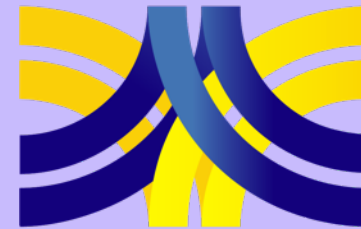


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*Decarbonizing Road Infrastructure : Challenges,  
Perspectives and Actions in Tough Economy*

**ASECAP DAYS**

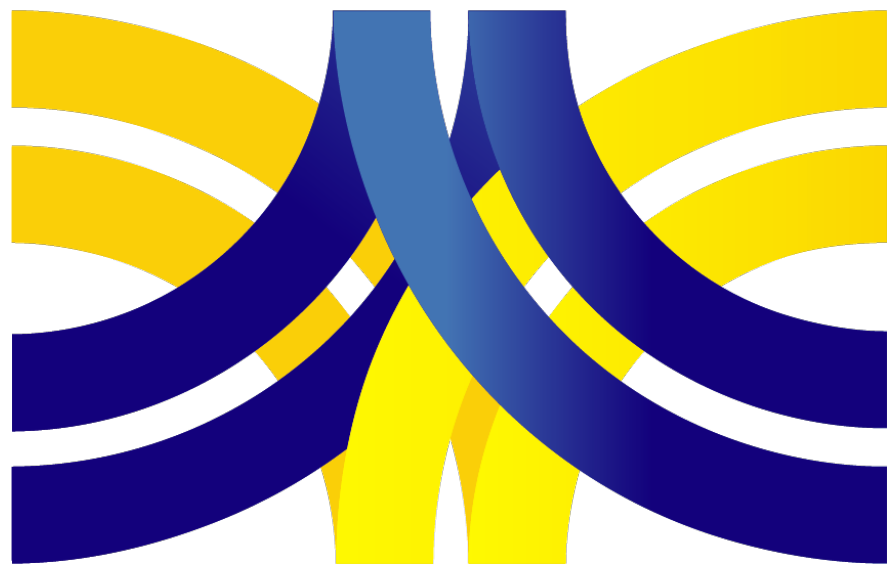


**BRUSSELS 2022**



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# App SOS Autoestradas – more than an app

Jorge Lopes  
APCAP

# The problem

Low use of traditional SOS motorway call boxes for emergencies

Network fragmentation with multiple operators

Ecall system connected with car manufactures

**Game changer**: Emerging sensing and HMI features on smartphones



For motorways and beyond

# How does it work

## Main features:

Automatic network geolocation

$f(\text{lat}, \text{long}) \rightarrow (\text{road}, \text{pk}, \text{direction}, \text{stretch}, \text{operator})$

Single button interface

Direct emergency call to operator

Minimum set of data transmission (Ecall format)

Open source standards approach



# More than an app

Open free backend as a service for third party apps and customer-oriented services:

- Geolocation services
- Road operator endpoints
- MSD gateway

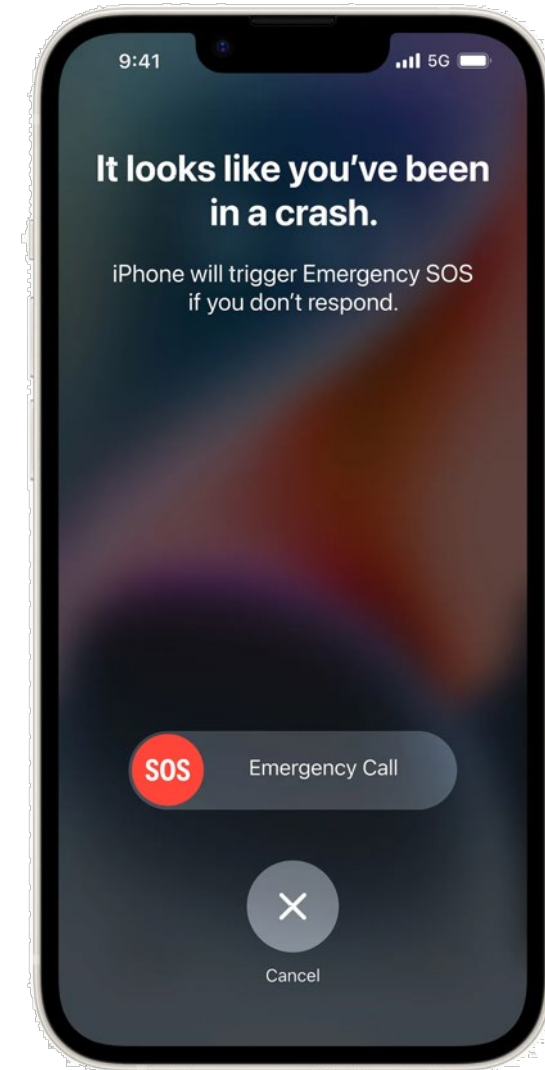


Improving customer safety is the goal

# More than an app (II)

Open architecture for automatic integration with smartphone features, in-vehicle sensors or personal devices

- Voice control
- Crash detection
- Smart sensors
- Emergency beacons



Every second counts

# How well it works

Geolocation accuracy (< 5m long error; 90% direction)

Speed of communications (voice and data)

Usability



App vs App