

# Sustainability at Andøya Space

4<sup>th</sup> May - webinar sustainable space flight



Established 1962





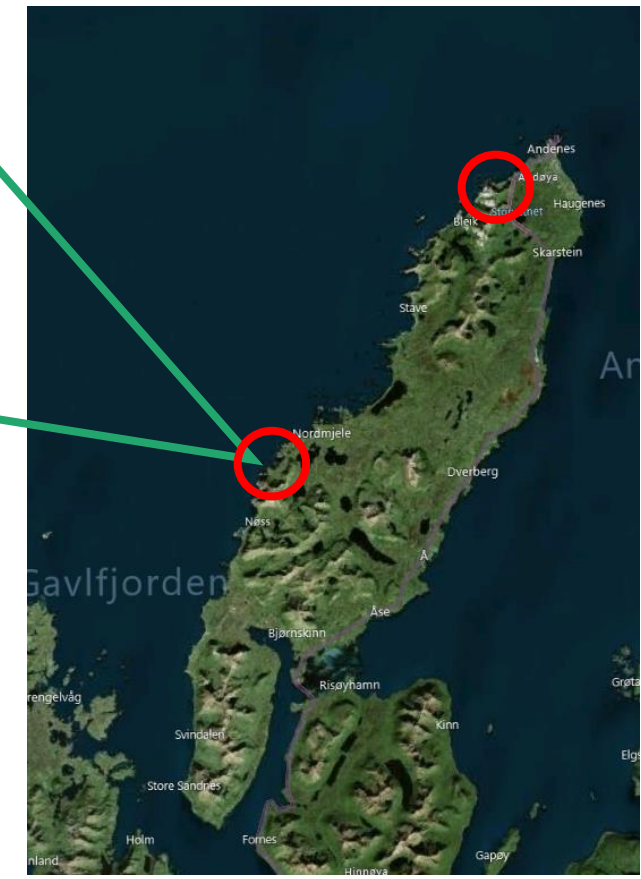


ANDØYA  
SPACE  
CENTER

We empower explorers



Andøya  
Space







Orbit inclination:  
87,4 – 108 degrees





# SUSTAINABLE DEVELOPMENT GOALS

<p><b>1</b> NO POVERTY</p>	<p><b>2</b> ZERO HUNGER</p>	<p><b>3</b> GOOD HEALTH AND WELL BEING</p>	<p><b>4</b> QUALITY EDUCATION</p>	<p><b>5</b> GENDER EQUALITY</p>	<p><b>6</b> CLEAN WATER AND SANITATION</p>
<p><b>7</b> AFFORDABLE AND CLEAN ENERGY</p>	<p><b>8</b> DECENT WORK AND ECONOMIC GROWTH</p>	<p><b>9</b> INDUSTRY, INNOVATION AND INFRASTRUCTURE</p>	<p><b>10</b> REDUCED INEQUALITIES</p>	<p><b>11</b> SUSTAINABLE CITIES AND COMMUNITIES</p>	<p><b>12</b> RESPONSIBLE CONSUMPTION AND PRODUCTION</p>
<p><b>13</b> CLIMATE ACTION</p>	<p><b>14</b> LIFE BELOW WATER</p>	<p><b>15</b> LIFE ON LAND</p>	<p><b>16</b> PEACE, JUSTICE AND STRONG INSTITUTIONS</p>	<p><b>17</b> PARTNERSHIPS FOR THE GOALS</p>	<p><b>SUSTAINABLE DEVELOPMENT GOALS</b></p>

## Contributing to the global 2030-agenda



1. To be ambitious in our approach to minimize and mitigate the negative impact on environment caused by our activities in all business areas
2. In a long-term perspective, we shall not only avoid “doing harm” but continue searching for ways to “do good” where possible

1. Minimize and mitigate  
our impact on the  
environment



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environment



Only through **knowledge** and **awareness** of our actions, will we be able to

- **reduce the negative impact**
- **increase the positive results**

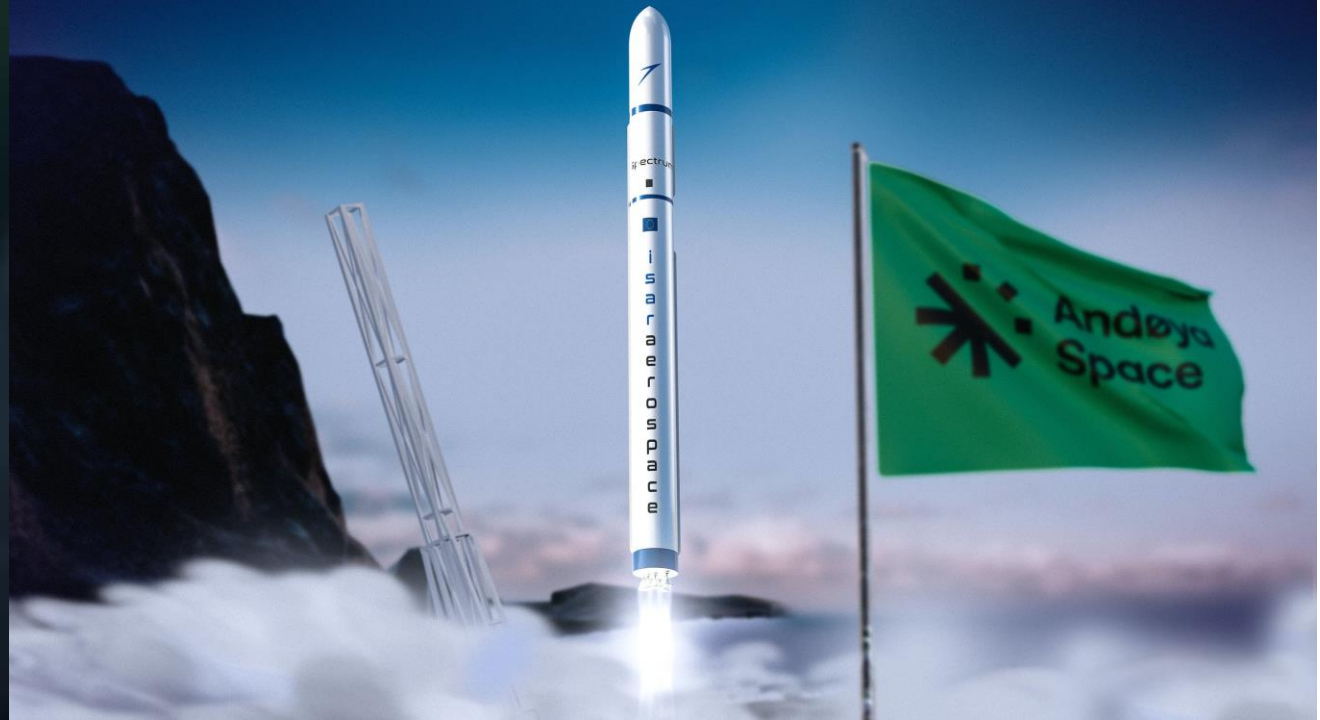
HANBIT – Nano

HANBIT – Micro

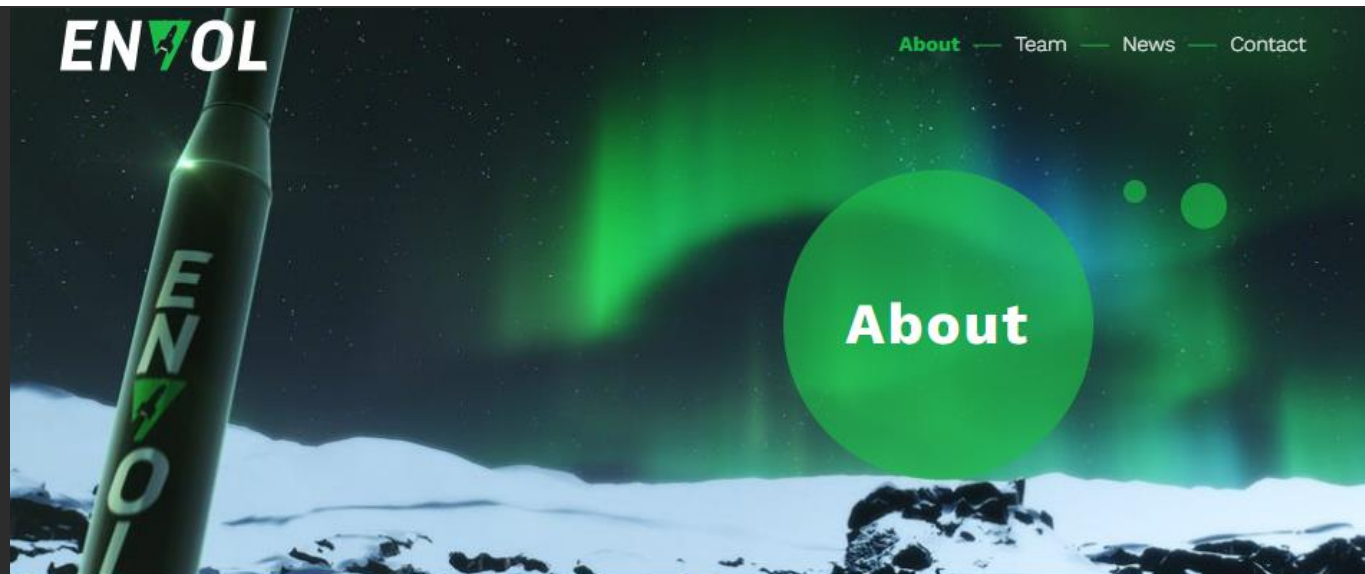
HANBIT – Mini

# A SPACE MOBILITY INNOVATION USING HYBRID ROCKET TECHNOLOGY

BOOK YOUR LAUNCHES



## 2. Enabling technology in space



- Our team truly believes that the ENVOL solution will fuel the NewSpace economy. An economy propelled by the rise of the private spaceflight industry and the increasing demand for low-cost and flexible launchers. The heart of our solution is a green propellant system and a highly efficient microlauncher – enabling affordable, reliable and agile launch campaigns.

## European NewSpace Vertical Orbital Launcher

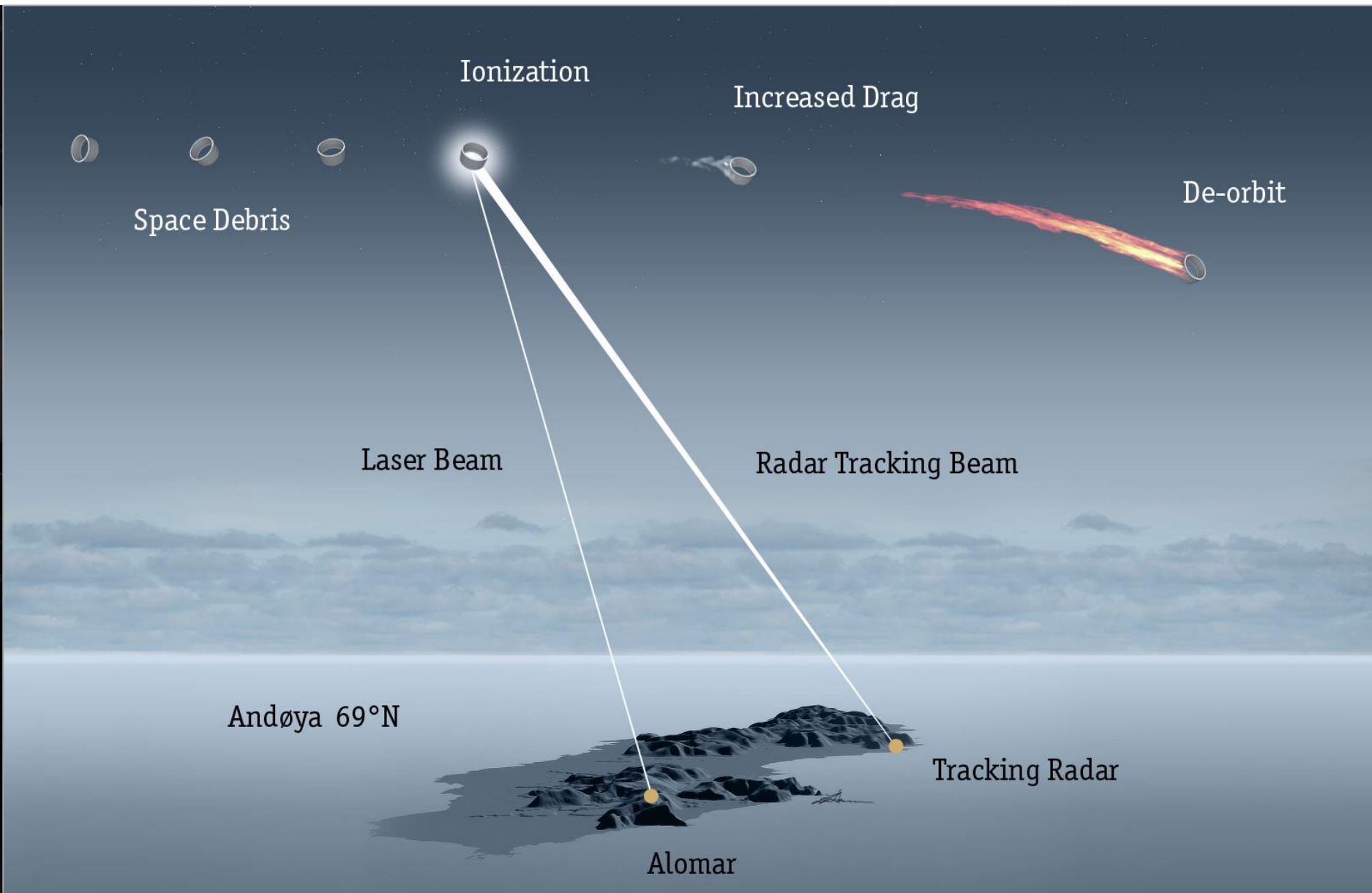
will develop a low-cost, green launch system to provide Europe with reliable, timely and frequent launches: lift-off 2024.

## 2. Enabling technology in space



# Case

Space debris



## Space Education 2.0



How can the commercial spaceport at Andøya **unlock new opportunities** for higher Space education in Norway and Europe?

What new facilities and programs can **complement existing** programs and facilities for universities, students and partners?

# NEWSPACE NORTH

A **unique location** for a commercial spaceport and an innovation center.

Welcome to Andøya.

MAX PAYLOAD TO ORBIT:  
**1500 KG**

MAX LENGTH:  
**30 M**

MAX DIAMETER:  
**2.5 M**

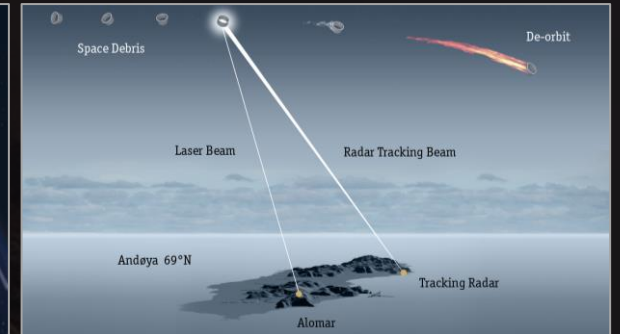


■ **Newspace North** will benefit from the close connection to the spaceport, creating a strong innovation environment for space technology and satellite operations

■ **Physical and digital** infrastructure will enable innovation programs and activities on and off site – in and outside of Norway.

■ **Founded** by Andøya Space, Siva, Andøy Technology Park and Nordland County Council in December 2021 – now we are ready to invite more into this new eco-system.

1. Investigating and mitigating our impact on the environment.
2. Enabling technology in space



Thank you for your attention!



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