DistMsg

Hipstercalypse

Timeframe we focus on

1 hour after Blackout
No Power
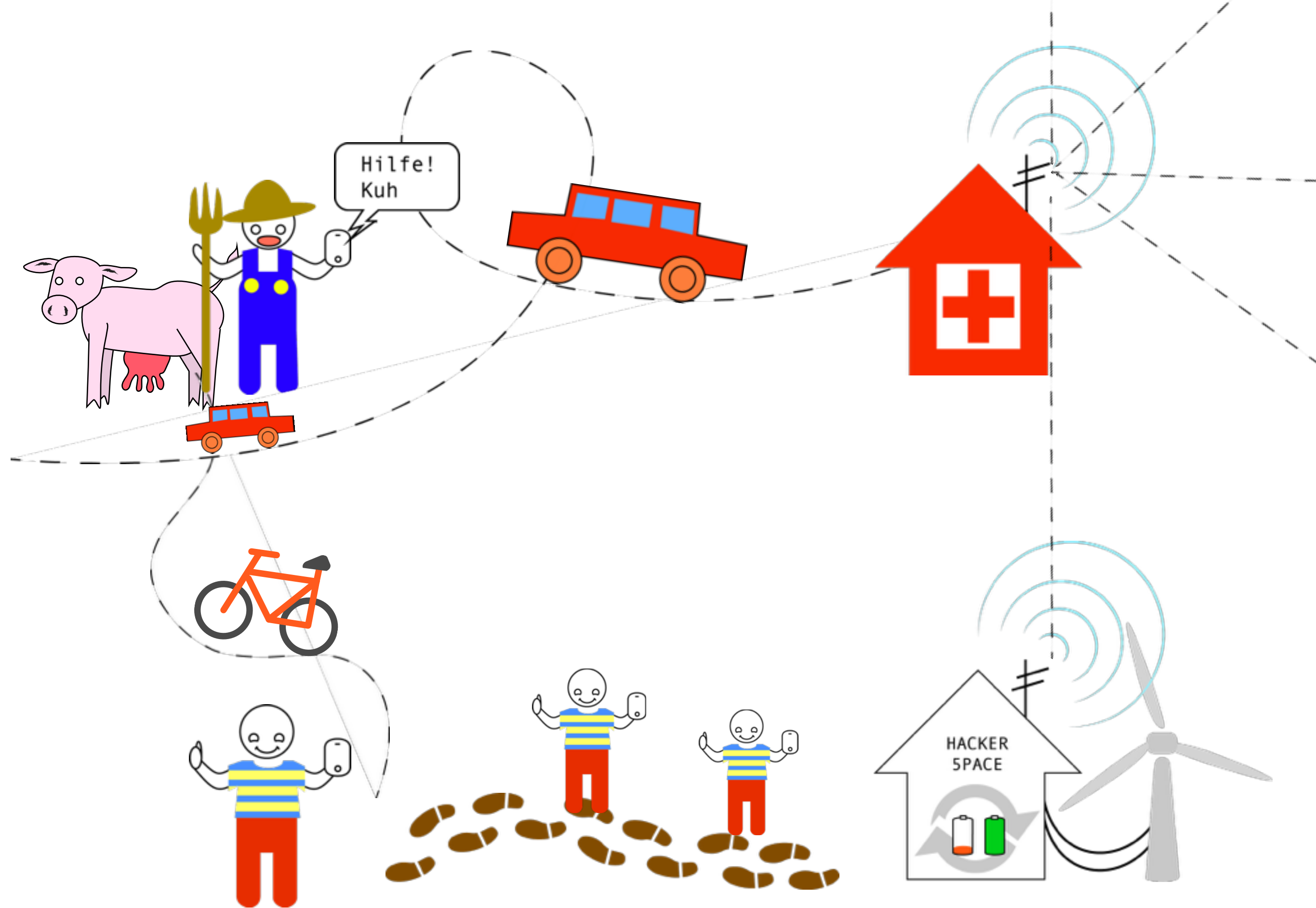No Internet
No GSM
Some Radio

Everyone has
a cellphone

Hopefully have
an external battery

Hilfe! Kuh

HACKER SPACE

Mobile App

Store Messages compressed

5G free space

160 characters message
512 bytes for a message

256 bytes compressed

19 531 250 Messages

Let user read / write messages

P2P with phone number

Bulletin Board

Geoinformation

Connects to other devices with

Wifi (freifunk, AP, Adhoc)

Bluetooth

USB

Streaming update

Optimise mobile for low power profile

Backbone

Basic routing based on geo information

High speed network

Long distance network

Satellite
Freifunk
APRS
BOS
Internet
Pigeon (RFC 1149)

Message

Message Types

Peer2peer direct messages   based on phone number

Citizen broadcast
aka Bulletin Board

Government messages signed with PKI (X.509)

Geo routing

radius (200km)

cities (Berlin)

countries (France)

Time To Life

Age

Hops

Sort
Government first
Date

Message UID
Remove dupes

DEMO

Code

https://github.com/jamesmunns/DistMsg