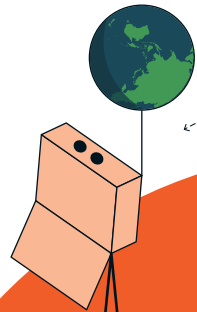




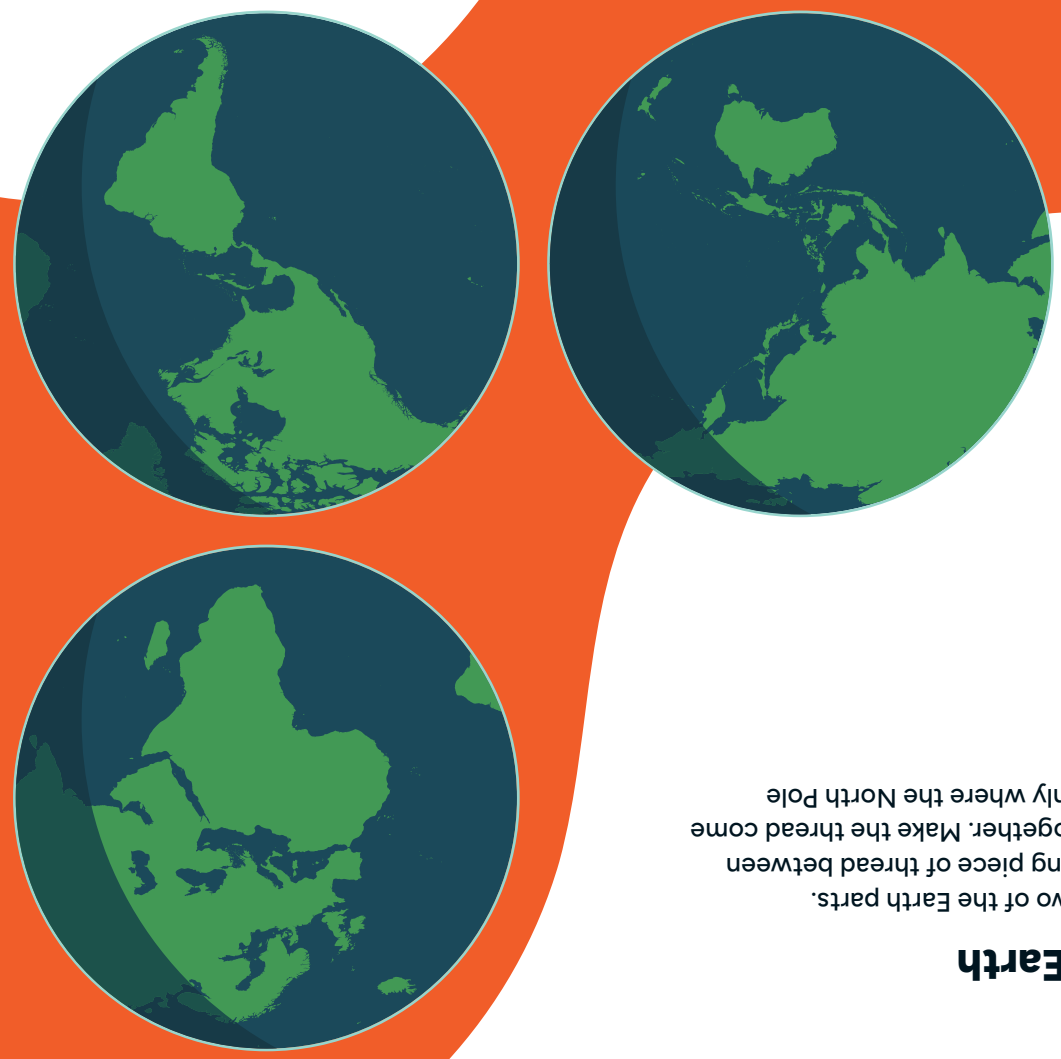
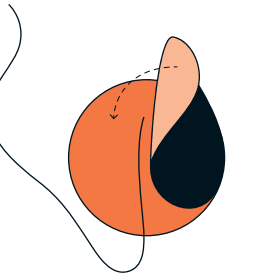
Build your own satellite

When you're done, it should look like this.



1 | Assemble Earth

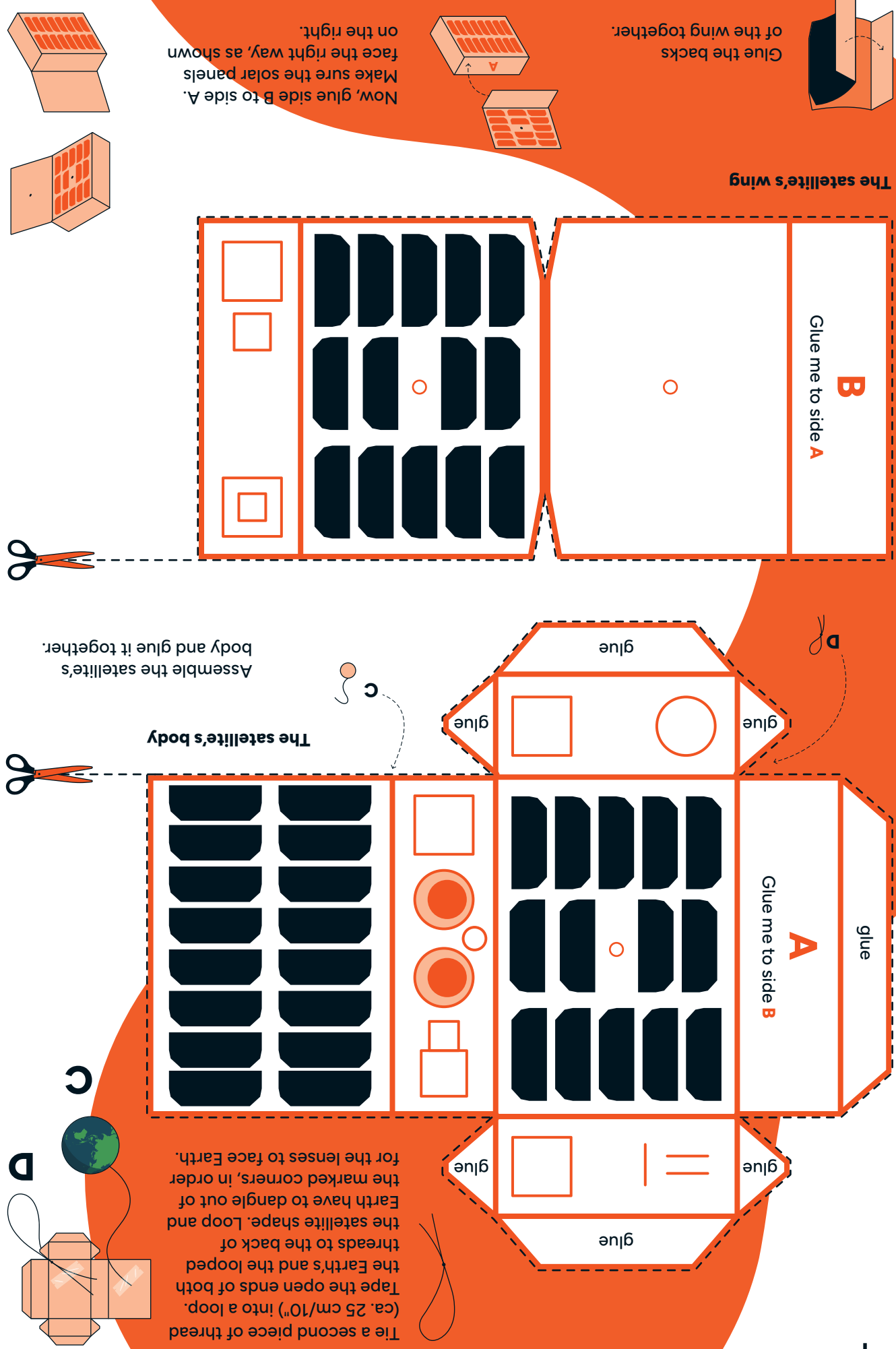
Choose and cut out two of the Earth parts. Place a ca. 15 cm/6" long piece of thread between them and glue them together. Make the thread come out at the top or roughly where the North Pole would be located.



- Materials you will need:**
- some thin, light or dark thread
 - a bottle of paper glue
 - a pair of scissors
 - two pieces of tape

fold along orange lines
cut along black dashed lines

2 | Assemble the HFS satellite



About OroraTech

OroraTech uses thermal intelligence, satellite technology and real-time insights to help first responders and decision-makers. Our actionable data safeguards communities, reduces risks, and helps build a more resilient future. Founded in 2018 in Munich, Germany, the company has grown into an international team of more than 160 people across Europe and North America, with offices in Munich (Germany), Athens (Greece), Denver, CO (USA) and Canada.

Our technology

OroraTech's wildfire constellation

- OroraTech LEO satellites
- Public satellites

Combined with:

- Ground-based cameras and sensors
- Aerial vehicles (Plane, UAV)
- Official fire data sources

AI-driven wildfire management

API access and customer data integration



Why is satellite data needed NOW?

Wildfires are escalating faster than traditional response systems can handle.

In 2024, around 13.5 million hectares (ca. the size of Greece) burned globally, while wildfire-related damages reached nearly US\$140 billion over the last decade. Fires can now double or triple in size in just over an hour, making real-time satellite intelligence critical for early response.

Climate change has fundamentally changed the risk landscape.

The probability of extreme fire years has nearly quadrupled, with some regions like Canada seeing fire risk increase 3–4x and the Amazon region up to 20–30x. Emergency services need live, continuous monitoring from space to respond effectively.

The economic and human impact is massive.

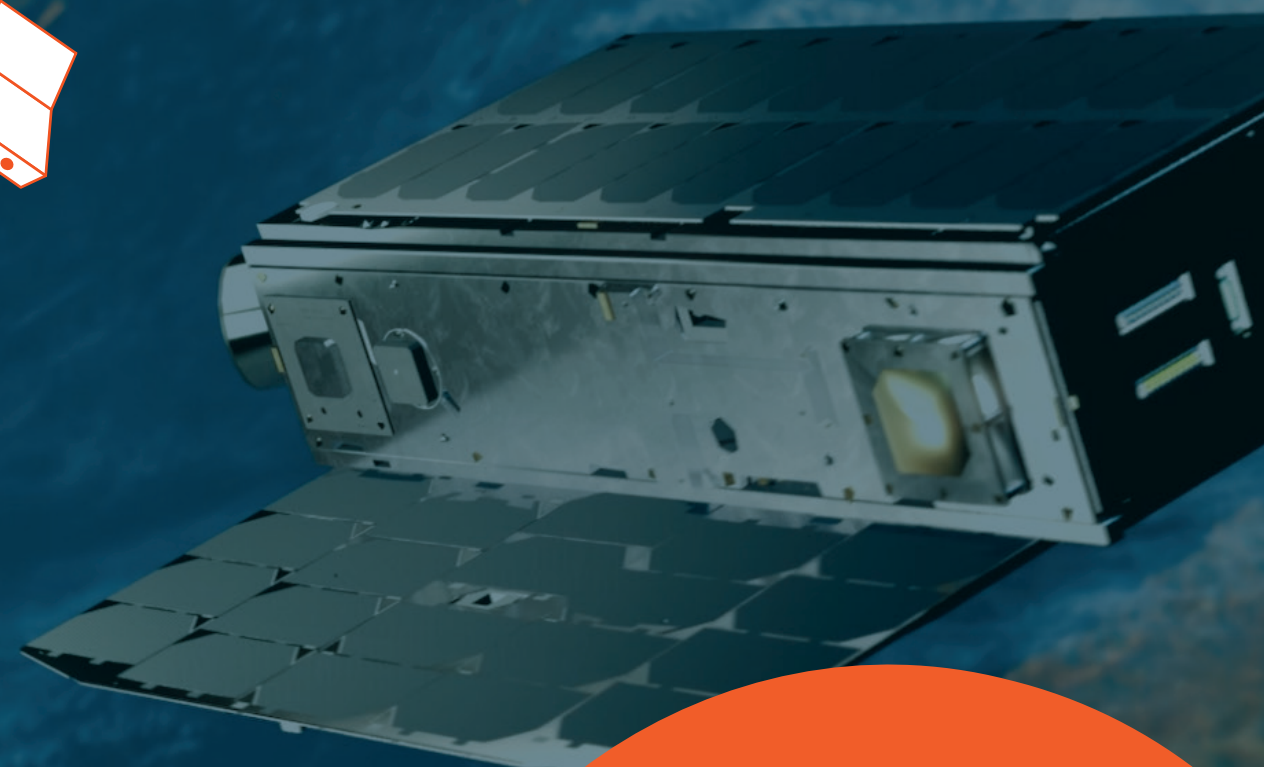
More than 1.5 million people die every year from wildfire smoke, while governments and industries face billions in losses from damaged infrastructure, disrupted operations, and insurance claims. Canada alone expects satellite-based early warning systems to help avoid US\$1–5 billion in economic damage over the next five years.

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OroraTech

Empowering heroes from space



Build your own wildfire satellite and join our mission!

Recent milestones on our mission

2025

OroraTech’s Constellation – Phase 1 (OTC-P1) – our first proprietary wildfire satellites

OroraTech launches its first constellation plane of proprietary wildfire monitoring satellites with Rocket Lab, marking the deployment of its own purpose-built space infrastructure.

Introduction of new satellite platform

OroraTech introduces GENA-OT-1, a next-generation platform enabling faster access to orbit and more flexible thermal intelligence missions.

Opening offices in Denver, USA and Athens, Greece

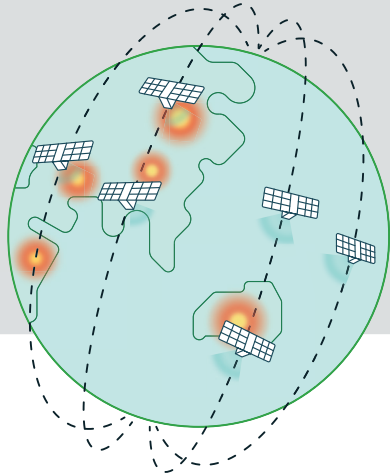
2026

First thermal livestream from space

In January we launched four SAFIRE Gen4 payloads aboard Kepler satellites, enabling the world’s first thermal livestream of Earth. Using on-orbit processing and inter-satellite communication, thermal data is delivered within minutes for near real-time wildfire detection.

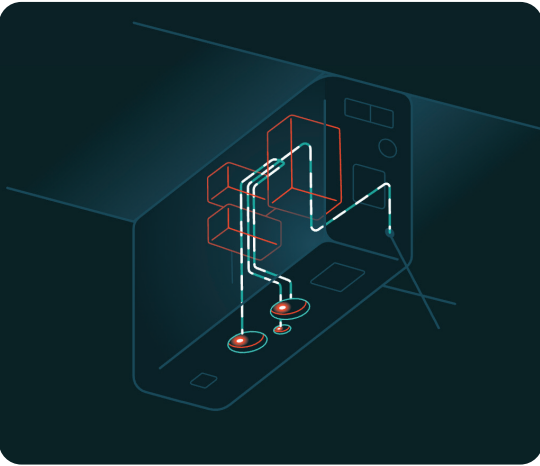
The world’s first national wildfire detection constellation – launch of the Hellenic Fire System

In spring 2026, OroraTech launched four in-house developed thermal satellites for Greece’s Hellenic Fire System, establishing the world’s first national wildfire detection constellation. The system enables near real-time data delivery and strengthens sovereign monitoring capabilities.



About our satellites

OroraTech’s satellites detect wildfires using thermal imaging cameras. The images captured in space are analyzed directly in orbit using AI.



The satellites are small CubeSats, roughly the size of a shoebox and weighing 10–15 kg.

The minimum detectable thermal event is as small as 3×3 meters (ca. 9.8 ft).

In a single flyover, the thermal cameras mounted on the satellites can cover 400 km in diameter – roughly the distance from London to Paris.



OroraTech currently has the largest privately owned thermal LEO orbit satellite fleet in the world. To ensure that our customers receive fire data from space every 15–30 minutes, we will expand from 19 to 100 operational satellites in orbit.



Each thermal camera covers 78 million square kilometers per day, an area roughly equivalent to the combined size of Europe and Australia.

Our teams in Munich receive and monitor satellite data, and control the satellites from a room called the “Mission Control Center.”

