The European Commission has launched the Copernicus Relays and Copernicus Academy as part of Copernicus User Uptake activities.

At present:
Copernicus Relays Network comprises 96 members from 33 countries
Copernicus Academy Network comprises 132 members from 33 countries.

In Bulgaria since the beginning of 2017:

**Copernicus Relays**
- GEO Polymorphic Cloud
- Risk Space Technology Transfer Office – Bulgarian Academy of Sciences

**Copernicus Academy**
- Space Research and Technology Institute at Bulgarian Academy of Sciences
- Sofia University St. Kliment Ohridski Department of Meteorology and Geophysics
ABOUT US

GEOpolyomorphic cloud

• NGO in geoinformation domain established Nov 2017;
• Founders – professionals with 20 years of experience;
• Copernicus Relays member – from 1st of Feb 2018;
• Main activities as Copernicus Relays:
WHAT WE DO AS COPERNICUS RELAYS

• Provide information on Copernicus status and possibilities through:
  - social media: GEO Polymorphic Cloud
    - All about Copernicus;
    - Copernicus and EO financial instruments;
    - Training and info tools;
    - Best practices and use cases;
    - Events info for the month...
WHAT WE DO AS COPERNICUS RELAYS

- Provide information on Copernicus status and possibilities through:
  - Our website: geopolymorphic-cloud.org
    - Programme overview;
    - Calendar of related events;
    - Use cases;
    - Copernicus Relays Information point
  - Organising seminars, workshops, info sessions:
    - General information on Copernicus and its components;
    - Targeted information based on user requirements

Ready to work with us:
copernicus@geopolymorphic-cloud.org
GSM: +359 (0) 878 110 230
Risk Space Technology Transfer Office – Bulgarian Academy of Sciences

OUR TEAM

- Space Physics
- Remote sensing
- Aerospace sys. & Technologies
- Observatory

CM & DR Policy
Security, Defence, CM Planning
Management & Coordination

SRTI – 45 years

CNSDR – 10 years
RST-TTO > National Copernicus Relays

Risk Space Technology Transfer Office – Bulgarian Academy of Sciences

OUR MISSION

Aero-space
TRANSFER SOLUTIONS

BAS

TTO

Universities

Gov. Sector

Private Sector

Public Sector

Research Centers– COEs, Labs...

Know-How

Technology

OUR VISION

RST Technology demonstration Projects

Multi-risk Analysis

UAVs survey

Critical methodology assessment infrastructure

Remote Sensing Applications

GIS Capabilities

Web Capabilities

Feasibility study and evaluation domain

Marketing and certification domain

Testing and demonstration domain
Risk Space Technology Transfer Office – Bulgarian Academy of Sciences

- Mapping of natural disasters
- Mapping of anthropogenic hazards
- Water quality monitoring
- Emergency
- Security
- Marine

Acad. G. Bonchev Str.
Block 1, Sofia 1113
Bulgaria
Phone: + 359 2 979-24-53
copernicus@rst-tto.com
http://www.rst-tto.com
The mission is the conduct of fundamental and applied studies in the field of Space Physics, Remote Sensing of the Earth and Planets, and Aerospace Systems and Technologies.

The priorities of SRTI-BAS are:
- Solar-Terrestrial and Space Physics (solar wind, magnetospheric and ionospheric physics, high and middle atmospheric physics, space weather);
- High-energy astrophysics, galactic cosmic rays;
- Medico-biological studies, space biotechnologies, heliobiology, telemedicine;
- Design, development and transfer of methods, instrumentation and technologies for remote sensing of the Earth, regional and global monitoring of the environment and security;
- Research in the field of obtaining and application of new superhard materials.
- Development of innovative aerospace instrumentation and technologies, as well as their transfer to economy.
- The organized participation of Bulgarian scientists in space research started in 1969;
- 1967-1976 participation in the INTERCOSMOS Programme, preparing experiments for the satellites “INTERCOSMOS–8” (IC-8, 1972), IC-12, IC-14, IC-19 and the heavy geophysical rockets VERTICAL-3, 4, 6, 7, 10. After launch of first Bulgarian equipment P-1 with the satellite Intercosmos-8 Bulgaria became the 18-th space country;
- 1979 Bulgaria prepared its first cosmonaut Georgi Ivanov for the flight onboard of “Soyuz-33”;
- In 1981 Bulgaria organized and implemented two satellite programs: “BULGARIA 1300-I” (for studies in the field of space physics) and “METEOR-PRIRODA” (for remote sensing of the Earth);
- 1988 - the second Bulgarian cosmonaut Aleksandar Aleksandrov. SRTI-BAS prepared more than 42 experiments and 12 onboard systems.
- Since 2005 STRI-BAS has participated with 15 instruments in the scientific programs of: 4 manned space flights (4 instr.) – 1 at ESA Columbus and 3 at the Russian segment of ISS 1 Moon spacecraft (1 instr.) – Chandrayaan-1 2 spacecrafts (3 instr.) - Foton M2/3 2 HotPay rockets (2 instr.), 1 balloon (1 instr.), flight and many airplane flights (4 instr.)
Copernicus Academy activities at SRTI-BAS

- Member of: lower education working group of Copernicus Academy;
- Participation in the monthly teleconferences;
- **Past activities:** EEOBSS Summer School (8-12 September 2017, 7th SS Kuzman Shapkarev – Blagoevgrad), EEOBSS Workshop (within EEOBSS project – ESA-PECS, 13 September 2017, Blagoevgrad);
- EEOBSS Open Day and a round table organized within ‘Space school’ initiative during SES’2017 (2 November 2017, RCIC-Sofia);
- Mr. Udrivolf Pica - invited keynote speaker at the opening ceremony of SES’2017, 2 November 2017.
- **Fore coming:** In May 2018 – participation with a booth in Zone 42 on Sofia Science Festival (organized by British Council) in Sofia Tech-Park: https://www.britishcouncil.bg/sofia-science-festival/experiments/zone-42
Today Sofia University is the biggest and most prestigious scientific hub in the country. It has 16 faculties with 107 special subjects being taught. The Department of Meteorology and Geophysics takes part of the Faculty of Physics, it was recognized as an independent academic body in 1946, and however lectures on Meteorology have been read since 1889.

The staff in the Department consists of highly qualified specialists in various fields of the Earth sciences – meteorology, geophysics, oceanography.

We teach at 3 levels:
• BSc in Astrophysics, Meteorology and Geophysics
• MSc in Meteorology; MSc in Geophysics
• PhD In Meteorology; PhD in Physics of Ocean and Atmosphere

Contact us: http://mg.phys.uni-sofia.bg
Activities held in Copernicus Academy

• Lecture "Copernicus Program takes care of the planet"
  Faculty of Physics Open-door Day,
  22 April 2017, Faculty of Physics, Sofia University St. Kliment Ohridski

• Lecture "Remote sensing of Earth from the Space"
  Summer School for Natural Science Teachers "Space and Earth",
  10 - 14 July 2017, Faculty of Physics, Sofia University St. Kliment Ohridski

• Lecture “The Earth Observers from the Space – Copernicus Program”
  Club “Geia” regular gathering
  27 October 2017, Education and Training Center of Students and Teachers
  Faculty of Physics, Sofia University St. Kliment Ohridski

• Lecture “Copernicus Program: a Sight of Earth from Space”
  Workshop on Astronomy regular gathering
  1 February 2018, Faculty of Physics, Sofia University St. Kliment Ohridski

• Lecture “The Black Sea Monitoring and Forecasting Center in the frames of Copernicus Program”
  Faculty of Physics Open-door Day,
  28 April 2018, Faculty of Physics, Sofia University St. Kliment Ohridski

• Ongoing: use of Program Copernicus educational materials, products and data in the university courses on “Physics of Climate”, “Satellite Information in the Synoptic Analysis” “Remote Sensing of Earth”, “Numerical Methods in Meteorology and Geophysics” (BS: Degree in Astrophysics, Meteorology and Geophysics, MSc. Degree in Meteorology)