

# Data visualisation tool for decision making in flood and coastal management

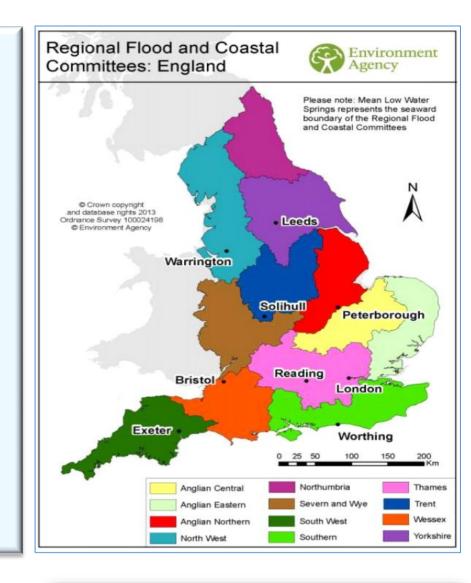
# INTRODUCTION

Twelve Regional Flood and Coastal Committees (RFCC) were formed by the Environment Agency (EA) to aid decision making in flooding and coastal erosion risk management in England.

- Current and future flood and coastal erosion projects are recorded on a complex spreadsheet that support a 10-year investment planning strategy.
- RFCC funding decisions are based upon this spreadsheet, which makes risks difficult to visualise and decision making time-consuming.

#### **Project Scope**

• A web-based flood investment management tool is developed for the Anglian (Eastern) and the Anglian (Central) RFCC, structured to allow ease of extension to other RFCC regions.





## **AIMS AND OBJECTIVES**

#### **Project Aim**

Identify and develop a data visualisation tool that supports decision making of the RFCC.

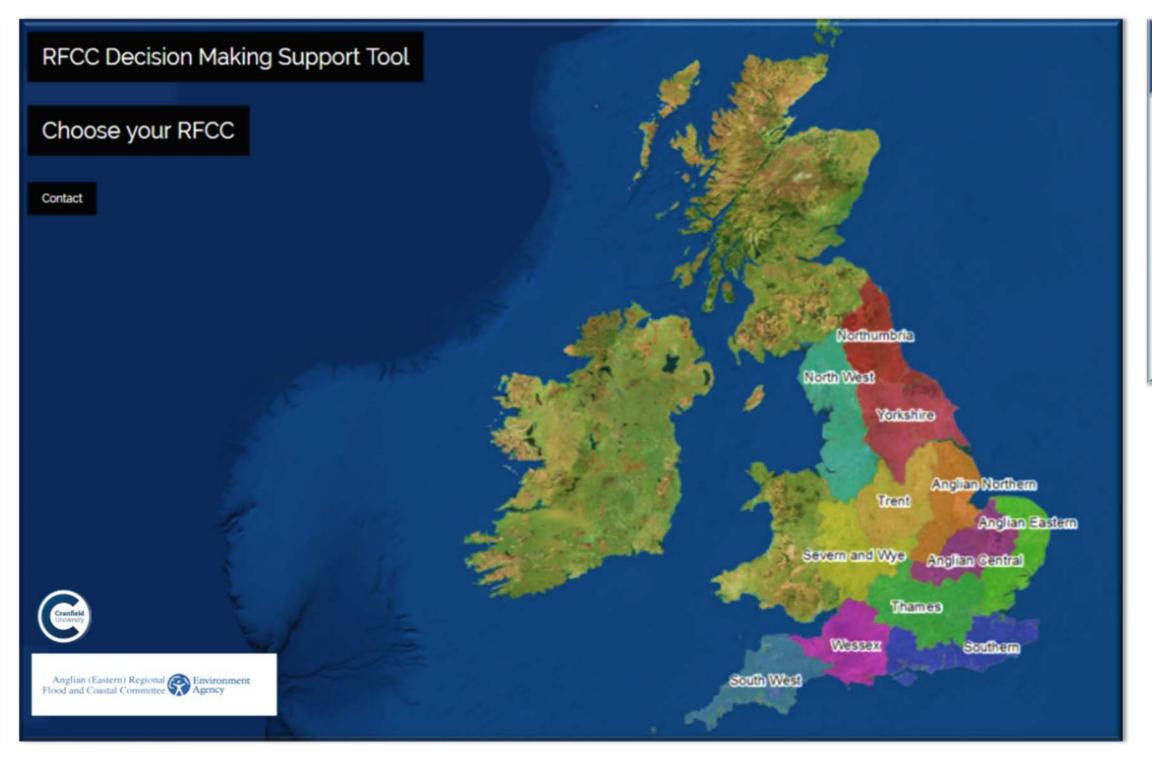
#### **Objectives**

- Afford RFCC members, managers and stakeholders with a tool to aid flood risk monitoring and investment planning.
- Identify relevant data and information sources.



## **METHODOLOGY**

- Questionnaire results combined with stakeholder meetings, a "**web** identified based mapping" application as the optimal design.
- A database was created in PostgreSQL, allowing the user to access and update each project item.
- Multiple sources of information were used to propose a clear, and user friendly solution (using spatial and non-spatial data).



# **RESULTS**

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## **CONCLUSIONS AND FUTURE PERSPECTIVES**

- A prototype web tool has been produced which demonstrates the powerful capability of web mapping applications.
- A vast quantity of data can be visualised dynamically in an easily accessible format to facilitate important decision making.
- With the essential functionality now in place to support RFCC investment planning and risk assessment, the prototype demonstrates great potential for further development for wider RFCCs.

## PROJECT IMPACTS

The final tool has been presented to relevant stakeholders at the North Norfolk Coastal Forum and the Anglian (Eastern) RFCC meeting. Gaining interest for further development and maintenance, with the opportunity of future employment.

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