



# Final event Conclusion

May 13th 2024

# Conclusions of SORTEDMOBILTIY

Self-organizing railway traffic **may be an option**

It would require big changes in regulations and contractualizations, but in some cases it may be worth it

In our results, the performance of the system are at least **as good** as with a centralized optimized management

The path is open for further exploration, and **realistic simulation assessment** is crucial

# Open questions

Several questions remain open:

- How may different designs for the various modules influence the system?
  - situation-specific neighborhood definition?
  - possibility of making additional RU-proper decisions?
  - more advanced consensus approaches?
  - ...
- How does the network structure and traffic density impact the performance?
- How shall prediction boundaries be set?
- Shall a completely self-organized system be the target, or some place for centralized decisions shall be preserved?

# Lessons learned

- Dealing with real data always remains a very big challenge
- Industry-academia collaboration, independent on any commercial product development, is crucial for preserving real exploratory research
- Main factors for the success of exploratory research projects:
  - funding opportunities
  - good ideas
  - passionate teams



Rémy Chevrier



Jean-Jacques



Egídio Quaglietta



Konstantinos Rigos



Kemal Kaskin



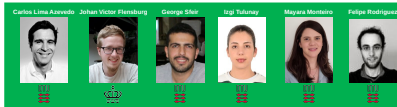
Grégory Marlière



Sonia Soberra Richard



Sonia Di Cola



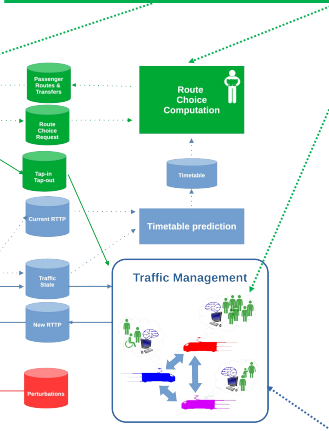
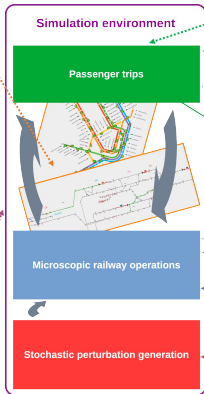
Razi Seshadri



Loirena Torres Lahnou



Joaquín Rodríguez



# Thank you!

For later questions and comments

[paola.pellegrini@univ-eiffel.fr](mailto:paola.pellegrini@univ-eiffel.fr)



This project is supported by the European Commission and funded under the Horizon 2020 ERA-NET Cofund scheme under grant agreement N° 875022