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Aerospace Team Graz



Aerospace Team Graz -
Why and how students build rockets

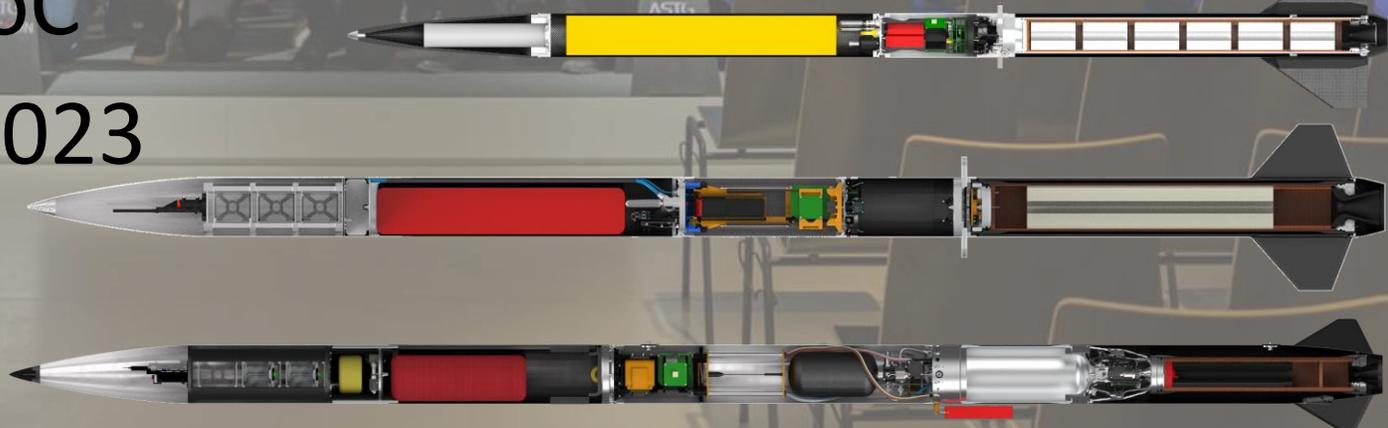
HALCYON - FLYOUT, 14.09.2023

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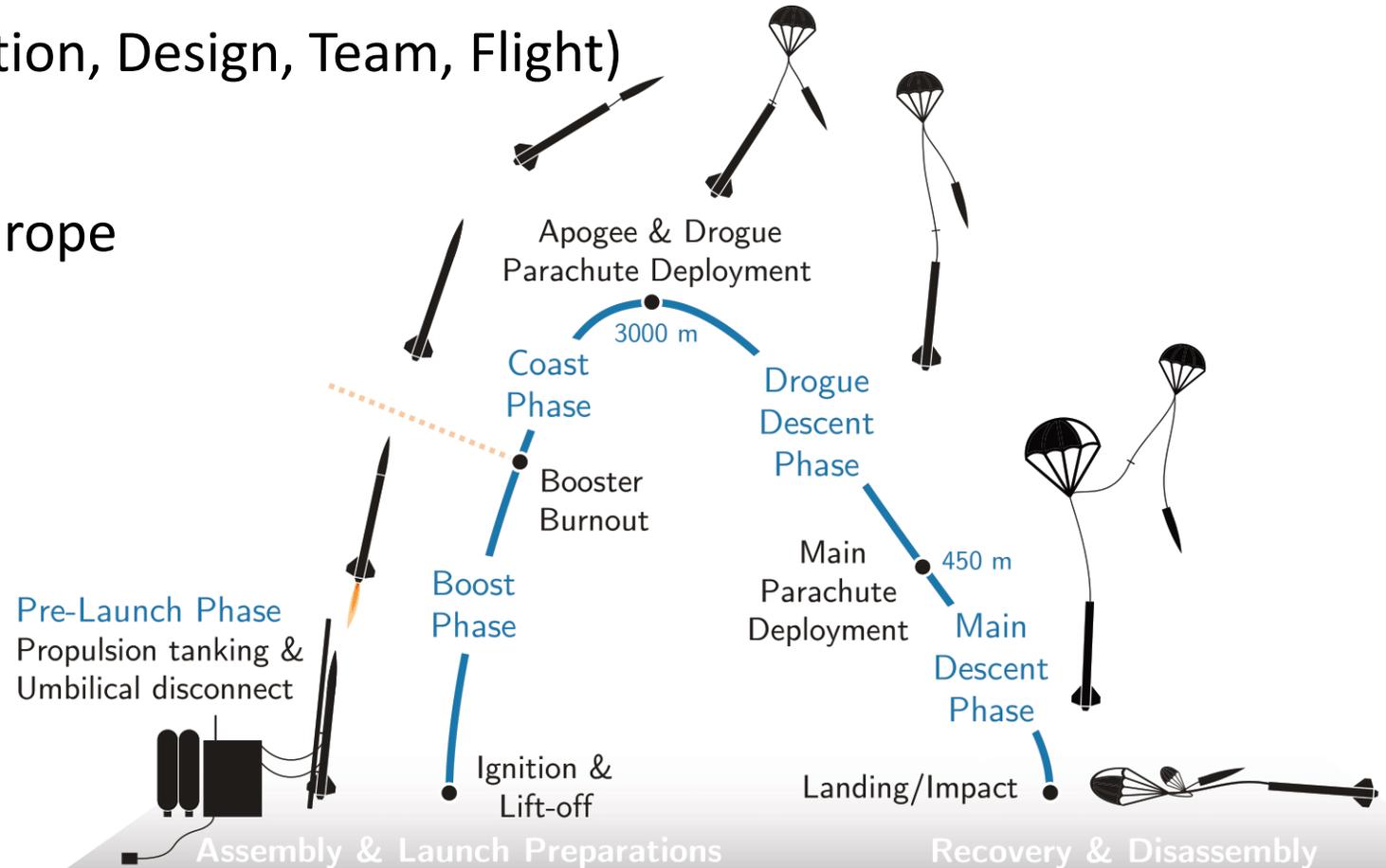
Aerospace Team Graz – Who are we?

- Founded in 2019
- 86 members
- 18 fields of study
- 3 competition rockets
- 5 awards at EuRoC
- Overall winner 2023



EuRoC – European Rocketry Challenge

- Goal: Carry scientific payload to exact target height
- 4 categories (Documentation, Design, Team, Flight)
- 45+ applications
- 25 teams from all over Europe
- 600 students



How do we build rockets?



Timeline





HALCYON



Payload: 3x1U CubeSats (4kg)

Diameter: 152 mm

Wet mass: 32 kg

Length: 3.6 m

Acceleration: 6g

Telemetry : 16 km

Mach 0.8

Burn time: 5 s

Impulse: 11000 Ns

Max. thrust: 2.5 kN



Why we build rockets:

- Knowledge → Application
- Project management
- Cooperations
- Passion for space



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