

Project proposal

Space Agencies' Contribution to Education: Compendium of Best Practices

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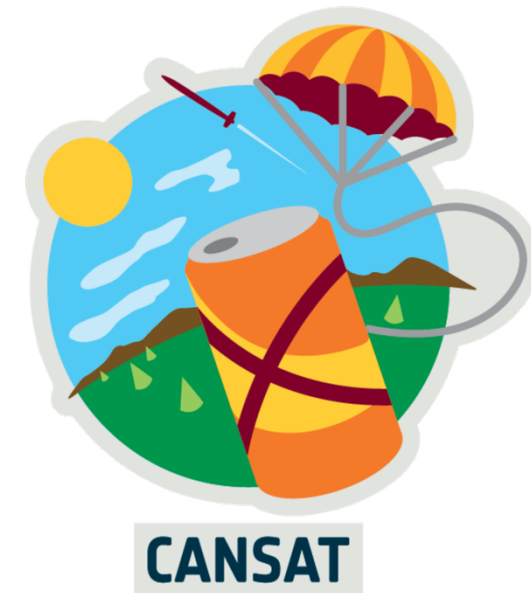


- Space education is multifaceted and multi-actors
- Among these, space agencies are playing an interesting – although modest – role
- How to push them to do more?
 - Acknowledgment/praise
 - Competition
 - ??
- Idea: recognize, via a compendium and awards, space agencies' contribution to space education
- Want the UNISEC community's feedback, advice and opinion => breakout session



Numerous forms of space education

- ❑ Initiation to space activities (for primary/middle/high schools)
- ❑ Introduction to basic guidance, autonomous embedded systems (e.g. CanSat)
- ❑ Hands-on learning on space systems replica (e.g. HEPTA-Sat)
- ❑ Development of actual space systems (e.g. CubeSat and higher)
- ❑ Capacity building in space technology development and utilization
- ❑ Capacity building in space law, policy and strategy
- ❑ Etc.



Numerous actors of space education

- ☐ Primary/middle/high schools
- ☐ Universities
- ☐ Research centers
- ☐ International organizations
- ☐ Space agencies
- ☐ Etc.



- Very complex case
 - Each space agency has different attributions (~ coordinating national space efforts)
 - Education can be among its attributions, but never a core role
- Even if not its role, space agencies often have educational activities
 - CNES's Nanolab-Academy or PERSEUS
 - JAXA's KiboCUBE and APRSAF education WG activities
 - Etc.
- Need to identify and promote these opportunities



Objectives

- Identify and review space agencies' contributions to space education: **compendium of available opportunities**
- Put the spotlight and appreciate good practices with targeted **awards**
 - Sectoral awards: space utilization, space environment, etc.
 - Type awards: primary/secondary education, vocational training, etc.
 - “UNISEC partner of the year award”
- Encourage, acknowledge, not criticize



First research partner:



Numerous issues to address and points to clarify

- Focus on agencies, useful?
- Categories of opportunities included in the compendium (e.g. national, regional, global),
nature or type of awards
- Research partners for UNISEC-Global?
- Project process and timeline?



Implementation plan: pilot phase (June-December 2021)

- June-July 2021: Call for research partners and forming of a research group
 - Initial Partner: STIG (Science, Technology, and Innovation Governance) Education and Research Program, University of Tokyo
- July-September 2021: Setting up our methodological approach
- September-October 2021: Calling for volunteer space agencies to provide data sources on educational activities to test the methodology
- October-November 2021: Testing the methodology
- December 2021: Announcement of results of pilot phase at the APRSAF
- 2022 onwards: implementation phase of the project and annual output

Thank you for your attention

Get ready for the Breakout Session!