

Consortium partners

Pastoral
Emergency Care
Remagen
(NotfS)

Hotel
Resilient
(HRC)

Flood Protection
Centre
(StEB Köln)

Cologne Fire
Department
(City of Cologne)

University of
Cologne
(UoC)

German
Committee for
Disaster Reduction
(DKKV)

Yangon City
Development
Committee
(YCDC)

University of
Yangon
(UY)

Department of
Urban and Housing
Development (DUHD)
Ministry of
Construction (MoC)

Myanmar
Environment
Institute
(MEI)

Shan State
Government
(SSG)

Yangon
Region
Government
(YRG)

Mon State
Government
(MSG)

Nay Pyi Taw
City Development
Committee
(NCDC)

Mandalay City
Development
Committee
(MCDC)

Mawlamyine
University
(MLMU)

University of
Mandalay
(UM)

Taunggyi
University
(TU)

Local Governments for Sustainability
South East Asia (ICLEI)

Aim of the project

- Thematic focus: **disaster risk management**
- Spatial focus: five **Myanmar (mega) cities**
- Hazard-related focus: **earthquakes, tropical cyclones, flooding, Covid-19**

Partner institutions and funding

University of Cologne
Institute of Geography
Albertus-Magnus-Platz
50923 Cologne, Germany
www.myrisk.uni-koeln.de



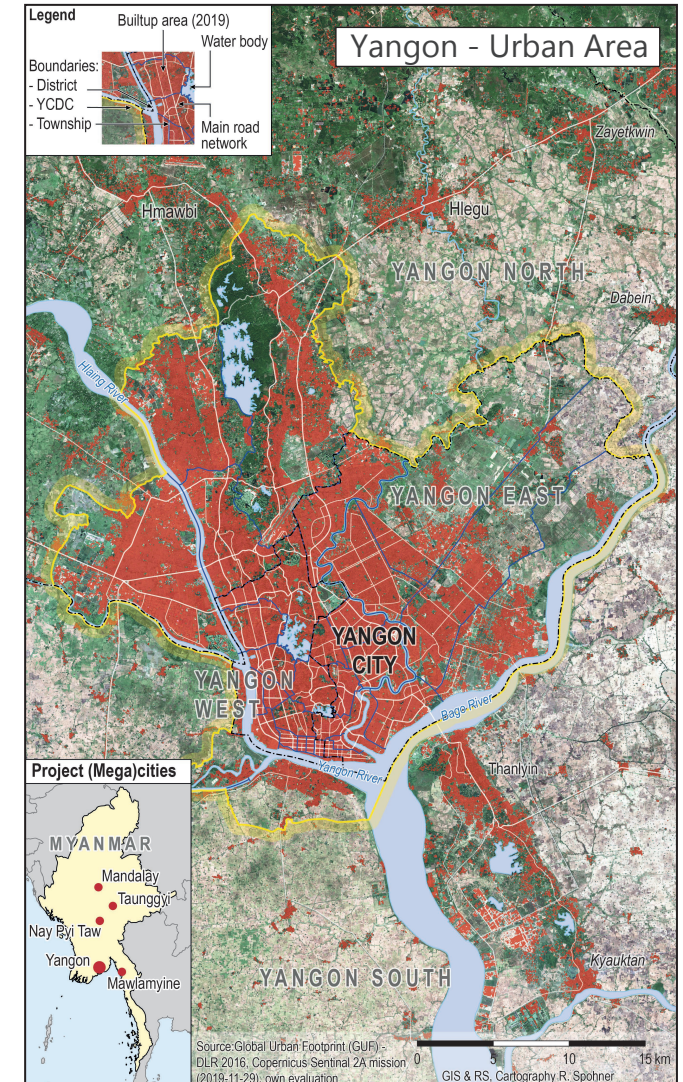
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Project period of the R&D phase 5/2021 to 4/2025
DLR Project Management Agency



The SURE Joint Project:

Multiple Risks Management of Extreme Events in Fast Growing (Mega) Cities in Myanmar



Natural hazard risks and socio-economic vulnerability in Myanmar

1 Myanmar urbanisation:

- **29,6% urban population** (2014)
- **Largest cities:** Yangon, Mandalay
- Cities with **high importance, fast growing population** and/or **high population density:** Nay Pyi Taw, Mawlamyine, Taunggyi

2 Yangon:

- 5.211.431 inhabitants (2014), 1043.57 km² (YCDC)
- Main economic centre, motor of industrial production and development, nodal point of supply and demand chains, foreign direct investment hub, main religious, education and health centre, administrative centre of Lower Myanmar, increasing in-migration during the last ten years, growing number of high-rise buildings, densification, traffic and environmental congestion, growing social disparities, centre of international cooperation

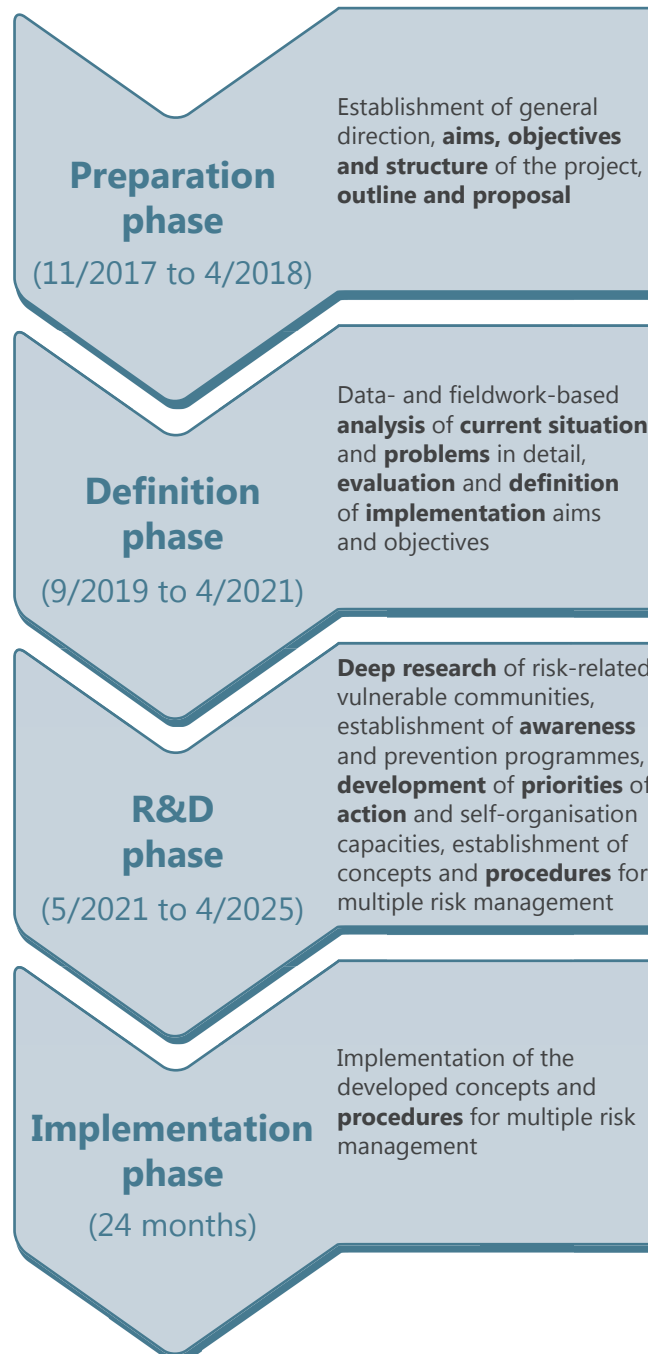
3 Yangon natural risk exposure:

- **Earthquakes**
- **Flooding**
- **Tropical storms**
- **Covid-19**

Sule Pagoda, Sule Pagoda Road (Spohner 2015)



Phases of the MYrisk project



Objectives and research design

- 1 Establishment of a systematic **metadata inventory** for the bundling of existing data stocks for use in holistic risk management,
- 2 Development of a **concept** for efficient **institutional risk prevention, cooperation and communication** between the central stakeholders in disaster risk management
- 3 Concept and design of inclusive and culturally sensitive **risk prevention programmes for civil society** (e.g. against the loss of personal documents)
- 4 Conception of operational precautions for **system-relevant** small and medium-sized **enterprises (MSMEs)** to secure **critical infrastructure**
- 5 Establishment of an **exchange platform** of future-oriented, sustainable **“build back better” strategies** for the Covid-19 **pandemic**

Methodology

- **Secondary data analysis**
- **Qualitative and quantitative interviews, surveys**
- **Workshops, conferences, capacity enhancement**
- **Mapping, GIS and Remote Sensing**

Downtown, Latha Township, view to the east (Spohner 2018)

