



**For the 18<sup>th</sup> exercise, three types of vehicles are proposed:**

- the first one is the same as for previous years. It is **dedicated to local suborbital flights** as Virgin Galactic's *SpaceShipTwo*

- the second one is a **suborbital hypersonic vehicle for point-to-point transportation** (taking less than two hours to travel from Paris to Tokyo, for example),

- the third one, proposed for the first time in the frame of the Challenge, is an **orbital vehicle servicing Low Earth orbit**

**Some of the proposed Work Packages (WPs) will only be applicable for one type of vehicle. For other WPs, you first will have to select the vehicle family you want to work on.**

Work Packages are dealing with different aspects of an aerospace programme. Information about the project and a list of subjects that can be approached are given.

Whatever the WP, the study has to show that the proposed solution is economically viable and

environnementally friendly. These two points will be part of evaluation criteria of final reports. As a matter of fact, these subjects are becoming more and more important in aerospace projects.

Proposed topics for 2022/2023 are:

- [WP1 - Applications](#)
- [WP2 - Promotion / Communication](#)
- [WP3 - Legal framework](#)
- [WP4 - Medicine](#)
- [WP5 - Reusable propulsion / Maintenance](#)
- [WP6 - Market analysis](#)
- [WP7 - Mission profile and Concept](#)
- [WP8 - Design of a low carbon sustainable vehicle](#)
- [WP9 - Commercial operations](#)
- [WP10 - Crew preparation and training](#)

You will justify the choice of your WP when you register, by explaining its consistency with your academic cursus, experience and motivations of members of the team.