

# Space education proposals under RPA call in Lithuania

## CfP/5-50152/25/NL/MH/yd – G1 activities

Vilnius, 17 September 2025



## Three pillars

### Why finance space education?

- **Prepare** and **encourage** students to pursue a career in the space industry
- Provide a suitable and ready **workforce** for Lithuanian entities
- Leads to **stronger European expertise**
- Help **initiate collaboration** between ESA member states

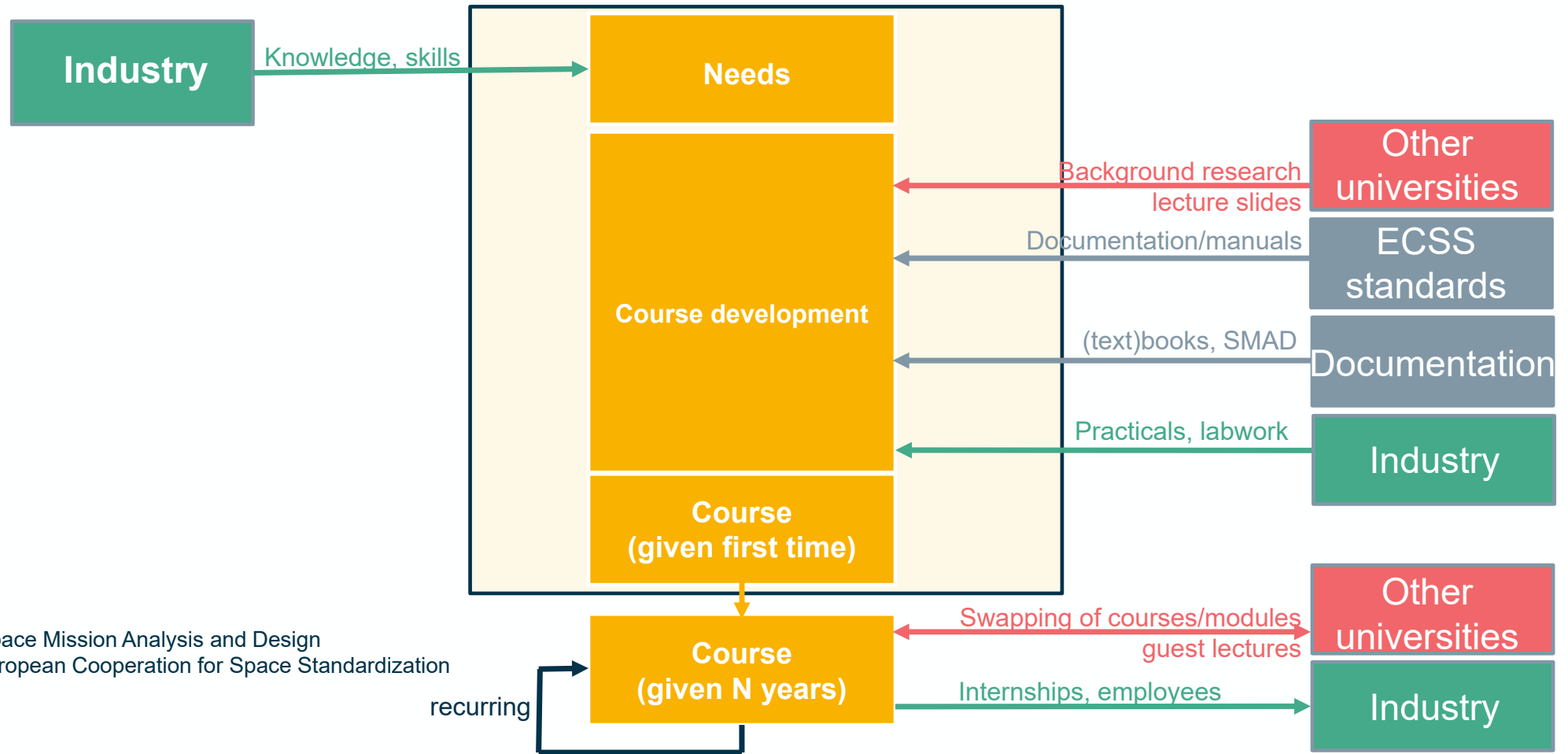
### Development of a space degree

- **Prerequisites**
  - Needs to **build on existing degrees**
  - Cannot be done in one step
  - Responds to **needs of local industry**
  - Modules have **test criteria** (exam/thesis) and **give credits** (ECTS)
- **Very strongly encouraged**
  - Use of ECSS

### International links

- **Increases efficiency** of the course development
- Space business is international
- **Increases visibility** of space education
- Improves **chances for collaborations** with other entities of ESA member states
- **Very strongly encouraged**
  - Use of English

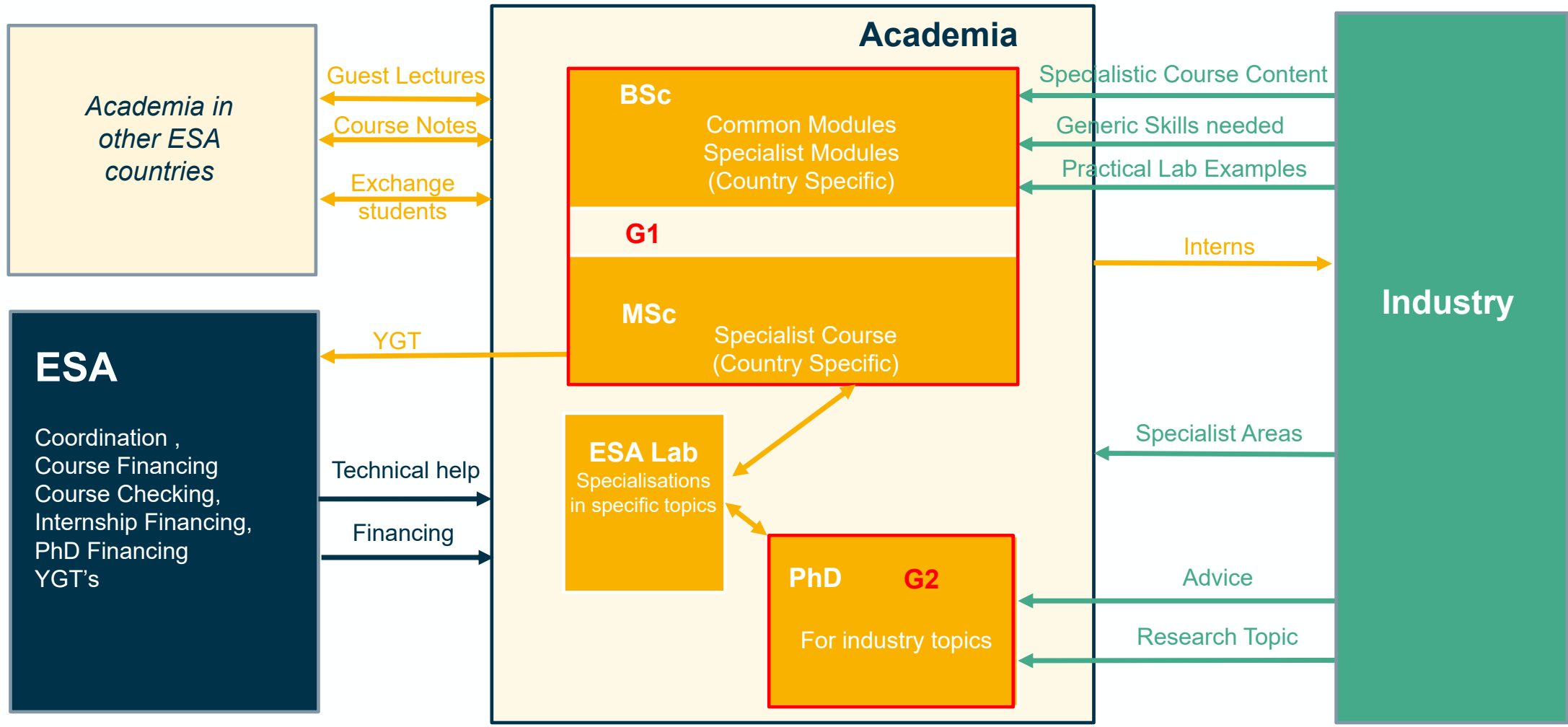
# Space Education Development Model



SMAD = Space Mission Analysis and Design  
 ECSS = European Cooperation for Space Standardization



# Idealized model for long term Space Education and cooperation with industry



# Common mistakes in Education Proposals

- Not showing **outline course contents**
- Not showing the **input information sources** (textbooks, SMAD, universities, etc.)
- Not having the **course in English** (at least partially)
- Not **including industry**
- Not taking advantage of **ECSS**
- Not being **accredited** OR discussing **accreditation process**
- Not including **independent reviews of course material** (*correct and complete information*)
- Not giving assurances of **recurring nature** of the course (*i.e., it is a single shot/one off*)
- Not showing how it **fits into the current BSc/MSc programme** OR discussing **end goals**



# Overview of funded space education activities



	Activity	Country	Entity
1	Space Education for Bulgaria (SpaceEdu4BG)	Bulgaria	Faculty of Physics, Sofia University St. Kliment Ohridski
2	TRACOFUNAT: Training courses “Fundamentals of aerospace technologies”	Lithuania	Vilnius University
3	Space Image Processing	Lithuania	Vilnius Gediminas Technical University
4	University Course and Public Lectures on Earth Observations (UniEO)	Lithuania	Faculty of Chemistry and Geosciences, Vilnius University
5	Aquatic Remote Sensing in Higher Education (QREDO)	Lithuania	Klaipeda University
6	Ventspils University College Satellite Technology Education Programme	Latvia	Ventspils University College
7	Development of study course “Thermal Management and Power Electronic Packaging in Spacecraft Applications”	Latvia	Riga Technical University
8	Introduction to Wavelets for Space Applications	Latvia	University of Latvia
9	Development of university course – satellite communications systems	Latvia	Ventspils University College
10	Space for Education, Education for Space (SEES)	Slovakia	Slovak University of Technology - FEI-STU
11	TUKE Space Forum	Slovakia	Faculty of Electrical Engineering and Informatics, Technical University of Kosice
12	University course Earth Observation with ESA missions	Slovakia	Faculty of Mining, Ecology, Process Control and Geotechnologies, Technical University of Kosice
13	SIREN Space Ionizing Radiation Experts Nursery	Slovakia	Slovak Academy of Sciences - Institute of Experimental Physics

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# Other key universities in Member States

	University	Country
1	Technical University of Denmark	Denmark
2	ISAE Superaero	France
3	Technical University of Berlin	Germany
4	Technical University of Munich	Germany
5	Polytechnic University of Milan	Italy
6	Sapienza University of Rome	Italy
7	University of Pisa	Italy
8	Delft University of Technology	Netherlands
9	KTH Royal Institute of Technology	Sweden
10	Swiss Federal Institute of Technology Zurich	Switzerland
11	Cranfield University	UK
12	University of Glasgow	UK
13	University of Southampton	UK
14	University of Surrey	UK

- **Note:** this list is far from comprehensive



## 6. Questions?

For questions related to specific projects or issues use the one-on-one sessions. In the one-on-one sessions please **do not ask general questions** – they are very limited in time.



For issues **DIRECTLY** related to this Call, contact the **Contract Officer**:

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