



Tomoko Muranaka
BE-RF

from Idea to Project

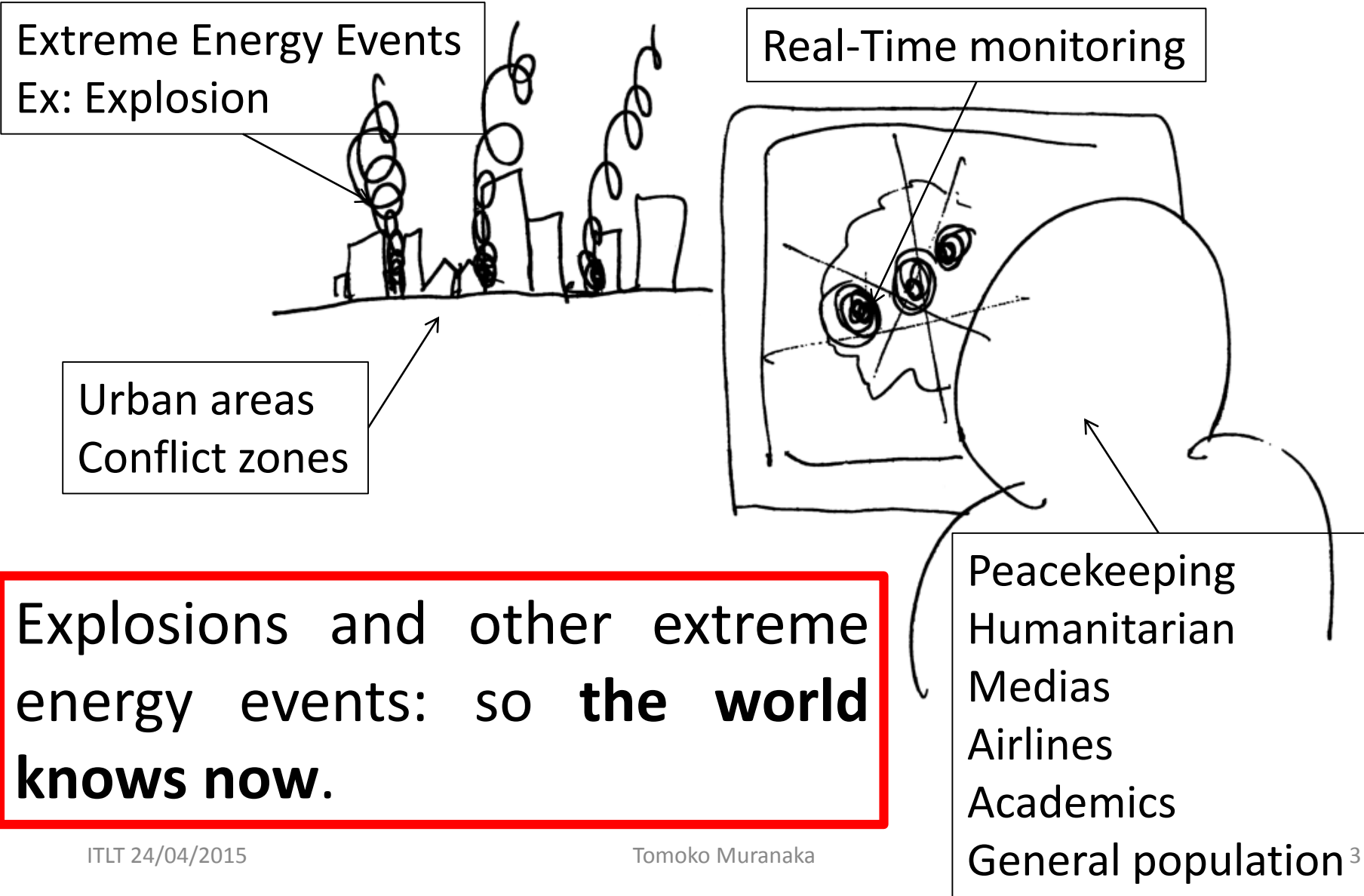
CERN
Technologies

Humanitarian
Activities

E³

Plenty of space for
YOUR ideas!

What is E3 monitoring?



Why E3?

- Provide the means to monitor extreme energy events on a **real time, objective** and **on-line** basis.
 - From narrative to objective with scientific hard evidences.
 - Provide open data.
 - Prevent excesses of violence.

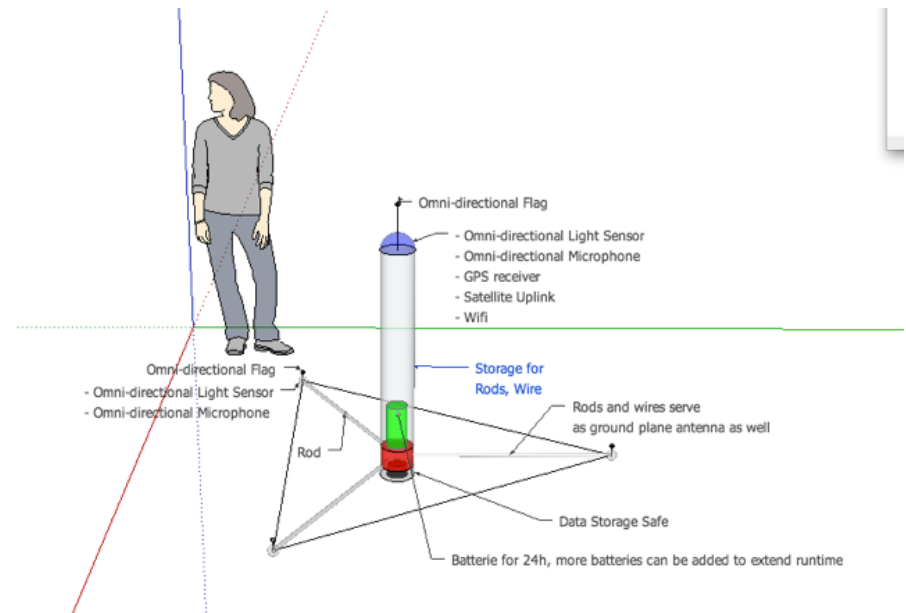
How? - Ideas & Challenges

- **Hardware design:**

- Multi-channel tube / tetrahedron
- Single-channel wall-fitting half-sphere/turtle
- ...

- **Detectors:**

- Sound
- Ground Vibration
- Light
- Air Movement
- EM Waves
- Echography
- Environmental monitoring before/after events

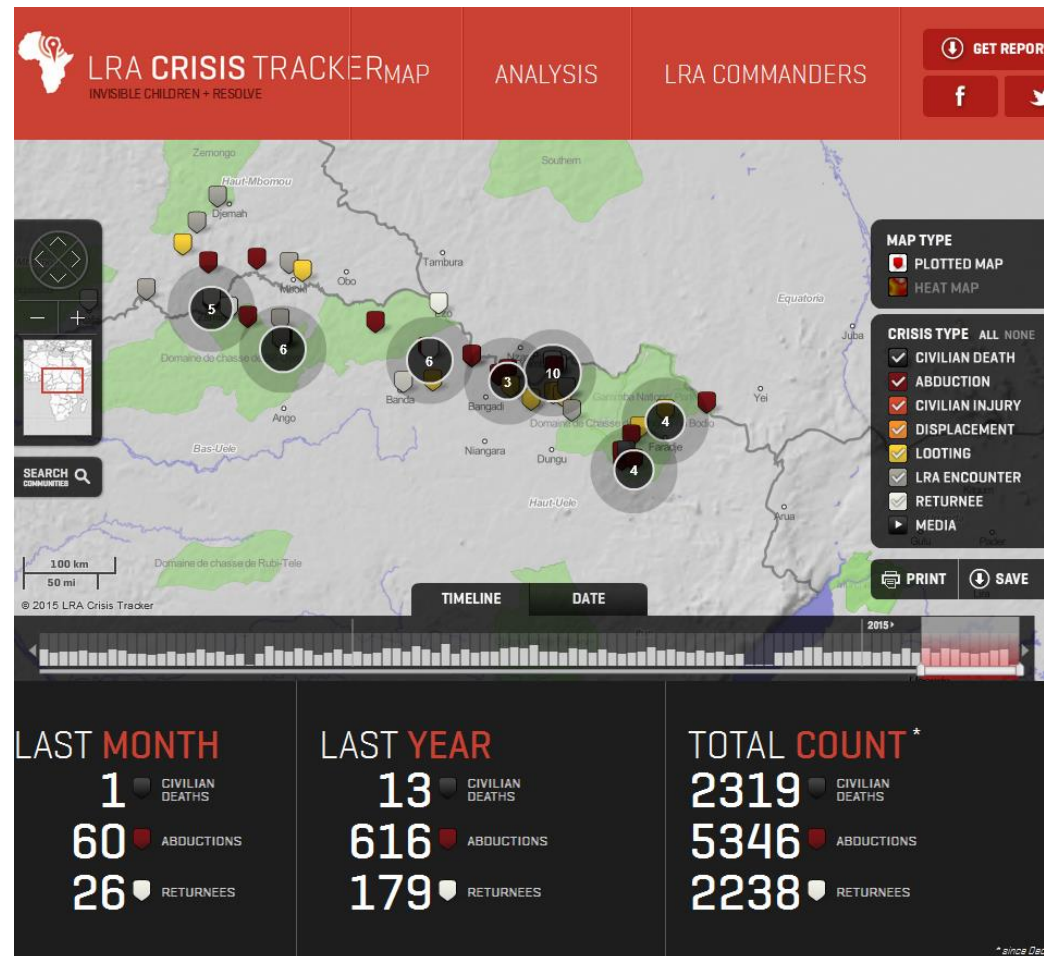


courtesy of D. Dobos

How? - Ideas & Challenges

- **Data handling:**
 - Safe data storage
 - Big data transmission
- Geographical / electronic infrastructure
- ...
- Final product

<http://lracrisistracker.com/>



Where we are

Members & Advisers

- Daniel Dobos (PH)
- Oliver Keller (Media Lab)
- Tomoko Muranaka (BE)
- Robin Coupland (former ICRC)
- Specialists of:
 - Geographical infrastructure
 - Field data transmission
 - Electronics development
 - Explosive
 - Satellite

Agenda

- Summer student
- CERN SS Webfest: August
- THE Port Hackathon: 2-4 October (www.theport.ch)

Project Proposal Submissions

- Advocate Europe **Done!**
(https://advocate-europe.eu/en/idea-space#!/r/mercator/E3_OpenandLiveExplosionEventMonitoring6214/VERSION_0000001/)
- REDINNOVATION **Done!**
(<http://redinnovation.org>)