



European
University
Institute

ROBERT
SCHUMAN
CENTRE FOR
ADVANCED
STUDIES

FLORENCE
SCHOOL OF
REGULATION

8th Florence Air Forum

Villa la Fonte
San Domenico
di Fiesole
21.10.2016

Disruptive technologies in air traffic management

Matthias Finger

Florence School of Regulation – Transport Area

European University Institute

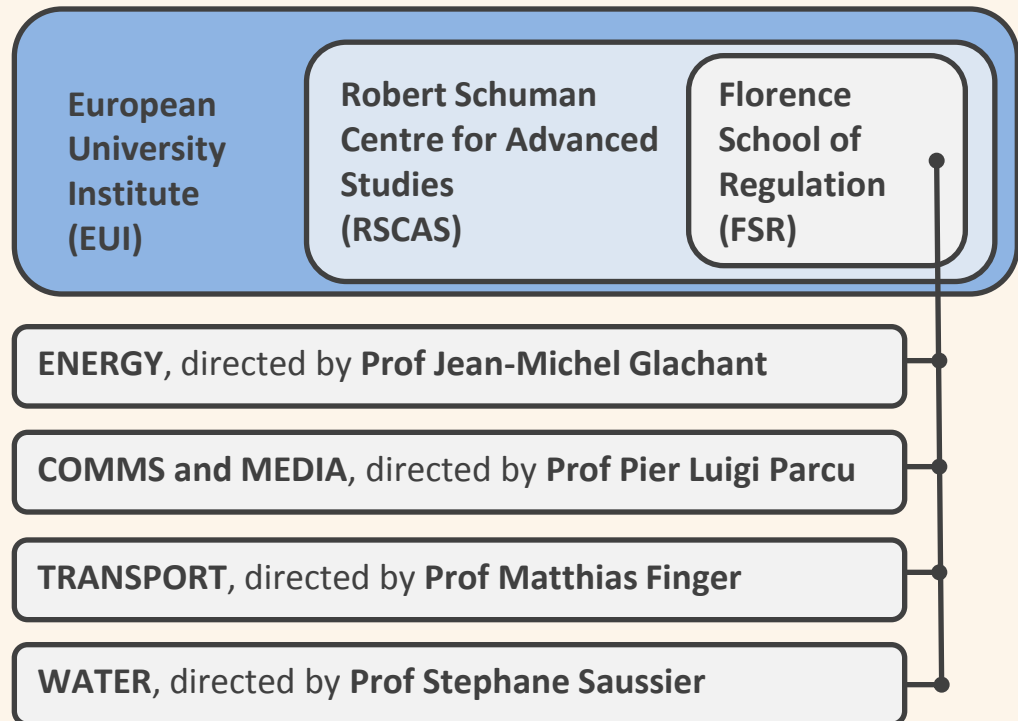
www.florence-school.eu

FSR.Transport@eui.eu



Florence School of Regulation

The Florence School of Regulation was created in 2004. The Transport Area started its activities in 2010.





Florence Air Forums and Executive Seminars

- Executive Seminar: *The Future of Air Traffic Management: What Can We Learn from Each Other?* March 2016 at Global ATM in Madrid
- 7th Florence Air Forum: *Regulating Drones: Creating European Regulation that is smart and proportionate.* September 2015
- Executive Symposium on the *Future of European Aviation.* June 2015, with Commissioner Bulc
- Executive Seminar: *European aviation safety: what can we do better?* February 2015
- 6th Florence Air Forum: *Making effective use of technology is SESAR deployment.* October 2014
- 5th Florence Air Forum: *Markets in Air Traffic Control and the evolving role of Eurocontrol.* March 2014

Context

- Technological innovation, especially in the areas of digitalization, communication and automation, has the potential to revolutionize also Air Traffic Management
- SESAR as Europe's R&D main tool to identify and develop (disruptive) technologies for ATM
- The overall context of the Single European Sky, i.e., the need to overcome European airspace fragmentation
- **In short: technological opportunities, yet political and institutional challenges**





Objectives

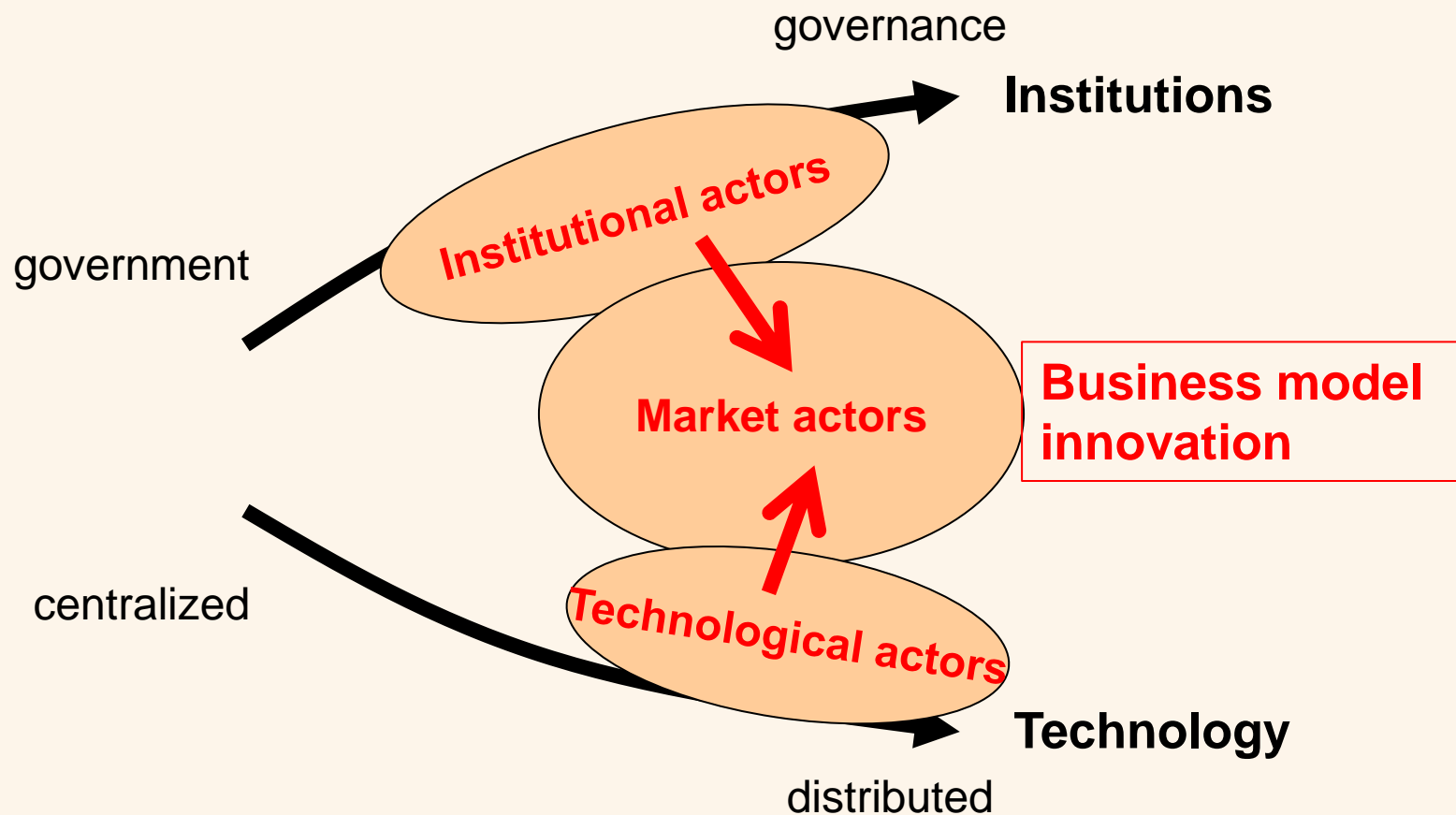
- A systematic discussion of the challenges posed by the various disruptive technologies to current European ATM practice and institutions (rules)
- 4 main questions:
 - Disruptive technologies in ATM
 - What can be learned from other industries?
 - How can industry be supported? What role for SESAR?
 - How to rethink current regulation in light of such disruptive technologies in ATM?



Structure and principles of the day

- Introduction by Frank Brenner (Eurocontrol) and Maurizio Castelletti (EC, DG Move)
- 4 sessions with short inputs and subsequent discussions:
 - disruptive technologies
 - learning from other industries
 - role of industry and SESAR
 - rethinking regulation
- Chatham rules
- Slides, summaries and Observer after the Forum

Network industry dynamics (theory)



Generic consequences of the ICTs (mobility)

