

Consortium partners

Pastoral
Emergency Care
Remagen
(NotfS)

Flood Protection
Centre
(StEB Köln)

Cologne Fire
Department
(City of Cologne)

University of
Cologne
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German
Committee for
Disaster Reduction
(DKKV)

Local Governments for Sustainability
South East Asia (ICLEI)

Yangon City
Development
Committee
(YCDC)

University of
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(UY)

Department of
Urban and Housing
Development (DUHD)
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Myanmar
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Institute
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Region
Government
(YRG)

Mon State
Government
(MSG)

Nay Pyi Taw
City Development
Committee
(NPTDC)

Mandalay City
Development
Committee
(MCDC)

Mawlamyine
University
(MLMU)

University of
Mandalay
(UM)

Taunggyi
University
(TU)

Aim of the project

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

Partner institutions and funding

University of Cologne
Institute of Geography
Albertus-Magnus-Platz
50923 Cologne, Germany

www.riskurbmyanmar.uni-koeln.de



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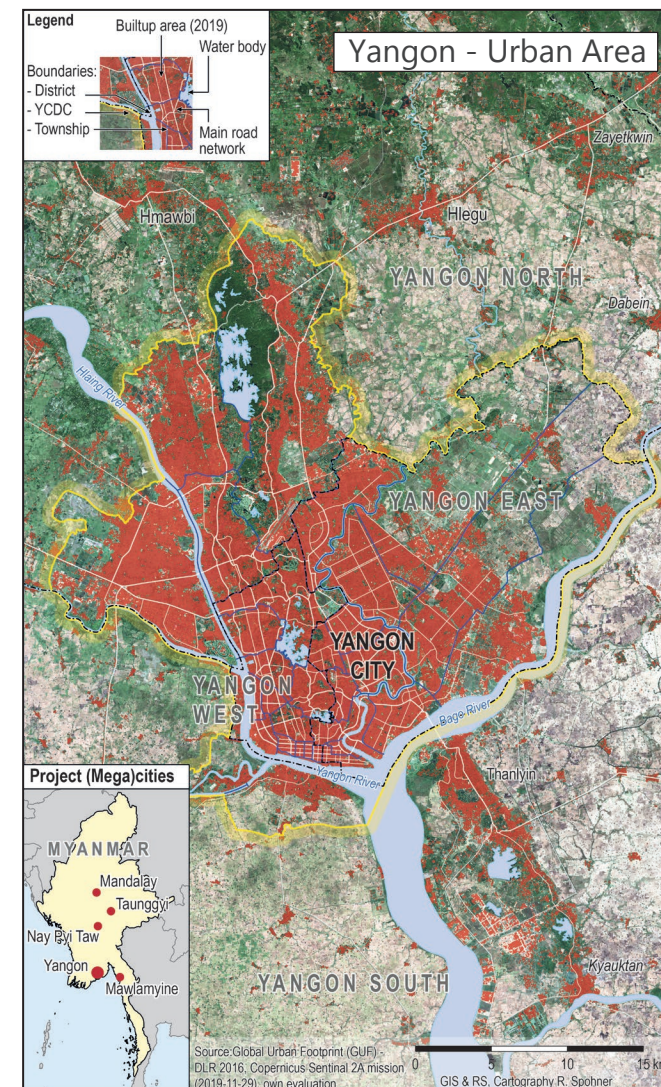
Federal Ministry
of Education
and Research

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Project period of the definition phase
9/2019 to 2/2021
DLR Project Management Agency

The NUR 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

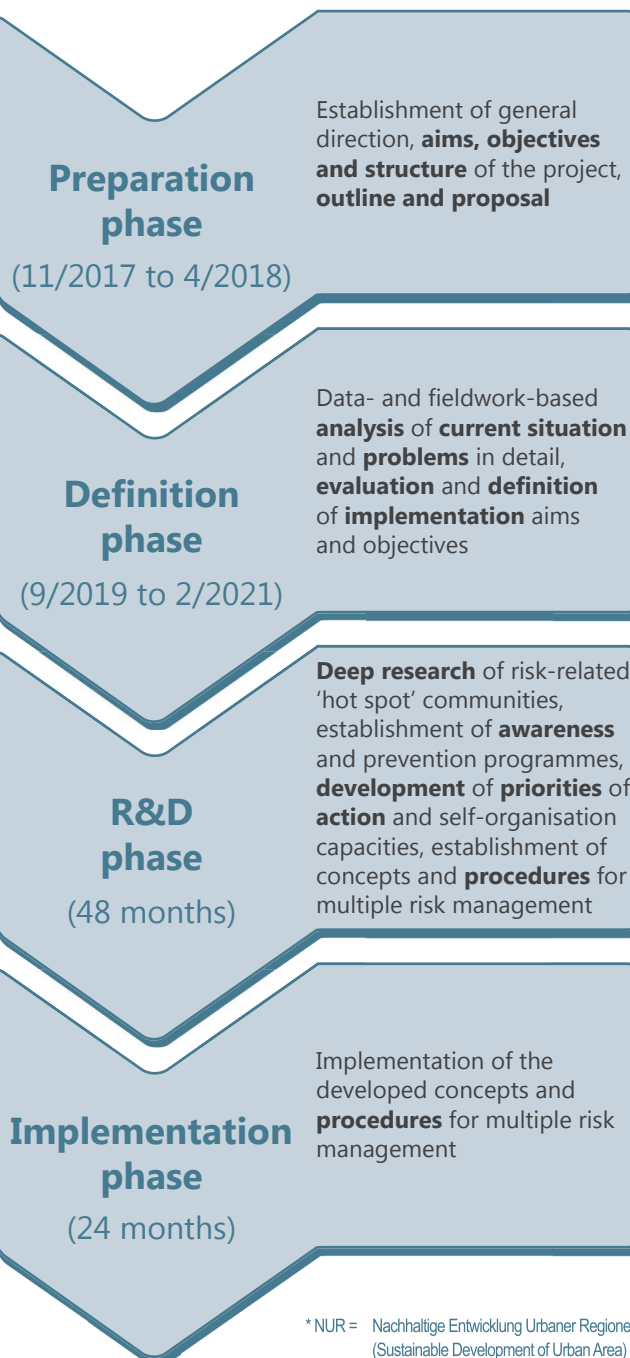
3 Yangon natural risk exposure:

- **Earthquakes**
- **Flooding**
- **Tropical storms**

Sule Pagoda, Sule Pagoda Road (Spohner 2015)



Phases of the NUR* joint project



* NUR = Nachhaltige Entwicklung Urbaner Regionen
(Sustainable Development of Urban Area)

Objectives and research design

- 1 **Data collection, digitalisation** and dissemination of **information about multiple risks**
- 2 **Awareness and prevention programme** for **preventing** the **loss of personal documents**
- 3 **Prevention programme for the loss of the economic basis**
- 4 **Awareness programme** to **ensure basic access** to infrastructure

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)

