



*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 4

# Novel and more effective allocation markets in ATM – the way forward



## **2<sup>nd</sup> workshop programme**

Edition 2.0, 11 October 2019

Workshop date: **12 November 2019**  
Host: Nommon  
Address: Hotel VP Madroño, General Díaz Porlier 101  
28006 Madrid, Spain  
Web details for access: <https://www.madrono-hotel.com/en/>

## Abstract

In this workshop we take forward the discussions of our first event, held in London in October 2018, and introduce the research now being supported by the SESAR KTN, Engage, through its newly-launched PhDs and catalyst fund project. Our presentations start with expert viewpoints from outside the ATM domain, then focus more on the application of behavioural economics within ATM, before concluding with a facilitated workshop, a key output of which will be how we integrate these early activities in this new field, and what the next steps ought to be.

## Programme

(May be subject to further small changes)

0830-0900 Registration

### SESSION 1 Introduction

0900-0930 ***Welcome and introduction to the programme***

An introduction to our hosts, Nommon, to the SESAR KTN, Engage, and the day's programme

Ricardo Herranz (Nommon), Andrew Cook (University of Westminster)

0930-1000 ***A view from the outside looking in***

The background to behavioural economics and some applications beyond ATM

Benno Guenther (Salient)

1000-1030 ***The challenge of allocating scarce resources***

A comparison of methods for allocating scarce resources in air transport

Lorenzo Castelli (University of Trieste)

1030-1050 ***Coffee break***

1050-1120 ***Behavioural economics – finding a place in ATM***

How this new field is being taken up in ATM, and where it might take us next

Andrew Cook

### SESSION 2 Behavioural economics and the Engage PhDs

1120-1150 ***Investigation into 'irrational' airline strategies***

Exploring ground operations as crucial control elements in airline networks

Hartmut Fricke (TU Dresden)

1150-1220 ***The bridge between optimisation and simulation: application to APOC***  
The benefit of coupling optimisation and simulation in order to enhance decisions  
in a multi-agent environment  
Daniel Delahaye (ENAC)

1220-1330 ***Lunch***

### **SESSION 3 The Engage catalyst fund & industry perspectives**

1330-1400 ***What UDPP hopes to deliver to the airspace users***  
The importance of designing the right mechanism and understanding the drivers of the user  
Nadine Pilon (EUROCONTROL)

1400-1430 ***Exploring future UDPP concepts through computational behavioural economics***  
Insights into the Nommon Engage catalyst fund project, with a focus on flight prioritisation  
David Mocholí (Nommon)

1430-1500 ***Coffee break***

### **SESSION 4 Facilitated workshop**

1500-1515 ***Introduction to the facilitated workshop***  
Andrew Cook  
(Information notes will be provided to delegates in advance of the workshop)

1515-1715 ***Facilitated workshop***

Delegates will be presented with novel flight prioritisation mechanisms, and discuss the pros and cons from various stakeholder perspectives, in break-out groups. What are the most important metrics (flexibility, cost-efficiency, resilience, equity?) and how should we measure them?

In plenary, a round-table discussion will follow on: the extent to which the stakeholder metrics can be reconciled; what contribution behavioural economics can make to mechanism design and performance; plus conclusions and next steps for such research.

1715-1730 ***Wrap-up, conclusions, wider next steps***  
How we integrate these early behavioural economics research elements and what the wider next steps ought to be for industry in general and the integrated Engage perspective, in particular  
Ricardo Herranz, Andrew Cook

## Request a booking

To request a place, please visit: [engagektn.com/thematic-challenges](https://engagektn.com/thematic-challenges)



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