Expected Impacts

Cloud Providers

- Improve the competitive position of the European cloud sector.
- Extension of portfolio of product and services offered.
- Professional services to be offered on the extended scenario.

European Businesses

- Availability of advanced tools and platform for Governments to improve living conditions in cities and towns and generate business opportunities.
- Increased competitiveness for SMEs in business market, and emergence of innovative businesses.

Technology Providers

- Increased request of IoT and fog devices, with boost in revenues.
- Request for next generation improved devices, R&D opportunities.

Service Providers

- Availability of platforms to integrate IoT and Cloud and develop added value solutions and services on top.

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mF2C

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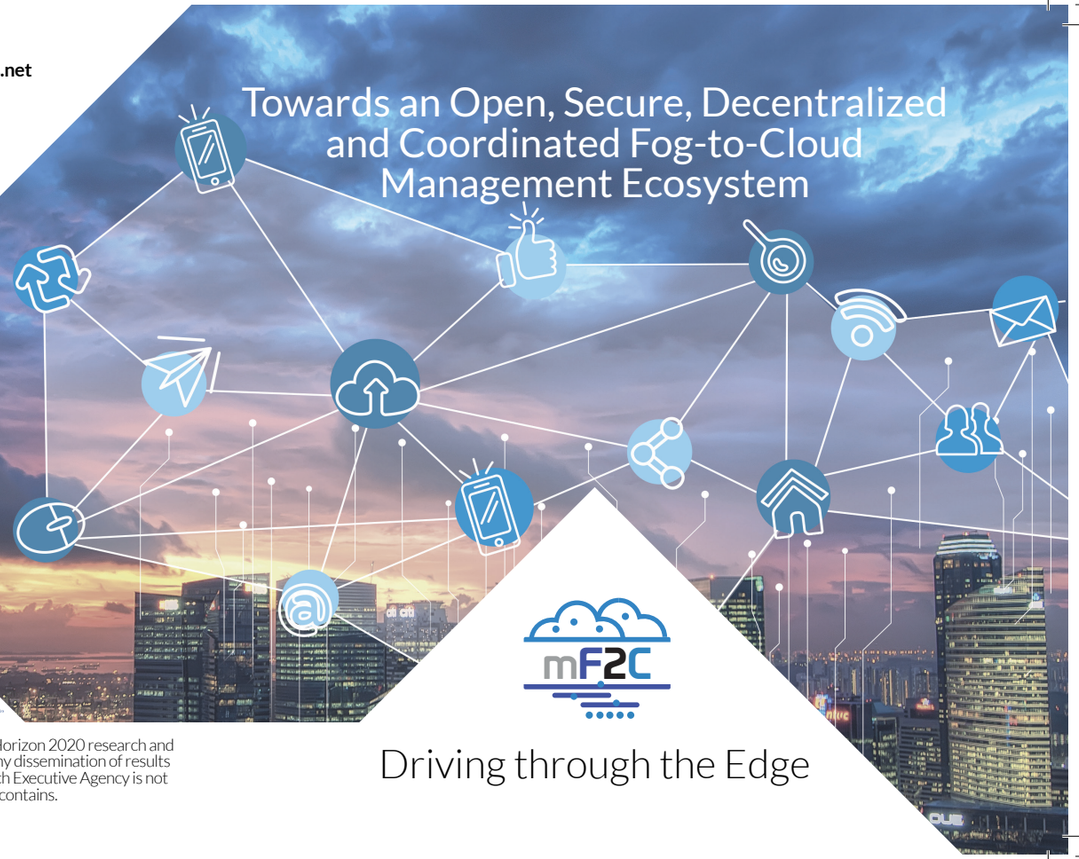

Towards an Open, Secure, Decentralized and Coordinated Fog-to-Cloud Management Ecosystem

mF2C

Driving through the Edge

Objectives

Develop mF2C as a global management framework for the mF2C ecosystem

PoC validation in real-world use cases and analysis of novel business models

Develop a security and privacy framework for mF2C

Disseminating the mF2C framework and contributing to standards

Develop novel technologies and techniques for service execution in mF2C

Goals

Connectivity
Extends the cloud to be closer to the "things"

Improved Customer Experience
Improve reliability and make the process as quickly and smoothly as possible

Extension and optimization of current solutions
Move data processing to the edge

Interoperability
Ensure interoperability with existing solutions

Common framework for collaboration
Integration of IT and OT in a single framework

Shared and Spread
Create and add new value to existing business while expanding its scalability

Reference Architecture

mF2C is a coordinate management solution capable of leveraging all existing and potentially available resources, from the edge up to the cloud, when executing a service.

To that end, mF2C proposes a layered architecture where the resources are categorized using an entity agent to deploy the management functionalities in every component within the system.