ELASTIC

A Software Architecture for Extreme-ScaLe
Big-Data AnalyticS in Fog CompuTing Ecosystems

Developing a novel software architecture for extreme-scale analytics

The ELASTIC software architecture will form the technological basis for advanced mobility systems and autonomous transport networks.

Fog Computing

Advanced hardware architectures at the edge side combined with the most advanced technology to increase the capabilities of extreme-scale analytics.

Elasticity

An innovative elasticity concept, in which computation is dynamically distributed accross the compute continuum whilst fulfilling real-time, energy, communication and secure properties.

Smart City

A visionary smart mobility use-case, with huge amounts of data coming from a large set of IoT sensors distributed along the Florence tramway network.

25%

Reduced number
of yearly incidents
in Florence
tramway

NGAP and ADAS

5%

Traffic
improvement

**Public/private
transport
interaction**
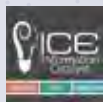
30%

Reduced preventive
and standard
maintenance costs

**Predictive
maintenance**

Partners

CITTÀ METROPOLITANA DI FIRENZE

GEST GROUPE RATP

ICE

sixsq

isep
Instituto Superior de **Engenharia** do Porto

THALES

ikerlan

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