

Doctor search service.

Using Geo2tag LBS Platform
for mobile healthcare applications.

Ivan Bezyazychnyy, Kirill Krinkin

Saint Petersburg Electrotechnical University “LETI”, Russia

12th FRUCT

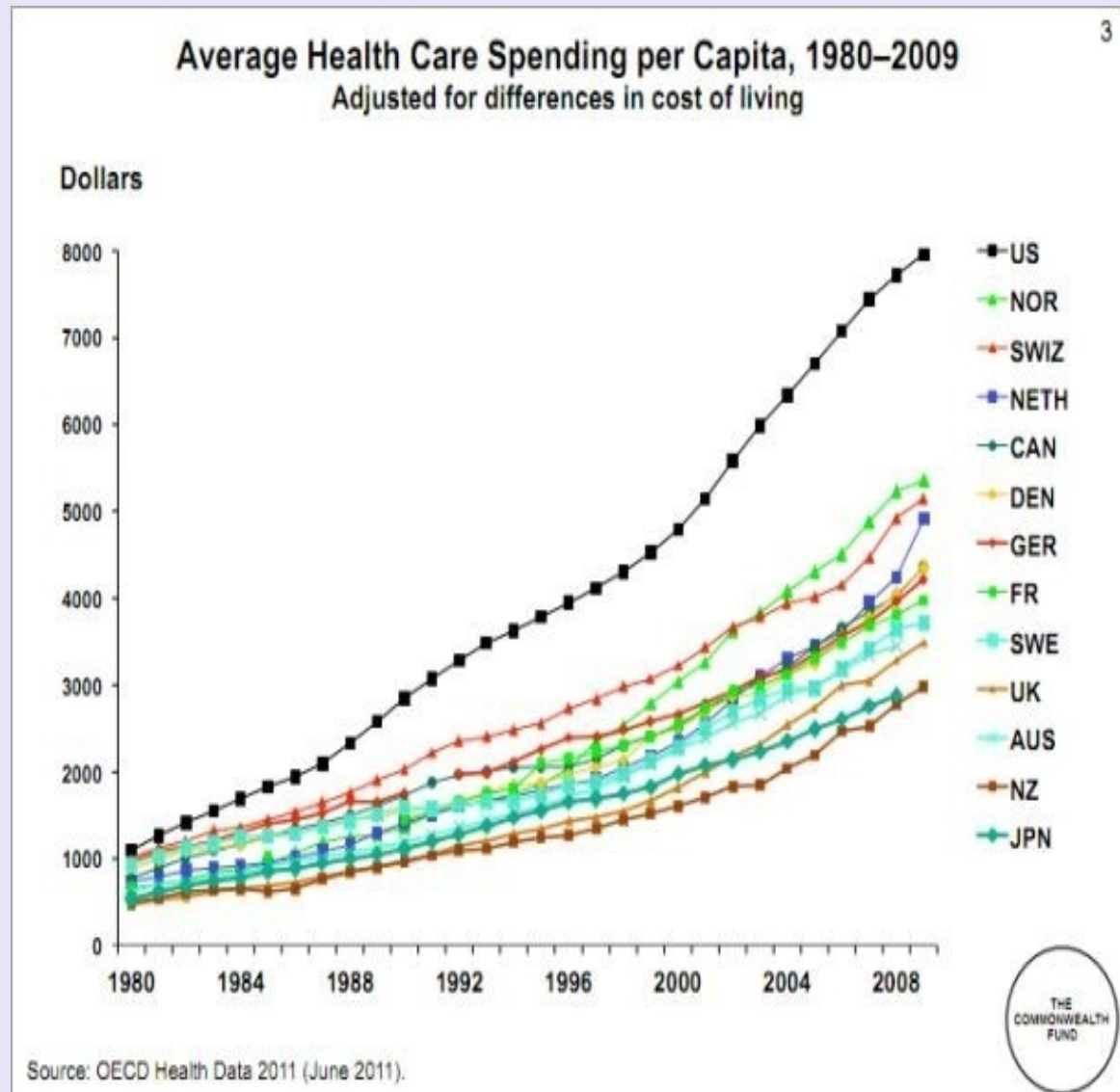
9th November 2012, Oulu, Finland

Numbers and trends

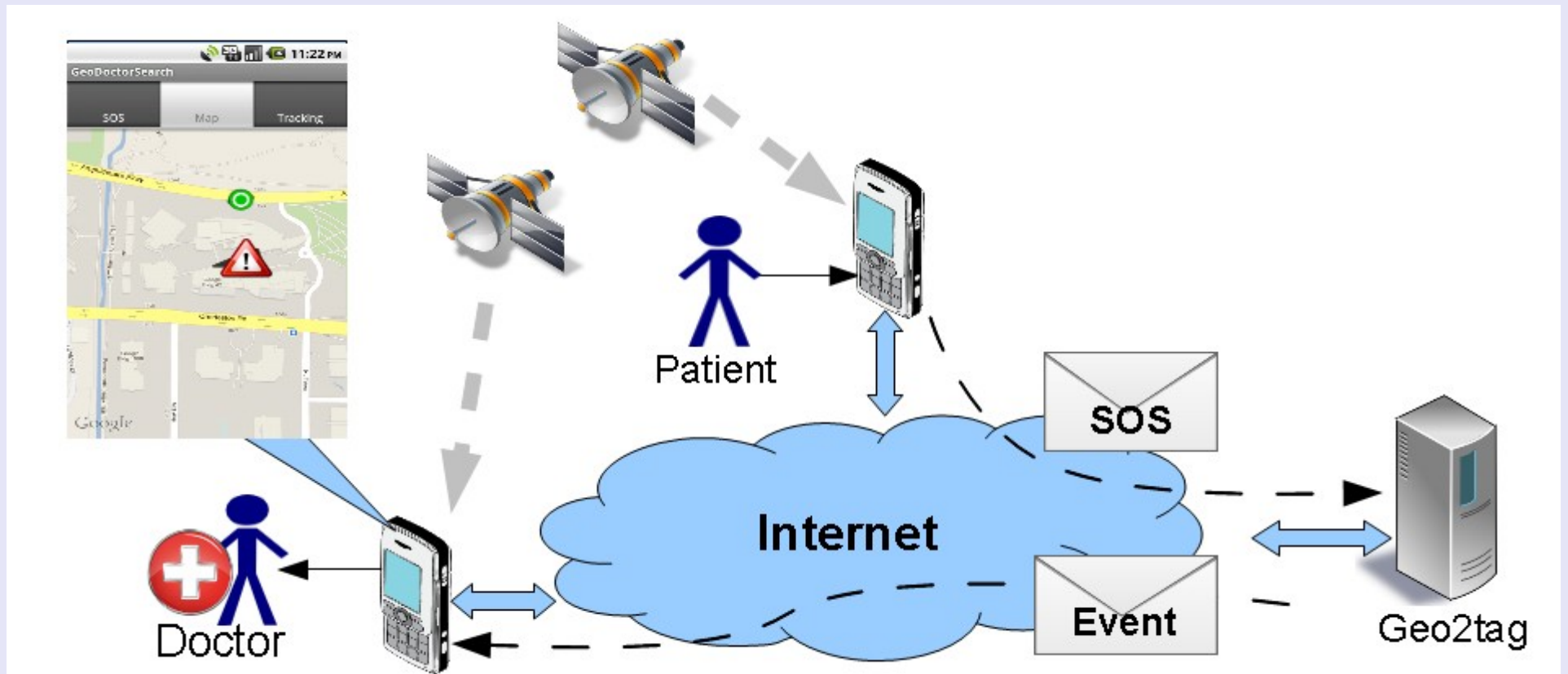
In 2011:

- Mobile subscribers -- 5,981 millions
- Mobile internet users -- 1,186 millions
- Shipments (handsets) – 1,775 millions
- Shipments (smartphones) -- 491 millions

(Forecast for 2012 – 686 millions)



Main idea of Doctor search



Users

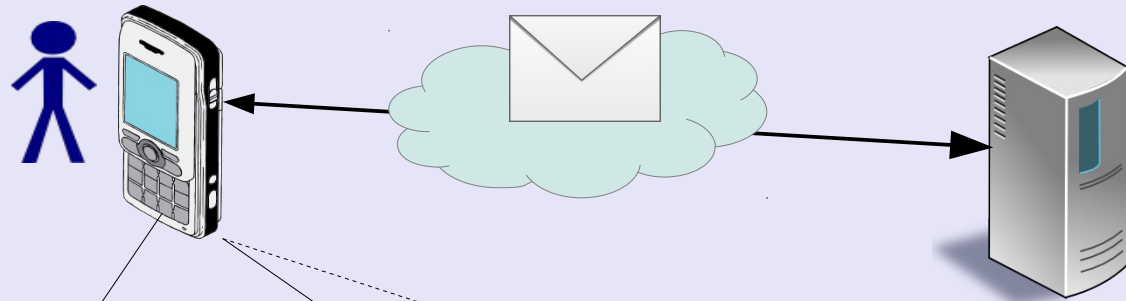
- Patients
 - People from risk group (monitored patients)
 - Everyone
- Doctors
 - Professionals
- Insurance companies

Use cases

- SOS button
- Patient tracking
- Events map displaying

- Auxiliary
 - Registration
 - Logging

Platforms



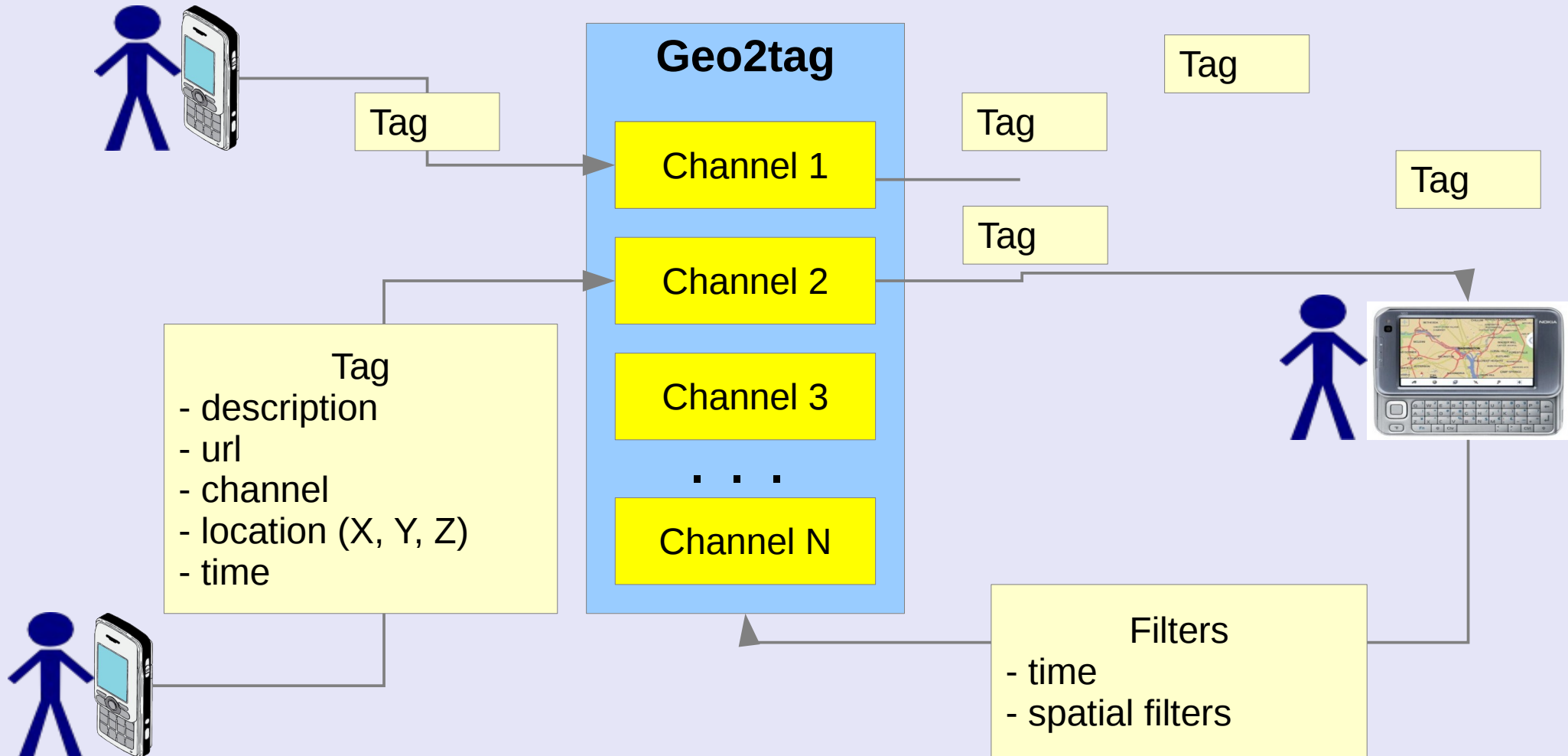
Geo2tag LBS



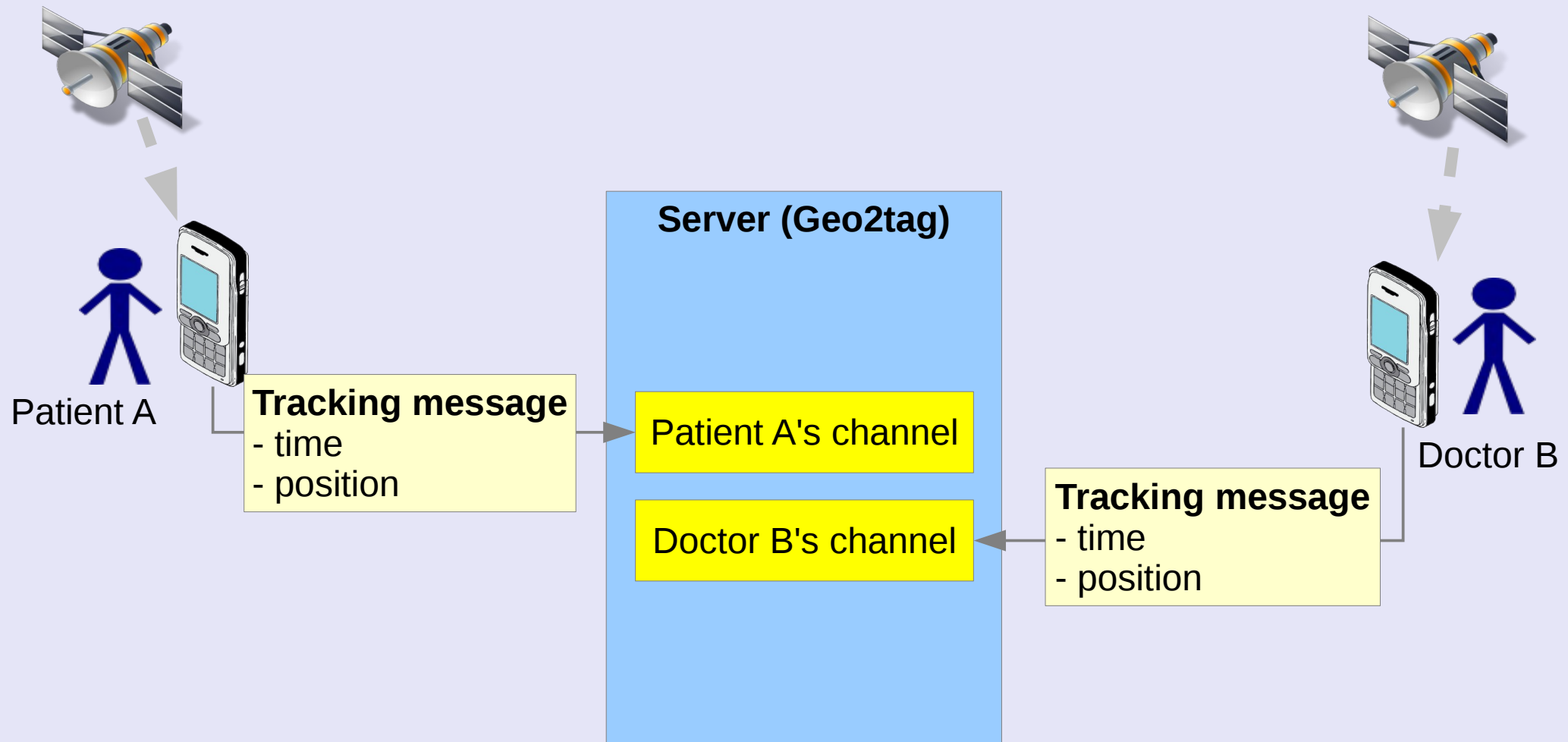
Low cost platforms

- Asha
- Other j2ME

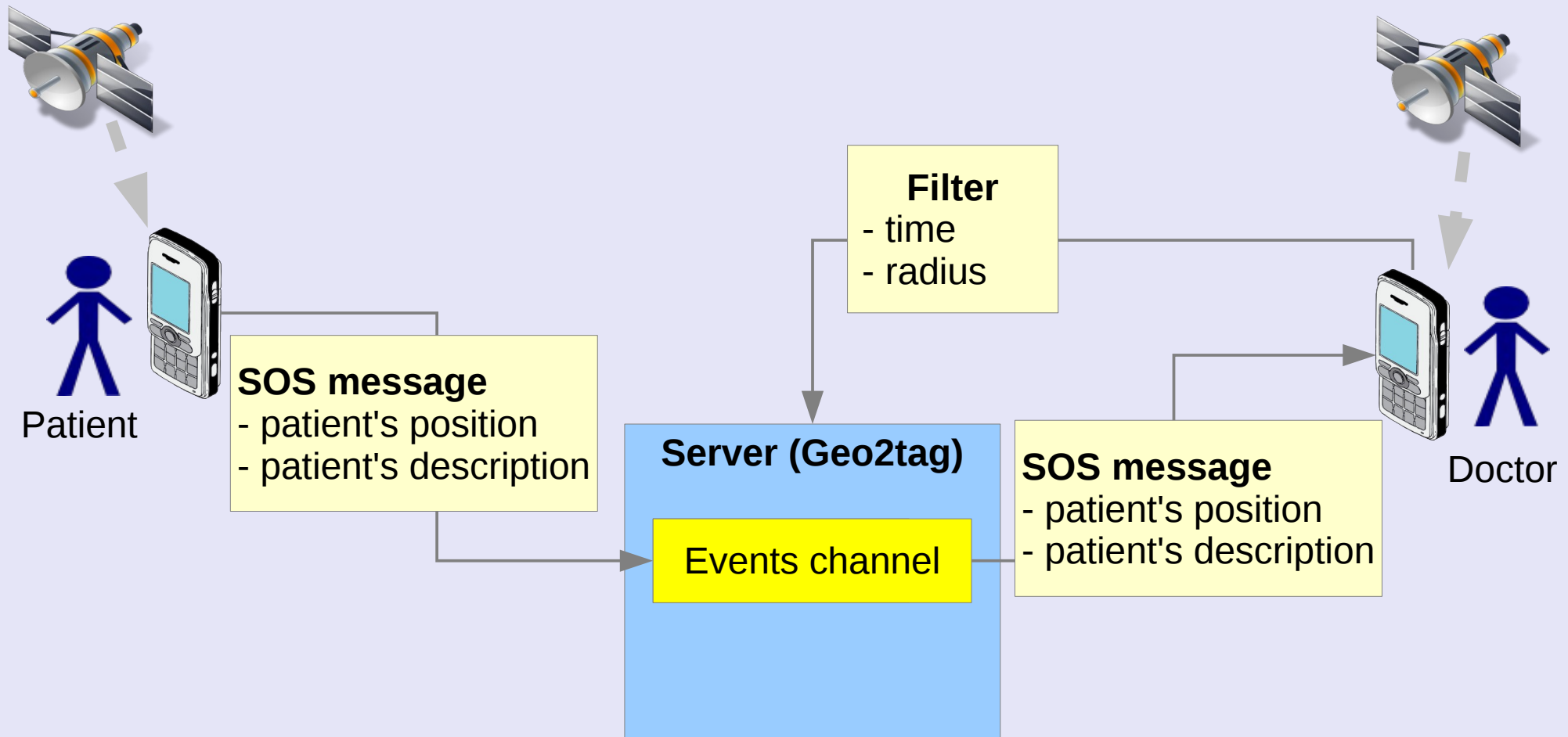
Geo2tag data model



Geo2tag: tracking implementation



Geo2tag: SOS and Event implementation



Logging in, registration, settings



GeoDoctorSearch

11:04 PM

Login

Ivan

Password

.....

Remember me

Sign in

Create account

Create a new account

11:10 PM

Login

Kirill

Password

.....

Re-enter password

.....

Register

q w e r t y u i o p

a s d f g h j k l

z x c v b n m DEL

?123 , _ . Done

GeoDoctorSearch settings

11:09 PM

Description:

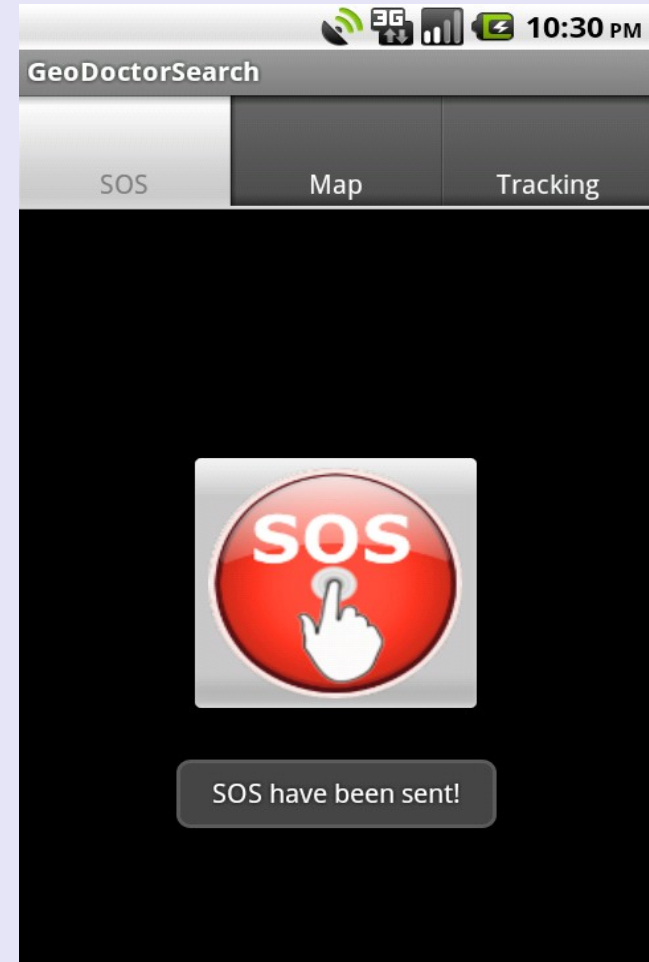
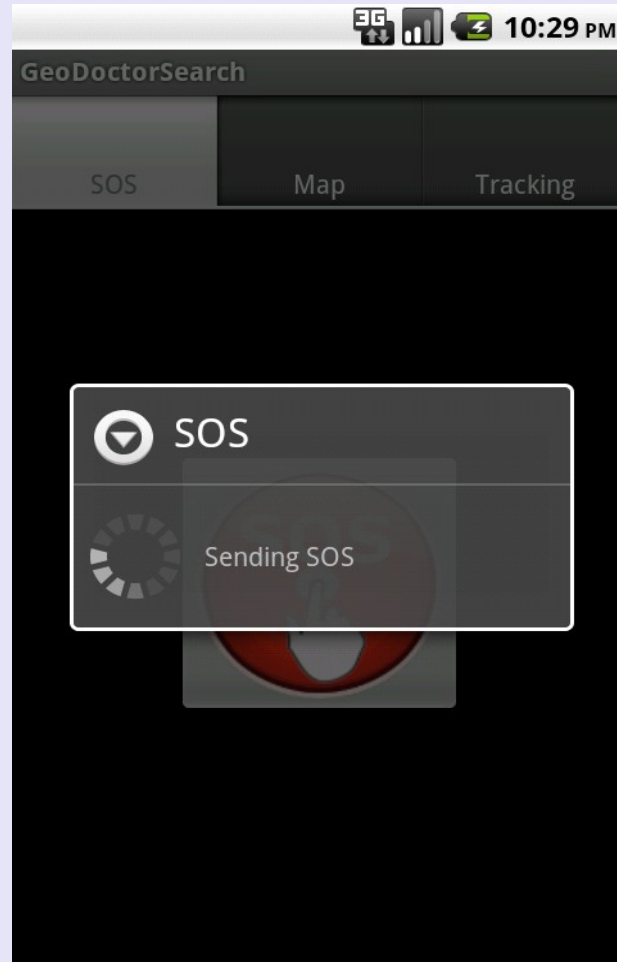
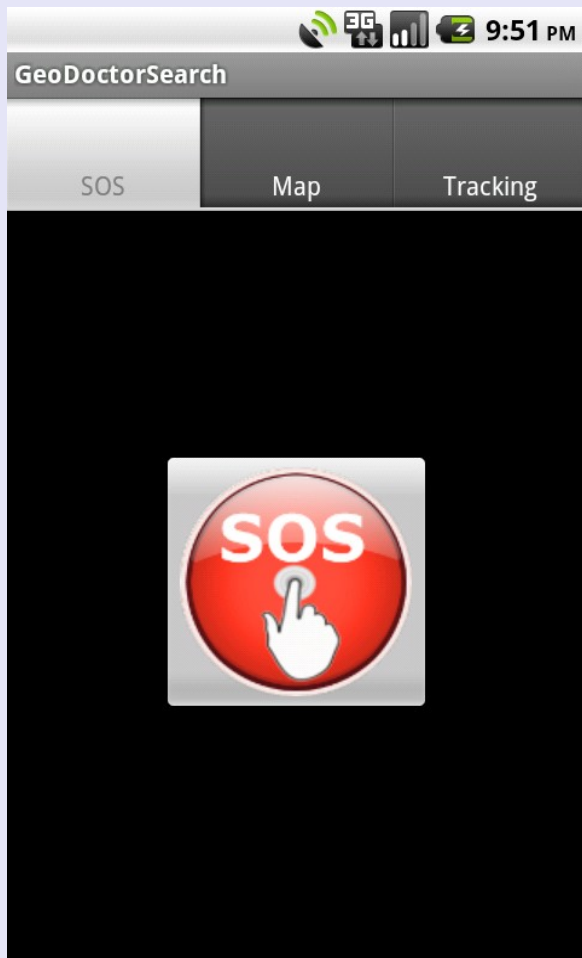
address: nevskiy
diagnosis: strange

Geo2Tag server

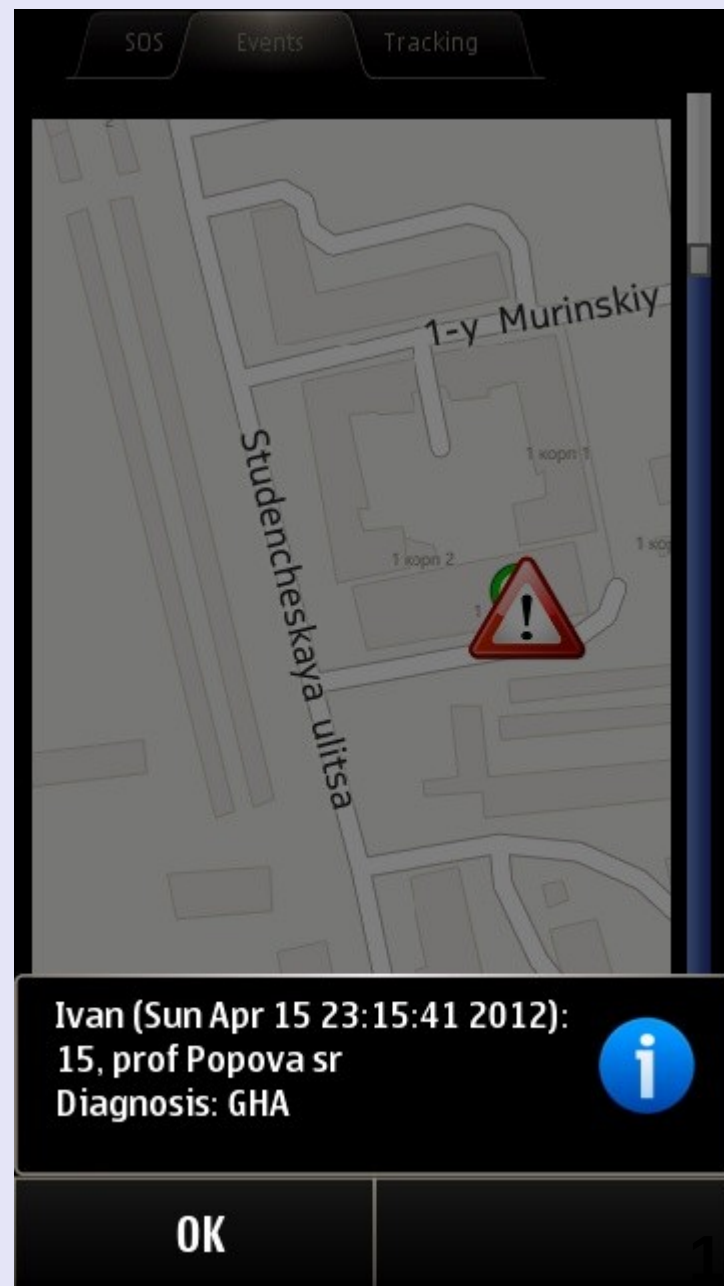
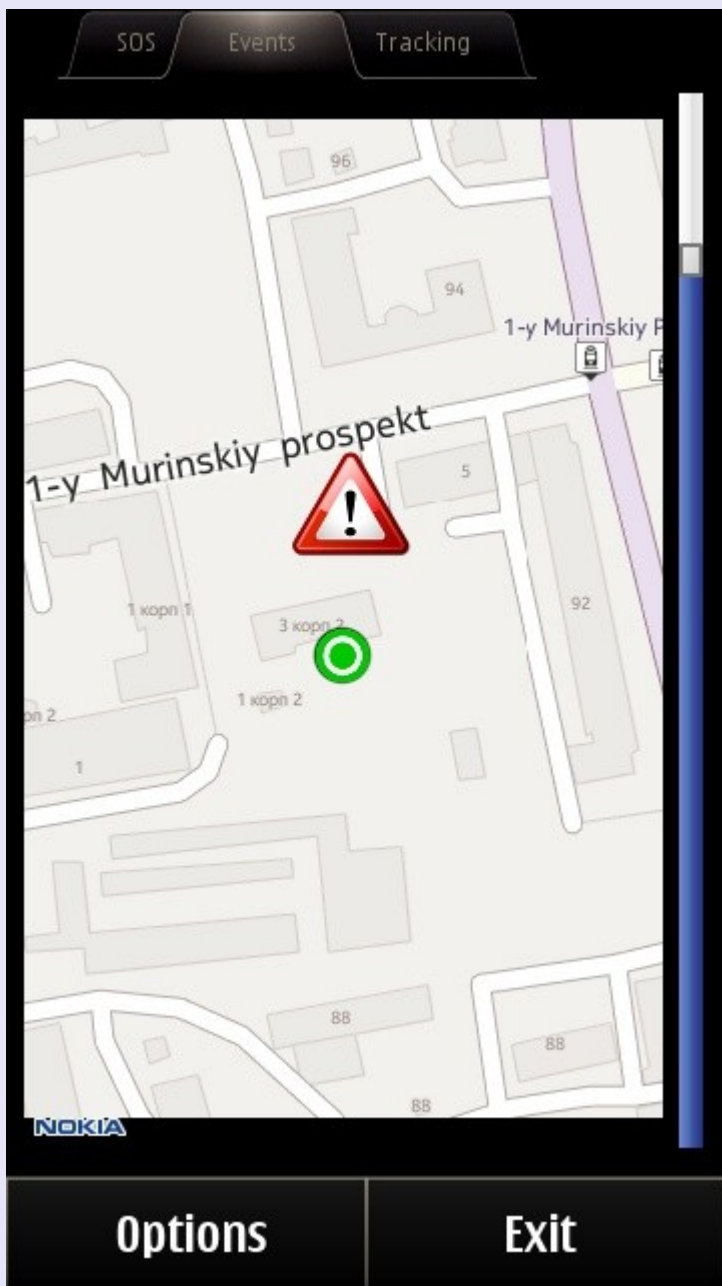
http://10.0.2.2

Cancel Ok

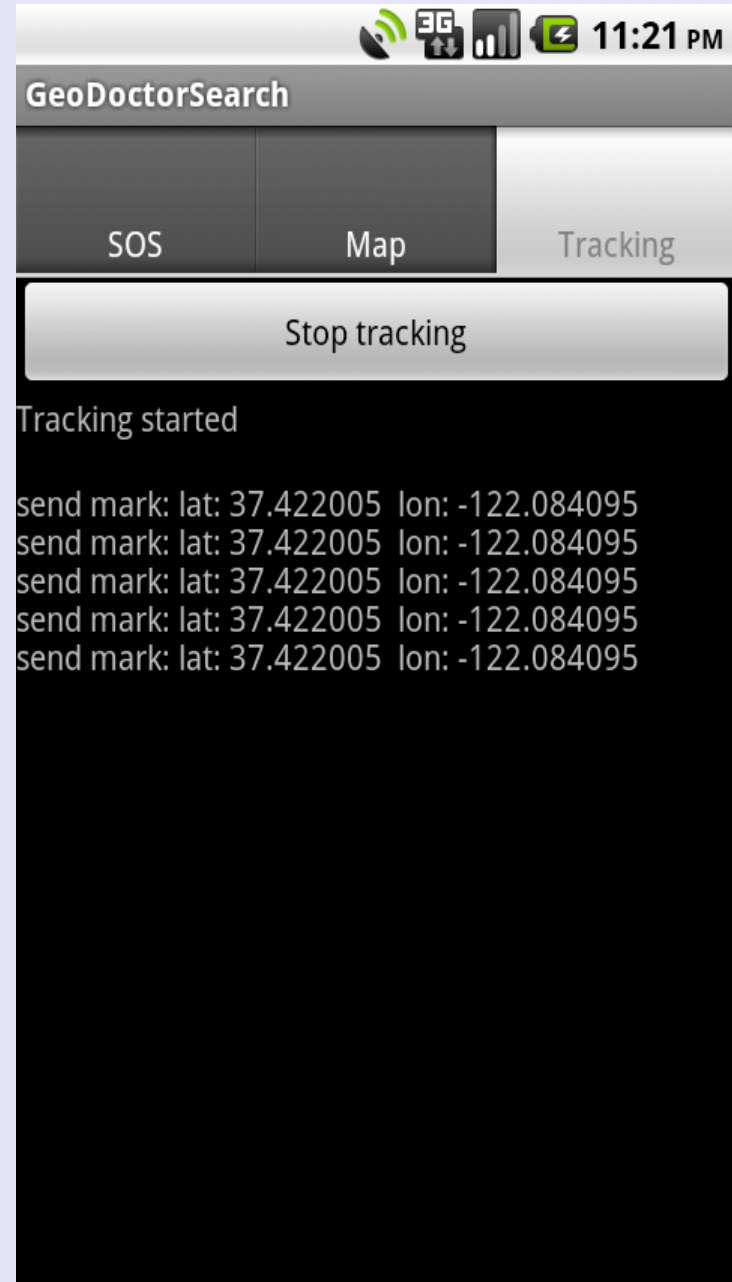
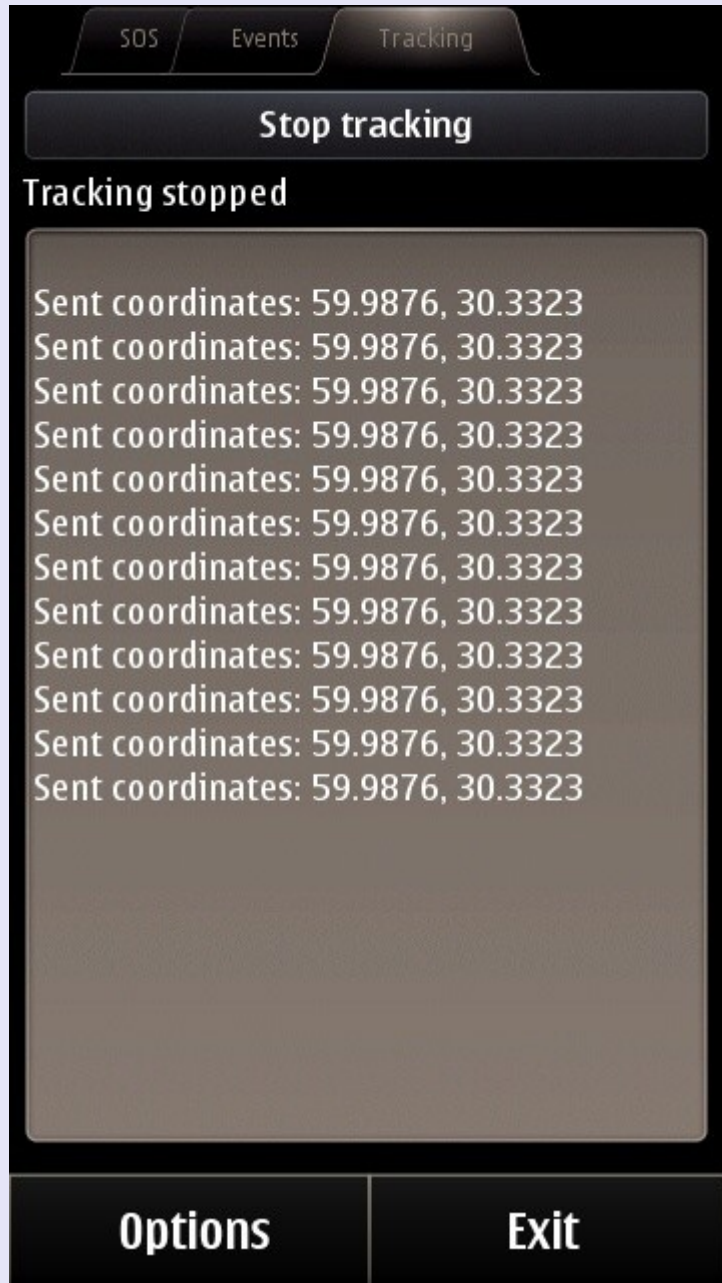
SOS sending



Events delivery



Tracking



LBS opportunities for mHealth

- Logistics (planning and analyzing Doctor/Patient activities)
- Support and coordination of ambulance cars
- Indoor services in hospitals

Thank you

kirill.krinkin@fruct.org