





Managing local flood risks in rural areas: experiences of Lead Local Flood Authorities

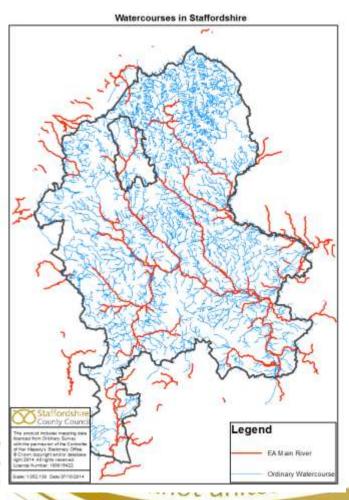
Hannah Burgess, Flood Risk Manager September 2017 the knot unites



- 70 local authority, 15 LEP and 10 corporate partner members
- Established in 2010 and previously the County Surveyors' Society
- Influences government policy and represents public sector interests
- Remit includes
 - growth & devolution
 - transport & communications
 - planning & housing
 - environment including waste, water management, energy



What is a LLFA?





Rural flood risk challenges

- Rapid runoff
- Peri urban issues
- Ad hoc development over the 'village sewer'
- Drainage infrastructure ageing, fragmented & in poor condition
- Lack of clarity and lots of assumptions



Urban v. Rural

- Lower property numbers but:
 - How frequently does it flood?
 - How complex and severe is the flooding?
 - What is the impact on that community?
 - Community engagement
 - Agricultural businesses
 - Infrastructure impacts



Social characteristics

- Not represented well by commonly used measures, which do not pick up the very fine grained nature of social disadvantage
- Ethnicity, age, income and property types all have a slightly different profile for rural communities – not fully represented in appraisal for schemes



Funding schemes

- National funding for schemes is based on payment for outcomes
- Regional funding allocated by RFCCs
- Infrastructure funding is strongly linked to growth: this can be a challenge for rural areas
- Catchment based approaches



What do local schemes look like?

- "Traditional" schemes often impractical, low cost: benefit and unfundable
- Is a capital scheme the answer?
- Property Level Protection?
- Local measures?
- Natural Flood Management?
- Community engagement?







Challenges for rural schemes

- Having a cost: beneficial scheme
- Having full funding for a scheme: who makes up the short fall?
- Should beneficiaries contribute?
- Small schemes and the wealth of evidence
- Local government funding for FRM varies
- Need to link into wider opportunities



Aveton Bishop, Devon



- 3 properties
- Severe, frequent flooding
- Culvert enlargement
- Parish Council and the affected properties contributed towards the scheme



Branscombe, Devon

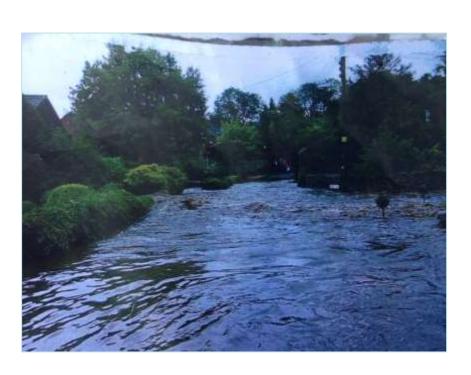




- Small steep catchment
- Frequent flooding of up to 20 properties and the pub
- £180,000 scheme funded by DCC highways and FRM, Grant in Aid



Endon, Staffs



- 67 properties, vets, pub, garage and A road
- Steep rural catchment
- NFM plus local measures and some PLR
- Scheme cost £450k
- Funding situation is complex

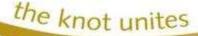


Natural Flood Management

- Holding water back in rural areas
- Pickering 2015
- Stone and Leekbrook
- How is it funded? How is it appraised on a level playing field?
- Getting landowners on board









Community Resilience

- Working with Parishes
- Supporting Flood Action Groups
- Enabling communities to take action:
 - Locally delivered solutions
 - Community flood plans
 - Road closure schemes
 - Maintenance and monitoring the knot unites





Local delivery

- Luton, Devon: surface water diversion
- Goveton, Devon: scheme designed by community and co-funded
- Endon Bank, Staffs: Parish delivered
- Marchington, Staffs: Community Road Closure Scheme
- Leekbrook, Staffs: landowner constructed
 NFM measures





2013-14 floods

- End of December 2013 until middle of March
- 14 storms
- Only 2 days without rainfall
- Coastal surges

The effect

- 600 homes affected
- 17,000 acres flooded
- 81 road closures
- Major incident called
- The community comes together
- Cost Somerset up to £148m





Somerset Rivers Authority

- Somerset communities and businesses want a higher level of protection than is affordable from existing sources
- Needs additional funding raised through a local precept (£2.8m/ year)
- SRA manages Action Plan, delivered by partners
- Work areas include dredging & river management, land management, urban water management, resilient infrastructure and building local resilience



With special thanks to Devon, Somerset, Northumberland and Warwickshire County Councils, the Somerset Rivers Authority and the National Flood Forum

ANY QUESTIONS?

