





# The role of impact information in emergency management

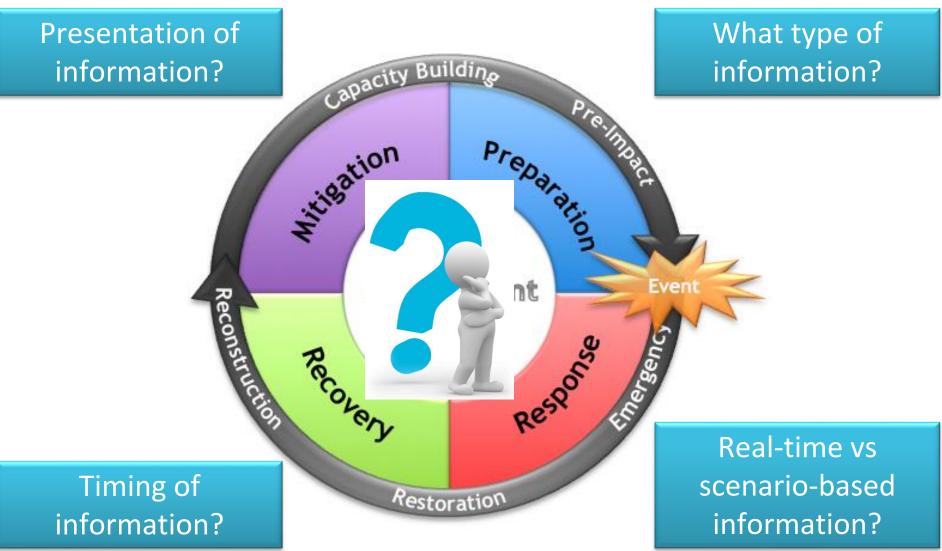
An impact-based forecasting study in Kraljevo, Serbia

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1 oktober 2018

#### Impact-based forecasting







## Information needs in emergency management

#### Aim of the study:

Learn more about the <u>information needs</u>
of end-users and decision makers with
respect to <u>impact-based forecasting</u> and
<u>emergency management</u>



#### Municipality of Kraljevo, Serbia



Area: 1530 km<sup>2</sup>

Population:122782 citizens in 92 settlements

#### **Environment:**

- 3 primary rivers (national): Gruža, Ibar and West Mora
- Around 150 secondary rivers (local)
- 70% mountain terrain

#### Cultural heritage and recreation:

- Manostery Žiča and UNESCO protected Studenica
- Mataruška spa, Bogutovačka spa, Sirčanska spa, Vitanovačka spa





#### A study in Kraljevo, Serbia







**LANDSLIDES** 



**STORM WINDS** 



FLOODS Deltares

## A study in Kraljevo, Serbia





**FIRES** 



**SNOWDRIFTS** 



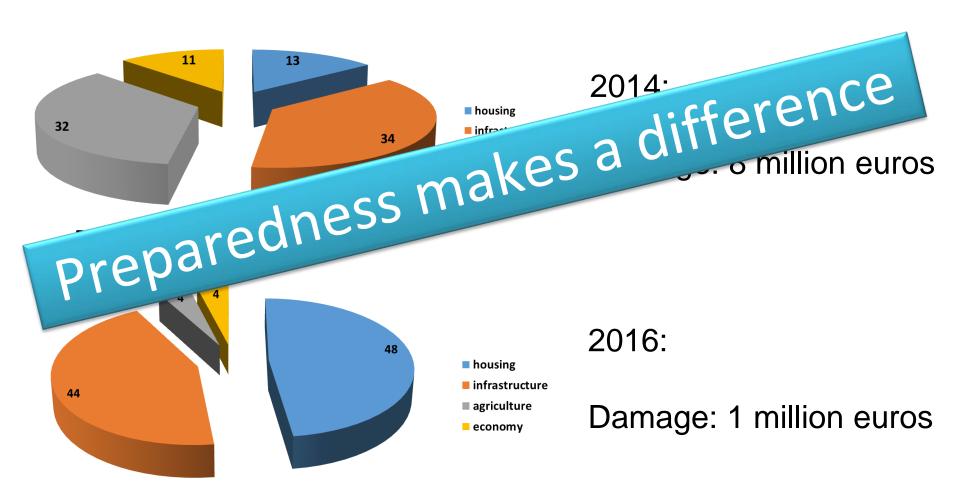
**EARTHQUAKES** 



#### A study in Kraljevo, Serbia



Damage after 2014 flood (%)





## Key messages learnt from Kraljevo



Integrated perspective

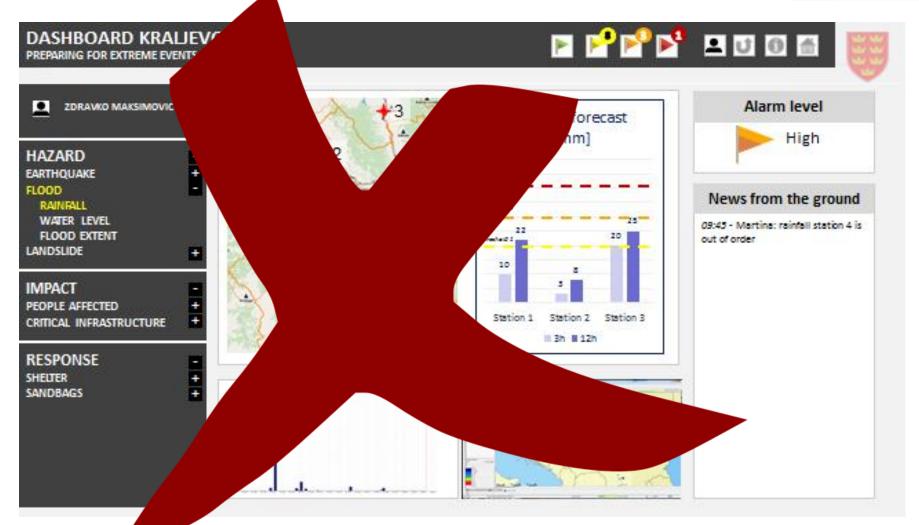
Trust and relationships

Relevant information



#### **Information needs**

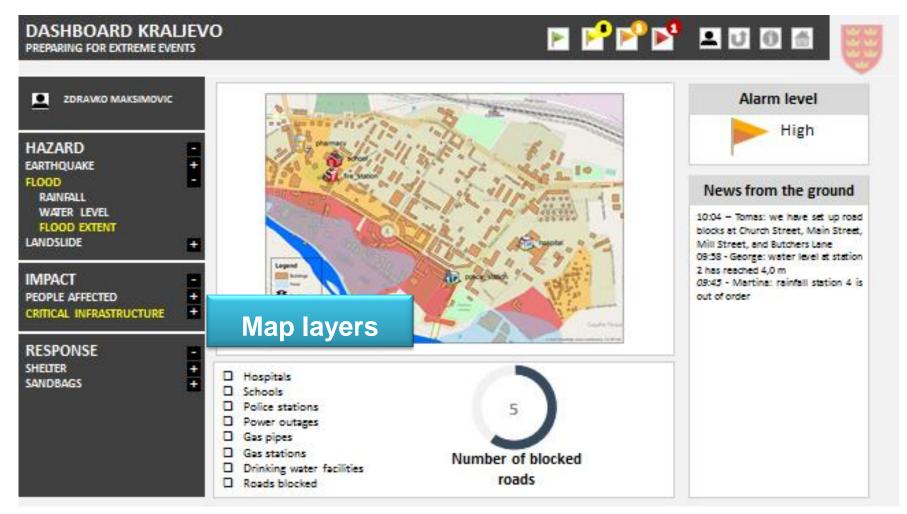






#### Information needs - logistical

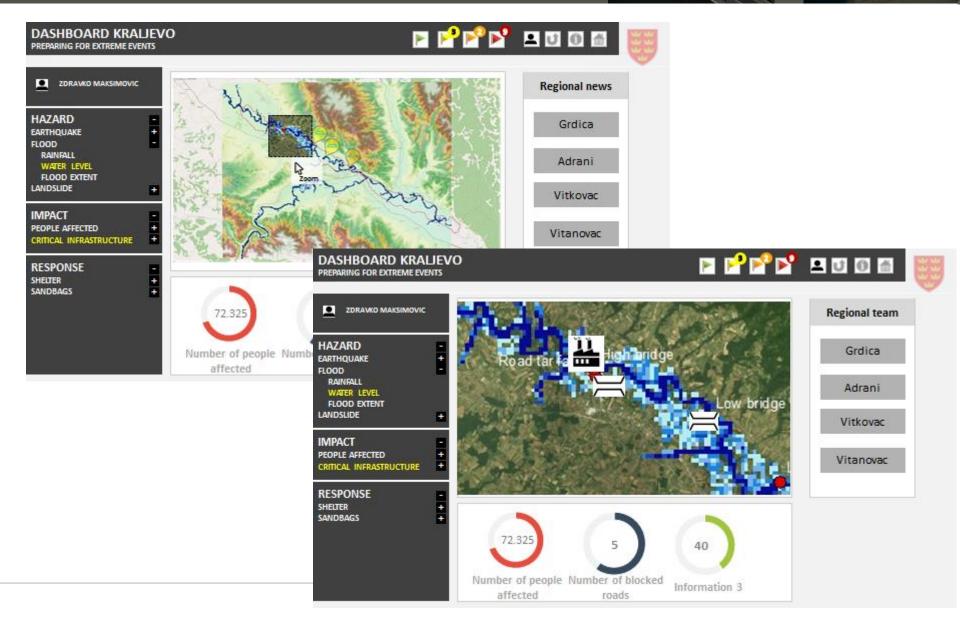






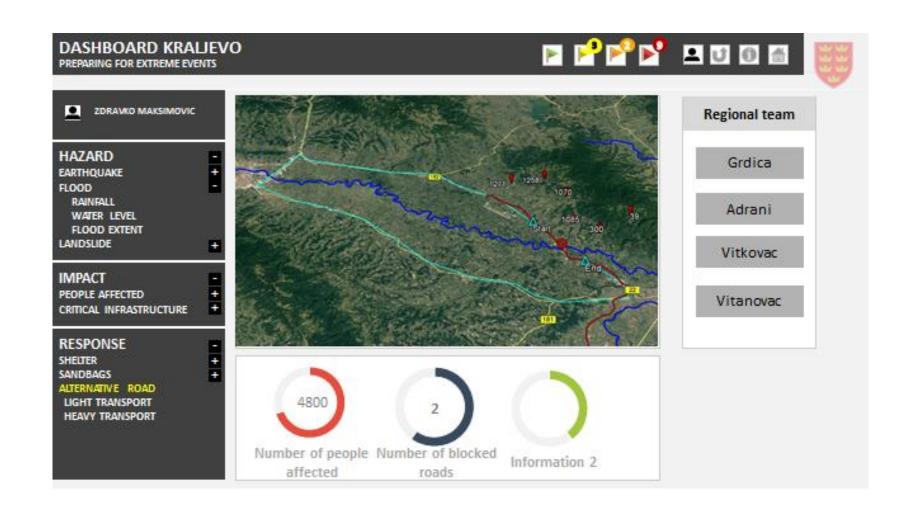
#### Information needs – problem spots





#### Information needs - alternatives

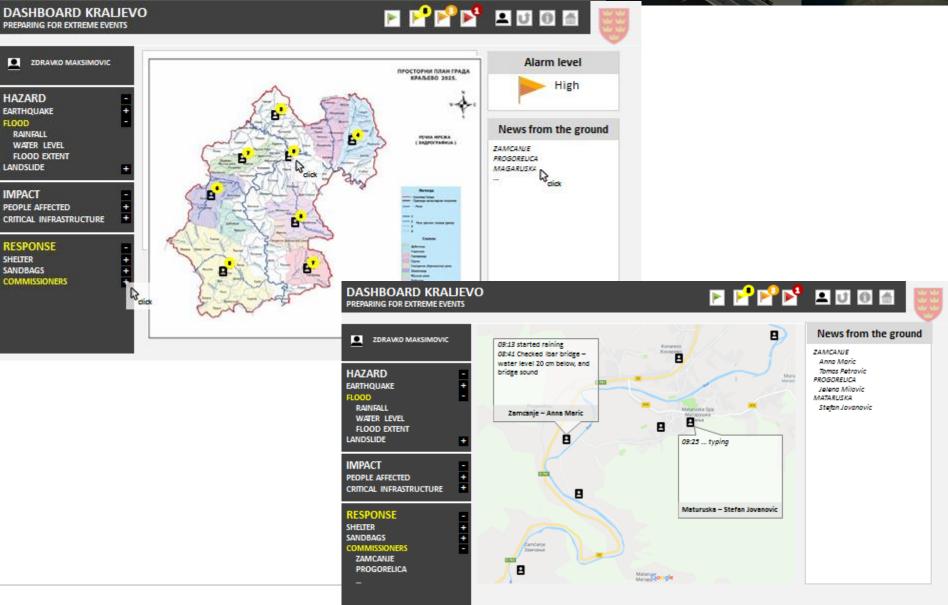






#### Information needs – interactive input





## Key messages learnt from Kraljevo



Integrated perspective

Trust and relationships

Relevant information





## Feedback?

Anecdotes?

Reactions?

Questions?

**Deltares**