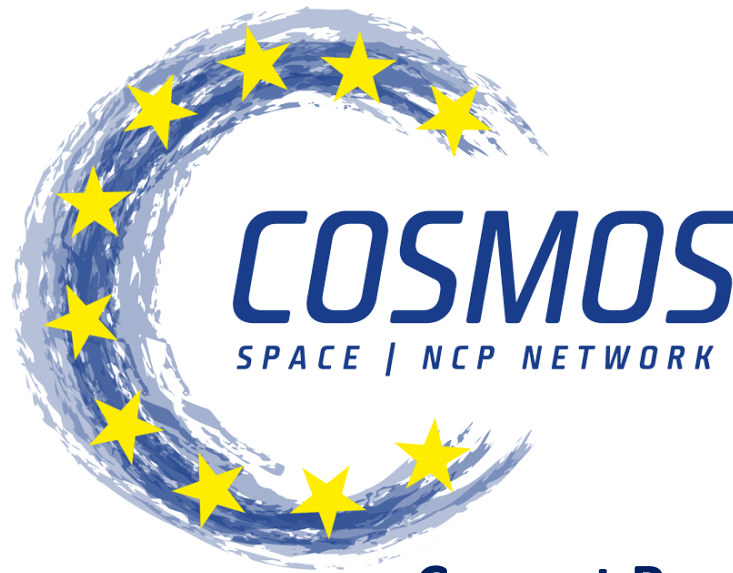


Pitch session



**Current Research and Upcoming Perspectives,
in the Field of Advanced Materials**

Botan Mihail

**INCAS - National Institute for Aerospace Research
"Elie Carafoli", ROMANIA**

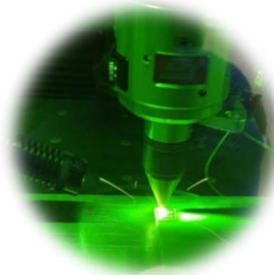
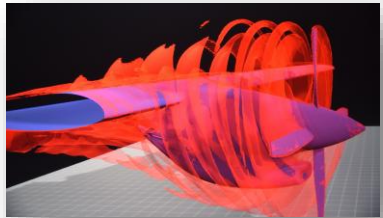


Cluster 4: Digital, Industry and Space

INCAS Expertise

Flow Physics Department

- General Aerodynamics
- Numerical Simulation
- Experimental Aerodynamics
- Environmental Aerodynamics



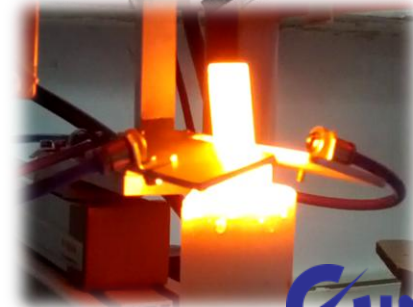
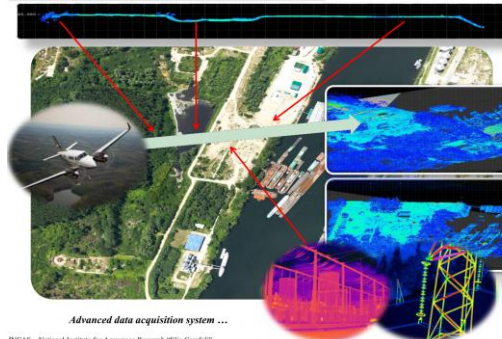
Systems Department

- System Dynamics
- Mechatronics

Structures and Materials Department

- **Aero-Structures**
- **Advanced Materials and Tribology**

TGA Technologies for Green Aviation Center



Complex mission profile :

- Atmospheric Research
- Earth Observation
- Digital terrain mapping



Cluster 4: Digital, Industry and Space

Interested in Topics related to:

- 1. Energy efficient SMART MOLDS for advanced composites materials.**
- 2. Additive manufacturing technologies for resilient application for industry and space. (SLS, DED)**
- 3. Thermal barrier coatings, harsh environmental testing**
- 4. Advanced composite materials, by AFT/APL and out of autoclave methods.**
- 5. Digital engineering in materials science for harsh and extreme environments.**
- 6. Technology for CLEAN AVIATION (new materials, Hydrogen/electrically powered aircrafts, AI, etc.**

*HORIZON-CL4-2025-04-DIGITAL-EMERGING-04: Assessment methodologies for General Purpose AI capabilities and risks (RIA)
(AI/Data/Robotics Partnership)*

*7. HORIZON-CL4-2025-02-SPACE-43: Copernicus Anthropogenic CO₂ Emissions Monitoring & Verification Support (CO2MVS)
capacity: new and innovative methods to estimate the impact of fires on vegetation and related carbon fluxes*

Keywords: Additive manufacturing, Coatings, Tribology, Wind tunnel testing,
Composite materials, AFT/APL,

Pitch session

Contact us



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