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Developing a resilient community



Edzell Flood Group

Dr Fiona Work and Peter Walls

December 2012: insider story

- 44 properties
- 1 million pounds of damage
- Wishop Burn –fluvial- our unique story
- Difference between council and community findings related to insurance and selling properties
- Longest decanted villager- 10 months
- Edzell Flood group formed January 2013
- No further property damage since the group formed



The face of flooding of a home







10 month drying processes





Who are we?



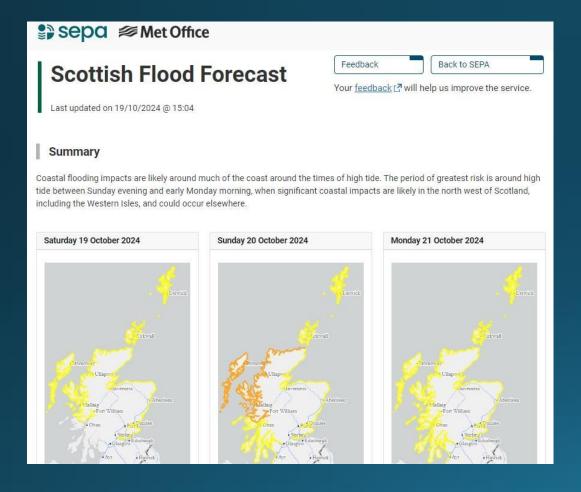


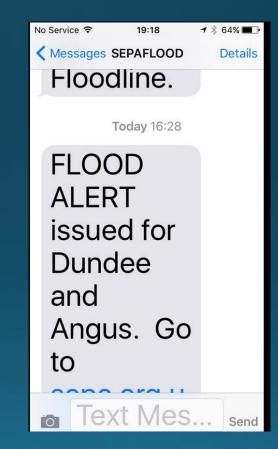
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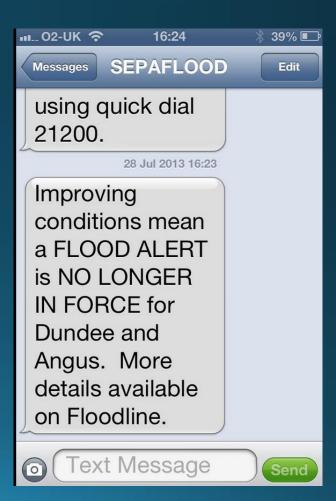
Resilience means to us

"It is widely accepted that flooding cannot always be prevented, but flood impacts can be mitigated or reduced by adhering to resilience principles such as adequate preparation, or learning from past events". (McClemont et al 2020 p1170)

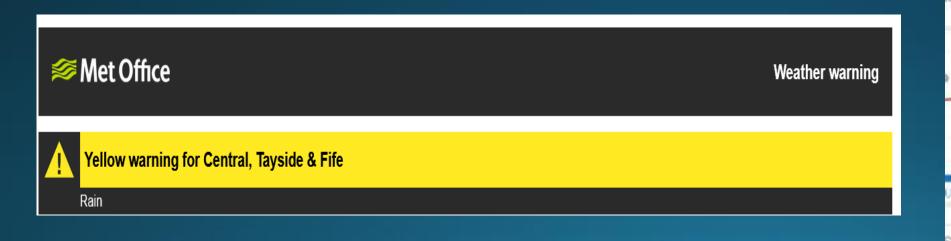
Resilience: SEPA







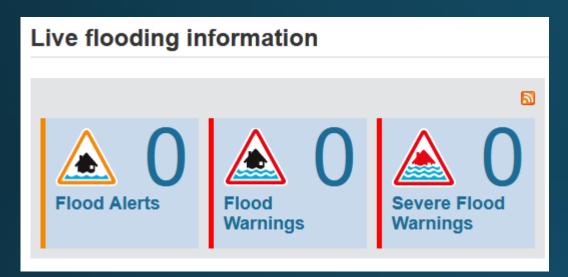
Resilience: using analytics







Supporting resilience











Deployment (22mins)

Weather Forecast

Burn Sensor

Physical Recce

Social Media – WhattsApp, Facebook - Clock Started

Village Volunteers start arriving at Shed – 7 minutes

Barriers transported and installed with Graphical Plans – 10 minutes

Supervision by Flood Warden - ongoing

Monitor - 22 minutes





Debrief events

- Core team immediate de-brief and full group meeting is decided
- Feedback becomes feed-forward
- Action plans reviewed
- New 'lists' of resilient actions
- Full Edzell Flood group meeting (if required)

Feedforward

- Working with farmers
- Working with Dalhousie Estate and SEPA
- Planting trees to counteract deforestation
- Naturalisation and non-engineering solutions
- Holding pond to slow movement through village
- Raising more funds through partnership applications



Take home messages for effective communication

- Wide flood group email list for updates and general communications.
- Edzell Flood Group action plan with communication tree and flood engineer numbers, etc.
- Utilising the SEPA three-day monitoring and signing up for SEPA Floodline alerts and warnings for wider group.
- Met Office and various apps for weather warnings (eg YR)
- Scottish Flood Group communications.
- Monitoring of Wishop Burn and flood plains using observation and RiverTrack monitoring.
- Clear communication with Angus Council resilience network.
- Use of social media (Facebook page) for general updates of SEPA warnings and calls for action.
- WhatsApp group for flood wardens who will undertake actions such as deployment of barriers.
- * De-briefs on significant events to feed forward actions from the feedback of members.

References

 McCLEMONT et al. 2020. Flood resilience: a systematic review. Journal of environmental planning and management. Vol 63. Issue 7. pp

