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'Preparing road infrastructure for mixed vehicle traffic flows'

Dear reader,

We are delighted to publish **the fourth INFRAMIX newsletter**. INFRAMIX is a three-year project, funded by the European Commission, under the Horizon 2020 programme. The main objective of INFRAMIX is to prepare the road infrastructure with specific affordable adaptations and to support it with new models and tools, to accommodate for the step-wise introduction of automated vehicles.

The scope of the newsletter is to provide regular updates on project progress and inform you about highlights as well as INFRAMIX and other relevant events. In this fourth issue you will be able to find out more about:

- The upcoming INFRAMIX Final Event;
- The outputs of the joint stakeholder workshop of INFRAMIX and TransAID;

- The interview with David Porcuna (AAE) and Wimmer Yannick (ASF);
- The interview of Interview to Mohamed Berrazouane, one of the authors of the paper "Analysis and initial observations on varying penetration rates of automated vehicles in mixed traffic flow utilizing sumo".
- The INFRAMIX representation at iFRAE2019, in Shanghai;
- upcoming events.

If you wish to find out more INFRAMIX news and cannot wait for the next newsletter, visit our [INFRAMIX website](#).

The INFRAMIX consortium

Save the Date for the INFRAMIX Final Event!

After three years of intense and hard work, the INFRAMIX project is slowly coming to an end. Don't miss the grand finale, where we will present the INFRAMIX results and outcomes.



FINAL
EVENT



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement no 723016.

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The **Final Event** will take place on [Graz, Austria](#) on [4 May 2020](#). More information, as well as the agenda, will follow shortly! Up to then, save the date and share with your audiences!

**Joint Stakeholder Workshop
of INFRAMIX and TransAID**



Workshop on infrastructure requirements and traffic control strategies for automated driving

Inframix and [TransAid](#) organised a joint workshop in Graz, Austria on 9th October 2019. The goals of the workshop were to:

- Explore in more detail how **increasing automated vehicles** are likely to behave in various traffic situations and how this may affect the traffic management task;
- Provide insight to the role that communication technology (**digital infrastructure**) can play in the shorter term of connected transport and the longer term of automated transport;
- Promote reflection and knowledge sharing among technology stakeholders on **proposed solutions**, especially regarding their role and responsibilities as automated driving evolves.

This second INFRAMIX workshop took place on the same week of **testing days** on the [Austrian test site](#) of the project.

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An interview with David Porcuna from AAE and Wimmer Yannick from ASF



We met the INFRAMIX partners David Porcuna, from [ABERTIS AUTOPISTAS ESPAÑA, S.A.](#) and Yannick Wimmer, from [ASFINAG](#) and discussed together about the testing days in Girona and Graz.

Why is INFRAMIX so interesting?

We tried to find out why INFRAMIX is so important and interesting for AUTOPISTAS and ASFINAG as road authority and road operator respectively. David Porcuna highlighted that the project's main target is to design, upgrade, adapt and test (in simulation and in real-world) both physical and digital elements of the **road infrastructure**, to enable the **coexistence of automated and conventional vehicles**, in specific scenarios, ensuring an uninterrupted, predictable, safe and efficient traffic. The key outcome will be a "hybrid" road infrastructure able to handle the **transition period** and become the basis for future automated transport systems. *"In consequence of this target, the enrichment of the information acquired by the infrastructure will clearly have an impact on the already identified future business. In a longer-term, we see the*

possibility of **offering new services** based on the hybrid infrastructure approach developed in INFRAMIX”, he commented. From ASFINAG, Yannick Wimmer underlined that “the penetration rate of connected and automated vehicles will steadily increase over the next years on the ASFINAG road network. Therefore, ASFINAG is highly interested in R&D projects like INFRAMIX, which are targeting this topic.”

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Interview to Mohamed Berrazouane

Occasioned by the recently published paper entitled as “Analysis and initial observations on varying penetration rates of automated vehicles in mixed traffic flow utilizing sumo.” (Berrazouane Mohamed, Tong Kailin, Solmaz Selim, Kiers Martijn, and Erhart Jacqueline) which was presented in the 8th IEEE International Conference on Connected Vehicles and Expo (ICCVE), in Graz, Austria, in November 2019, we interviewed Mohamed Berrazouane to find out more.



What is your dissertation about?

We tried to find out what this thesis address and in which way it is linked to the INFRAMIX project. As Mohamed highlighted, one of the main goals of INFRAMIX is to understand the potential problems engendered from hosting a mixed-traffic within the actual road infrastructure. This last requires extensive simulative analysis with a high level of realism. Therefore, the modeling of manual driving vehicles must be derived from real traffic flow data. *“This thesis addresses that specific part of the project, where the traffic modeling conventional vehicles is calibrated to replicate the same human drivers’ behavior noticed at the investigated road segments based on single-vehicle measurements collected by the Austrian toll operator ASFINAG. This work does not only define the optimal parameterization that mimics both longitudinal and lateral movements of human drivers within a simulated flow, yet also models the traffic flow characteristics observed in-situ.”*, he added.

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**INFRAMIX was represented
at iFRAE2019,in Shanghai**



Stamatis Manganiaris from [ICCS](#) took part in [iFRAE2019](#) in Shanghai representing INFRAMIX project. His presentation was focused on Intelligent Infrastructure and the Future of ITS.

[iFRAE](#) is the International Symposium on Frontiers of Road and Airport Engineering. It was firstly held in 2011 and then biennially since 2015. The 4th iFRAE was held in Shanghai from October 25th to October 27th, 2019.

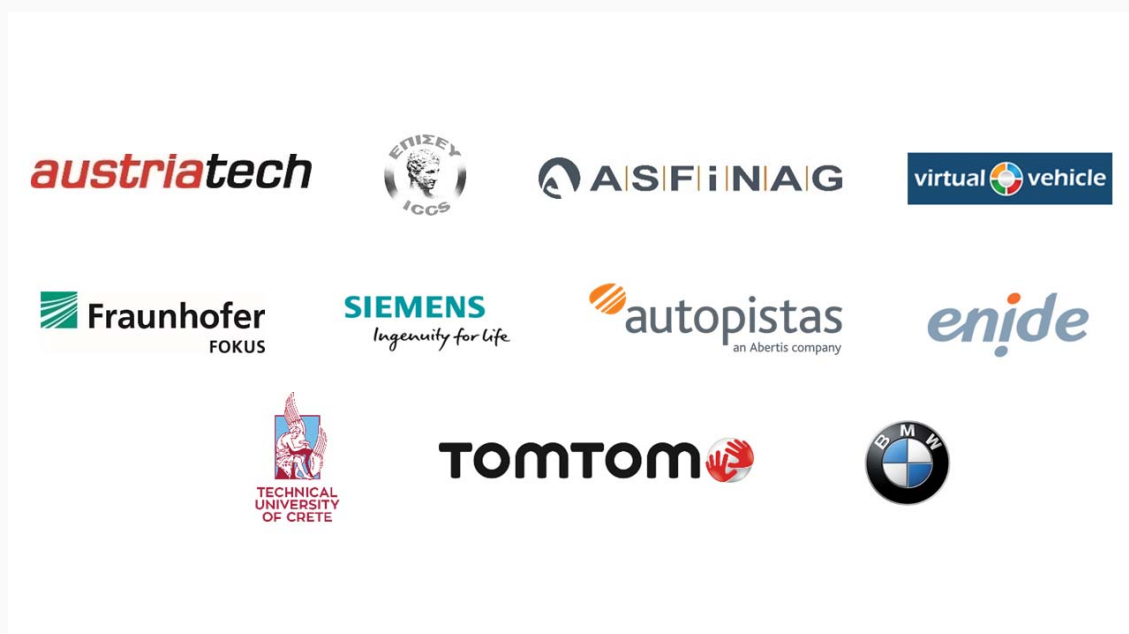
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1. [ARCADE & ERTRAC Joint Stakeholder Workshop](#) February 13, 2020, Brussels, Belgium
2. [Interactive Symposium on Research & Innovation for Connected and Automated Driving in Europe](#), April 28-29 ,2019, Messukeskus Helsinki
3. [HEADSTART Workshop](#), May 12, 2020, Athens, Greece
4. [L3Pilot Summer School](#), May 13-14,2020, Athens, Greece
5. [ITS European Congress](#), May 18-20,2020, Lisbon, Portugal

For more events relevant to INFRAMIX project, visit our [calendar](#) in the INFRAMIX website.

Partners



Don't miss to follow INFRAMIX on social media!



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