GROUND INFRASTRUCTURE FOR EDUCATION AND PROFESSIONAL REMOTE SENSING APPLICATIONS

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WHO WE ARE

The founders and employees of **PLANET EARTH CREW** have 35+ years of experience in the field of creating technologies for receiving, processing and using satellite images. We are the team that creates demand for Direct Downlink Data Delivery.

COMPANY PRODUCTS & SERVICES

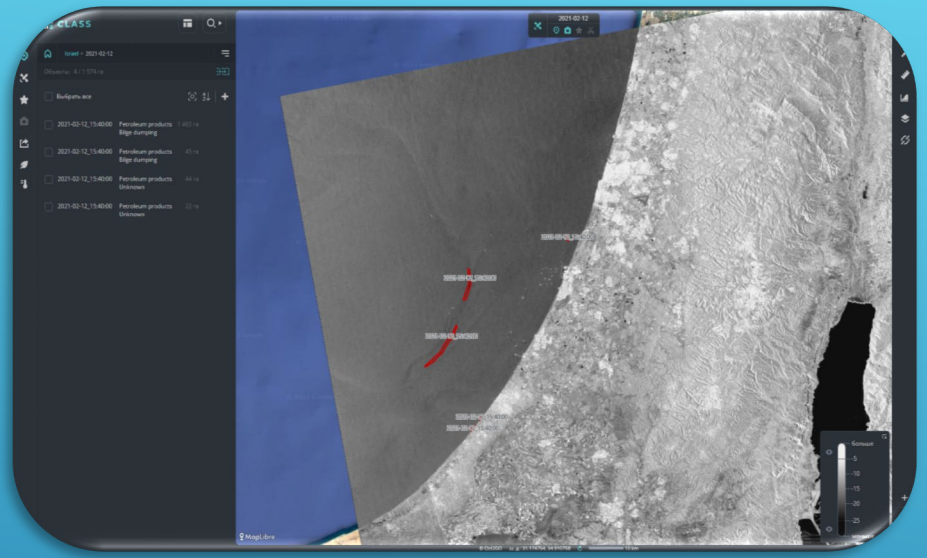
- Ground stations (GS) for professional application
- Services based on satellite images (oil spill monitoring, fire monitoring, receiving satellite data on our own complexes)
- Antennas and engineering kits for educational purposes

COMPANY PRODUCTS & SERVICES

- **Ground stations for professional application**
  - Our ground stations allow to provides unique opportunity to receive data from various Earth observation satellites directly to your workplace.
  - Complexes operate via radio channels in the X- and L- frequency ranges.
  - In the world of cloud services we save clients time and money by providing an independent platform together with satellite owners.

COMPANY PRODUCTS & SERVICES

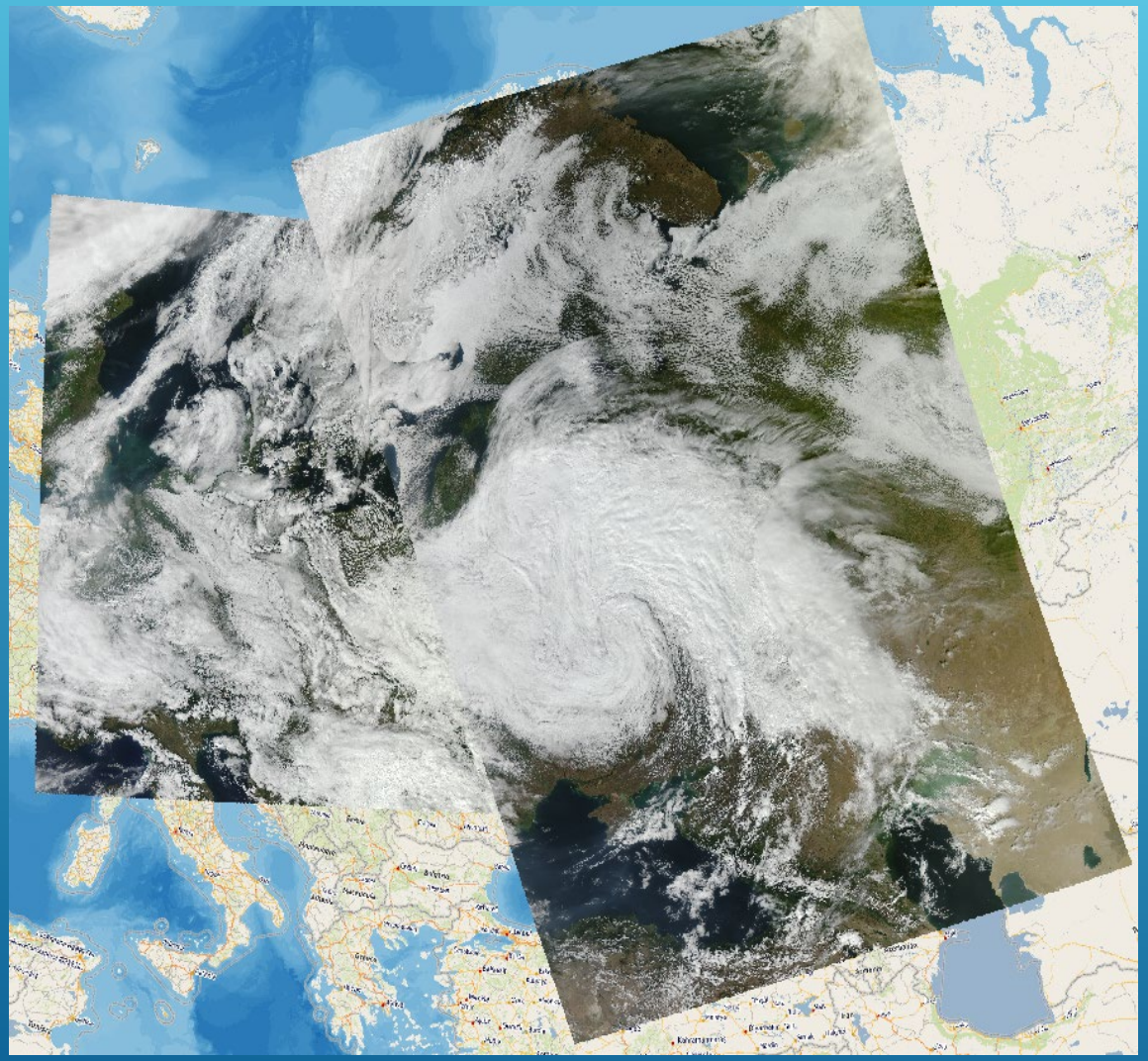
- **Services based on receiving satellite images with Zero latency**
  - receiving raw satellite data on our own complexes
  - oil spill monitoring
  - disasters and environmental monitoring



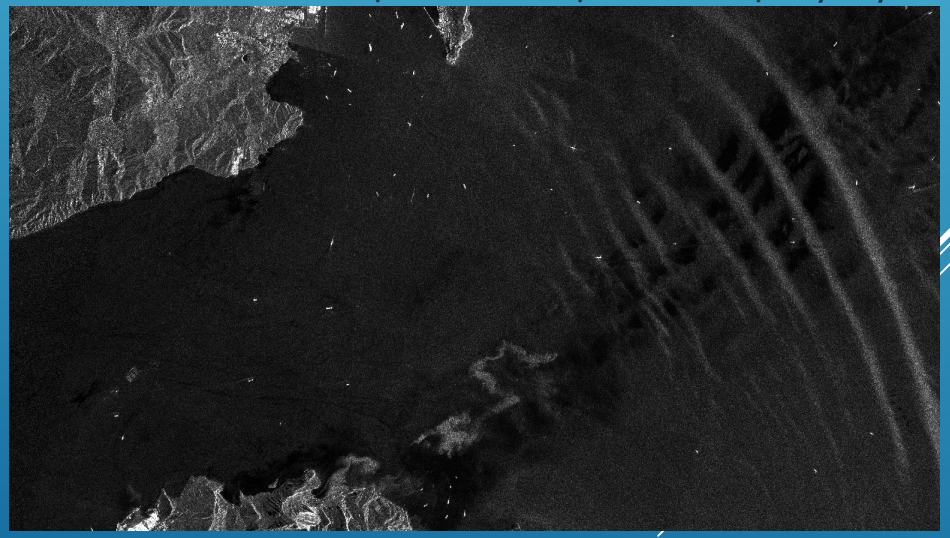
Oil spill monitoring

Fire monitoring

RECEIVING RAW SATELLITE DATA ON OUR OWN GROUND STATIONS



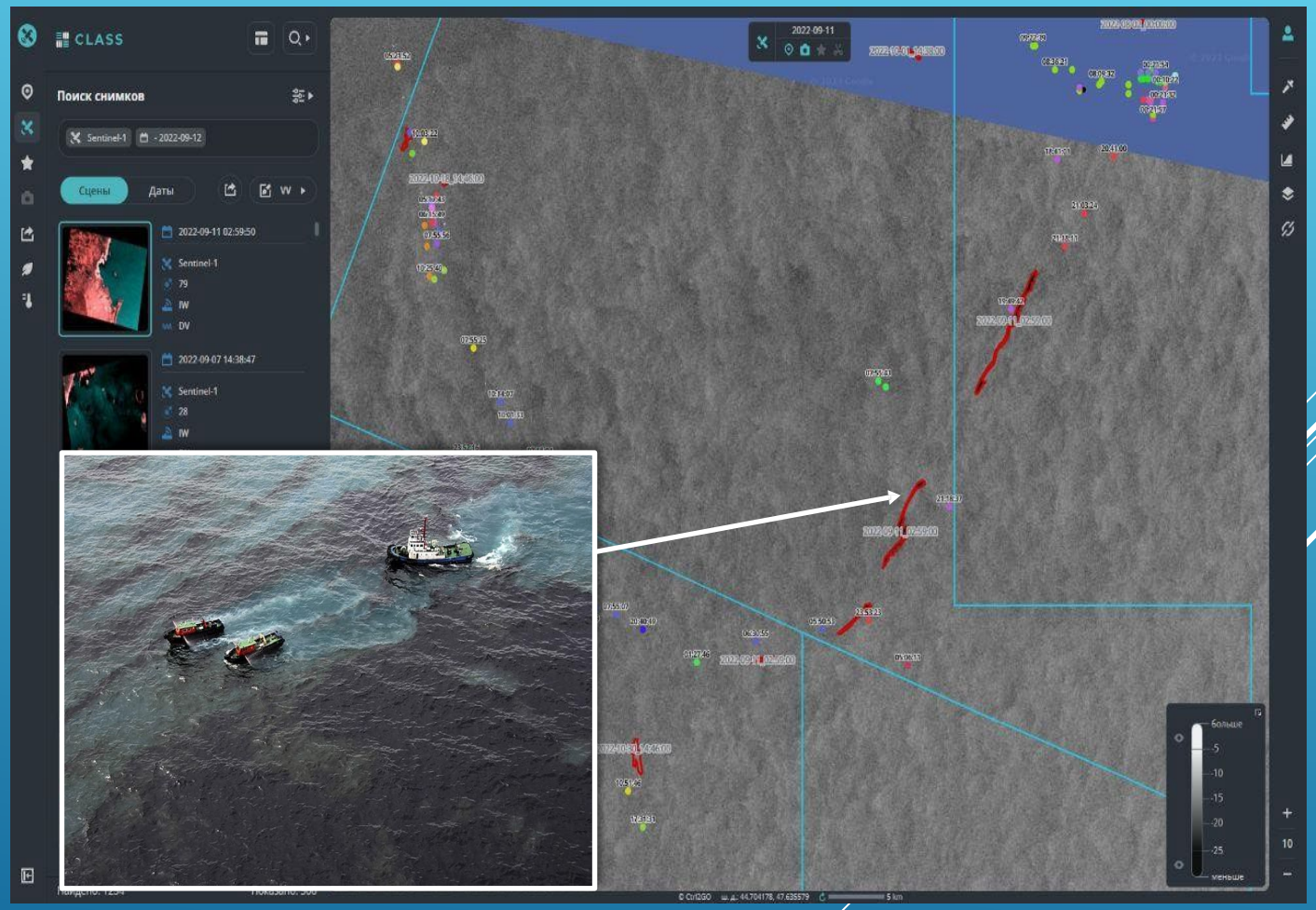
South Korea, Chaohu-1, SP mode, 13/06/2022



Strait of Gibraltar, HiSea-1, NS mode, 20/11/2021

OIL SPILL MONITORING

- Detection of oil spills,
- Determination of the size, configuration and direction of spots drift,
- Relevant information on the possible impact of oil spills on the environment,
- Assistance in assessing possible damage in case of emergency situations.



DISASTERS MONITORING (FIRES)

Satellite data allow for tracking the spread of fires in real-time, identifying ignition points, and monitoring and assessing the extent of wildfires. They also help determine optimal routes for fire suppression, preventing the spread of fires to new territories.

Terra 21/04/2024

Between 19th of April 2021 and 15th of April 2024 Turkey experienced a total of **32,465** VIIRS Alerts **fire alerts**. The **most fires** recorded in a year was **2015**, with 3,907.*

*Turkey Deforestation Rates & Statistics | GFW (globalforestwatch.org)

MISSION & GOAL

Our **mission** is to unite satellite operators to benefit the end customers, converging different capabilities to **provide a solution that truly meets customers needs**.

Our **goal** is to **decrease the price and latency delivery as well as simplify access to real-time viewing** of each local point.

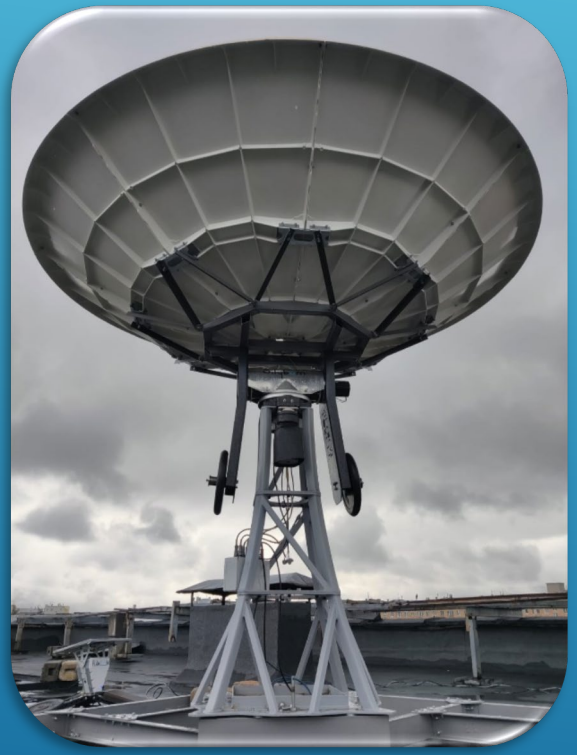
WHEN EVERY SECOND COUNTS

Using our ground stations **customer can access Earth images** over the area of 10 to 20 million square kilometers directly from satellite **within minutes** after its pass.

This approach is extremely important in the situation where time for decision making is critical.

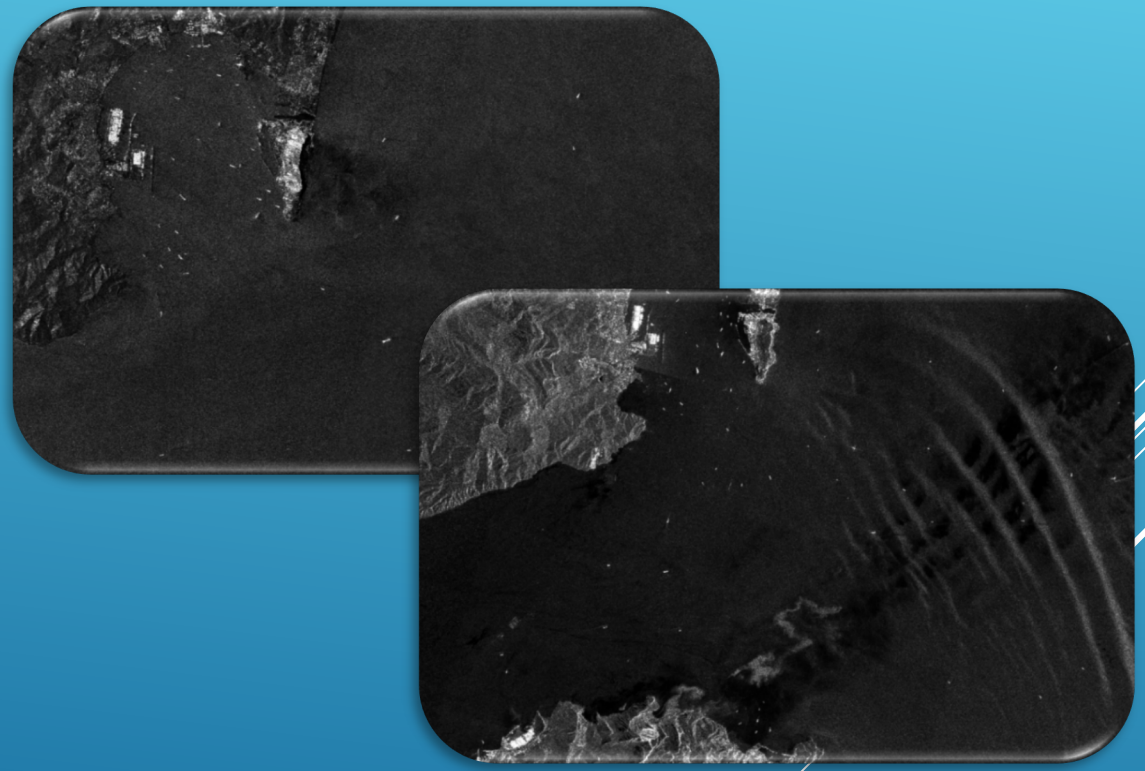
WE OFFER 2 OPTIONS

GS as a Product:



Universal hardware
for direct data acquisition

Platform as a Service:



Flexible software
for daily remaps of local area

COMPANY PRODUCTS & SERVICES

- **Antennas and engineering kits for educational purposes**

- Different types of equipment for students from primary school to university

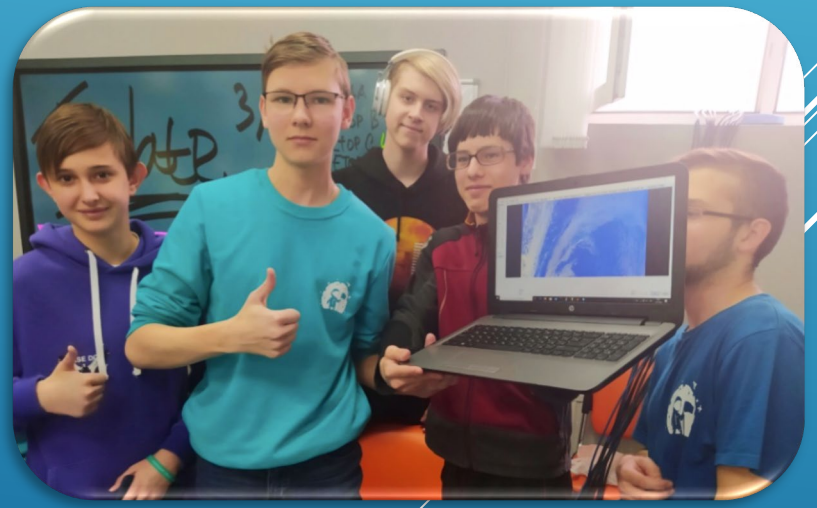
- Methodological support (courses for teachers, workshops, set of teaching materials for project activities, including assignments, archive satellite images and additional spatial data)

GIS-STEM EDUCATION

49% of the geospatial industry leaders said they **didn't think academic institutions were churning out industry-ready professionals.**

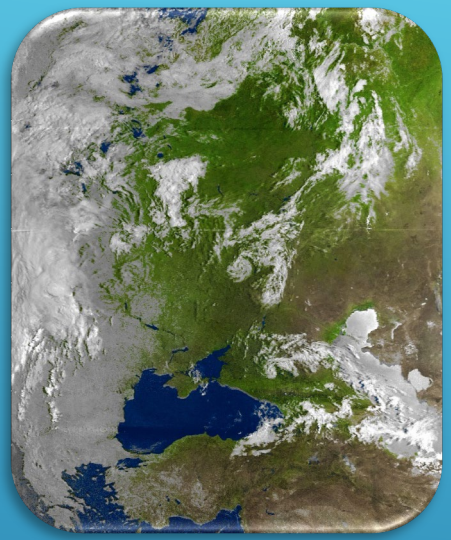
We transform academic knowledge into modern "living" science and offer the development of future competencies and technologies for an informed choice of a promising profession in demand.

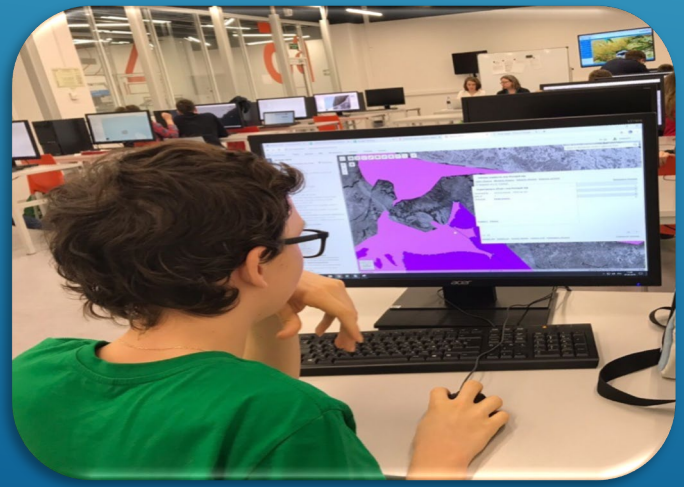
Our equipment and technologies provide the ability to receive Earth images from space in real time.



According to Geospatial World research (https://www.geospatialworld.net/article/geospatial-industry-lacks-skilled-workforce/)

LECTURES, MASTER-CLASSES, EXPRESS-PROJECTS, ONLINE FESTIVALS, WORKSHOPS





DIFFERENT GROUND STATIONS FOR VARIOUS EDUCATIONAL LEVELS

Primary school

Building a fundamental picture of the world. Earth images from space and their role in our life. Remote sensing data across most industries and professions.

Secondary school

Acquiring basic skills in working with satellite imagery from a perspective of different school disciplines. Early career guidance.

High school

Design research, engineering work and remote sensing data processing. Special education programs.

College

Pre-professional training. Interaction with universities of the corresponding direction.

University

Using the knowledge gained in the educational process and further practical activities. Formation of the mentoring institute for secondary schools and regional educational centers.

EDUCATIONAL OUTCOMES

WORKING WITH OUR TECHNOLOGIES, STUDENTS GET NEW KNOWLEDGE AND SKILLS

- mastering full-cycle skills from assembling and tuning a receiving antenna to obtaining a satellite image in real time and creating your own project in the field of using remote sensing data;
- obtaining new knowledge and skills in processing and analyzing images for weather forecasting and natural hazards, emergencies, ecology, agriculture, forestry and territory management
- acquiring skills in working with new technologies

SOFT SKILLS | ENGINEERING | ELECTRONICS

THEMATIC ANALYSYS | MOTIVATION TO LEARN | SOCIAL SIGNIFICANCE

THANK YOU FOR YOUR KIND ATTENTION!
YOU ARE WELCOME FOR COOPERATION!

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