

HYBRID ENGINE



DEVELOPMENT

Revolutionizing Student Rocketry

Overview

1. What is HyEnD?

2. Project BLAST

3. Sponsoring

1 *What is HyEnD?*

Important Facts

100+

Students

2

**World Records
in a Row**

11

Rocket Launches

4500k+

**Working Hours
per Month**

8000+

**Follower
Social Media**

300k+

**Views
Social Media**

10+

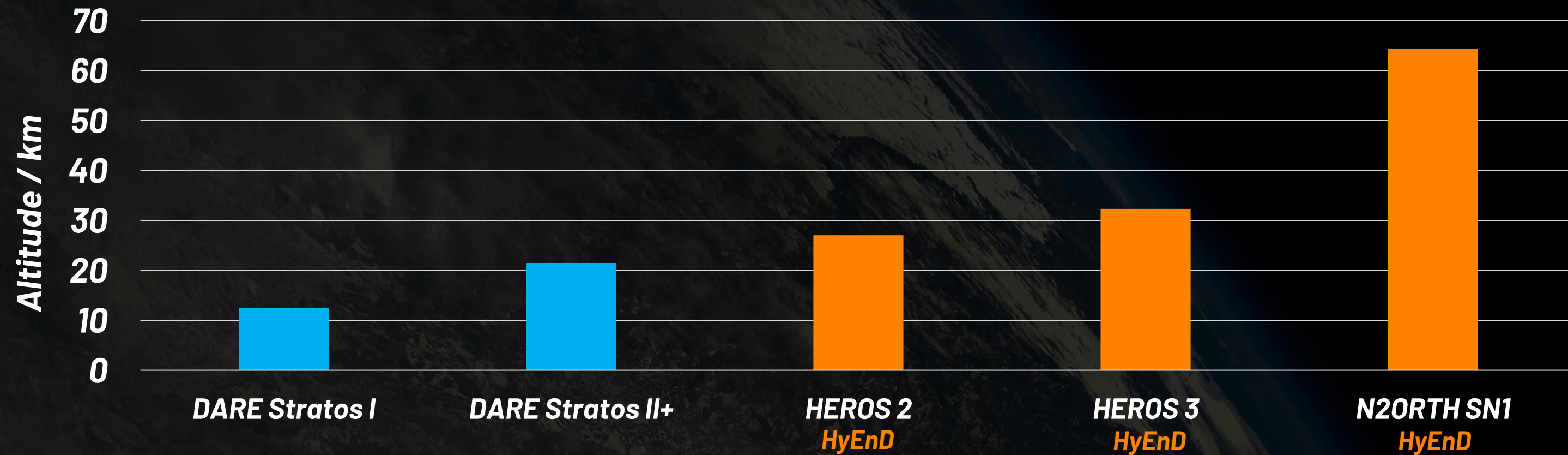
**Bachelor- and
Master Thesis**

25+

News Articles

1 What is HyEnD?

European Student Records

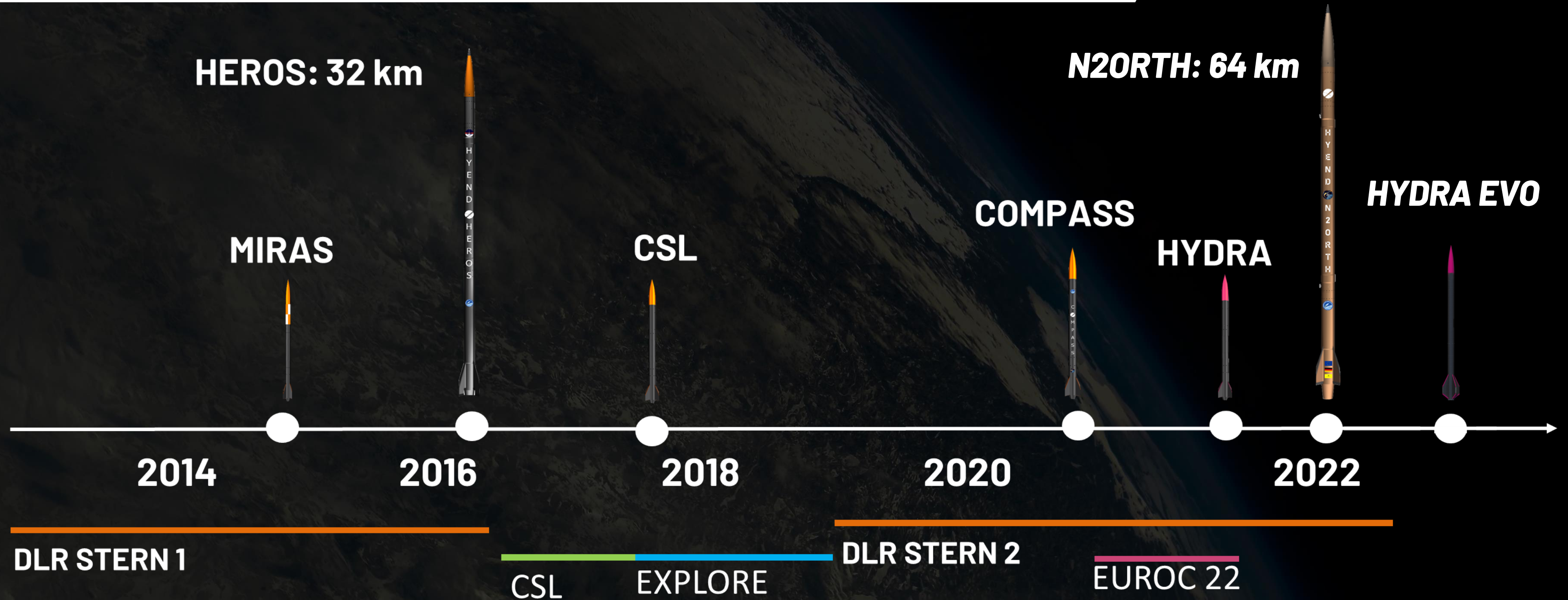


Two times in a Row:

- 1) **European Record** for student Rockets
- 2) **World Record** for student Hybrid Rockets

1 What is HyEnD?

Overview of Project history



1 *What is HyEnD?*

Structure of Subsystems



Structure



Engine



Recovery



Avionics



Fluid



GSE



Simulation

2 *Project BLAST*

Project Developments



**Sounding
Rocket**



**Liquid Engine:
Metal 3D Printing**



**Regeneratively cooled
Engine**



**Avionics
Computer**



**Operating
System**



**Lightweight Construction:
Carbon**



**Machine
Tools**



**Type V Pressure Vessel
(ahead of the curve)**



**Reefed
Parachute**



**Launch
Infrastructure**

2 *Projekt BLAST*

Goals of our Project

1. **Fundamental Research** Material Science
2. **Concept Study** Type V – Pressure Vessel
3. **Technology Demonstration** 3D printed – regeneratively cooled engine
4. **Exchange of Knowledge** Cooperation with BVSR, DLR & Industry
5. **Impact on Industry** political, technical und personell
6. **Education** Gaining practical Skills besides University

3 Sponsoring

Sponsor Categories

Bronze

> 500 €

- **Reference** on our Website
- **Donation Receipt**
- **Social Media Story**

Silver

> 2500 €

Previous Benefits +

- **Logo** on our Rocket
- **Job/Internship Postings** Notice Board & Mailing List
- **Social Media Post**
- **Invitation** to our Rollout (Unveiling Event)

Gold

> 5 000 €

Previous Benefits +

- **PR-Material Production**
- **Reference in Video Credits / Endcard**
- **Invitation to Starts** if possible

Platinum

> 10 000 €

Previous Benefits +

- **Large Logo** on our Rocket
- **Reference in Publications and Presentations**
- **Joint PR-Posts**
- **Invitation** to our Meeting / Workshop

Diamond

> 20 000 €

Previous Benefits +

- **Invitation to Tests** if possible
- **permanent Overlay** on all Posts/Videos
- **individual Statement** on Homepage
- **More on request**

3 *Sponsoring*

Information

If not otherwise specified, following Conditions apply :

Term:	1 Year
Contribution:	Monetary, In-kind Contribution
Multiplier:	The value of in-kind contribution is weighted with a Multiplier of 0.5
Logo:	Dimensions/Placement of Standard/Large Logo will be decided with the sponsor on in final production to ensure satisfactory visibility/coverage.

3 *Sponsoring*

Social Media Reach

 **YouTube**
Subs: 1 800
Views: 140 000

 **Instagram**
Follower: 2 500
Views: ø5 000 per Reel
In a Year

 **LinkedIn**
Follower: 1 400
Views: 160 000 In a
Year

Followers: Amateurs, Professionals and Students

International Name as two-time Record holder

→ huge Interest from Student Groups

HYBRID ENGINE



DEVELOPMENT

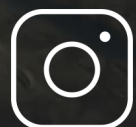
Contact



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[@hyend_uni_stuttgart](https://www.instagram.com/hyend_uni_stuttgart)



Hybrid Engine Development – HyEnD e.V.



[@HybridEngineDevelopment](https://www.youtube.com/@HybridEngineDevelopment)