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Autostrada del Brennero SpA Brennerautobahn AG



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THE DIGITAL TRANSFORMATION OF THE BRENNER MOTORWAY IN THE SERVICE OF SAFETY

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Roads in which the use of information technology, data and connectivity allows changes to the way roads are designed, built, managed and used

> Roads able to provide future services to improve transport planning and management

Roads able to deliver wider community benefits



ASECAP DAYS





THE EU SUPPORT

"Digital technologies have the potential to revolutionise the way we move, making our mobility smarter, more efficient, and also greener"

Adina Vălean, Commissioner for Transport







Sustainability, Innovation and Digitization

The main areas of investment for the transformation of the **A22 into a Smart Highway** are:







Change of mindset

2





Private and public commitment and investments



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Different technological elements can help the digitization of the infrastructure

The goal is always one

To achieve a safer and more

sustainable road network



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IoT and AI to manage traffic flows

Real-time data collection and analysis

Sensors designed to assist drivers, enabling them to take safer decisions (V2X)









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loT and Al in infrastructure monitoring

AUTOMATED DEFECT DETECTION

SMART SENSORS

INTERNET OF THINGS (IOT) IMPLEMENTED IN THE CLOUD AND BRIDGE MANAGEMENT IN AN INTEROPERABLE PLATFORM (BRIDGE MANAGEMENT SYSTEM)

AUTOMATED PLATFORM REPRESENTING THE INFRASTRUCTURE IN A DIGITAL TWIN MODEL







Data overview

Calculated

-250

1000 -1250

Structural Health Monitoring through use of:

BIM, FEM and Digital

Twin

- Decision Supporting System
- Smart systems for bridge monitoring
- > Dynamic weighing system









With a single search, the user will access a single mobility service that will consider all forms of transport **and** a single mode of payment

Autostrada del Brennero will develop a Mobility-as-a-Service concept to create a digital European corridor combining infrastructure and services

Mobility as a Service



THANK YOU GRAZIE

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