

TEAM2100



Kent County Council

Kent Flood Risk Management Committee

TEAM2100 Introduction

6 March 2017

Rebecca Murphy – Environment Agency

Victor Freeney – TEAM2100

TEA-2D-00.00-PP-SE-00-000001



TEAM2100



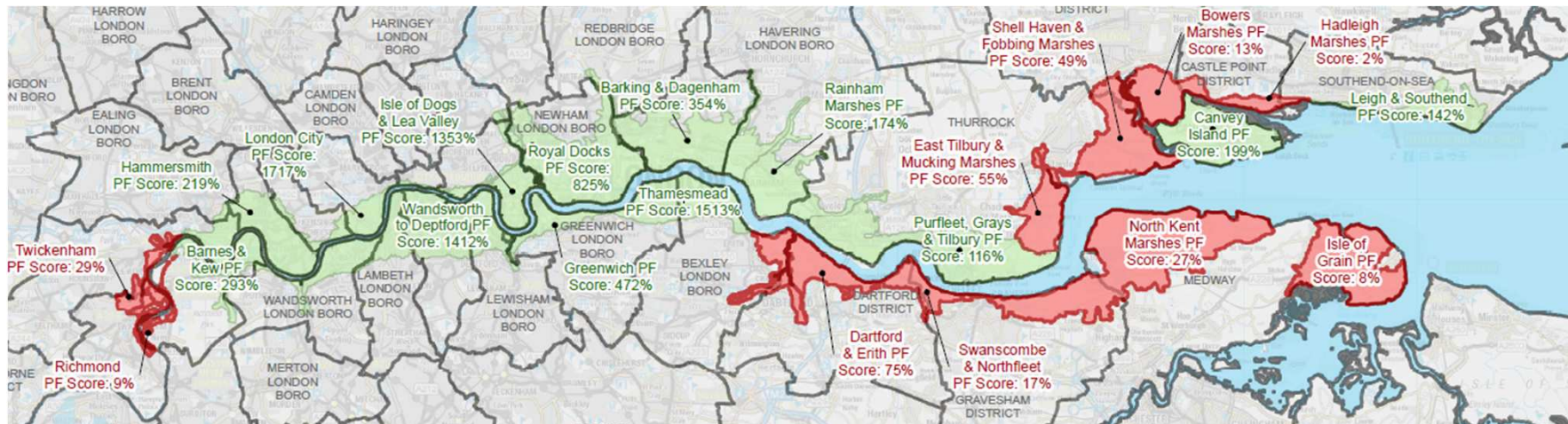
Agenda

- Introduction to TEAM2100 and background to TE2100
- Flood defence system across the estuary
- Project area and works
- Questions



TEAM2100

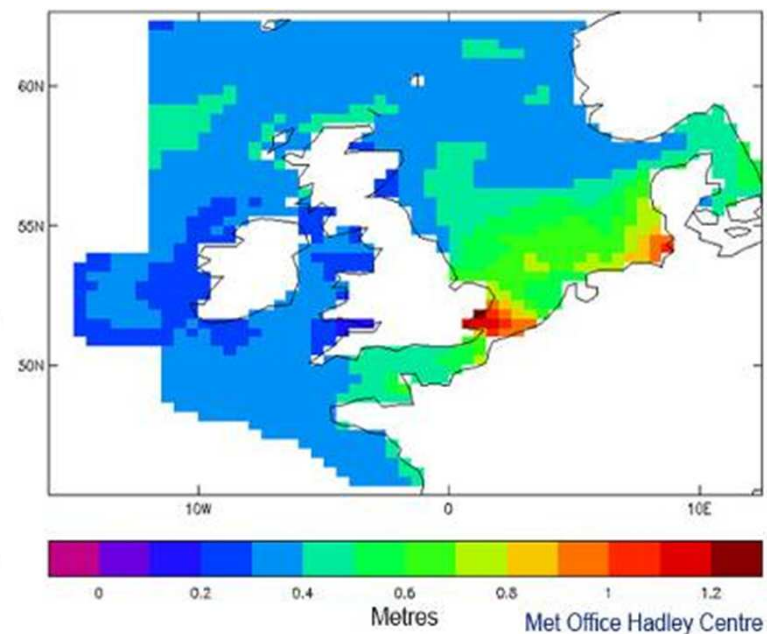
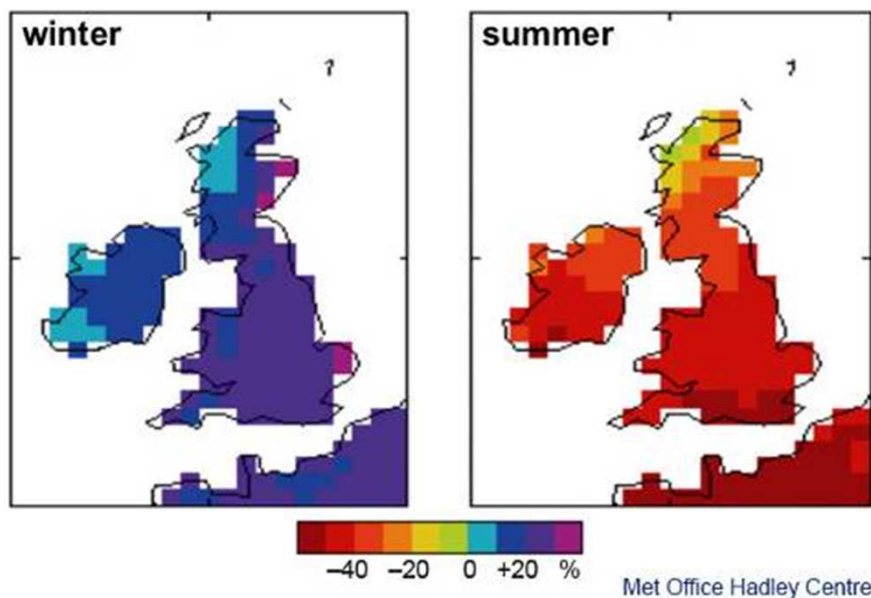
Introduction to TEAM2100 and the flood defence system across the estuary



TEAM2100

Why is flood risk increasing?

- More intense storm surges and sea level rise
- Increased rainfall



- More people in the floodplain
- Sinking of the southeast
- Flood defences aging



TEAM2100



Phase 1

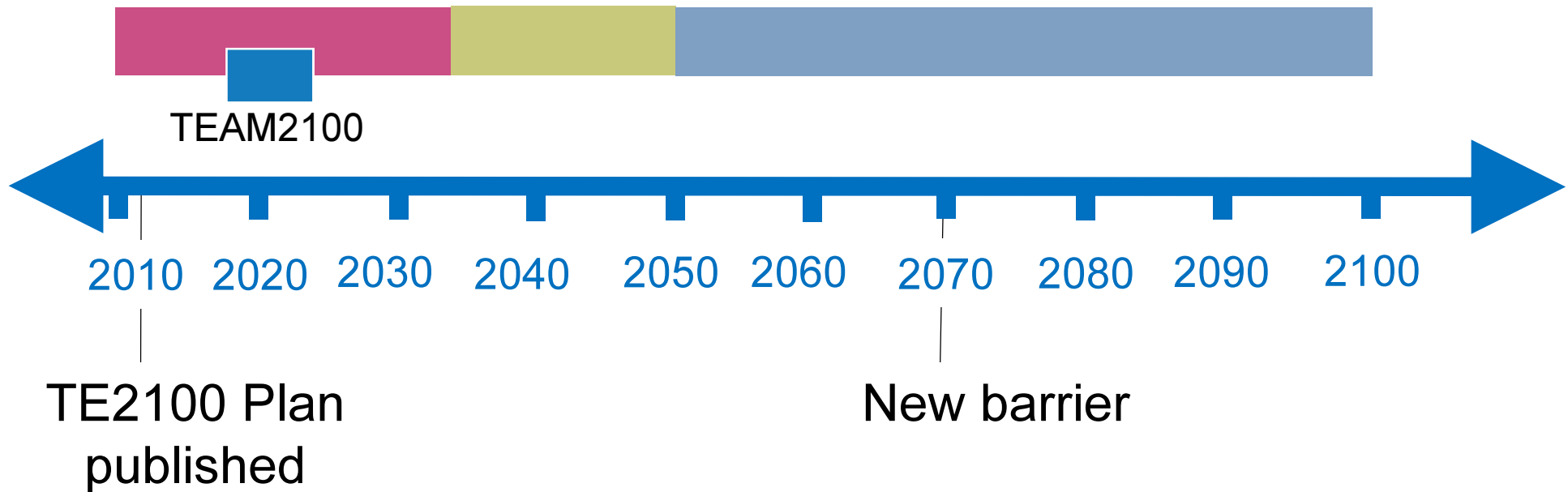
Maintaining confidence and planning together

Phase 2

Renewal and reshaping the riverside

Phase 3

Preparing for and moving into the 22nd century



TEAM2100



Key facts

- **Client** – Environment Agency
- **Contract signature date** – 4 November 2014
- **Value** – Estimated £308m
- **Duration** – 7 + 3 years (*ends 2024*)
- **Integrated Delivery Team:**
 - Environment Agency
 - CH2M
 - Balfour Beatty
 - Qualter Hall
 - Hunton Engineering
 - KGAL
 - Engineering Safety Consultants



TEAM2100

The Physical work



Major maintenance works and asset management for the **Thames Barrier** and other flood gates.



Inspections and repair of existing river flood defences through **central London** and the **outer Thames estuary**



Initial assessment and appraisal

- Initial assessment
 - Collation of information and desktop review
 - Site walkover and non-intrusive investigations
 - Is work required?
- Appraisal
 - More detailed investigations, where required (including intrusive)
 - Options identification
 - Design development
 - Appraisal and selection of preferred option



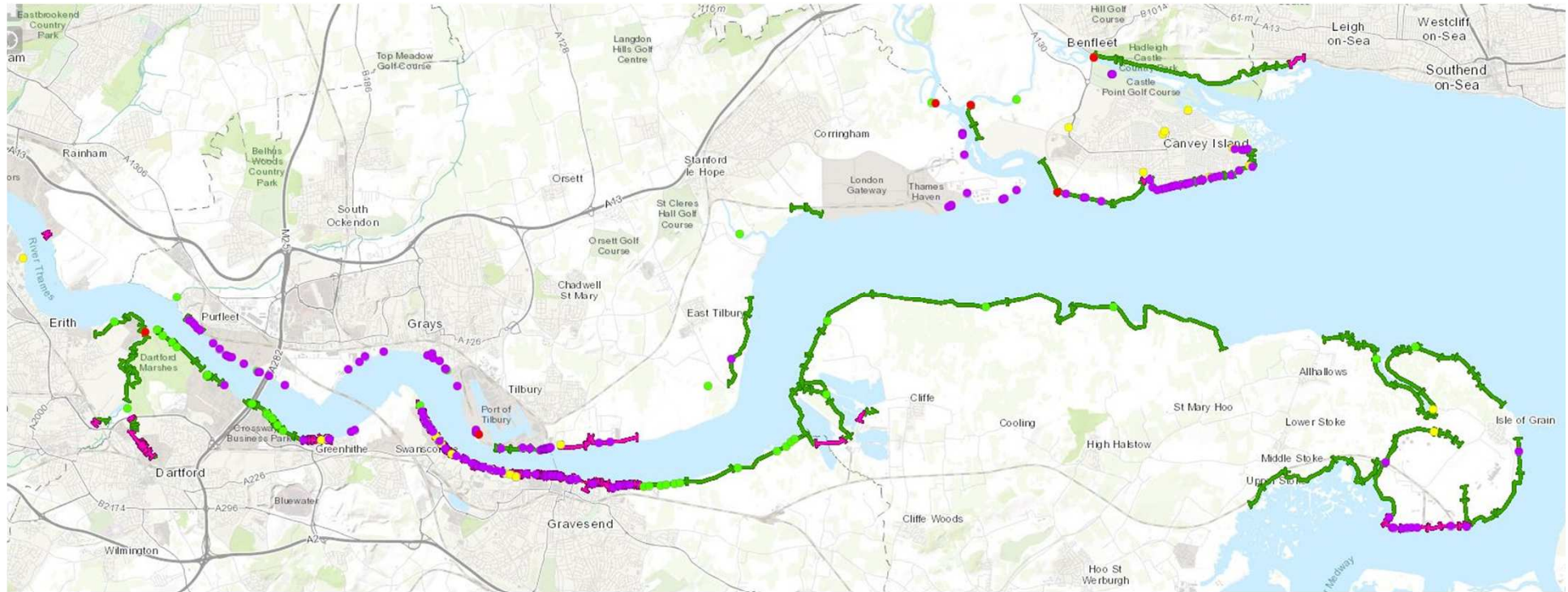
TEAM2100



Assets in the programme including
Dartford Creek Barrier



TEAM2100



- Key**
- Barrier
 - Gate
 - Outfall
 - Pump
 - Wall
 - Embankment



TEAM2100



	End of Stage 1	End of Stage 2	End of Stage 3 / Start of Stage 4
Dartford & Erith (Darent)	Q4 (2017/2018)	Q4 (2019/2020)	Q4 (2020/2021)
Swanscombe & Northfleet (not in 6 year plan)	Q4 (2017/2018)		
North Kent Marshes (Canal Basin)	Q3 (2016/2017)	Q4 (2016/2017)	Q4 (2017/2018)
North Kent Marshes (Denton & Shorne Marshes)	Q2 (2018/2019)	Not yet defined	Q3 (2020/2021)
North Kent Marshes (Cliffe & St. Mary's)	Q2 (2018/2019)	Not yet defined	Q3 (2020/2021)
Isle of Grain (Allhallows & Grain Marshes)	Q2 (2018/2019)	Not yet defined	Q3 (2020/2021)
Isle of Grain (South)	Q2 (2018/2019)	Not yet defined	Q3 (2020/2021)

Key

- Stage 1: Initial assessment and appraisal
- Stage 2: Develop delivery strategy
- Stage 3: Detailed design
- Stage 4: Deliver, commission and handover

All dates indicates end of quarter except stated otherwise



TEAM2100



Understanding the funding need – draft costs 6 year plan

Policy Unit	Council area	Construction start	Total cost		Partnership Funding		Grant-in-Aid
			Low	High	Low	High	
Dartford & Erith	London (Bexley) & Kent (Dartford)	Q4 20/21	£20.6m	£24.4m	£3.8m	£7.5m	£16.9m
North Kent Marshes	Kent (Gravesham) & Medway	Canal Basin Q4 17/18 remainder Q3 20/21	£8.5m	£14.0m	£5.5m	£10.9m	£3.0m
Isle of Grain	Medway	Q3 20/21	£7.8m	£14.6m	£6.9m	£13.8m	£0.9m



TEAM2100



Questions?

