



LET THE RAINMAN EXPERIENCE GUIDE YOU...

In RAINMAN, different tools and methods were tested in different landscapes (from flatlands to mountains) and settings (from urban to rural areas or agricultural land). In short factsheets the essential facts, results and lessons-learned were summarised to inspire you to take action.



- Saxony, Germany
- Lower Silesia, Poland
- South Bohemia, Czech Republic
- Upper Austria
- Graz, Austria
- Zagreb and Umaški potok, Croatia
- Tiszakécske and Kunhegyes, Hungary

Get to know the "RAINMAN-Toolbox!"
<https://rainman-toolbox.eu>



ABOUT RAINMAN

The RAINMAN project began its work in 2017 with a consortium of ten partner institutions from six countries. The partnership jointly developed innovative methods and new tools to support municipalities and regions to cope with the hazards of heavy rain.

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PROJECT PARTNER



ENVIRONMENT AGENCY AUSTRIA umweltbundesamt^U



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RAINMAN

**BE PREPARED FOR THE
NEXT HEAVY RAIN EVENT!**
Get to know the RAINMAN-Toolbox





ARE YOU READY TO TAKE ACTION?

Heavy rainfall events can lead to high losses and damages, especially if those affected are not prepared.

The RAINMAN-Toolbox supports you with background information and guidance on integrative heavy rain risk management.

KEY FACTS ABOUT HEAVY RAIN EVENTS



- Heavy rain events often occur in connection with severe summer thunderstorms.
- They lead to local flooding, e.g. due to uncontrolled surface runoff in the area, and sometimes cause extreme damage.
- Almost any location can be affected, even if it is not located close to a water body.
- The advance warning time is extremely short and the exact location is hardly predictable, especially since the location of occurrence can be very limited.
- Experts expect heavy rain events to occur more frequently in the future.

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WHAT CAN BE DONE? – The RAINMAN-TOOLBOX guides you through the process:

KNOW YOUR RISKS!



It is important to identify areas with a high risk using tailored assessment and mapping methods! The tool "**ASSESSMENT and MAPPING**" explains the different elements and steps that a risk assessment for heavy rain induced flooding might consist of. It shows different methodological approaches for these steps and describes their pros and cons as well as data demands and possible results.



RISK COMMUNICATION IS THE KEY!



Those potentially affected have to be aware of and understand the risks of heavy rain sufficiently to act accordingly or implement risk reduction measures. Therefore, risk communication is key! The tool "**RISK COMMUNICATION**" explains how and which messages should be conveyed to the relevant persons and institutions. Good practice examples show specific possibilities for action and inspire your own action.



TAKE PRECAUTIONS TO REDUCE THE RISKS!

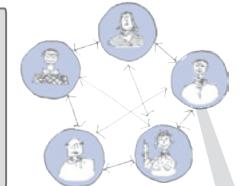


At local level, precautions must be taken to minimise the damage! The Tool "**RISK REDUCTION MEASURES**" helps local and regional administrations to find, select and implement suitable precautionary measures and gives additional guidance in the fields of spatial planning, early warning, emergency response, prevention and retention.

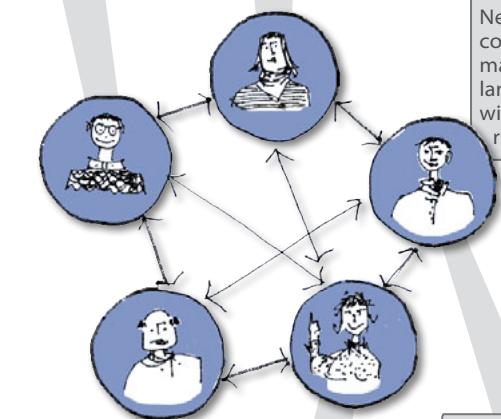
INVOLVE DIFFERENT STAKEHOLDERS IN THE PROCESS!

Municipal and external experts: risk reduction measures can create valuable synergies or conflicts with other topics.

Political decision makers: need to be well informed about potential risks from heavy rain events.



Other municipalities: Neighbouring communities may have similar problems with heavy rain.



Land owners, forestry and agricultural stakeholders: Surface runoff can play a major role during heavy rain events. Land owners, forestry and agricultural stakeholders are affected and key players for potential solutions.

Rescue and emergency services: need to be well prepared in order to minimize the losses and damages resulting from a heavy rain event.

Affected citizens, local business and infrastructure providers: Private prevention and protection measures can significantly reduce the risks and potential damages.