

Dilemmas in the Space Ecosystem

Toulouse, Friday 5 December 2025

PROGRAM OVERVIEW

MORNING

08h30 – 09h00

BREKFAST AND REGISTRATION

09h00 – 09h20

OPENING REMARKS

Stéphanie LAVIGNE, Dean, TBS Education (Toulouse, France)
Mathieu POUMAREDE, Dean, Toulouse School of Law, (Toulouse, France)
Victor DOS SANTOS PAULINO, Co-Director, SIRIUS Chair (Toulouse, France)

09h20 – 10h40

THEME 1 – FUTURE TRAJECTORIES AND SCENARIO PLANNING FOR SPACE

Chairman: Alexandre GARUS, Ecosystem and Strategic Insights Manager, Thales Alenia Space (Toulouse, France)

Interactive introduction: Ghaliya ABOULFARAJ & Siddhartha KOTLA, TBS Education (Toulouse, France)

• “Navigating legitimacy in New Space entrepreneurial framing in France”

Cylien GIBERT, Associate Professor, TBS EDUCATION (Toulouse, France)

Eric JOLIVET, Associate Professor, Toulouse 1 Capitole University (Toulouse, France)

• “Space brokers on the lookout – Regulating space activities in changing value chains”

Salomé PARADIS, PhD Candidate, Toulouse 1 Capitole University (Toulouse, France) and Laval University (Québec, Canada)

Lucien RAPP, Full Professor, Toulouse 1 Capitole University (Toulouse, France)

• “Hype & Asteroid Mining: Structuration, Expanding Possibilities, and the Expectation of Abundant Marginal Change”

Aaron PAGEL, PhD Candidate, University of Oregon Lundquist (Eugene, Oregon, USA)

Alex MURRAY, Associate Professor, University of Oregon (Eugene, Oregon, USA)

Andrew NELSON, Professor, University of Oregon (Eugene, Oregon, USA)

10h40 – 11h00

COFFEE BREAK

11h00 – 12h30

THEME 2 – DISRUPTIONS AND ADAPTATIONS IN THE SPACE ECOSYSTEM

Chairman: Victor DOS SANTOS PAULINO, Co-Director, SIRIUS Chair (Toulouse, France)

Interactive introduction: Anais ROCA & Komal RAWAL, TBS Education (Toulouse, France)

• “Cyber Threats to Space Systems and Business Opportunities for Addressing Them”

William FERGUSON, Consultant, Thales Cybersecurity Premium Services (Luxembourg, Luxembourg)

Eytan TEPPER, Research Professor, Indiana University Bloomington (Bloomington, Indiana, USA)

Scott Shackelford, Provost Professor, Indiana University Bloomington (Bloomington, Indiana, USA)

• “Between Wings and Orbits: A Sui Generis Framework for Near-Space governance”

Raoul CARDELLINI LEIPERTZ, PhD Candidate, Centre for Higher Defence Studies (Rome, Italy)

• “Will Space Science survive in the Space Race 2.0?”

Special guest: Vincent HEIDELBERG, Filmmaker and science communicator, STARDUST (Annecy, France)

12h30 – 14h00

LUNCH

AFTERNOON

14h00 – 15h15

THEME 3 – INNOVATION ECOSYSTEMS AND THE EVOLVING ROLE OF CIVIL AGENCIES

Chairman: to be confirmed

• “Intermediation in public procurement on innovation: The case of the Italian Space Agency”

Matteo LANDONI, Senior Assistant Professor, Brescia University (Brescia, Italy)

Paolo CASTELNOVO, Associate Professor, University of Insubria and ENI Enrico Mattei Foundation (Insubria, Italy)

Martina DAL MOLIN, Associate Professor, Vilnius University (Vilnius, Lithuania)

• “Launching Growth: The Role of Entrepreneurial Support Organizations in the European New Space Economy”

Enrique ACEBO, Assistant Professor, Léon University (Léon, Spain)

David HERNANDO-TOMÉ, PhD Candidate, Léon University (Léon, Spain)

Julio ABAD-GONZÁLEZ, Associate Professor, Léon University, (Léon, Spain)

José-Ángel MIGUEL-DÁVILA, Full Professor, Léon University, (Léon, Spain)

• “Innovation governance in cutting-edge sectors: integrating sustainability through coopetition”

Aveline CLOITRE, Postdoctoral researcher, TBS Education (Paris, France)

Victor DOS SANTOS PAULINO, Associate Professor, TBS Education (Toulouse, France)

15h15 – 15h35

COFFEE BREAK

15h35 – 16h50

THEME 4 – SUSTAINABLE SPACE

Chairwoman: Laure BROOKER, Head of Technical Strategy and R&D, Airbus Defence and Space (Toulouse, France)

• “Optimal Path for Orbital Debris”

José TORRES, Professor, Malaga University (Malaga, Spain)

Anelí BONGERS CHICANO, Associate Professor, Malaga University (Malaga, Spain)

• “Toward Sustainable and Secure Nuclear Power in Spacecraft: A Bibliometric Review and Expert Discussion”

Nonthapat PULSIRI, TBS Education (Toulouse, France)

Herman VANDEN BROUCKE, Herman Oberth Gesellschaft (Bremen, Germany)

• “Sustainable Space Governance in the New Space Economy”

Ragul OLAKKUR VIJAYAKUMAR, Space law Researcher, High Court of Madras (Chennai, India)

Prema ELUMALAI, VIT School of Law and Vellore Institute of Technology (Chennai, India)

16h50 – 17h00

CLOSING REMARKS

Lucien RAPP

Co-Director of the SIRIUS Chair, Emeritus Professor, Faculty of Law, Toulouse Capitole University (Toulouse, France)

Objective

This conference examines the transformation of the space ecosystem and its economic and societal implications.

The 2025 theme addresses disruptions driven by commercialization and technological advances, which challenge traditional actors, heighten uncertainty, and raise sustainability concerns. At the same time, these shifts create opportunities for innovation, new markets, and greener technologies.

Contributions explore disruptions and adaptations, future trajectories, civil agency roles, innovation ecosystems, and sustainable space.

Practical Information

In-person venue:

TBS Education - Amphitheater "BOSCO" (see the map at the end of the final program)

4 Place Alphonse Jourdain

31000 Toulouse, France

Online participation – Zoom Access:

Link: <https://tbs-education-fr.zoom.us/j/91597657998?pwd=2ycG7Bfy6ns21es4wQ2D2bk7Y2nrEF.1>

ID: 915 9765 7998

Password: 112233

Organizing and scientific committee:

Victor Dos Santos Paulino (TBS Education, SIRIUS Chair), Lucien Rapp (University Toulouse- Capitole, SIRIUS Chair), Alexandre Garus (Thales Alenia Space), Laurent Deroin (CNES), Gilbert Griseri (Airbus Defence and Space), Marie-Clotilde Runavot (University Toulouse-Capitole, SIRIUS Chair), Aveline Cloitre (TBS Education, SIRIUS Chair), Zouheir EL KAWAS (TBS Education, SIRIUS Chair), and Research Network on Innovation (RNI).

The conference is organized by the SIRIUS Chair, which has been conducting research in business and law applied to the space sector since 2013.

Contact: spacetalks31@gmail.com



SIRIUS SPACE TALKS'25
12th SPACE BUSINESS CONFERENCE

Dilemmas in the Space Ecosystem: Threats and Opportunities

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