



Die RAINMAN-Toolbox: Eine Methodensammlung zum Starkregenrisikomanagement

 15. Sächsische Gewässertage | Haus der Kirche Dresden | 27.11.2018

 Florian Kerl | Sächsisches Landesamt für Umwelt, Landwirtschaft und Geologie

STARKREGEN IN DEUTSCHLAND

Stationsdaten

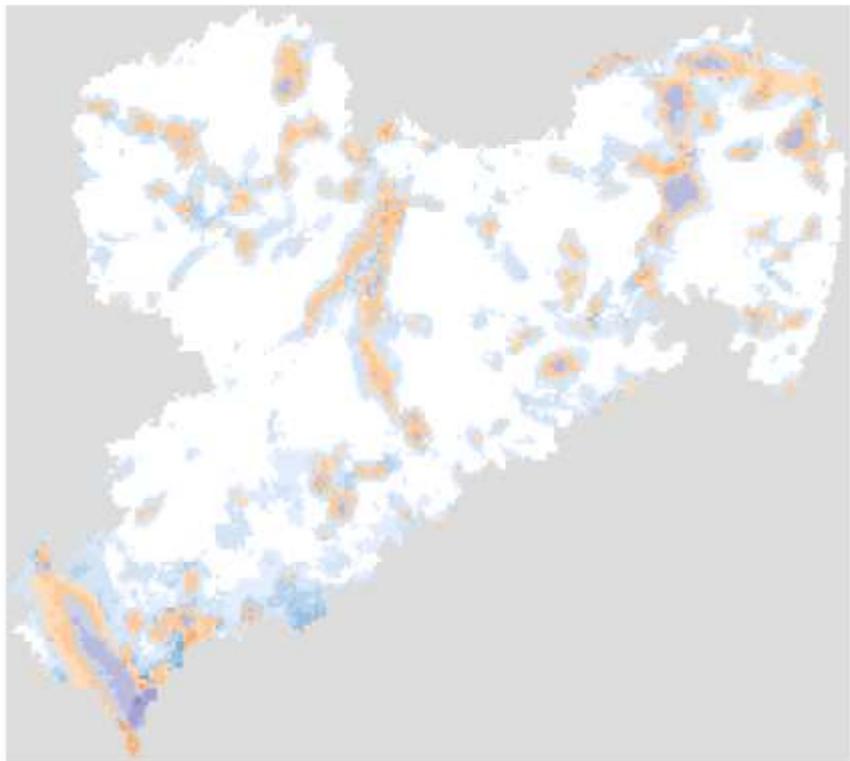
Radarklimatologie



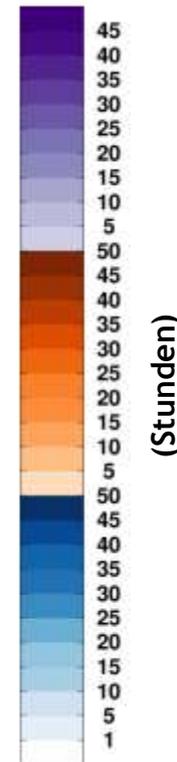
Quelle: DWD 2017, <https://bit.ly/2S396LG>, S.53

Radardaten vom 23.05.2018 - 21.06.2018

Wie oft wurden Niederschlagsmengen entsprechend der DWD Unwetterwarnkriterien überschritten?



Datengrundlage: RADOLAN RW Produkt des DWD



Extremes Unwetter
> 40 l/m² in 1 Stunde
> 60 l/m² in 6 Stunden

Unwetter:
> 25 l/m² in 1 Stunde
> 35 l/m² in 6 Stunden

Markantes Wetter:
15 bis 25 l/m² in 1 Stunde
20 bis 35 l/m² in 6 Stunden



- pot. Überflutungsgefahr darstellen
Was kann passieren?
- pot. Schäden abschätzen und bewerten/
Risiken ermitteln
Was darf passieren?
- Vorsorge treffen,
um Schadenspotenzial/
Risiko zu minimieren
Was kann ich tun?



Quelle: LUBW 2016, <https://bit.ly/2DJz7ZK>, S.10

STARKREGENRISIKOMANAGEMENT



<https://bit.ly/2r6ZYue>

Privatpersonen

EU



<https://bit.ly/2CGAeN4>

WER??

Kommunen



Strukturplan
Regenwasser 2030
Zukunftsfähige
Umsatzplan Regenwasser
Entwicklung

<https://bit.ly/2zur9Ue>

Länder



<https://bit.ly/2JJ1ric>



<https://bit.ly/2oirZxt>

Bund



<https://bit.ly/2DXBKLu>

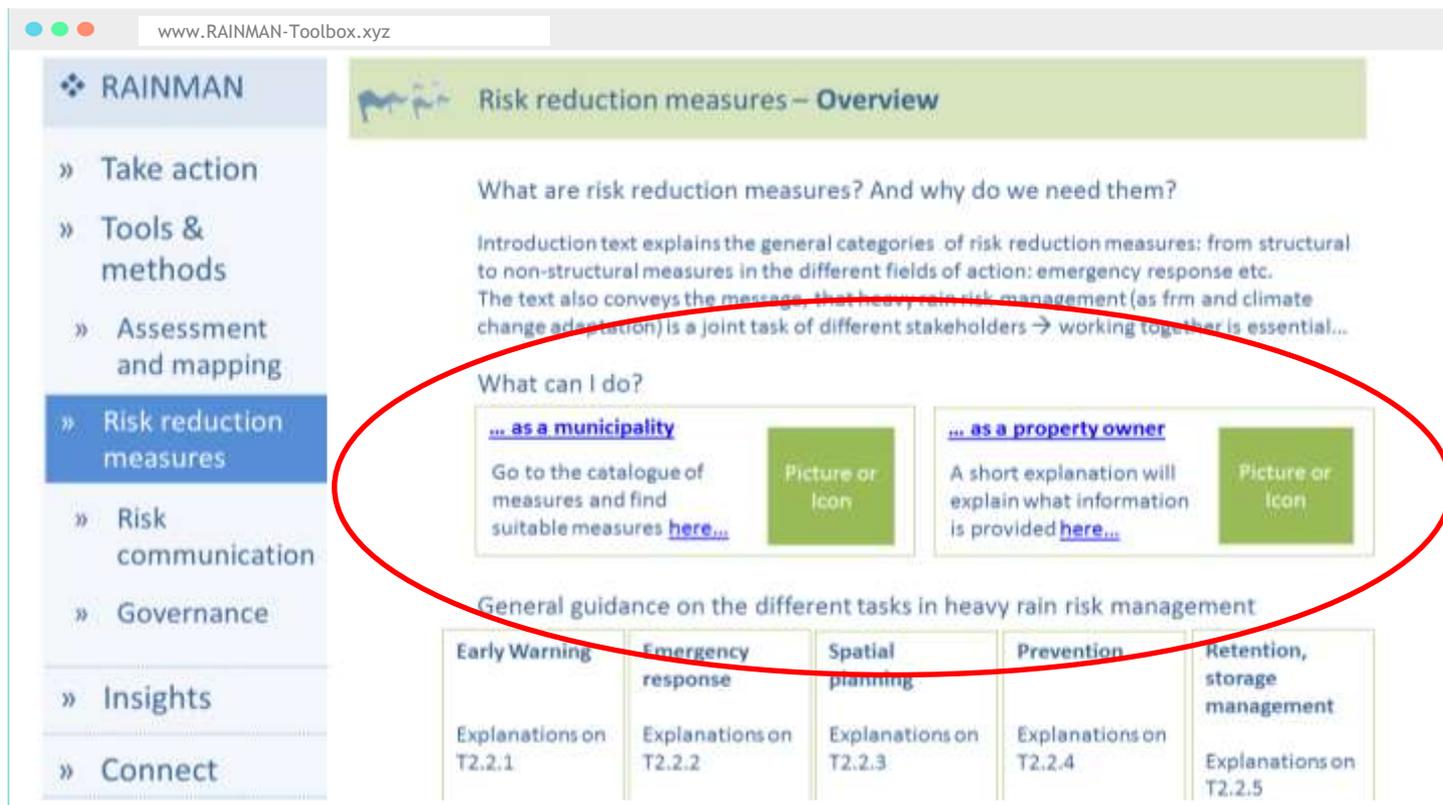
Online Befragung (Februar – Mai 2018, n = 83/367)

- Befragte haben meist Erfahrung mit Starkregenereignissen
- Wunsch nach Informationen/Anleitung hauptsächlich zur Gefahren- / Risikoanalyse
- Bedarf an (personellen)/finanziellen Ressourcen durchweg angemeldet

Informationsplattform
ZU
Methoden und Maßnahmen des
Starkregenrisikomanagements



The screenshot shows a web browser window with the URL www.RAINMAN-Toolbox.xyz. The page features the Interreg Central Europe logo and the RAINMAN logo. The main navigation menu on the left includes: RAINMAN, Take action, Tools & methods (highlighted), Assessment and mapping, Risk reduction measures, and Risk communication. The main content area is titled "Tools & methods" and contains four categories: Assessment and mapping, Risk reduction measures, Risk communication, and Governance. Each category has a corresponding icon and a dropdown arrow.



www.RAINMAN-Toolbox.xyz

RAINMAN

- » Take action
- » Tools & methods
- » Assessment and mapping
- » Risk reduction measures**
- » Risk communication
- » Governance
- » Insights
- » Connect

Risk reduction measures – Overview

What are risk reduction measures? And why do we need them?

Introduction text explains the general categories of risk reduction measures: from structural to non-structural measures in the different fields of action: emergency response etc. The text also conveys the message, that heavy rain risk management (as from and climate change adaptation) is a joint task of different stakeholders → working together is essential...

What can I do?

... as a municipality

Go to the catalogue of measures and find suitable measures [here...](#) 

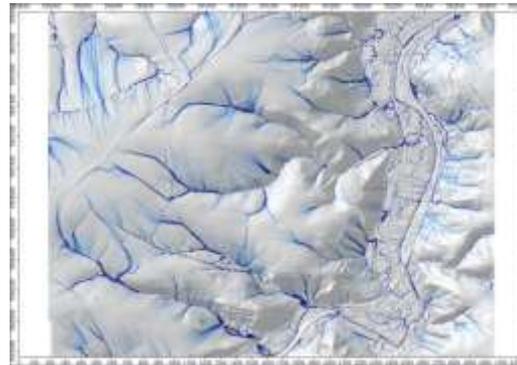
... as a property owner

A short explanation will explain what information is provided [here...](#) 

General guidance on the different tasks in heavy rain risk management

Early Warning	Emergency response	Spatial planning	Prevention	Retention, storage management
Explanations on T2.2.1	Explanations on T2.2.2	Explanations on T2.2.3	Explanations on T2.2.4	Explanations on T2.2.5

Gefahren-/Risikoanalyse



Maßnahmen zur Reduktion des Risikos

Prävention | Schutz | Bereitschaft | Gefahrenabwehr | Bewältigung & Erkenntnisse

Frühwarnung



<https://bit.ly/2DJi112>

Raumplanung



<https://bit.ly/2TJ3Uyk>



Retentionsmaßnahmen



<https://bit.ly/2SeRrB8>



Quelle: LAWA 2018, <https://bit.ly/2DXBKLu>, S.30

CONTACT DETAILS

Florian Kerl
Scientific Coordinator RAINMAN
E-Mail: florian.kerl@smul.sachsen.de
Phone: +49 351 8928 4509

Lead Partner

Saxon State Office for Environment,
Agriculture and Geology
Dr.-Ing. habil. Uwe Müller
E-mail: Abteilung4-LfULG@smul.sachsen.de
Phone: +49 351 8928 4000

LANDESAMT FÜR UMWELT,
LANDWIRTSCHAFT
UND GEOLOGIE



www.interreg-central.eu/rainman