee end-to-end encryption
- ▶ All information (name, id, public key) of a person are shared via QR-codes. (Both have to share the id and the key to write to the other)