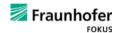


## **Partners**























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This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement no 72301.6

**INFRAMIX** is preparing the road infrastructure to support the coexistence of conventional and automated vehicles. The key outcome is a hybrid road infrastructure able to handle the transition period and become the basis for future automated transport systems. To achieve this goal INFRAMIX employed new advanced microscopic traffic flow models, advanced simulation techniques, innovative control strategies, as well as appropriate new and adapted existing physical and diaital infrastructure elements. appreciation and safety performance leading among others to a novel road

#### **INFRAMIX ACHIEVEMENTS**

- Designed new and upgraded existing physical & digital road infrastructure elements;
- Developed a co-simulation environment;
- Designed and implemented novel traffic estimation, monitoring and control strategies;
- Developed hybrid testing system;
- Designed novel signalling and visualization elements:
- Evaluated users' appreciation and acceptance;
- Evaluated traffic safety;
- Created a Road Infrastructure Classification Scheme;

## **8 DIFFERENT USE CASES**

# Scenario 1: Dynamic Lane Assignment (incl. speed recommendations)

- Real time lane assignment under dynamic penetration rate of automated vehicles
- 2. Exceptional circumstances e.g. adverse weather conditions
- A conventional vehicle drives on a dedicated lane for automated vehicles.

#### Scenario 2: Roadworks zones

- 4. Single lane closure (e.g. short term constructions)
- 5. New lane design (e.g. long term constructions)

#### Scenario 3: Bottlenecks

- **6.** Automated vehicles driving behaviour adaptation in real time at sags
- Lane change advice to connected vehicles at bottlenecks
- 8. Lane change advice combined with flow control at bottlenecks for all vehicles

## Real tests on modern highways





Girona (Spain)



AISIFIINIAIG
Graz
(Austria)