



Resilience Catalysts

The Interplay of Education, Science and Culture in Transforming Governance for Building Resilience to Disasters.

Insights from UNESCO Chairs.

Report

from the **Global webinar**:

Resilience Catalysts: The Interplay between Education, Science and Culture in Transforming Governance for Building Resilience to Disasters.

Insights from UNESCO Chairs

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This report summarizes the discussions held during the "Resilience Catalysts" global webinar, an initiative developed within the activities of the Resilienhance Programme. Launched in October 2022 by the UNESCO Chair on Intersectoral Safety for Disaster risk reduction and Resilience of the University of Udine (Italy) in collaboration with the Central Europe Initiative (CEI), the Resilienhance Programme aims to bolster the resilience and safety of societies, fostering sustainable development in the process.











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1. Background

Events and phenomena with a strong impact on the territory, linked to climate change, natural hazards, and human activities are affecting with greater frequency and intensity all countries around the world while social and natural systems are becoming increasingly complex and strongly interconnected. This systemic dimension as well as the complexity of the aforementioned issues calls for strengthening the cooperation among countries and adopting intersectoral approaches to improve safety and resilience.

To address these challenges, a set of global frameworks has been developed, including the <u>United Nations 2030 Agenda for Sustainable Development</u>, the <u>Sendai Framework for Disaster Risk Reduction 2015-2030</u>, and the <u>Paris Agreement</u>. These frameworks work hand in hand to provide a coordinated approach for building resilience across various sectors and scales. The <u>Global Assessment Report (GAR) 2022</u> and the <u>GAR Special Report 2023: Mapping resilience for the Sustainable Development Goals</u> encourage us to reflect on the progress made so far and the road ahead. They are to be conceived as a call to action to better understand and act to face systemic risk and to invest in strengthening community resilience.

Operating at the interface of the natural and social sciences, education, culture, and communication and information, UNESCO is uniquely positioned to contribute to disaster risk reduction (DRR). The Organization's wide mandate and expertise enable it to take a multi-hazard, multi-disciplinary and multi-stakeholder participatory approach, which is unique among UN agencies. As for the UNESCO Chairs and UNITWIN Networks, they have proven value in advancing interdisciplinary knowledge generation and UNESCO's role as a global observatory and as a laboratory of ideas acting as think tanks and bridge-builders, thereby strengthening the research-training-policy-society nexus.

In this context, under the umbrella of the Disaster Risk Reduction Unit of the Natural Sciences Sector of UNESCO, the UNESCO Chair on Intersectoral Safety for Disaster risk reduction and Resilience of the University of Udine in Italy (hereinafter, the UniUD Chair) organized on 19 June 2024, a global webinar among UNESCO Chairs focused on DRR and resilience. This webinar is part of the ResiliEnhance Programme launched in October 2022 by the UniUD Chair in collaboration with the Central European Initiative (CEI), a programme that aims to strengthen the resilience and safety of societies to foster sustainable development. This Programme includes a set of activities including the ResiliEnhance Platform, which provides an interdisciplinary and intersectoral space for experts to discuss and propose recommendations aiming at supporting risk-informed and resilient sustainable development, notably in Central Europe.

The present report aims to summarise the presentations and discussions held during this global webinar entitled: "Resilience Catalysts: The Interplay between Education, Science and Culture in Transforming Governance for Building Resilience to Disasters. Insights from UNESCO Chairs".

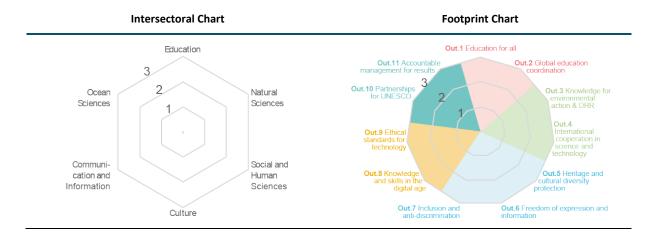
The webinar registration can be found at: https://resilienhance.uniud.it/resilience-catalysts.



2. Purpose and objectives of the "Resilience Catalysts" webinar

The "Resilience Catalysts" webinar aimed to begin exploring the role of UNESCO Chairs focused on disaster risk reduction and resilience, in the complex interplay between Education, Science, and Culture, to enhance resilience and mitigate disasters.

Ahead of the webinar, representatives from selected UNESCO Chairs were asked to complete an information form detailing their activities related to Disaster Risk Reduction (DRR) and resilience. The form included information on their primary UNESCO field (education, natural sciences, social and human sciences, culture, communication and information, and ocean sciences) and their contribution to the various outcomes of <u>UNESCO's Medium-term Strategy (2022-29)</u> (see Annex 3). Thanks to this information, two radar graphs - the "Intersectoral Chart" and the "Footprint Chart" - were developed per Chair using a three-level scale. Each Chair presented these charts during their respective presentations at the global webinar.



Chairs summarized their contribution trough the three-level scale based on the following criteria:

- Level 1: No or limited involvement. This UNESCO field is not a primary focus of the Chair's research and activities. There might be minimal overlap between the Chair's work and this specific field.
- Level 2: Substantial contribution. This field is a significant area of impact for the Chair's
 research and activities. While not the absolute core focus, the Chair's work exhibits substantial
 understanding and contributes meaningfully to this UNESCO field.
- Level 3: Core area of expertise. This field constitutes the central focus of the Chair's research
 and activities. The Chair's work demonstrates in-depth knowledge and expertise within this
 UNESCO field.

² The predefined positioning criteria had been conceived in consultation with the Disaster Risk Reduction Unit of UNESCO.



¹ The UniUD Chair identified nineteen relevant UNESCO Chairs. These Chairs were selected based on their participation in the ResiliEnhance Platform and their titles containing the keywords "resilience", "disaster", or "risk" (see Annex 1 for the complete list). Fourteen of the nineteen Chairs responded positively and participated in the event.

Additionally, Chairs were invited to present case studies, projects or initiatives that highlight their role as a catalyst for resilience. These presentations aimed to showcase how the Chairs promote communities' capacity to prepare for, absorb, and adapt to shocks from natural hazards and climate impacts.

Through these presentations and discussions, the webinar overall aimed to initiate ongoing dialogue and collaboration among participating UNESCO Chairs.



3. Global webinar summary

The two-hour event fostered collaboration among thirty-six participants representing fourteen UNESCO Chairs, UNESCO, and other organizations and institutions. This was a closed-door event, facilitating focused discussions.

The following sections briefly summarize the outcomes of the webinar, highlighting the main aspects raised during the introductory remarks, and the mapping of involved Chairs within the UNESCO fields. Finally, the concluding remarks are also summarized.

3.1. Introductory remarks

Dr. Soichiro Yasukawa, Chief of the Disaster Risk Reduction Unit at UNESCO started the series of introductory remarks. He underscored the importance of interdisciplinary collaboration among UNESCO Chairs in disaster risk reduction. He acknowledged the difficulties in connecting with the vast network of global experts and expressed optimism that the webinar would foster networking opportunities and collaborative projects. Dr. Yasukawa highlighted UNESCO's multi-sectoral approach to disaster risk reduction, encompassing science, education, culture, and communication. He detailed UNESCO's multifaceted work in eight key areas, including early warning systems, school safety, and post-disaster response, with a particular focus on supporting Africa and Small Island Developing States (SIDS). This information is all compiled within the report: "Disaster Risk Reduction: UNESCO's contribution to a global challenge".

Ms. Inga Nichanian, Coordinator of the UNITWIN/UNESCO Chairs Programme at UNESCO emphasized the Programme's pivotal role in fostering international collaboration and knowledge exchange among universities. She stressed the Programme's interdisciplinary nature and its commitment to building institutional capacity across all facets of UNESCO's mandate. Ms. Nichanian underscored the significance of transdisciplinary, future-oriented approaches, and North-South-South cooperation in addressing global challenges. She extended an invitation to participants to engage in upcoming UNESCO events focused on youth, future generations, and knowledge transformation for Africa's future.

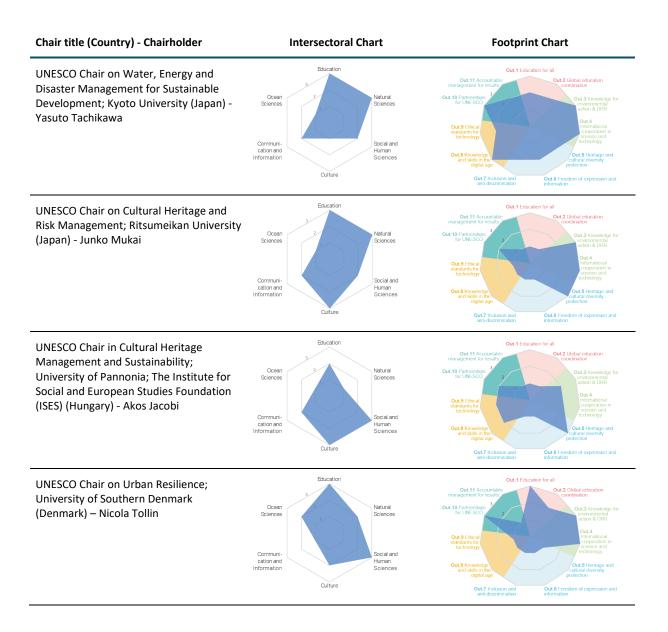
Professor Stefano Grimaz, Chairholder of the UNESCO Chair on Intersectoral Safety for Disaster risk reduction and Resilience at the University of Udine in Italy introduced the webinar as part of the Resilienhance Programme, supported by the Central European Initiative and the Friuli Venezia Giulia region in Italy. He emphasized the goal of mapping the contributions of UNESCO Chairs as Resilience Catalysts within the UNESCO mandate. The webinar aims to create an intersectoral chart showcasing how the activities of the Chairs integrate with UNESCO's main sectors: education, natural sciences, social and human sciences, culture, communication and information, and ocean sciences. The initiative aimed to foster collaboration and synergies among the Chairs.



3.2. Chair's contribution to UNESCO fields and outcomes

This section summarizes the key insights gleaned from the presentations delivered by UNESCO Chairs during the global webinar (full presentations are available for reference in Annex 2). The following table presents a summary of data provided by the participating UNESCO Chairs, showing the two radar graphs (the "Intersectoral Chart" and the "Footprint Chart") shared by each Chair. Levels were assigned by each Chair using the criteria previsousely presented.

The order of the Chairs in the table is the presentation order adopted during the webinar.





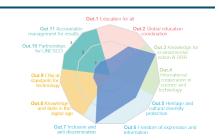
Chair title (Country) - Chairholder

Intersectoral Chart

Footprint Chart

UNESCO Chair on Gender, Vulnerability and Well-being in Disaster Risk Reduction Support; Kobe University (Japan) - Ronni Alexander



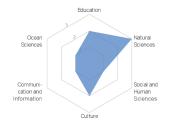


UNESCO Chair in Societal Climate Change Research and Resilience; Universität Hamburg (Germany) - Beate Ratter



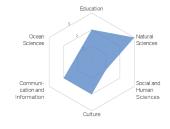
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UNESCO Chair on Disaster Risk Reduction and Resilience Engineering; University College London (United Kingdom) - Dina D'Ayala





UNESCO Chair on Intersectoral Safety for Disaster risk reduction and Resilience; University of Udine (Italy) - Stefano Grimaz





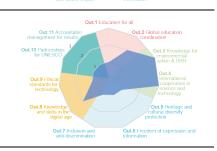
UNESCO Chair on Solid Earth Physics and Geohazards Risk Reduction; Hellenic Mediterranean University (Greece) -Filippos Vallianatos





UNESCO Chair on the Prevention and Sustainable Management of Geohydrological Hazards; University of Florence (Italy) - Nicola Casagli







Chair title (Country) - Chairholder

Intersectoral Chart

Footprint Chart

UNESCO Chair on Water-related Disaster Risk Reduction; University of Ljubljana (Slovenia) - Matjaz Mikos





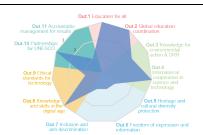
UNESCO Chair in Informatics and Multihazard Risk Reduction; Loughborough University (United Kingdom) - Qiuhua Liang





UNESCO Chair for Science, Technology, and Engineering Education; AGH University of Krakow (Poland) - Janusz Szpytko





UNESCO Chair in Futures Studies, Storytelling and Anticipation: Living Traditions, Transitions, and Resilience; University of Makeni (Sierra Leone) - Kelawei Kamara

Information not available

Information not available



3.3. Closing remarks

In her concluding remarks, **Ms. Inga Nichanian** reiterated the importance of networking and collaboration among UNESCO Chairs. She encouraged the Chairs to function collectively as a think tank to support action, contributing their expertise to UNESCO's endeavours in disaster risk reduction and resilience. Ms. Nichanian highlighted the interdisciplinary methodologies employed by the Chairs and their crucial role as intermediaries between academia, research, civil society, local communities, and policymakers. She also urged them to remain abreast of UNESCO's actions and strategies through regular communication with their respective National UNESCO Commissions.

Dr. Soichiro Yasukawa expressed his gratitude for the insightful presentations and the opportunity to gain knowledge about the diverse activities undertaken by the UNESCO Chairs. He conveyed his interest in reinforcing collaborations between UNESCO Headquarters and the Chairs, as well as fostering collaboration among the Chairs themselves. Dr. Yasukawa also mentioned the possibility of colleagues from field offices initiating contact with the Chairs for collaborative endeavours.

Professor Stefano Grimaz concluded the webinar by extending his appreciation to the participants. He proposed two subsequent steps: the compilation of a brief report summarizing the presentations, and the establishment of an agenda for "Resilience Catalyst Talks" to facilitate further dialogue and collaboration among the Chairs. Professor Grimaz emphasized the importance of cultivating a community of Chairs dedicated to the field of disaster risk reduction and resilience under the auspices of UNESCO.



4. Conclusion and next steps

The Resilience Catalysts global webinar has marked a relevant moment, bringing together UNESCO Chairs focused on disaster risk reduction and resilience. This collective force has ignited the creation of a forum – a platform for exchange where Chairs can learn from each other, exchange ideas, and foster intersectoral collaborations. This collaborative spirit is crucial for building a more resilient future.

To further enrich this forum, a compelling series of Talks will be convened in the coming year. Each Talk, hosted by a different UNESCO Chair, will delve into specific areas of expertise, fostering knowledge exchange. These talks will be recorded and published on a dedicated webpage under the ResiliEnhance Programme website. In parallel, the UniUD Chair will collaborate with UNESCO to identify and integrate new Chairs, further strengthening the collaborative hub.

Finally, another global webinar will be organized within a year, ensuring continuous dialogue and collaboration.



Group picture taken at the end of the webinar



Annex 1: List of UNESCO Chairs focused on disaster risk reduction and resilience

Ahead of the event, the UniUD Chair identified nineteen relevant UNESCO Chairs. These Chairs were selected based on their titles containing the keywords "resilience," "disaster," or "risk" and their participation in the Resilienhance Platform:

- UNESCO Chair in Futures Studies, Story-telling and Anticipation: Living Traditions, Transitions, and Resilience; University of Makeni (Sierra Leone)
- UNESCO Chair in Cultural Heritage Management and Sustainability; University of Pannonia; The Institute for Social and European Studies Foundation (ISES) (Hungary)
- UNESCO Chair on the Prevention and Sustainable Management of Geo-hydrological Hazards; University of Florence (Italy)
- UNESCO Chair for Science, Technology, and Engineering Education; AGH University of Krakow (Poland)
- UNESCO Chair on Water-related Disaster Risk Reduction; University of Ljubljana (Slovenia)
- UNESCO Chair on Intersectoral Safety for Disaster risk reduction and Resilience; University of Udine (Italy)
- UNESCO Chair on Cultural Heritage and Risk Management; Ritsumeikan University (Japan)
- UNESCO Chair on Water, Energy and Disaster Management for Sustainable Development; Kyoto University (Japan)
- UNESCO Chair on Solid Earth Physics and Geohazards Risk Reduction; Hellenic Mediterranean University (Greece)
- UNESCO Chair in Societal Climate Change Research and Resilience; Universität Hamburg (Germany)
- UNESCO Chair in Sustainable Development and Ecological Awareness; Technical University of Zvolen (Slovakia)
- UNESCO Chair in Informatics and Multi-hazard Risk Reduction; Loughborough University (United Kingdom of Great Britain and Northern)
- UNESCO Chair on Disaster Risk Reduction and Resilience Engineering; University College London (United Kingdom of Great Britain and Northern)
- UNESCO Chair on Gender, Vulnerability and Well-being in Disaster Risk Reduction Support; Kobe University (Japan)
- UNESCO Chair on Climate Change, Resilience and Sustainability; Strathmore University (Kenya)
- UNESCO Chair on Natural Disasters Management in the Islamic Republic of Iran and Countries in the Region; The Natural Disaster Research Institute and the Natural Disaster Higher Education Institute of Applied Science and Technology (Iran, Islamic Republic of)
- UNESCO Chair on Geoenvironmental Disaster Reduction; Shimane University (Japan)
- UNESCO Chair on Urban Resilience; University of Southern Denmark (Denmark)
- UNESCO Chair on Socio-cultural Anticipation and Resilience; The South American Institute for Resilience and Sustainability Studies (SARAS) (Uruguay)



Annex 2: Presentations made by UNESCO Chair participants

This annex contains the presentations delivered by the UNESCO Chairs during the global webinar, following the order of the agenda.

1.	UNESCO Chair on Water, Energy and Disaster Management for Sustainable Development,
_	Kyoto University (Japan) - Yasuto Tachikawa
2.	UNESCO Chair on Cultural Heritage and Risk Management; Ritsumeikan University (Japan) -
	Junko Mukaip.17
3.	UNESCO Chair in Cultural Heritage Management and Sustainability; University of Pannonia;
	The Institute for Social and European Studies Foundation (ISES) (Hungary) - Akos Jacobi p.18
4.	UNESCO Chair on Urban Resilience; University of Southern Denmark (Denmark) – Nicola Tollin
	p.19
5.	UNESCO Chair on Gender, Vulnerability and Well-being in Disaster Risk Reduction Support;
	Kobe University (Japan) - Ronni Alexanderp.20
6.	UNESCO Chair in Societal Climate Change Research and Resilience; Universität Hamburg
•	(Germany) - Beate Ratter
7.	UNESCO Chair on Disaster Risk Reduction and Resilience Engineering; University College
/٠	· · · · · · · · · · · · · · · · · · ·
_	London (United Kingdom) - Dina D'Ayala
8.	UNESCO Chair on Intersectoral Safety for Disaster risk reduction and Resilience; University of
	Udine (Italy) - Stefano Grimazp.23
9.	UNESCO Chair on Solid Earth Physics and Geohazards Risk Reduction; Hellenic Mediterranean
	University (Greece) - Filippos Vallianatos
10.	UNESCO Chair on the Prevention and Sustainable Management of Geo-hydrological Hazards,
	University of Florence (Italy) - Nicola Casaglip.25
11.	UNESCO Chair on Water-related Disaster Risk Reduction; University of Ljubljana (Slovenia) -
	Matjaz Mikosp.26
12.	UNESCO Chair in Informatics and Multi-hazard Risk Reduction; Loughborough University
	(United Kingdom) - Qiuhua Liangp.27
13.	UNESCO Chair for Science, Technology, and Engineering Education; AGH University of Krakow
	(Poland) - Janusz Szpytkop.28
14.	UNESCO Chair in Futures Studies, Story-telling and Anticipation: Living Traditions, Transitions,
	and Resilience; University of Makeni (Sierra Leone) - Kelawei Kamara
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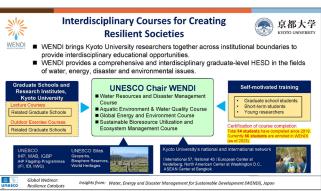


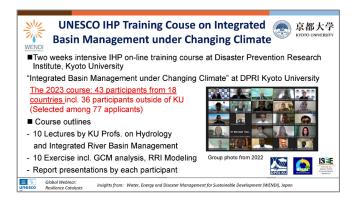


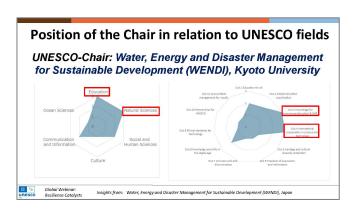
UNESCO Chair on Water, Energy and Disaster Management for Sustainable Development Kyoto University (Japan)

















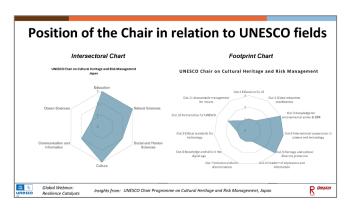
UNESCO Chair on Cultural Heritage and Risk Management Ritsumeikan University (Japan)













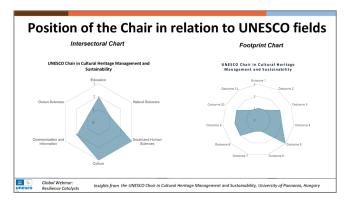




UNESCO Chair in Cultural Heritage Management and Sustainability University of Pannonia, Institute for Social and European Studies **Foundation (ISES) (Hungary)**







DRR and Resilience-related projects of the Chair Example 1: "Craft" - Creative Cities Sustainable Regions project Building local and regional resilient society. Aims to enhance interdisciplinarity in sustainable local and regional development based on cultural heritage management.

The concept highlights and measures 'soft' factors, such as creativity, identity, heritage, innovation capacity, knowledge production, knowledge transfer, willingness for cooperation, trust, and collective competences to improve resilient local society a new way.

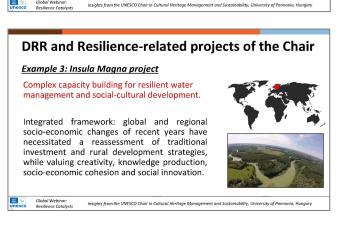
It emphasizes the 'hidden' potential and inner 'endogenous' development possibilities of cities.



Insights from the UNESCO Chair in Cultural Heritage Management and Sustainability, University of Pannonia, Hungary

DRR and Resilience-related projects of the Chair Culture-based soft transformation of the society: Heritage assets as carriers of resilience Strenghtening resilient capacity of the local society by revitalization and refuncioning of heritage elements Exploration of local microhistories Innovative approach to sustain cultural heritage and support creative research





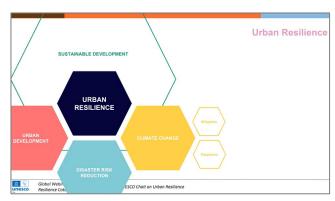




UNESCO Chair on Urban Resilience University of Southern Denmark (Denmark)

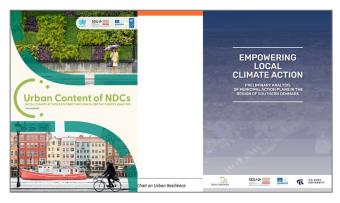














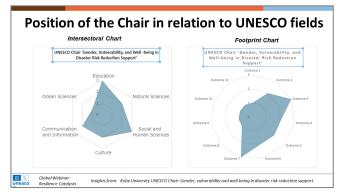




UNESCO Chair on Gender, Vulnerability and Well-Being in Disaster Risk Reduction Support Kobe University (Japan)







DRR and Resilience-related projects of the Chair Kobe University UNESCO Chair Education Program Summer Course 2018-2019 2-week training for 40 students Held at Gadjah Mada University (Japan), Gadjah Mada University (Indonesia), National Kaohsiung University of Science and Technology (Taiwan) Theme: Disaster (tsunami, earthquake, volcano) Lectures, field excursions, group problem solving Lecturers include Kobe University UNESCO Chair partner institution faculty, local experts, practitioners

 ${\it Insights from:} \textbf{Gender, Vulnerability and Well-being in DRR Support (Kobe University)}$

DRR and Resilience-related projects of the Chair Kobe University UNESCO Chair Education Program Online Conference 2020-2024 2-day online training for 50 students - Held by Kobe University, online participation by all partner universities: Gadjah Mada University (Indonesia), National Kaohsiung University of Science and Technology (Taiwan), Mae Fah Luang University (Thailand), Universiti Tunku Abdul Rahman (Malaysia), Kobe University (Japan) - Theme: How we can make our communities safer during disaster – with a focus in gender, vulnerability - Lecturers, group presentations, group problem solving - Lecturers include Kobe University UNESCO Chair partner institution faculty - Good chance to learn about disaster and engage in international exchange

Insights from: Gender, Vulnerability and Well-being in DRR Support (Kobe University)

DRR and Resilience-related projects of the Chair Kobe University UNESCO Chair Research Program – Book Project Title: Making Disaster Safer: A gender and vulnerability Approach (Ronni Alexander & Siriporn Wajjwalku, eds., Springer, 2023) Consists of 12 chapters by Kobe University UNESCO Chair partners: Gadjah Mada University (Indonesia), National Koabsiung University of Science and Technology (Taiwan), Mae Fah Luang University (Indonesia), Mercy Malaysia (Malaysia), Kobe University (Iapan) Case studies focusing on gender-sensitive approaches to disaster at different levels Useful for scholars, students and practitioners

 ${\it Insights from:} \ {\sf Gender, Vulnerability and Well-being in DRR \ Support \ (Kobe \ University)}$



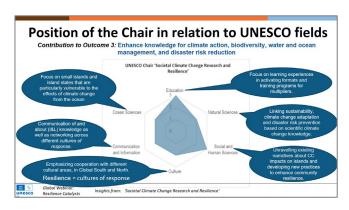


UNESCO Chair in Societal Climate Change Research and Resilience

University of Hamburg (Germany)











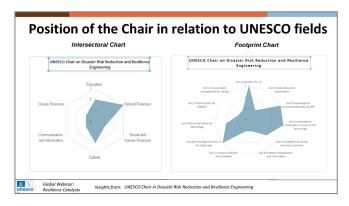


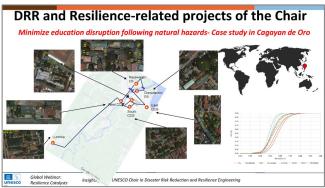
UNESCO Chair on Disaster Risk Reduction and Resilience Engineering

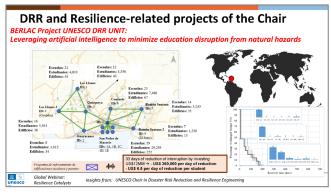


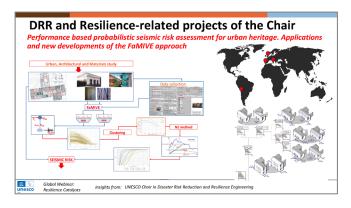














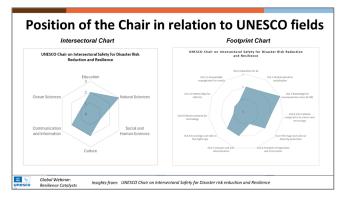


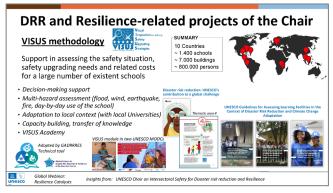


UNESCO Chair on Intersectoral Safety for Disaster risk reduction and Resilience University of Udine (Italy)













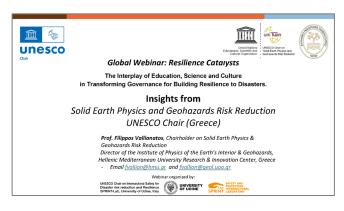


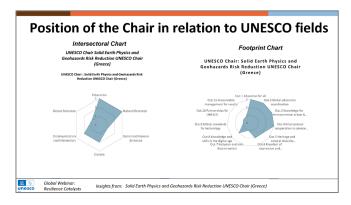


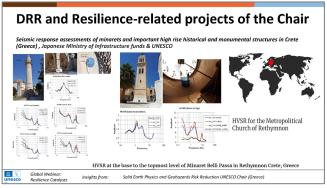
UNESCO Chair on Solid Earth Physics and Geohazards Risk Reduction

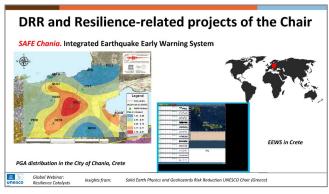
Hellenic Mediterranean University (Greece)

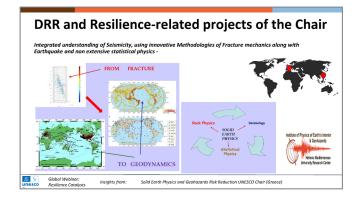










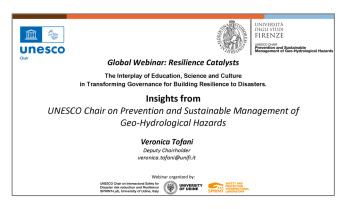




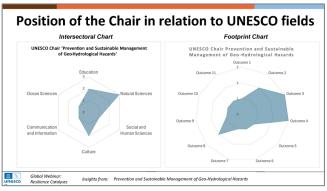


UNESCO Chair on the Prevention and Sustainable Management of Geo-hydrological Hazards University of Florence (Italy)

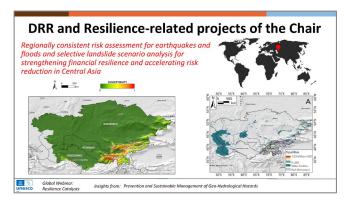


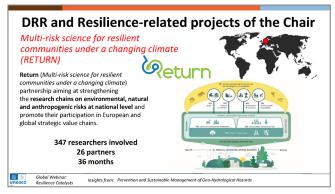
















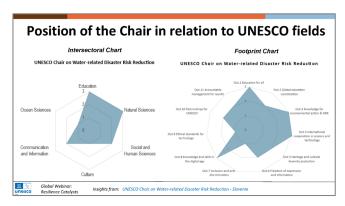
UNESCO Chair on Water-related Disaster Risk Reduction University of Ljubljana (Slovenia)





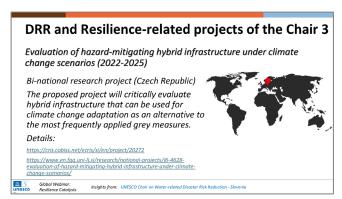






DRR and Resilience-related projects of the Chair 1 ERASMUS+ Master study program on Flood Risk Management (since 2011) An international & interdisciplinary study program. Master students are coming from around the whole World (~25 students in a generation). IHE Delft, TU Dresden, UPC Barcelona, U Ljubljana. We in Ljubljana are giving courses on: Spatial planning for flood protection & Socioeconomical assessment of flood protection. Details: https://www.floodriskmaster.org/ FLOODRisk Master Insights from: UNESCO Chair on Water-related Disaster Risk Reduction - Sovenia





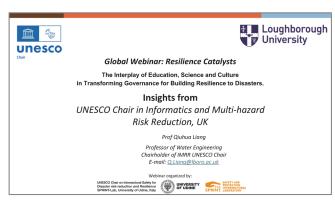


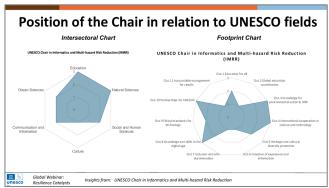


UNESCO Chair in Informatics and Multi-hazard Risk Reduction



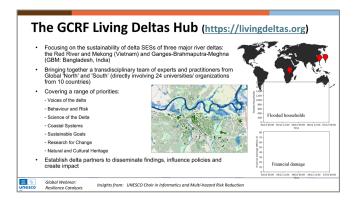
Loughborough University (United Kingdom)













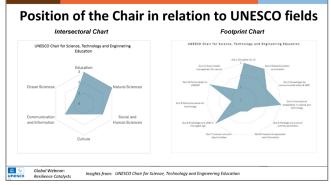


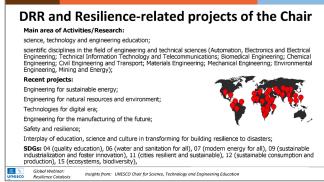
UNESCO Chair for Science, Technology, and Engineering Education

AGH University of Krakow (Poland)

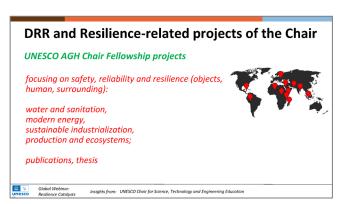














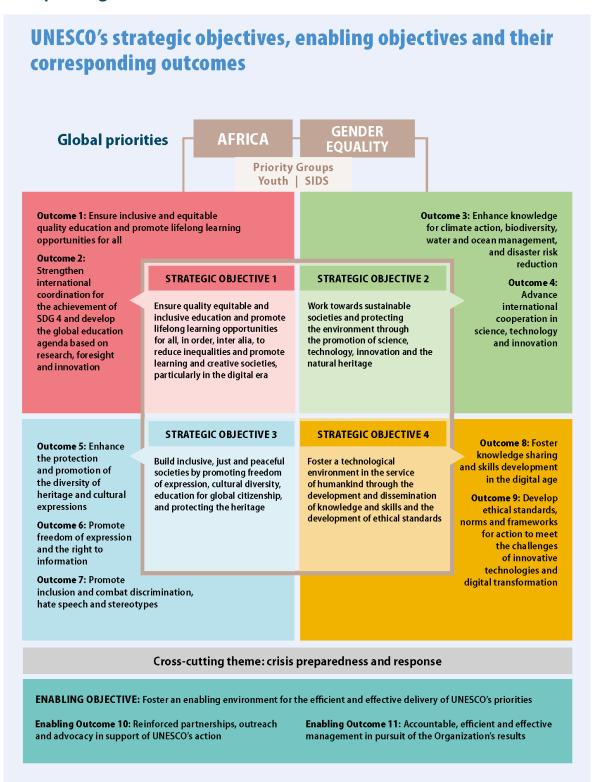


UNESCO Chair in Future Studies, Story-telling and Anticipation: Living Traditions, Transitions and Resilience University of Makeni (Sierra Leone)

Presentation was done without the support of slides.



Annex 3: UNESCO's strategic objectives, enabling objectives and their corresponding outcomes



From <u>UNESCO's Medium-term Strategy (2022-29)</u> p. 15.

