

# FACTSHEET RISK COMMUNICATION MEASURES

## Establishing a (flash) flood early warning system in Saxony by making end users familiar with it

#### Where was it implemented?

Saxony, Germany

#### Fields of action

• Early warning and disaster management

# Related to measure from the catalogue of measures

- Provision of information as reading materials
- Establishing and operating monitoring systems and forecast models
- Implementation and usage of early warning systems incl. collection and assessment of supplementing information

#### Target group

Local authorities, general public (potentially affected citizens)

#### Problem

The (flash) flood early warning system (FEWS) of the Saxon State Office for Environment, Agriculture and Geology was launched in early 2018. The target group of the FEWS spans from private persons to local authorities which are responsible for taking emergency response measures. After launch, it was crucial to make the system known and the target group familiar with its skills. It had to be ensured that that they receive the information and interpret warning correctly. Municiplaities serve here as multipliers.

## Description and aim

To make the FEWS known to the target group, the Saxon Flood Centre promoted the launch via several information channels: media, the Saxon Flood Centre web page as well as presentations in events with the target group. To reach the general public, a press release was published by the State Office, a press meeting was held and two staff members of the Saxon Flood Centre gave interviews for an article in a local newspaper. Local authorities were informed via presentations in annual meetings and via an article in the annual proceedings of the German Association for Water, Wastewater and Waste. Apart from press work, the Saxon Flood Center endeavored to ensure a low level and easy access to the warning information. A guidance video was created and was made available on the Saxon Flood Centre web page <u>www.hochwasserzentrum.sachsen.de</u>, wherein the system and its limitations are explained in easy language and in combination with easy understandable visuals. For a convenient access to warning information a RSS feed was set up and allows users to customize the warning information via e.g. a feed reader. It is additionally planned to make the warning information available over a widely used flood information app.

Additionally, there was a close exchange with the RAINMAN project staff, who also promoted the early warning system in the pilot actions in Saxony, trained municipal personnel and collected and passed on feedback from

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The front end of the FEWS is a traffic light map for 16 warning areas in the Free State of Saxony. A five-color scheme indicates the actual (flash) flood hazard for the next 24h on the website of the Saxon Flood Centre.

Source: Screenshot from the Saxon Flood Centre web page, URL: <u>www.hochwasserzentrum.sachsen.de</u>



users to EWS developers.

What turned out to be difficult was the lack of integration of the system into the official flood warning system of the Free State of Saxony.

## Effect of measure

On the one hand, all efforts payed off as the Saxon Flood Centre received much positive feedback. On the other hand, it has to be acknowledged that the pure availability of warning information on a website does not mean that the information is taken up by recipients at risk. The target group oriented communication and training of the recipients has to be recognized as an important - probably the most important - part of an early warning SYSTEM itself. Therefore the work will continue.

# Description of implementation

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Implementation:	Effect horizon:		
Since 01/2018 (ongoing)	Medium-/long-term		
Initiator / responsible:	Involved stakeholders:		
Saxon State Office for Environment, Agriculture and Geology, Saxon Flood Centre	-	and Leutersdorf (as test users), further ts of official flood warnings in Saxony	
Lessons-learned			
Main success factor: Personal contact with end users, clear messages and communication of limitations.		CHWASSER	
Main challenge: Continuous promotion and maintenance of the system in interaction with the target group			
Synergies / beneficial aspects: Effort in making an EWS known to its users can be understood also as risk reduction activity	S	<b>STEM</b>	
<b>Conflicts / constraints:</b> Different systems offer information of varying accuracy. It must be explained very well for which case which system is the right one and which information source suits for whom.	A 2.5-minutes movie, accessible on the web page of the Saxon Flood Centre explains the system and its limitations. Source: Screenshot from the Saxon Flood Centre web page		
Key message to others starting with a similar task		Contact	
Designing and implementing an EWS is a long-term process and requires		Saxon State Office for Environment, Agriculture and Geology	

Designing and implementing an EWS is a long-term process and requires	Saxon State Office for Environment,
a lot of effort in making the end users familiar with the provided	Agriculture and Geology
information. Training and consultation options are crucial as well a	Saxon Flood Centre
clear communication of the limitations of warning information.	E-Mail: lhwz.lfulg@smul.sachsen.de

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Further information	Kerl, F.; Philipp, A. (2019): Hochwasserfrühwarnung in Sachsen, in: Deutsche Vereinigung für Wasserwirtschaft, Abwasser und Abfall e.V. (DWA) Landesverband Sachsen/Thüringen (Hrsg.): Gewässer-Nachbarschaften DWA-Landesverband Sachsen/Thüringen 2019, S. 185-190.
	Landesamt für Umwelt, Landwirtschaft und Geologie (Hrsg.) (2017): Hochwasserfrühwarnung für kleine Einzugsgebiete - Möglichkeiten und Grenzen im Lichte operationeller Anforderungen am Beispiel Sachsens, URL: <u>https://publikationen.sachsen.de/bdb/artikel/30155</u> (25.02.2020).
	Philipp, A., Kerl, F., Büttner, U., Metzkes, C., Singer, T., Wagner, M., and Schütze, N. (2016): Small-scale (flash) flood early warning in the light of operational requirements: opportunities and limits with regard to user demands, driving data, and hydrologic modeling techniques, Proc. IAHS, 373, 201-208, URL: <u>https://doi.org/10.5194/piahs-373-201-2016</u> .

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