



UMOBILE Project, Expo Emergenze 2016

June 3-5, 2016

Bastia Umbra (PG), Italy



Objectives of the Project

Improve Internet pervasive access by:

- Moving from the traditional host-centric access paradigm to a data-centric model
- Creating a communication model robust to intermittent connectivity

HOW?



Objectives of the Project

Combine two emerging networking paradigms:

- Information Centric Networking (ICN)
- Delay Tolerant Networking (DTN)

Integrate:

- Social trust computation
- Cooperative incentive modeling
- Individual and collective behaviour inference



Innovative aspects

Information-centric communications

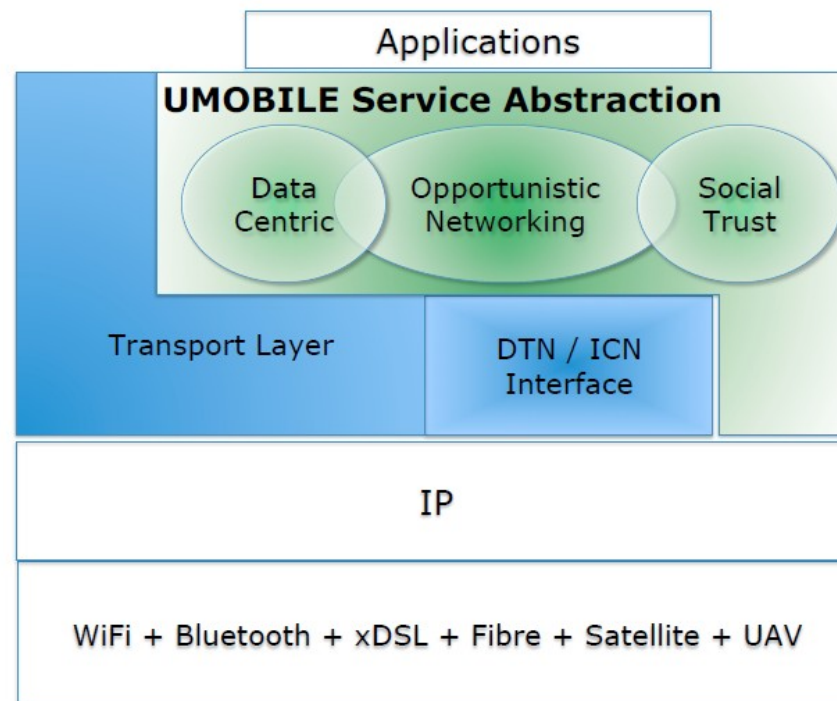
- Communications based on data interests expressed passively or actively by the user
- Uniform abstraction: simple API to request, capture, and make data available
- Pervasive caching policies

Intermittent connectivity support

- Flexible and resilient hybrid network that can work in both connected and disconnected environments
- A fine-grained quality-of-service abstraction for all applications, based on dynamic resource allocation

Trust-based networking

- Ensure adequate levels of motivation to engage in pervasive data sharing
- Aware of human behaviour



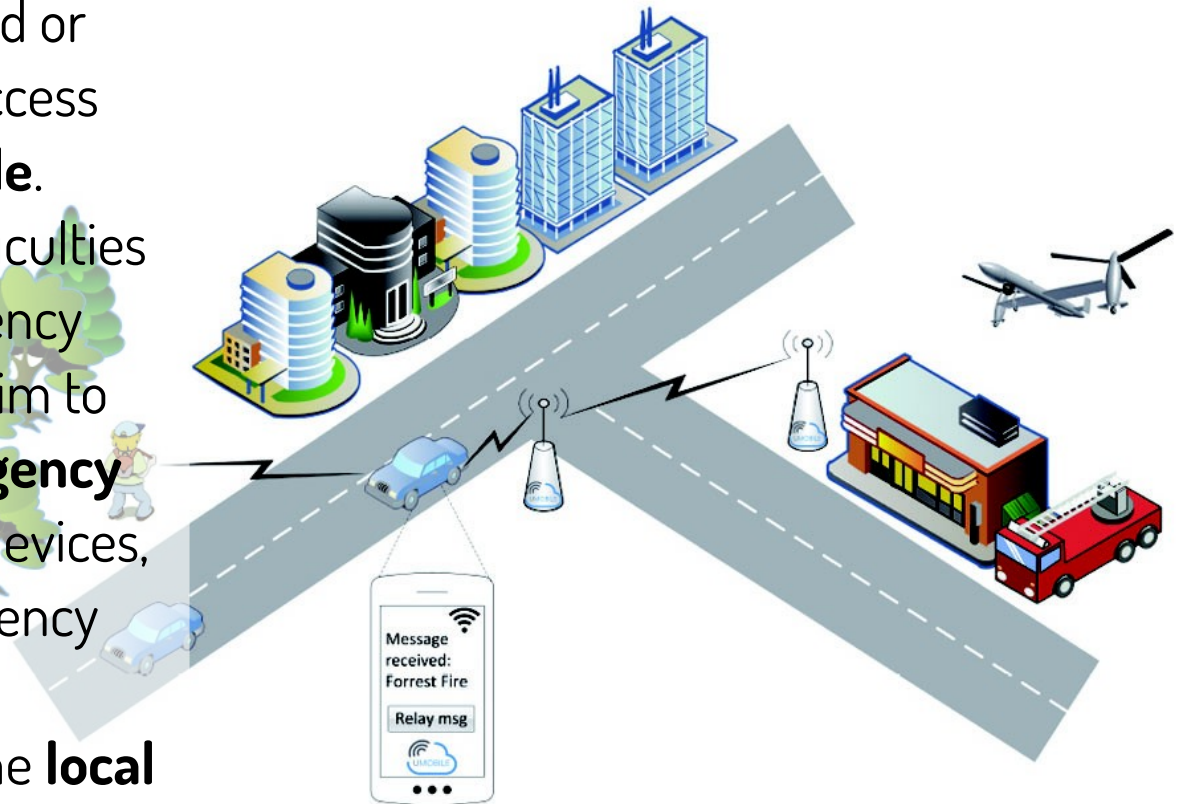


Applicability cases

Emergency Situation

In emergency situations, traditional communication services such as fixed or mobile network and local Internet access are **completely/partially inoperable**.

People involved may experience difficulties in receiving and dealing with emergency information. The UMOBILE systems aim to assist users in **disseminating emergency information directly** via end-user devices, UMOBILE hotspots and UAVs. Emergency information can be shared among **UMOBILE users** and forwarded to the **local authorities** (e.g., fireman, rescue teams).





CERCHIAMO AMMINISTRAZIONI !

UMOBILE Consortium sta esaminando collaborazioni con Pubbliche Amministrazioni italiane per l'attuazione di progetti pilota dimostrativi, senza costi per l'Ente.

Segnala la tua disponibilità al desk.

GRAZIE