
People-to-people Communications in Emergency Scenarios

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<http://copelabs.ulusofona.pt>

Communication in Emergency Situations

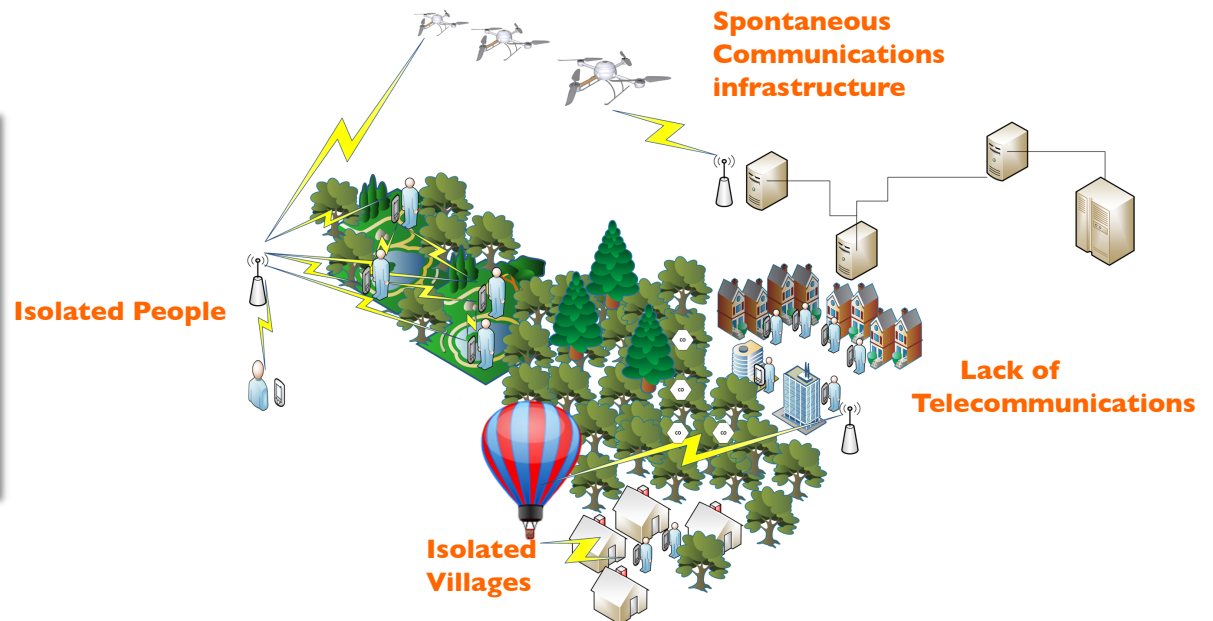
What happens and what do we need?

- **What Happens:**

- Telecommunications infrastructure damaged and/or destroyed.
- Population isolated in physically remote locations.

- **What we need:**

- Support for local communication.
- Support for communication without Internet access:
  - From **people** to **people**.
  - From citizens to authorities and vice-versa.



Communication in Emergency Situations

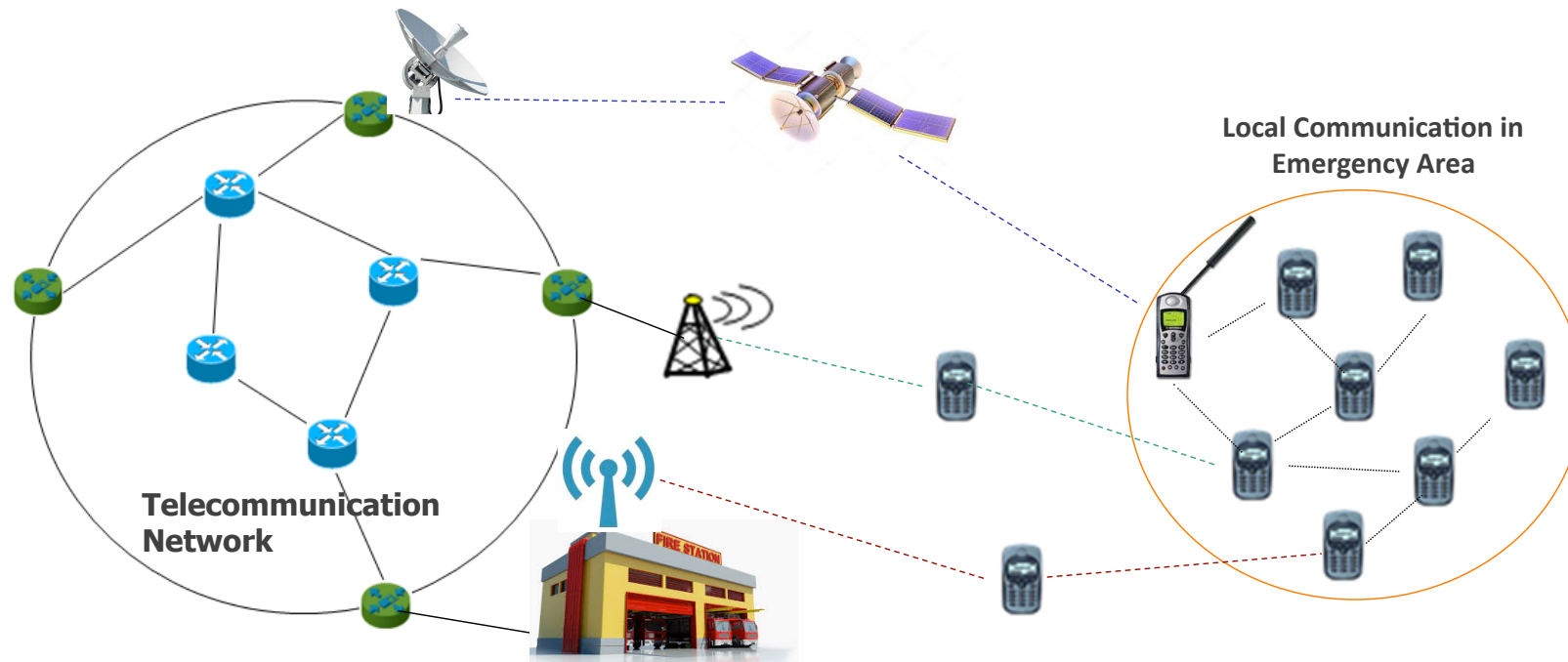
People-to-people Communications

What do we have today?

- Mobile devices with significant capabilities:
  - Storage.
  - Computing.
  - Communication (LTE, Wi-Fi, Wi-Fi Direct, Wi-Fi ad-hoc).

What do we need?

- Local data exchange by exploiting any communication opportunity.
- Agnostic of devices identity.
- Aware of devices capability.



Exploiting any long range communication capability

Communication in Emergency Situations

H2020 UMOBILE Project



Universal, mobile-centric and opportunistic communications architecture

Moto

Make the Future Internet universally pervasive supporting a diverse set of services

Enabling universal Internet access is one of the key issues
addressed in the Digital Agenda for Europe (DAE)



<http://umobile-project.eu>



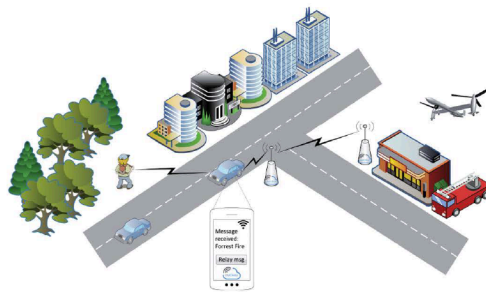
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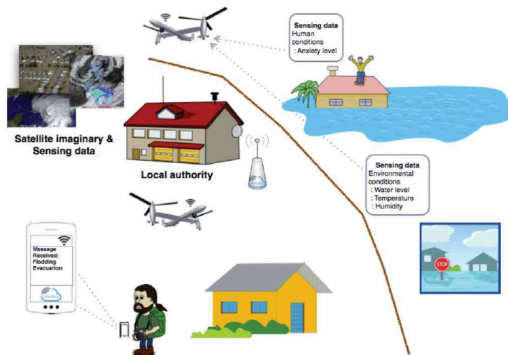
H2020 UMOBILE Project



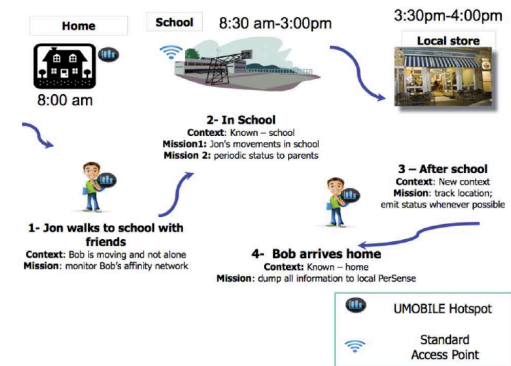
Universal, mobile-centric and opportunistic communications architecture



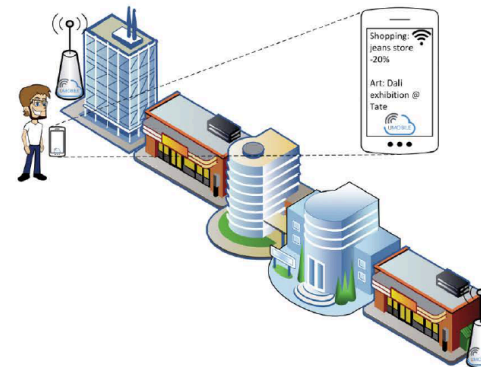
Emergency message dissemination



Civil Protection



Social routine improvement



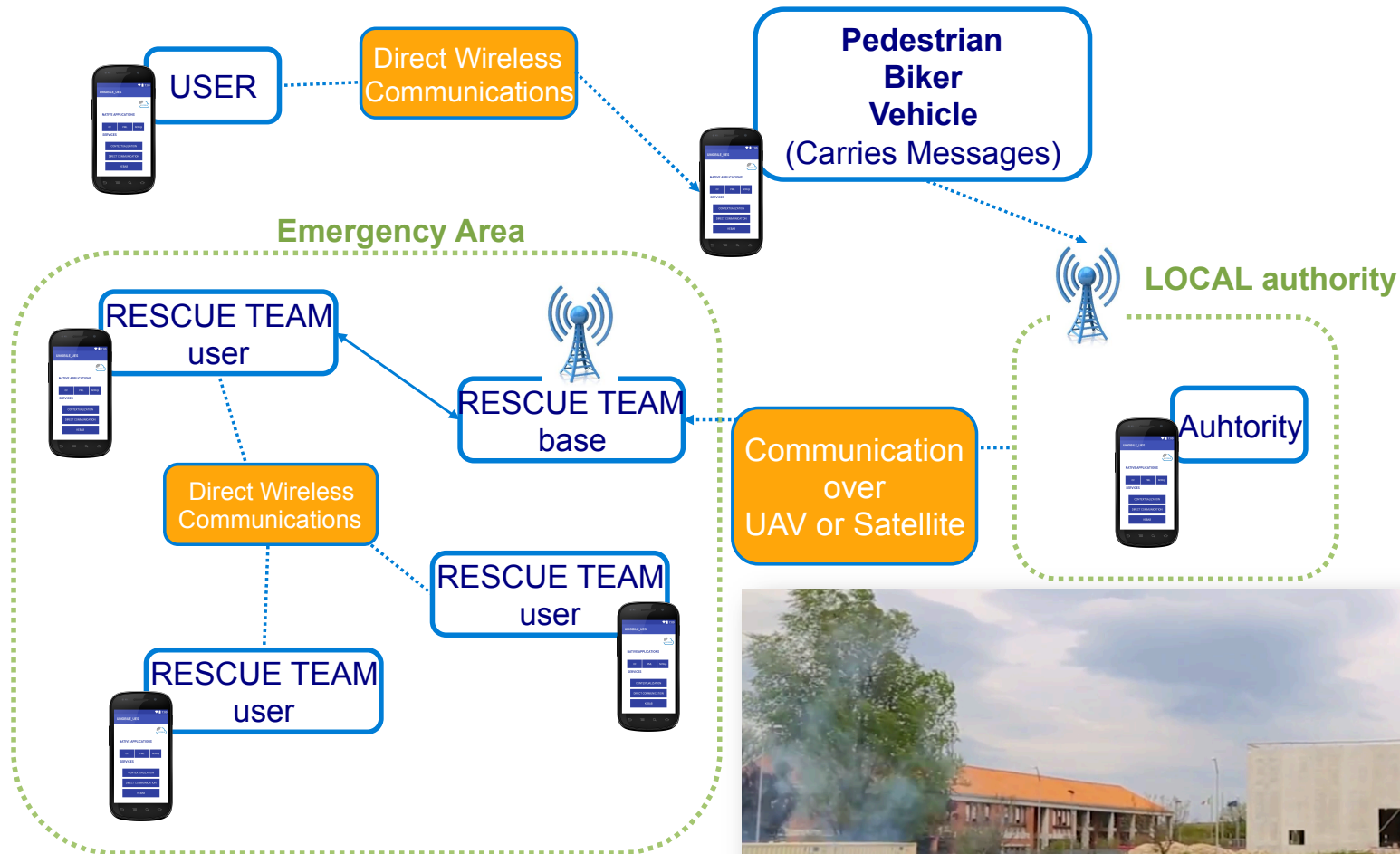
Micro-blogging

cope labs
Cognitive and People-centric Computing



UMOBILE

Solution for Emergency Situations: Demonstration



UMOBILE Solution Applications



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Cognitive and People-centric Computing



