

Germany (University of Cologne)

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Organization and Number of Staff:

University of Cologne, ca 5800

Funding by:

State of North Rhine-Westphalia, Third party funds (EU-H2020 PULCHRA Project (No 824466), EU-EFRE CUBiC Project, project funding but no specific GLOBE funds

Cooperating Organizations/Individuals:

PULCHRA Partners, Local / regional school network of University of Cologne

GLOBE Schools (what types, how many):

New school participants in PULCHRA, CUBiC, Waldklima Project are informed and trained in GLOBE approaches: 6 schools from Junior High to High school in PULCHRA project context + 1 additional being trained + cooperating partners in Pune / India,

GLOBE Areas you and schools focus on:

The method of science, climate and water research, climate change mitigation and participation

Number of Schools Reporting Data over Past Year:

Program Implementation, International Cooperation in GLOBE Network, and Activities over Past Year (categorized by GLOBE Strategic Plan 2018-2023 Goals):

1. Education

NEARPOD training on GLOBE and PULCHRA in the context of a SCERT workshop Pune/ India: see <https://app.nearpod.com/?pin=p2jhn>

2. Science

GLOBE specific research in the frame of 3 research projects at international (PULCHRA), national (WaldKlima) and local (CUBiC) level
<https://geographie.uni-koeln.de/en/research/working-groups/hydrogeography-and-climatology/research-projects/research-projects>

3. Community

Several climate excursions using GLOBE protocols to explore the climate character of urban areas

4. Technology

Development of smartphone and sensor technologies as well as experiments to understand protocol based environmental monitoring and experiment-based climate research
<https://geographie.uni-koeln.de/oeffentlichkeit/buergerwissenschaften-mit-smartphones/app-uebersicht>

Low cost air quality and soil moisture sensor development

5. Communications

Several trainings, newspaper articles, presentations on IBL approaches with GLOBE / PULCHRA.
Smartphone applications in community based environmental research / citizen science
UoC website: <https://geographie.uni-koeln.de/en/outreach/GLOBEuzk-science-education-for-pre-service-teachers-and-schools>

Plans and Ideas for Next Year:

With the end of the GLOBE@UoC project funded by the University of Cologne the direct support of GLOBE at Univ of Cologne in terms of dedicated education programs has ended. Funding thus is limited to related research projects of PULCHRA, CUBiK and Waldklima. Special classes on GLOBE approaches are not possible any more, instead these approaches are integrated into other teacher education classes.

Students who have participated in previous GLOBE classes at UoC are now joining the workforce and establishing the programs at their schools. The future activities will be related to maintaining and developing these networks and support young teachers in their endeavor to implement GLOBE at their schools.

In the context of abovementioned projects new school networks are in the process of being established. These schools will be equipped with DAVIS weather stations and will be reporting weather data. Utilizing this approach will provide an incentive for these schools to start GLOBE at their school.