

# 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 across 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

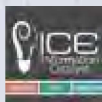
Predictive maintenance

## Partners



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