

UNIVERSAL, MOBILE-CENTRIC AND OPPORTUNISTIC COMMUNICATIONS ARCHITECTURE









tecnalia Inspiring Business

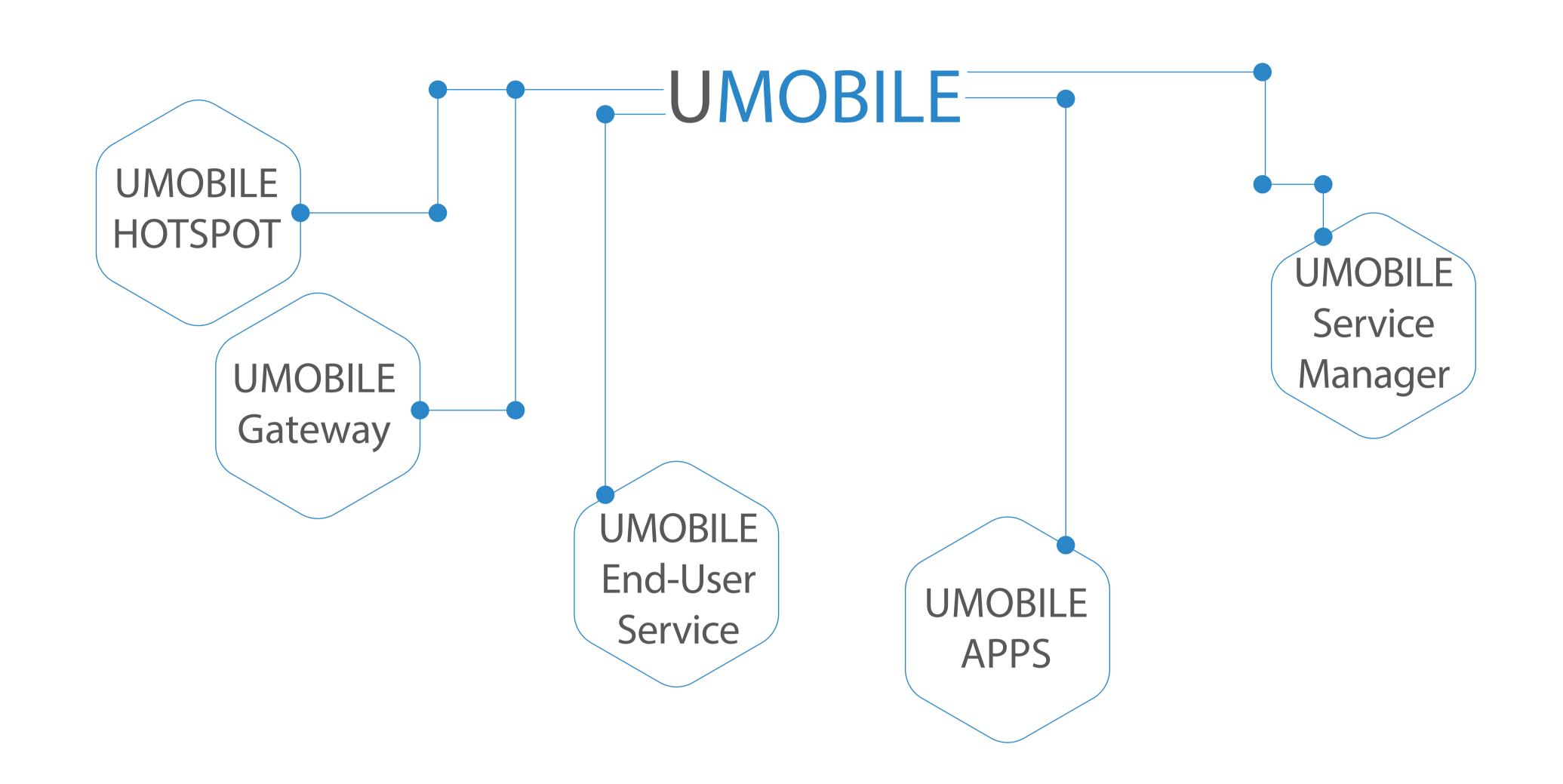








The main goal of the UMOBILE project is to develop a mobile-centric service oriented architecture that efficiently delivers content to end-users, by decoupling services from their origin locations and shifting the host-centric paradigm to a new one that incorporates aspects from both information-centric and opportunistic networking. For this purpose, UMOBILE combines two emerging architecture and connectivity approaches, Information Centric Networking (ICN) and Delay Tolerant Networking (DTN), into one single abstraction.



The UMOBILE modules

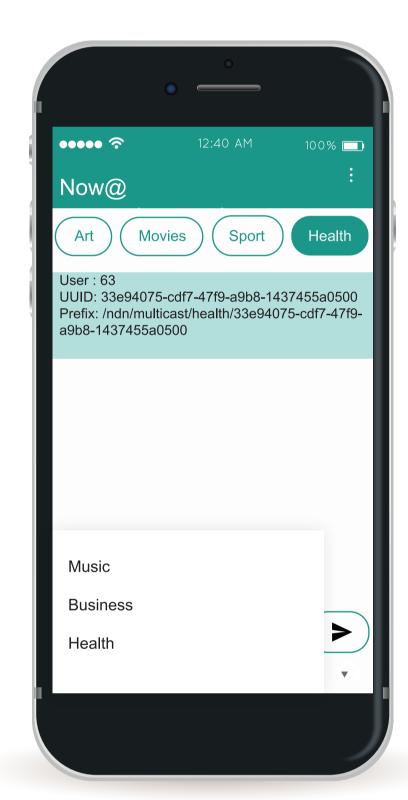
UMOBILE APPS



Oi!: allows users to e x c h a n g e messages based on their level of social interaction, without relying on the existing Internet access or w i r e l e s s infrastructures



Per Sense
Mobile Light: is a
tool that assists
researchers in
collecting wireless
roaming data in an
easy and seamless
way.

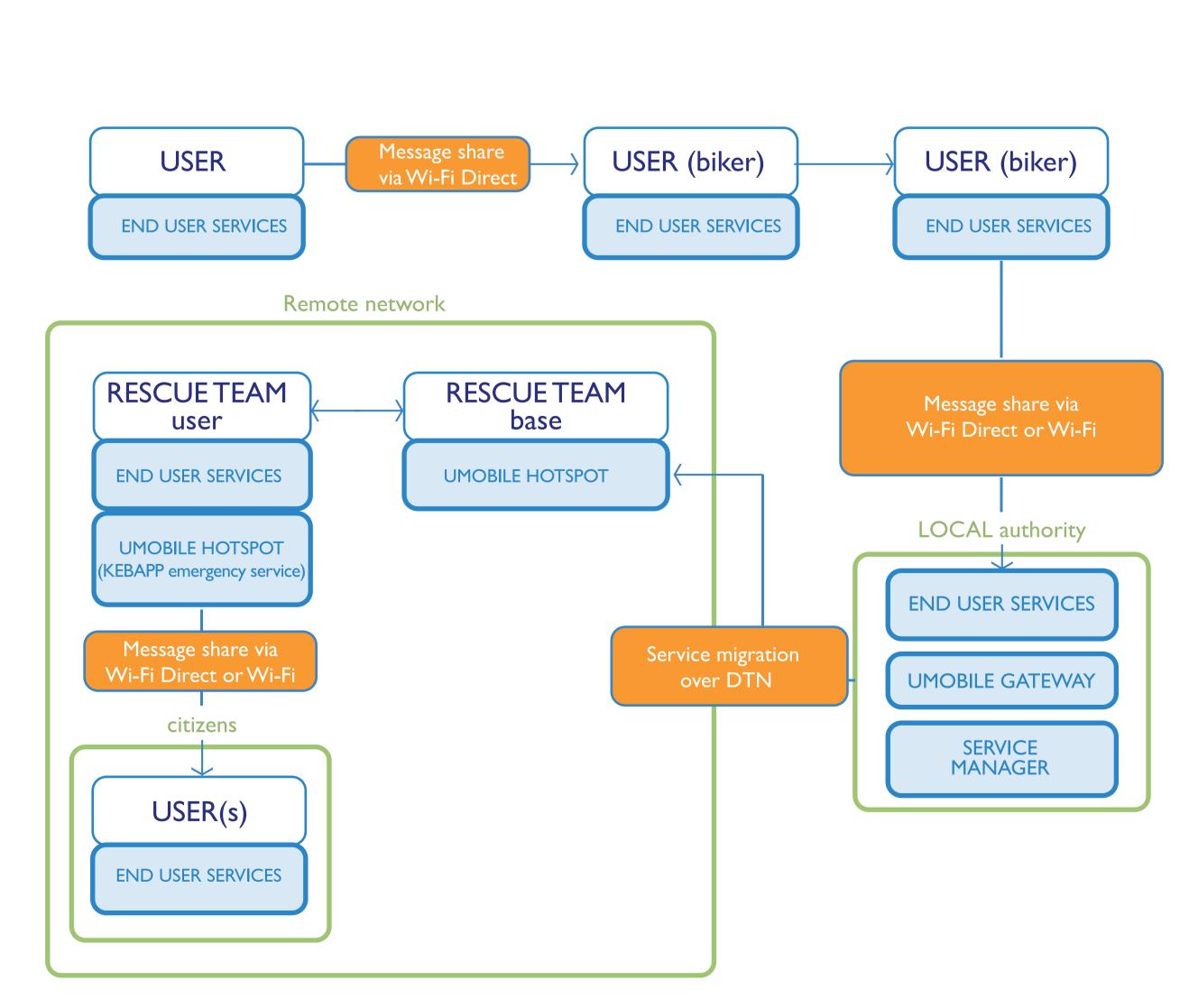


Now@: is an opportunistic data sharing tool. It relies on the user's interests in sharing data across N a m e d - d a t a Networking (NDN) environment.

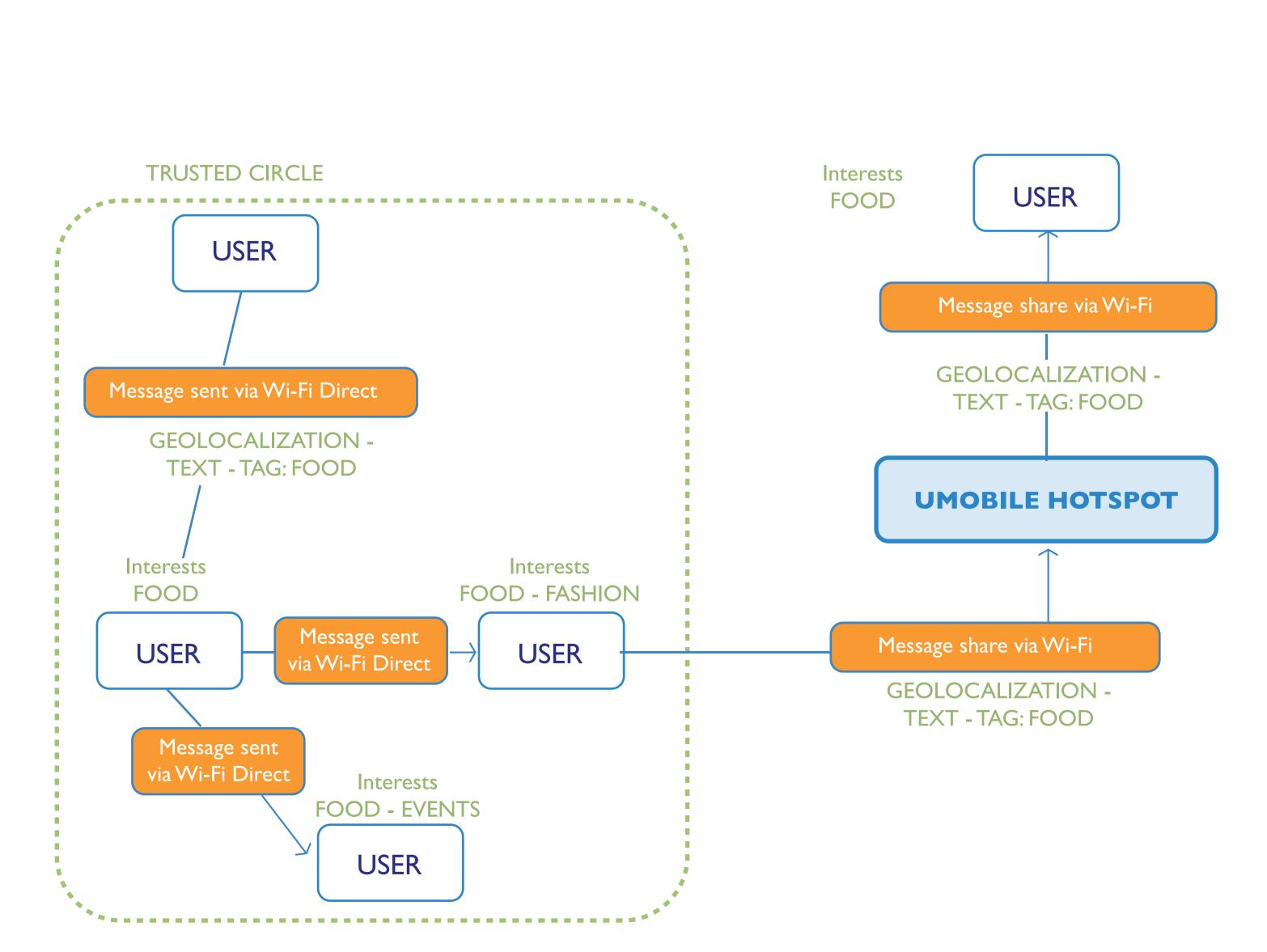


emergency app: is an application sharing framework that enables the discovery of locally a v a i l a b l e application data, without the need to contact a centralized service.

UMOBILE ARCHITECTURE



High-level flowchart of the Emergency and Civil Protection scenario



High-level flowchart of the Service Announcement and Social-Routine scenario

