


GADRI Membership Application Form

	
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Institute webpage URL:	
<p>Institute Outline:</p> <p>The Centre for Disaster Resilience (CDR) is a center of excellence within the university of Twente, faculty of Geo-Information Science and Earth Observation (ITC) with the aim to conduct fundamental, interdisciplinary and applied research, dissemination, education and training, international cooperation, and providing advisory services in the field of disaster resilience. The CDR was officially launched on 28 October 2021 by H.R.H. Princess Margriet together with the coordinator and lead-scientist Dr. Irene Manzella. The mission of CDR is to increase well-being and global sustainable growth by significantly decreasing disaster risk with emphasis on the application of spatial analysis and Earth observation methodologies.</p>	

Research Interests (areas of research disciplines, number of faculty members, etc.):

CDR addresses all aspects of Integrated Disaster Risk Management (Natural and Technological hazards) with a particular emphasis on disaster resilience. It combines physical sciences (hazard related studies like hydrology, geology, ...), social sciences (rural and urban planning, vulnerability studies, ...) and technological sciences (geo-information science, Earth observation, ...). It brings together nearly 70 scientists within the faculty ITC, ranging from PhD researchers to full professors, that have an interest in disaster resilience from their specific perspectives. CDR is also member of the 4TU-resilience initiative – a collaboration of the four technical universities in the Netherlands and it is one of the centers of excellence within the Integrated Research on Disaster Risk (IRDR) research program.

A brief description of Research Achievements and Challenges:

CDR hosts six post-doctoral researchers on topics as varied as “near real-time landslide detection”, “drought resilience engineering”, “climate risk financing”, “resilience of road transportation networks”, “collaborative decision-making on flood mitigation measures”, and “vulnerability and preparedness to volcanic, cross-border multi-hazards”. It also has a “visiting researchers” program to invite experts from all around the world to spend time at the center and to collaborate with its experts. CDR also supported the UNESCO Earth Futures Festival, the 2023 NEEDS conference and several symposia (like “Celebrating Resilience in Science and Science in Resilience” for MSc and PhD students), seminars, webinars, workshops and training activities. CDR also supported the development of proposals for ESA and Horizon Europe Calls, of which several were successful and resulted in the PARATUS project (HE), the EO for Multi-Hazards (ESA) and the EU funded “Creating a European Higher Education Network for Masters Programs in Disaster Risk Management (EUMA)” project.

Comparative advantage/contribution to GADRI Activities:

CDR would fit very well within and complement the GADRI global research network with its expertise and scientists. Through its own network and ongoing research CDR and its experts can contribute to the development of research road maps and dissemination of disaster resilience methodologies. With the faculty’s focus on capacity development and institutional strengthening, the CDR is particularly interested in collaboration with partners in the global south and majority world.

Depending on their availability, CDR researchers might participate to GADRI activities directly. In return, the GADRI network might be interested to participate in activities led by CDR. CDR and GADRI may increase their outreach by jointly circulating and announcing activities such as conferences, seminars and trainings.

Expected Outputs/Results:

From its membership to GADRI, CDR would expect a more optimized participation to the various international scientific networks to which they are already involved :

- UNDRR (E) STAG
- IRDR
- IDRIM Society, in particular through leveraging their joint international initiative launched at the UN-Mid Term Review of Sendai Framework for Action. The objective is to develop a stream of webinars in order to exchange good practices on the design, management and outreach of Resource Centers.