

Partnership Delivery for Flood & Coast Erosion Schemes

Nick Lyness
Environment Agency Wessex Area Flood & Coast Risk Manager



TOPICS

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- Why Partnerships
- EA Role
- Challenges and legacy assets
- Partnership Approach
- Sandwich
- Portsmith
- Whitby
- Cleveleys
- Humber
- Ipswich
- Bridgwater
- Weymouth
- Poole



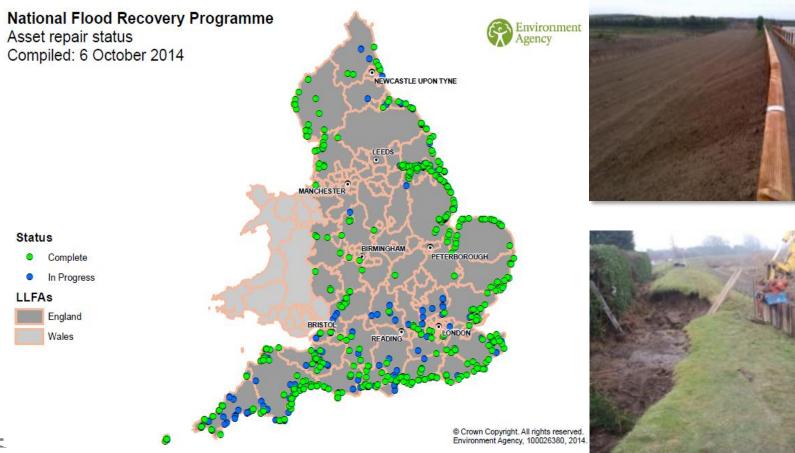


South West "A Maritime Region"





Preparations for winter 2014/15







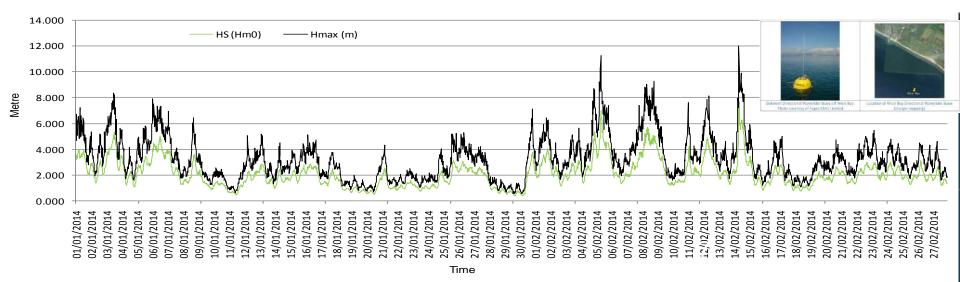


What storms?

- 22nd to 24th December 2013
- 3rd to 4th January 2014
- 6th to 7th January 2014
- 1st February 2014
- 4th to 9th February 2014
- 12th February 2014
- 14th to 16th February 2014
- 3rd March 2014.















The Storm of 5th February – Wind Force 8/9 waves 7.5m



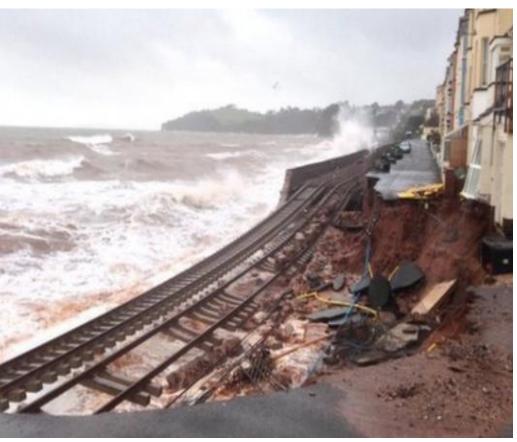




What we manage









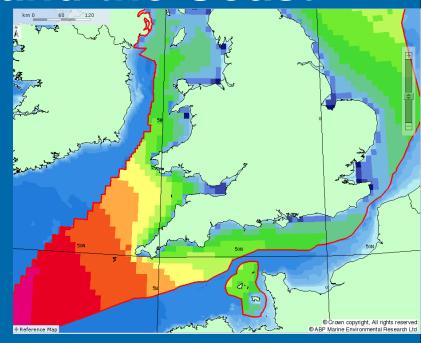
Environment Agency

Non departmental public body, responsible to DEFRA for:

- Climate change mitigation and adaptation
- Sustainable places spatial planning and development
- Flood and Coastal Risk Management (FCRM)
- Fisheries and biodiversity
- Water and land quality
- Regulating business e.g. waste management
- Water resource management
- Incident management

Environment Agency and the Coast

- DEFRA
- Strategic Overview
- Powers
- Evidence
- Funding
- Statutory Planning Consultee
- Climate Change/Sea Level
- **Bathing waters, pollution, etc**







Many Communities Dependant on Existing Infrastructure













Legacy Assets



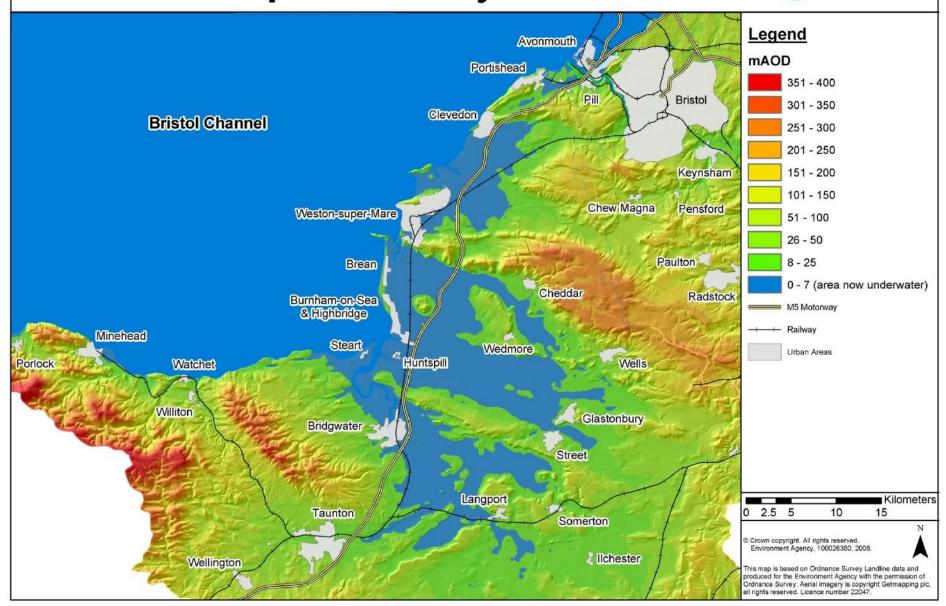






Somerset: Unprotected by Sea Defences 🔞





The Scale of the problem...

- 10 In 2010 490,000 properties at Significant risk
- By 2035 an additional 350,000 will be at risk if investment levels maintained in cash terms.
- To maintain numbers at risk at 2010 level, investment will need to double to £1040 million plus inflation by 2035 (80% increase on 2010)

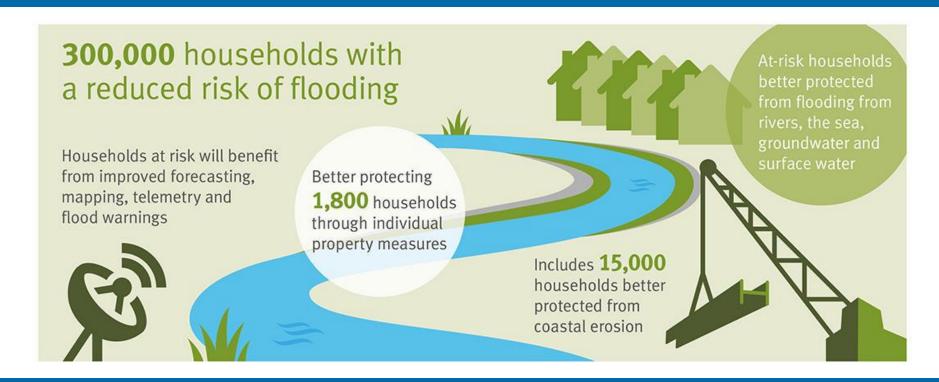


Investment programme 2015-2021





Investment programme 2015-2021





Investment programme 2015-2021



£600 million in benefits through improved

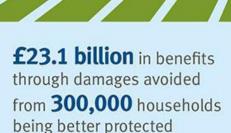
biodiversity and local environments



£5.1 billion in long term benefits to transport, infrastructure, commerce and industry

£1.5 billion

in benefits to the agriculture sector through flood risk reduction

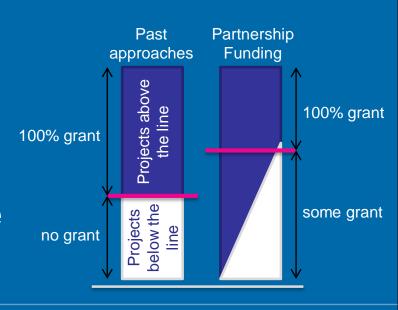


Visit gov.uk/government/publications/programme-of-flood-and-coastal-erosion-risk-management-schemes to find out what is happening in your area



Partnership Funding

- Historically Winner Takes All
- Increasing Demand
- Limited Funding
- Encourage innovation
- Private participation
- Integrated Solutions
- Help those most vulnerable



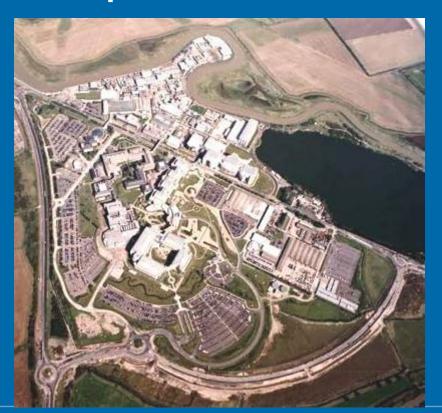


Sandwich

Town



Enterprise Zone



Sandwich Vital Statistics

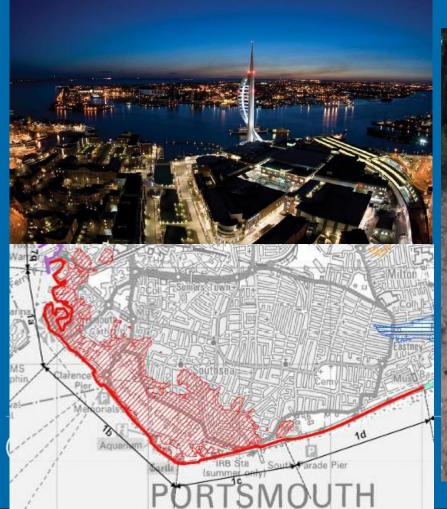
- Will cost £23m + £3m lifetime maintenance
- FCRM economic benefits £224m
- Protects 486 homes, 90 businesses
- £12.8m FCRM GiA
- £6.5m Pfizer
- ₱ £5m Kent County Council
- Deal includes maintenance payments



Portsmouth: strategic approach

Lower contribution need

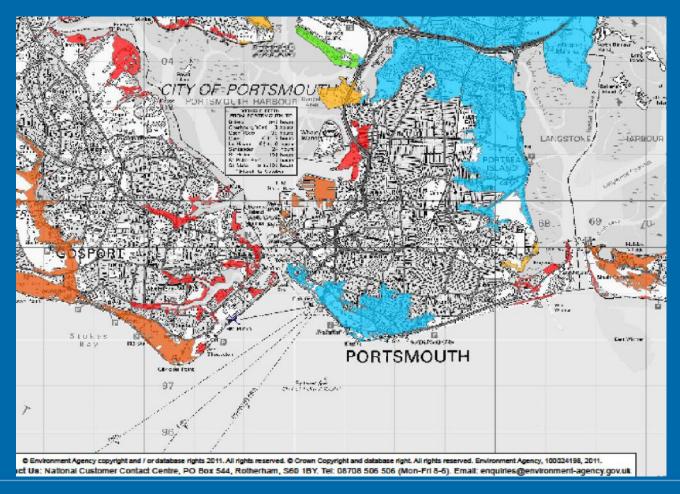
Higher contribution need





Portsmouth

Quantifying the funding shortfall





Cleveleys

- £20 million
- Defra/Wyre council/European regional Development Fund (ERDF) funding







Whitby Harbour Piers

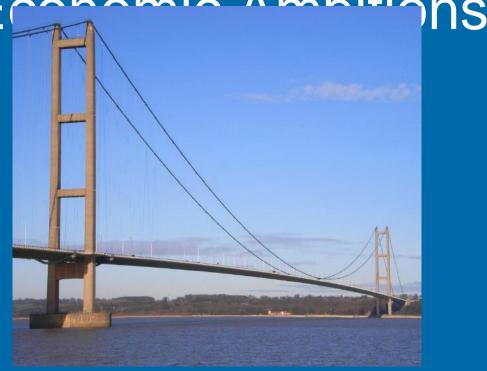
- £8.5 million scheme with £4.2 million funding from Scarborough BC







The Humber Economic Ambitions







Growth investn

90%



of Hull & East Riding properties flooded in 2007 taken out of similar flood risk

3,000 市本

jobs safeguarded by investment in Albert Dock flood defences

3,000



new homes enabled in North Lincolnshire through investment in flood defences

251,485

sqm of commercial property protected from flooding £3m



Investment in Albert Dock flood defences

£3m



investment in Hull & Holderness Flood Project

£13.3m 🗃

Investment in Lincolnshire Lakes Flood Risk Strategy

£28.3m

investment in flood defences for Cottingham, Orchard Park, Anlaby, East Ella and River Hull 62,228
properties
with reduced
flood risk
across the
Humber





Hope we can show as an example to the rest of the country how we can improve the speed of planning without compromising our statutory obligations" - Lord Haskins, LEP Chair.



















North Lincolnshire Council







1970s 15km flood defence 1 in 20 SOP

New Barrier will provide 1 in 300 SOP

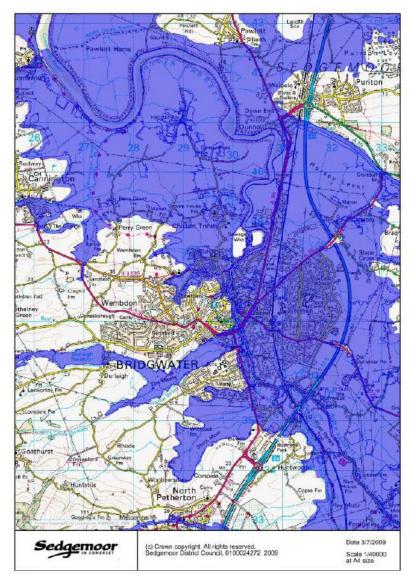
1,608 houses & 422 businesses at risk

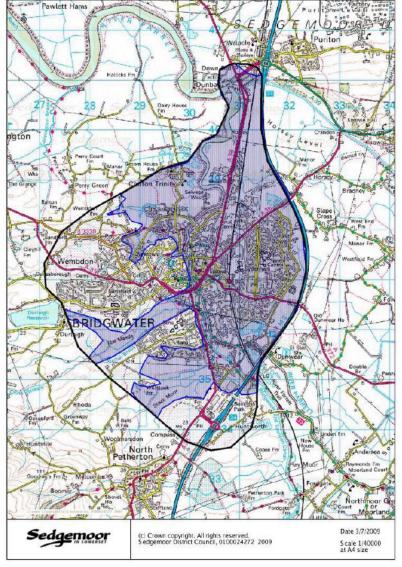
Scheme cost £58.5m

FDGIA £20.2m Local Levy £1.2m Rest £37.1m Regional Growth, LEP, IBC, Private

4,000 new jobs and 10Ha for development









The Planning Background

- Planned Growth and urban regeneration in Bridgwater required a strategic rather than a piecemeal approach to flood risk.
- Preferred flood risk solution is a Surge Barrier known as 'The Parrett Barrier' estimated cost £25m. Identified in Lower Parrett and Tone flood Risk Management Strategy.
- Need for policy approach to deal with PPS25 requirements for new development to be safe for its lifetime taking climate change into account
- Draft Supplementary Planning Document (SPD) was completed in 3 months EA/SDC. delivers a 'roof tax ' on all new development
- In Excess of £3million already collected and held by SDC



Illustrative of proposed River Parrett Tidal Surge Barrier – Gates Closed





Weston-super-Mare





Weston Villages – Urban Extension

- North Somerset Council identified as 2nd highest flood risk in country.
- Partner with NSC since 2006 to develop the Weston Vision. Integrated plan for flood risk management, employment, housing, regeneration and tourism
- Sea Defences and Seafront Enhancements completed 2010.
- The Weston Villages urban extension will include 5,500 new homes and at least 37.7ha of employment land
- Extensive flood risk to existing properties and Weston Villages addressed through comprehensive £10million flood management solutions to the Uphill Great Rhyne & River Banwell.





Defra – the wider picture

High priority but little funding nationally Integrated bid proposal – linked to future regeneration

"demonstrates a joined up approach from government by allowing the Council to make use of regeneration funds which might otherwise be lost"



Seafront Enhancements

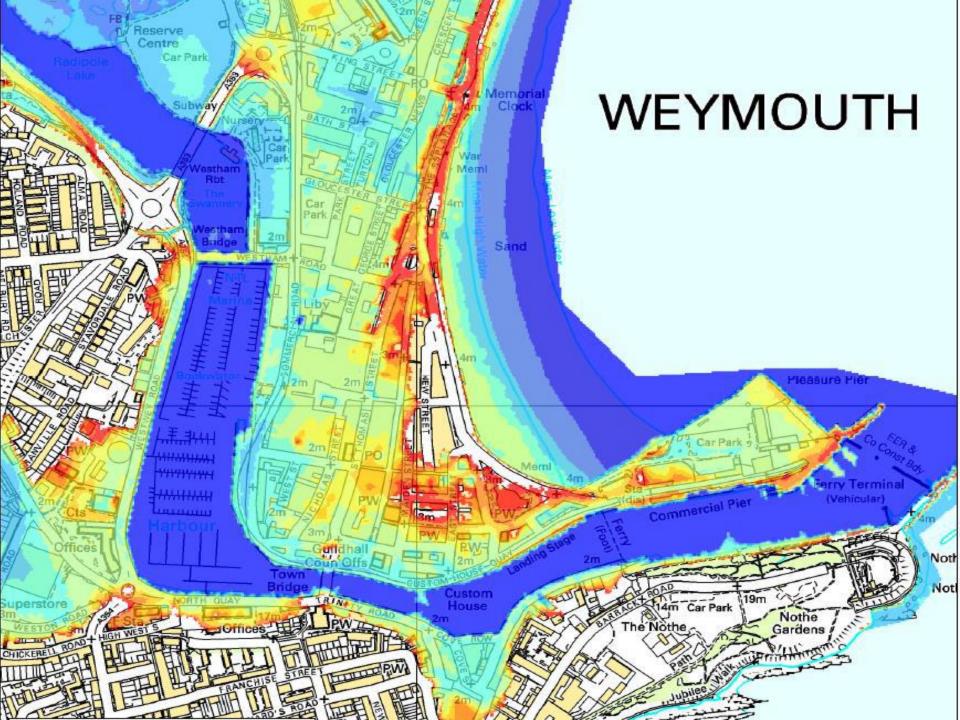




Economic impacts

- ⇒ Tourism generates 200m/yr plus
- ₱ 7,000,000 visitors in 2010
- ★ Increased spend/visitor from £41.24 in 2007 to £57.98 in 2011





The proposed flood defence scheme does not meet national eligibility criteria for Defra Grant in Aid funding

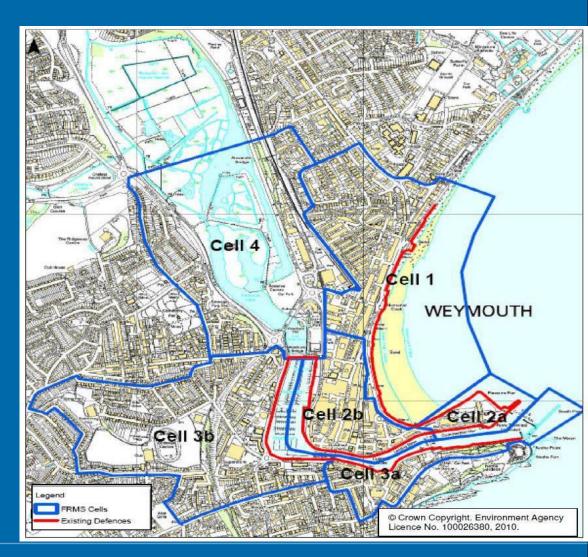
This means that in the short term, development will be constrained (due to flood risk) and in the longer term the town will suffer more frequent direct economic, social and environmental flooding impacts



The Opportunity...

A phased approach &

An agreed mechanism for contributions





Available Funding

Private funding

Gov't funding (regeneration/art etc)

LA Contributions Policy/CIL

Local Levy

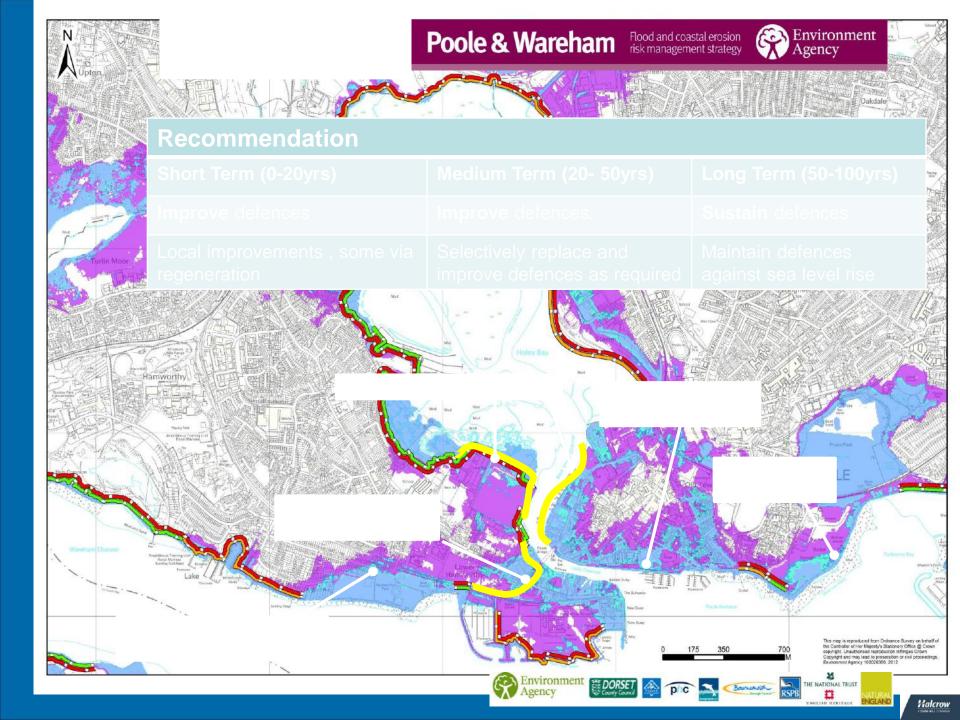
FDGiA



The Local Planning Background

- Strategic flood defence solution required if significant planned growth at Weymouth is to be accommodated, given extent of flood risk.
- Preferred solution is:
 - Replacement of quayside defences
 - Wave return wall and cut-off to Esplanade
 - Tidal surge barrier to Weymouth Harbour
 - Estimated cost £66 million
- Delivered through SPD, but will be superseded by Community Infrastructure Levy (CIL) 2014





Dealing with Residual Flood Risk

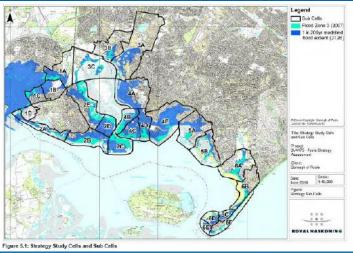
- Locating highly & more vulnerable uses such as residential on parts of the site at less risk of flooding
- Using ground floors of buildings for less vulnerable and water compatible uses i.e. commercial development, non residential institutions, marinas, amenity open space, nature conservation, car parking
- Raising floor levels where appropriate in design terms & taking into account access considerations
- Using flood resilient construction methods such as water resistant materials for floors, walls & fixtures, siting electrical controls, cables etc above flood level.



Flood Risk Management Strategy

Infrastructure delivery through development and regeneration

Community Infrastructure Levy







Conundrum/Opportunity?

- Investment in Flood Defence infrastructure significantly boosts confidence and inward investment
- Average ratio of £8 benefit for every £1 invested



Make sustainable development easier

- Offer joint Client Relationship Manager (CRM) coordinator and 'enabler',
- Respond promptly & collectively to investors' requests for early engagement
- Set out expectations, standards and requirements early, including the information needed to determine permits and licenses.
- Meet statutory response times. Where this is not possible, let Statutory Agency and Local Authority CRMs know within 7 working days.







Lessons Learned

- Developing long term relationships takes time & effort
- Get in early
- We have to 'come to the table' with something to offer
- Different organizations have different timelines, priorities and drivers
- Flexibility and openness are fundamental
- Taking and sharing measured financial risks
- The overriding control on this engagement model is development viability i.e the size of the 'cake' & can only be cut so many ways
- Partnership working is all about compromise understanding and working with the agenda of others
- Understand and brigade future funding gaps

