At the core of the Engage KTN is the definition of various thematic challenges: new ideas suggested by the research community, not already included within the scope of an existing SESAR project. They are developed along with the ATM concepts roadmap and complementarily with some of the network's PhDs and theses.

Thematic challenge 2

Data-driven trajectory prediction

2nd workshop draft programme

Edition 1.0, 29 August 2019

Workshop date:	**02 December 2019**
Host:	National Centre of Scientific Research 'Demokritos'
Address:	Athens, Greece (co-located with SIDs)
Web details for access:	(to follow)

Abstract

To follow

Draft programme

0930-1000 Registration

1000-1015 ***Welcome and overview from the Engage KTN; results of the 2018 workshop and follow-up***
Dirk Schaefer (EUROCONTROL)

SESSION 1 Engage Catalyst-funded projects (chair TBC)

1015-1045 ***Data-driven trajectory imitation with reinforcement learning***

1045-1115 ***A Data-drIven approach for dynamic and Adaptive trajectory PredictiON ('DIAPasON')***

1115-1145 ***An interaction metric for an efficient traffic demand management: requirements for the design of data-driven protection mechanisms***

1145-1215 ***Discussion on problems and opportunities***

1215-1315 ***Lunch***

SESSION 2 Engage PhDs (chairs/mentors TBC)

1315-1330 ***Trajectory planning for conflict-free trajectories: a multi agent reinforcement learning approach ('RL4CFTP')***

1330-1345 ***Machine Learning Techniques for Seamless Traffic Demand Prediction***

1345-1400 ***Machine Learning Applications to Extend AGENT's conflict resolution capabilities***

1400-1415 ***Advanced Statistical Signal Processing for Next Generation Trajectory Prediction***

1415-1430 ***Integrating weather prediction models into ATM planning ('IWA')***

1430-1500 ***Discussion on problems and opportunities***

1500-1515 ***Coffee break***

SESSION 3 Facilitated brainstorming

1515-1615 ***Identification of areas of collaboration and opportunities (facilitated brainstorming)***

1615-1630 ***Wrap-up and close-out***
Dirk Schaefer (EUROCONTROL)

Request a booking

To request a place, please visit: engagektn.com/thematic-challenges

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