

Essex Shoreline Management Plan (SMP)

Update from SMP Project Manager

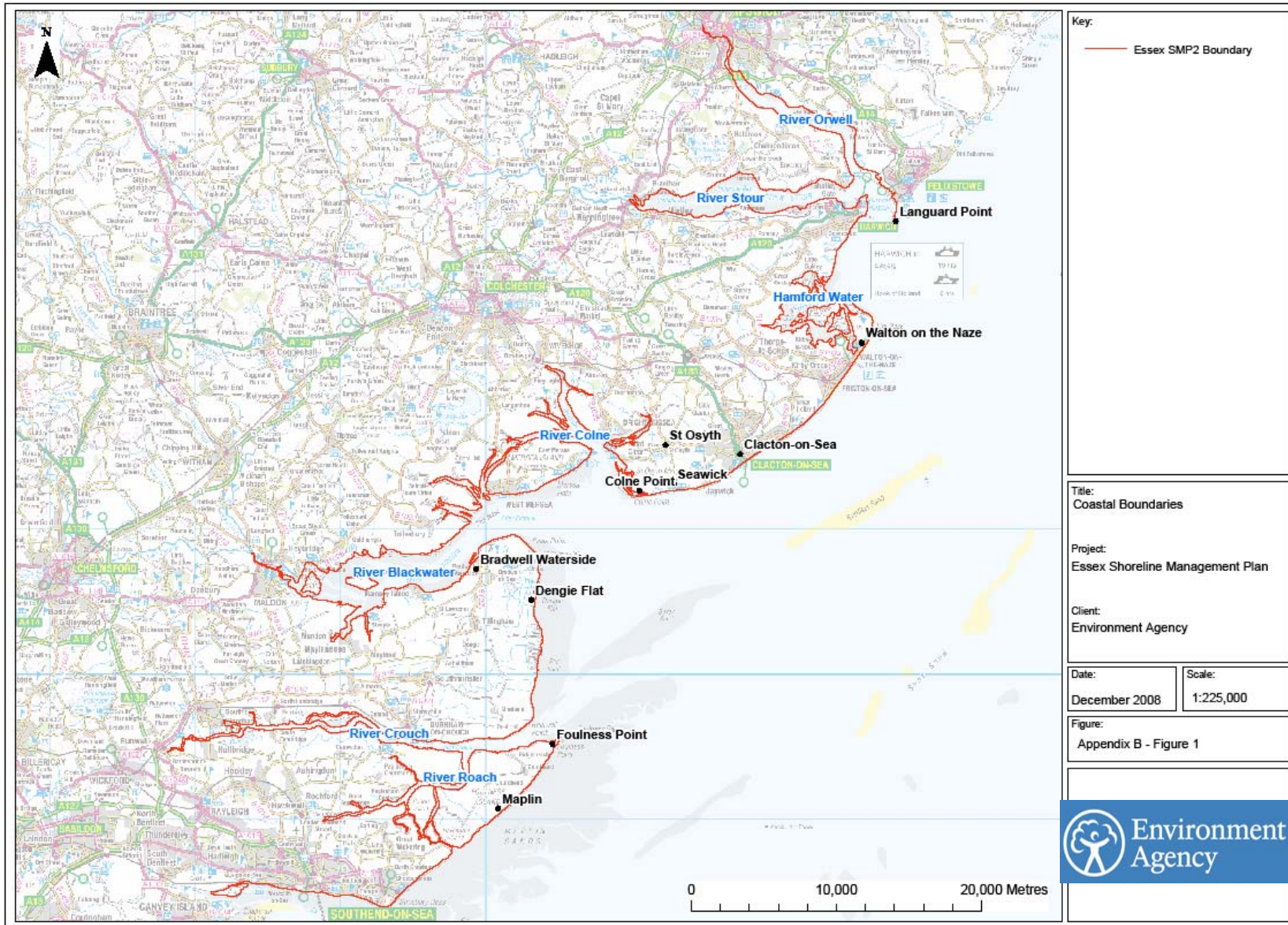
Ian Bliss

What is a Shoreline Management Plan?

- ‘A Shoreline Management Plan (SMP) is a large-scale assessment of the risks associated with coastal processes and helps to reduce these risks to people and the developed, historic and natural environment’



Essex SMP Boundary Area



Why do we need an SMP?

- Adaptation to climate change and sea level rise
- Use coastal processes to under-pin decision-making
- Manage coastal flood and erosion risks on bigger scale across admin. boundaries
- Plan for 100 years
- Inform other planning documents and processes

SMP: Background

- SMP's set the highest level of coastal flood and erosion management policy (Hold The Line, Managed Realignment, Advance The Line and No Active Intervention) for 100 years over 3 epochs
- Round 1 SMP's were underway throughout the late 1990's with a view to try and manage coastal flood and erosion defence
- Coastal Groups set up to oversee the process (Anglian Coastal Activities Group)

What's new?

- Habitats Directive, Water Framework Directive, Flood Directive, Revised SMP guidance (2006), SEA
- Essex Seawall Strategy, FutureCoast, Southern North Sea Sediment Transport Study, Coastal and Estuary Strategies, Coastal Habitat Management Plans, SMP pilots (NNDC)
- EA Coastal Strategic Overview role
- Need to link at boundaries with the Suffolk SMP and T2100

Who are the partners?



- Client Steering Group manages and steers the SMP;
- Environment Agency
- Local Operating Authorities
- Statutory Consultees for SEA
 - Natural England
 - English Heritage
- Consultants: Royal Haskoning

How is it managed?

- This is a partnership project;
- EA lead with LA's and NE through Client Steering Group (CSG)
- Elected Members' Forum (EMF)
- Stakeholders' Steering Group (KSG)
- Wider Public
- Regional SMP Group
- EA internal project team



SMP Timetable

Stage 1 – Scope the SMP (June – Aug 08)

Stage 2 – Assessments to support policy development (Aug 08 - Jan 09)

Stage 3 – Policy Development and Draft SMP (Jan – Jul 09)

Stage 4 – Public Consultation (Jul – Nov 2009)

Stage 5 – Finalise SMP and seek approval (Nov 09 – Jan 2010)

Stage 6 – Disseminate SMP (Jan 2010 – March 2010)



Stage 1

- Organise CSG and EMF membership
- Define stakeholder engagement
- Data collation
 - NFCDD
 - Estuary data
 - Sediment
 - LIDAR
- SMP definition
 - boundaries

Stage 2

- Baseline understanding of coastal behaviour and dynamics
- Develop baseline scenarios
- Theme review
- Define principles
- Identify flood and erosion risks

Stage 2

- Summary of baseline scenarios

Frontage and Scenario	Epoch 1	Epoch 2	Epoch 3
	0-20 years	20-50 years	50-100 years
Frontage A Stour/Orwell NAI	<ul style="list-style-type: none"> Defences remain until end of epoch No significant change; similar rates of loss of intertidal habitat 	<ul style="list-style-type: none"> Complete defence failure Continued erosion of intertidal habitats Increase in tidal prism of estuary causing increase in bed shear stresses Rapid erosion of London Clay <u>Dovercourt</u> frontage 	<ul style="list-style-type: none"> Continued coastal squeeze against steep land Stour: Losses of <u>saltmarsh</u> of ~110ha and losses of mudflat of ~150ha Orwell: Losses of <u>saltmarsh</u> of ~50ha and losses of coastal grazing marsh of ~75ha
Frontage A Stour/Orwell WPM	<ul style="list-style-type: none"> Little change in processes; continued erosion of intertidal habitats at present say rates 	<ul style="list-style-type: none"> Increased rate of habitat loss through coastal squeeze and sea level rise 	<ul style="list-style-type: none"> Stour: Losses of <u>saltmarsh</u> of ~120ha and losses of mudflat of ~150ha Orwell: Losses of <u>saltmarsh</u> of ~60ha and losses of mudflat of ~50ha

Stage 2

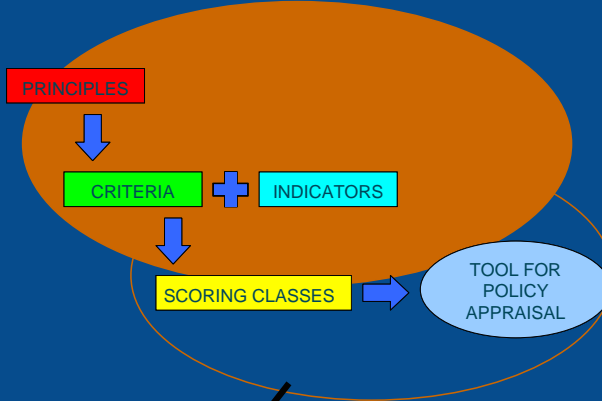
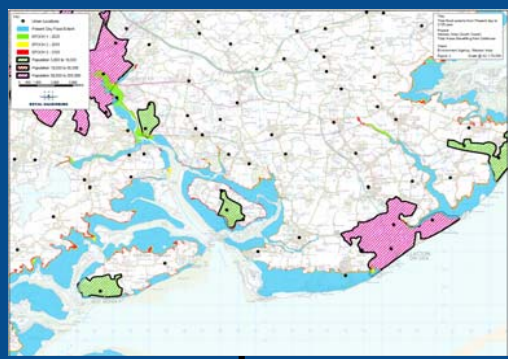
Technical tasks



BASELINE UNDERSTANDING



APPLIED UNDERSTANDING



POLICY APPRAISAL (Stage 3)

Stage 3

- Define Policy scenarios
 - Identify key drivers
 - Playing field analysis
- Define Policy Units
 - Draft 85 PDZ's
- Theme Groups and stakeholders feedback feedback
- Appraise policies
- Draft SMP document preparation