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Urban Resilience and Adaptation for India and Mongolia:
curricula, capacity, ICT and stakeholder collaboration to support green & blue infrastructure and nature-based solutions
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A BRIEF REPORT ON THE PROJECT IMPACT ON NATIONAL AND INTERNATIONAL LEVEL

The URGENT project has been implemented in Mongolia between 2021 and 2024 with collaboration of 15 institutes from Germany, Estonia, Italy and India.

<https://urgent-project.net/en/php/index.php>

There are several impacts on national and international level, including:

1. Shareable equipment

Under the project, 6 common useable equipment were purchased, including a drone for aerial survey, water level meter for groundwater depth measurement, water quality meter for 6 variables measurement in field, interval sampler for groundwater sampling, sound level meter for in-out door noise detection, and air quality meter in-out door 5 variables measurement in field. How to use video tutorials prepared and uploaded the website of the university laboratory. These equipment are freely used non-project partners (outside of the university). Someone who wants to use it i) should watch and learn how to use it, ii) need to fill and send a request form, and iii) receive and use it.

How to use video guidelines:

1. Drone <https://youtu.be/KWfFNvUbfGg?si=82qS-Pgd5EbagvWg>
2. Air quality meter https://youtu.be/XnYODPjIZxQ?si=_gof6Pb1HK6io-he
3. Multiple water quality meter <https://youtu.be/MuM1lIN9m5A?si=8nc4W9GhhItaNIrI>
4. Discrete interval sampler https://youtu.be/iwu8EQZZ7rg?si=VdFwARM_2M4JM0IW

For example, air quality meter and sound level meter were used for urban environmental study by non-university organizations on 25 May 2024.



2. Extension of local collaboration

During the project implementation, Mongolian partners were extended their collaboration with 10 national non-project stakeholders, including 3 research institutes, 3 NGOs, 3 companies, and 1 local enterprise.

- ~ Institute of hydrology, meteorology and environment
- ~ “Green academy” NGO
- ~ Institute for Sustainable Development
- ~ Institute of Geography and Geoecology
- ~ “Misheel” botanical garden
- ~ “Myangan Ugalzat” locally owned enterprise
- ~ “Surakh chadvariig bekhjuulekh tov” NGO



- ~ “Trishvilli” LLC
- ~ “Garden city” LLC
- ~ “Landscape architecture science” NGO

Based on local cooperation, many events organized such as 5 events in 2022, 15 events in 2023 and 8 events in 2024. This cooperation is not bounded by learning activities such as review syllabus and provides internship opportunity. It also covers research collaboration. Most importantly, 3 research scholarships were given to PhD students.

3. Online academic seminars for publicly open

During the project period between 2022 and 2024, Mongolian HEI partners were jointly organized public open-online scientific seminars in each month. These seminars were organized 20 times and more than 350 people attended.

Academic seminar website

4. Cooperation agreements and MoU for further cooperation

In the case of international impact, 7 letters of cooperation and 2 MoUs were signed, which support internationalization of the HEIs. Based on that, next two projects were initiated and granted.

- ~ Italy-East Asia Cooperation: from Local Expertise to a Global Outlook – LEGO
- ~ Developing Micro-credentials Ecosystems in Ukraine and Mongolia for Competitive and Resilient Green Economies – DOMANI
- ~ Enhancing Climate Resilience and Community Benefits Through Forest Landscape Restoration in Central Asia: A Multidimensional Research and Partnership Initiative – ClimCoForest