The Somerset WAVE Project:
Flood Risk Modelling

Ken Moss
Environment Agency

www.waveproject.eu
www.somersetwave.co.uk
6 European partners
1999 River Tone floods
1 in 200 year undefended tidal (Burnham-on-Sea)
200 year undefended tidal flood extent from Brent Knoll
200 year defended tidal flood extent (Burnham-on-Sea)
200 year defended tidal flood extent from Brent Knoll
Future tidal and fluvial flood risk (2060, undefended)
100 year undefended fluvial flood extent from Glastonbury Tor

Current

With Climate Change
Taking the work forward
Workshops and Meetings

“rapid changes are very difficult to manage and adapt to”

“flooding farmland is intolerable”

“lack of watercourse maintenance is reducing conveyance”

“regulatory demands need to be appropriate to agricultural business”

“historic tension between farmers and conservationists”
Welcome to the WAVE Project
Present day: West Sedgemoor
Present day 100 year undefended fluvial
100 year undefended fluvial with climate change
2060 focus on agricultural productivity
2060 focus on biodiversity
2060 balanced multi-functional landscape
2011 Typical upland landscape
2060 focus on agricultural productivity
2060 focus on biodiversity
2060 balanced multi-functional landscape
Main Messages

- The Somerset landscape will alter
- Communities and organisations face choices
- Need to adapt and manage diverse needs

Ken Moss
Environment Agency
www.waveproject.eu
www.somersetwave.co.uk