Real-time & Objective Explosion Monitor

e3e Monitor / PierX4

Explosions in 2015

1,236 Attacks in populated area

Civilians: 92% of total deaths/injuries
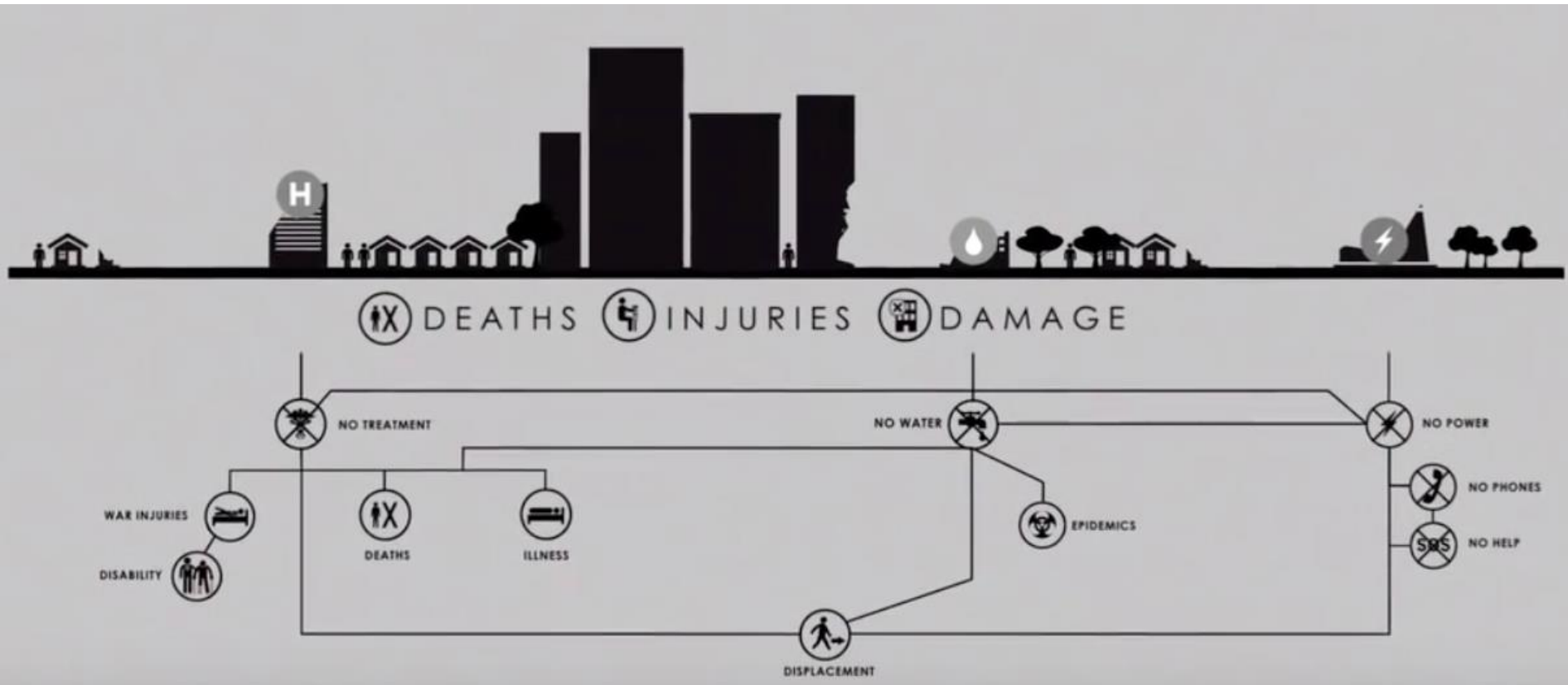
Explosions in Real life

Anatomy of Destruction

ICRC Youtube, https://www.youtube.com/watch?v=eqg52WgTkEc
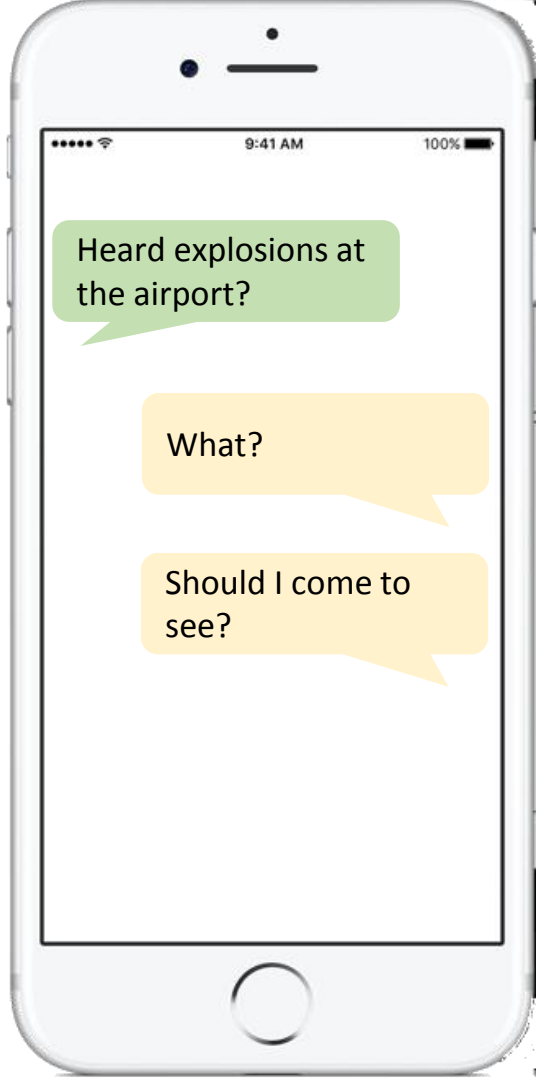
Narrative to Objective
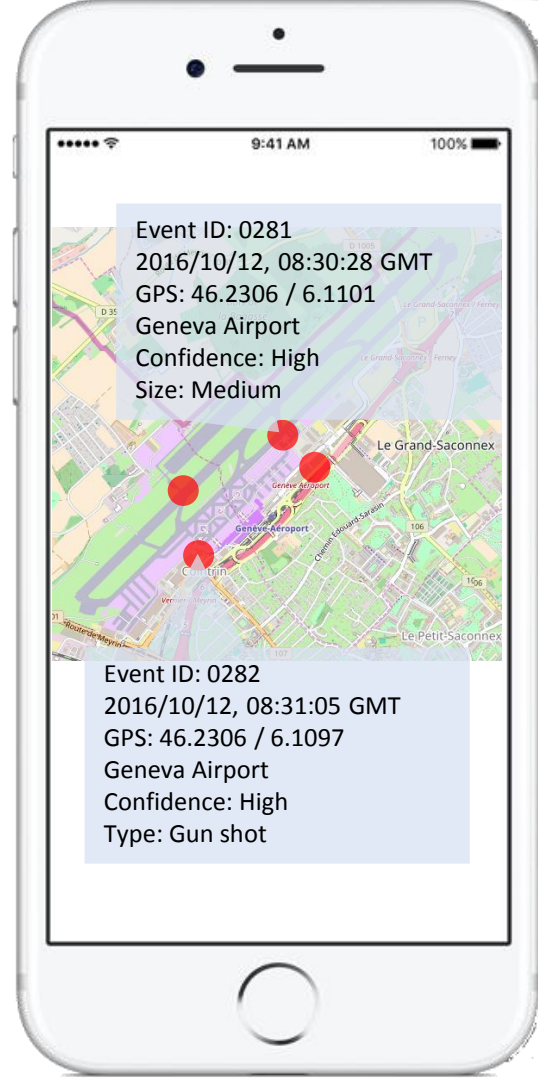
Event ID: 0281
2016/10/12, 08:30:28
Havra Hospital
Confidence: High
Size: Medium
Type: Bombing

Event ID: 0321
2016/11/12, 14:11:21
Police Station
Confidence : Medium
Size: Low
Type: Gun shot

e3e Monitor Scheme

Multi Sensor Device

- Modular
- Cheap
- Flexible chassis

Detection

- Sound profile
- Time
- Position
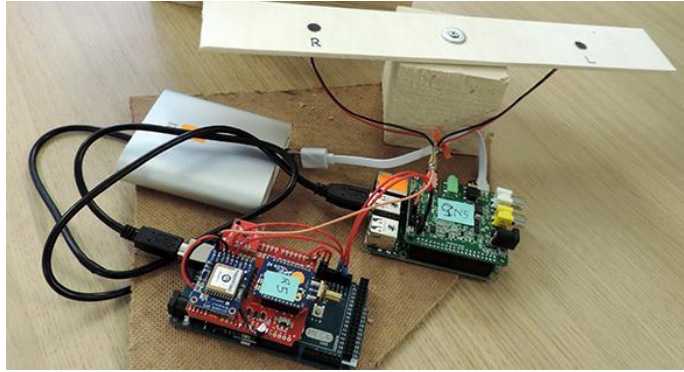- Multi devices

Data transfer & analysis

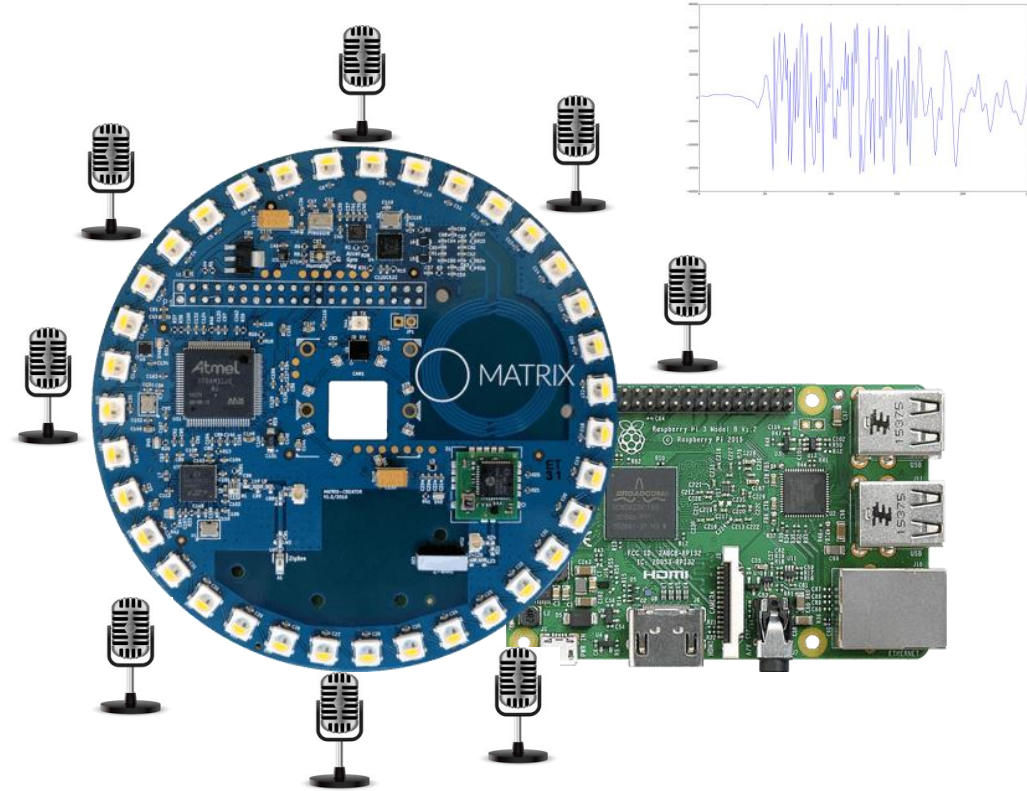- WiFi, GSM,…
- Matching with reference data

End users

- Interactive map
- Layered structure
- Access certification

Hardware improvement
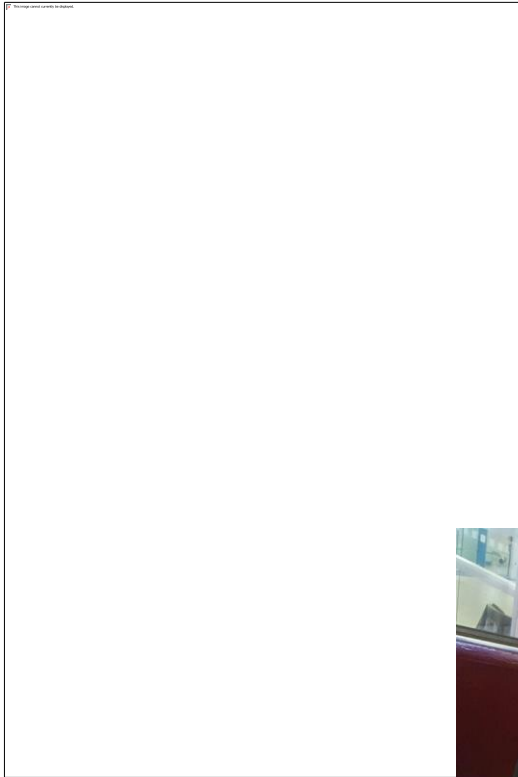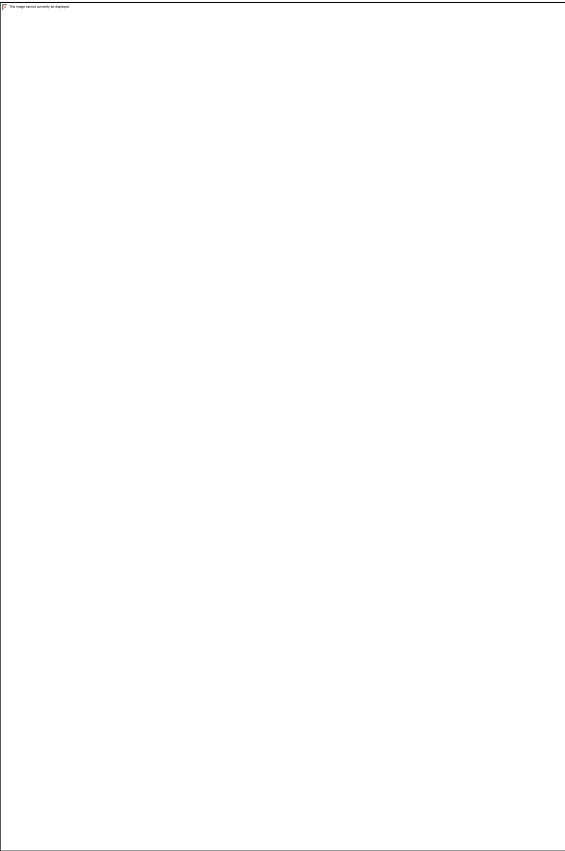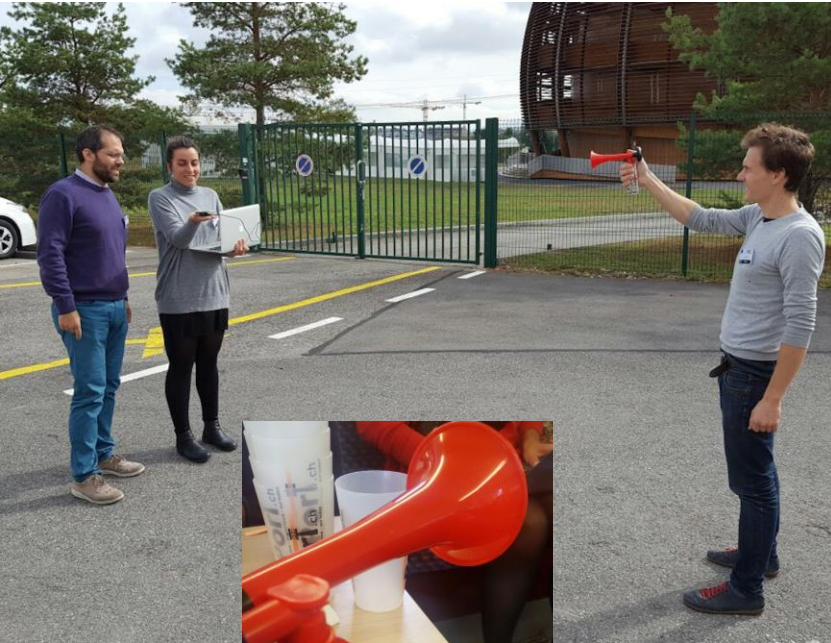

2 microphones
total cost ~ 160 $

8 microphones
total cost ~ 180 $

We coded…

We tested…

And it didn't work

So we coded and we tested again…
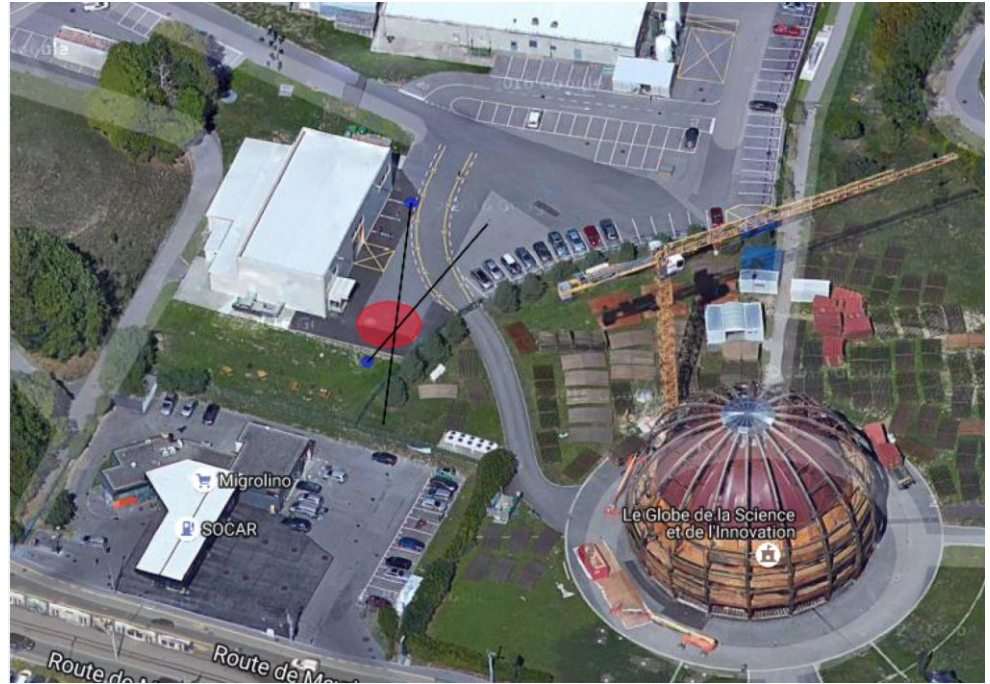
And that's what we got...

Reconstruction

Visualization

Mass installation
Partnering with
- GOs / NGOs
- Reporting Agencies
- Airports
- Hospitals

...

Kit distribution
- Civilian involvement
- Smart city

Data provision
- Trigger of social media search
- Fingerprint of event
- Source of prediction model

In near future,
e3e Monitor technology and networks
should become part of
the **ESSENTIAL INFRASTRUCTURE**
of any urban environment.

Team

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