EDU-ARCTIC

EXPERIENCE FROM PROJECT COORDINATION

15 Oct 2019, Warsaw

Funding: EU Horizon 2020  
Budget: ca. 1 800 000 EUR  
Period: May 2016 - July 2019

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CALL: H2020-SEAC-2015-1
ENGAGING STUDENTS IN STEM EDUCATION THROUGH ARCTIC RESEARCH

EDU-ARCTIC Objectives:

• To encourage interest in science, technology, engineering and mathematics (STEM) education to secondary school students

• To provide an innovative and supportive educational program, accessible to schools, educators and students across Europe and beyond

• To establish strong links between the research and education communities by connecting schools to scientists at Arctic research stations and research institutes throughout Europe
EDU-ARCTIC CONSORTIUM

Partners:

American Systems Ltd., Poland

Arctic Portal, Iceland

Institute of Geophysics Polish Academy of Sciences, Poland, Project leader

Faroe Islands Nature Investigation, Faroe Islands

Norwegian Institute of Bioeconomy, Norway

Université de Versailles Saint-Quentin-en-Yvelines, France

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BUILDING A CONSORTIUM

- **What is the role of each beneficiary?**
- **How each beneficiary fits to the Consortium?**
- **Why each beneficiary wants to be a part of the Consortium?**
- **Experience in realisation of EC projects**

Never, ever, ever give up
PARTICIPATING ARCTIC RESEARCH STATIONS

- Polish Polar Station Hornsund (Spitsbergen)
- Karholl research station (Iceland)
- Faroe Islands Nature Investigation (Faroe Islands)
- NIBIO Svanhovd (Norway)
PREPARING A PROPOSAL

Find a unique idea

Don’t promise unrealistic achievements

Be specific and precise

Be flexible

Think of timetable, deliverables and milestones

DO NOT OVERLOOK ETHICS
MIND THE IMPACT!

Company helping in writing proposals?

Help from NCP

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COOPERATION WITH REA/EC

Project Officer
• Follow comments and feedback
• Ask for advice

Communication
• Communicate about any problems, delays, changes
• Provide good reasons for changes, additions (if any)

Changes
• Inform in advance
• Request Amendment to GA, if necessary
## COMMUNICATION

### Inside the Consortium (Management)
- Meet with partners frequently
- Discuss online
- Inspire partners’ motivation
- Make sure that they know **WHY, HOW and WHAT** they do

### Outside the Consortium (Communication and dissemination)
- Start early (even before the official beginning)
- Demonstrate **WHY** you implement your project
- Inform your target groups on benefits - in a simple way

### Among various Consortia and institutions (Networking)
- Find other initiatives, which may help you reach target groups (e.g. Scientix)
- Co-organise joint events (cost-effectiveness)
- Share experience
EDU-ARCTIC: 1200+ teachers from 60+ countries

Recruitment strategy
Regions Networking Dissemination
Strong links with other projekts
TRANSFORMING ARCTIC KNOWLEDGE INTO SKILLS

Program Components:

**ONLINE LESSONS**
Virtual classes from Arctic research stations by scientists

**ARCTIC COMPETITIONS**
A chance for students and their teachers to win a trip to an Arctic research station

**EDUCATOR TRAINING SESSIONS**
An EDU-ARCTIC Forum will be held in 3 European countries

**MONITORING SYSTEM**
Citizen science environmental monitoring carried out at participating schools

**POLARPEDIA**
Encyclopaedia about the Arctic region, explaining polar phenomena and scientific terminology

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ARCTIC COMPETITIONS
- 3 editions of Arctic Competitions
- 277 competing teams
- 6 expeditions to polar stations in Iceland, Northern Norway, Faroe Islands and Svalbard

ONLINE LESSONS
- 500+ lessons
- Various topics: glaciology, geology, microbiology, ecology, climate change, toxicology, indigenous people, Arctic exploration technology, life and work at polar stations

EDUCATOR TRAINING SESSIONS
- 3 Educators' Fora (Warsaw, Paris, Oslo)
- ~ 70 project ambassadors from all over Europe

MONITORING SYSTEM
- various meteorological and phenological parameters
- results: database & maps (2200+ reports)
- Illustrated manual dedicated to observations
- Mobile app - awards for regular submissions, photos

POLARPEDIA
- ~ 500 polar and STEM-related terms, games and quizzes
- 16 language versions

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ONLINE LESSONS

Available to all participating schools

Virtual classes with researchers from Arctic research stations

Webinars with experts in Arctic research and Earth sciences from research institutions in Europe

Straight from the Arctic: transmissions, virtual walks

Wide variety of natural science topics:

environmental sciences, geophysics (seismology, Earth magnetism), geology, geomorphology, climatology, climate change, atmospheric chemistry and physics, hydrology, ecology, soil science, oceanography, microbiology, marine, biology, biodiversity, paleoecology, limnology, anthropology, the sociology of Arctic regions, human biology and medicine, genetics, zoology, biology and to some extent socio-humanities
EDU-ARCTIC PROJECT WEBSITE AND PORTAL
Our guest webinars were e.g.:

Paradox of mathematics
Michał Zwierzyński
Warsaw University of technology

The Tea Horse Road
Jeff Fuchs
Explorer

Why the Arctic is a laboratory of contemporary international relations
Michał Łuszczuk
Maria Curie-Skłodowska University in Lublin

Flight of the swans
Paweł Sidło
Ptki Polskie (NGO) Ornithologist

The Andes
Dario Trombotto
University of EMendoza
EDU-ARCTIC provides educators the skills and tools they need to succeed!

EDU-ARCTIC organized three Educator training sessions - one each in different parts of Europe (Poland, France, Norway)

Fora train teachers so they can make the best use of EDU-ARCTIC materials in their science, technology, engineering and mathematics classes
LAST BUT NOT LEAST: ARCTIC COMPETITIONS

Win a trip to an Arctic research station!

THREE competitions organized via the EDU-ARCTIC web portal during the course of the project (2017-19) – one extra

Winners have the possibility to visit and work at an Arctic research station

Students from all over Europe eligible to take part
Schools can take part in citizen science!

Teachers and students monitor the environment around their school, make observations and collect data

Monitor weather, snow and ice cover, bird migration, flowering of plants, etc.

Data uploaded to EDU-ARCTIC web portal

Available to all participating schools

Mobile app
An easy Arctic reference guide for students and educators!

Encyclopaedia about the Arctic region, explaining polar phenomena and scientific terminology – 400+ terms, 16 language versions)

Web-based encyclopaedia about the polar regions to facilitate scientific learning activities

Explains natural processes and phenomena in formats interesting to children and young adults

Short movies

Interactive animations
BONUS ACTIVITIES

Inspired by participants’ feedback and ideas

ONLINE LESSONS

Thematic courses, a comprehensive series of complementary topics. Each course has a set day of week and hour, available to include into school practice and curriculum.

MONITORING SYSTEM

EDU-ARCTIC MONITORING SYSTEM MOBILE APP

Mobile version, available for all citizens from any location.
Gamification
Photos can be added.

ARCTIC COMPETITIONS

EDU-ARCTIC EXPEDITIONS

Additional 3rd edition
Promoting team work by inviting teams consisting of up to 2 students and a teacher.
THE ARCTIC EXPLORER Mobile Quiz inspired by finalist from 2018 edition.

POLARPEDIA

10 additional national language versions thanks to teachers’ contribution.
Sustainable educational resources in form of games and quizzes, hands-on activities, online tools, boardgames, experiment scenarios and quests.

www.edu-arctic.eu
• Norwegian Grants (with Norway and Iceland)

• National funding – Arctic Science Ministerial

• Horizon2020 – educational components in other funding schemes – e.g. INTERACT III - H2020-INFRAIA-2019-1

• Sharing resources: SCIENTIX
THANK YOU FOR ATTENTION

Facebook: facebook.com/eduarctic/

Twitter: @eduartic

Instagram: eduartic

QUESTIONS? CONTACT US!

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