

TURNING ENVIRONMENTAL DATA INTO COMPETITIVE ADVANTAGE

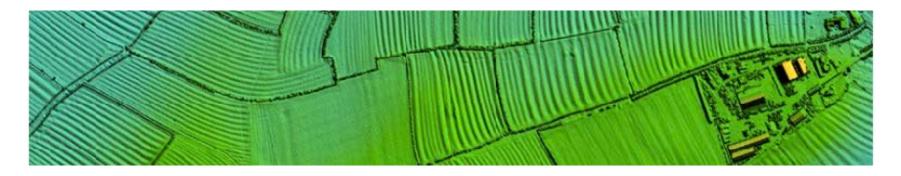
Debbie Clifford

30th June 2017 – NCEO conference, University of Bath



THE INSTITUTE FOR ENVIRONMENTAL ANALYTICS

- Established mid-2015 with c.£5m start-up funding to create a centre of excellence for data analytics focussed on environmental challenges
- We have an expert team, hosted at the University of Reading, with knowledge of data science, algorithm development, software engineering and data visualisation
- We work with organisations who see opportunities for environmental data to manage risk, improve business operations and open up new markets



IEA PARTNERS















































OUR ACTIVITIES



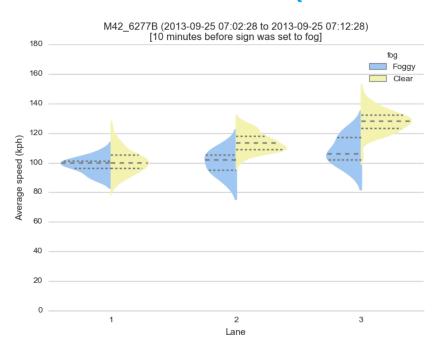
- R&D projects
- Training courses
- Knowledge exchange and networks, e.g.

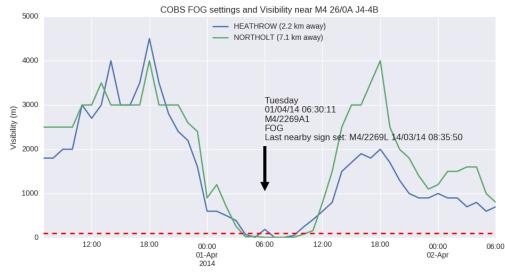


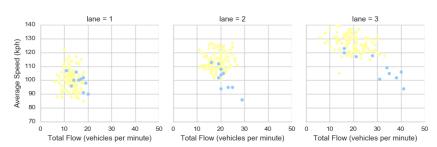
- Demonstrator projects
 - Unique feature of IEA
 - Short projects (ca. 3 months) to break down a barrier or explore a new technique
 - Can bring in academic expertise from Reading and elsewhere
 - Other IEA partners can join in and make contributions



FOG PREDICTION (WITH HIGHWAYS ENGLAND)

















RENEWABLE ENERGY ASSESSMENT TOOL



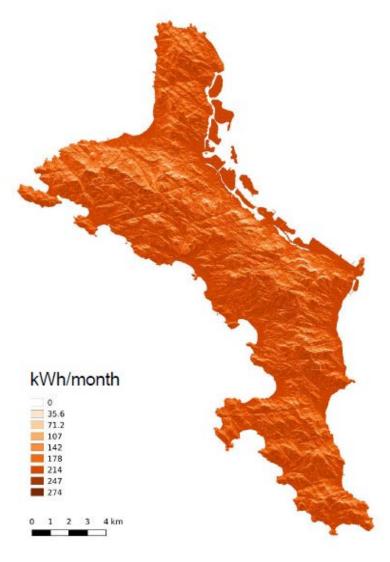






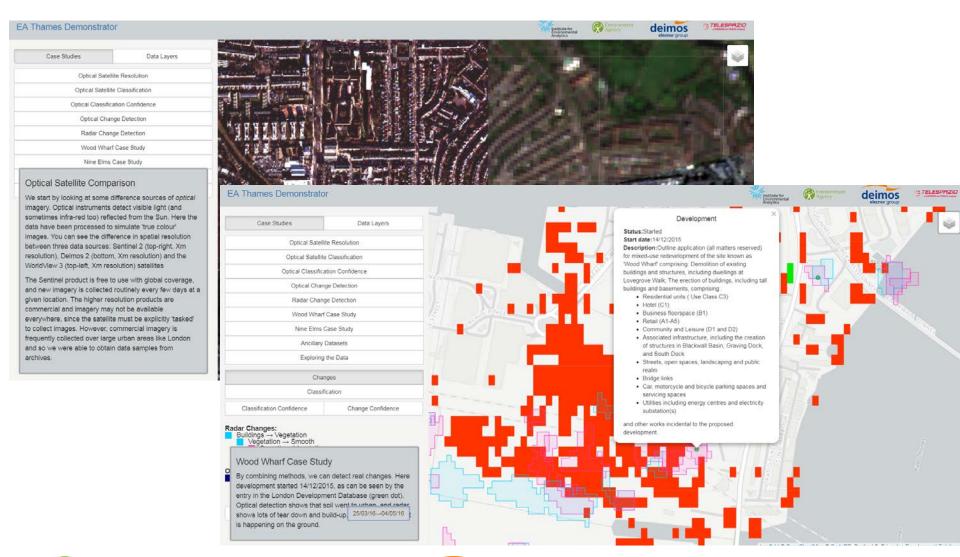






LAND USE CHANGE DETECTION USING SATELLITE DATA IN THE THAMES ESTUARY







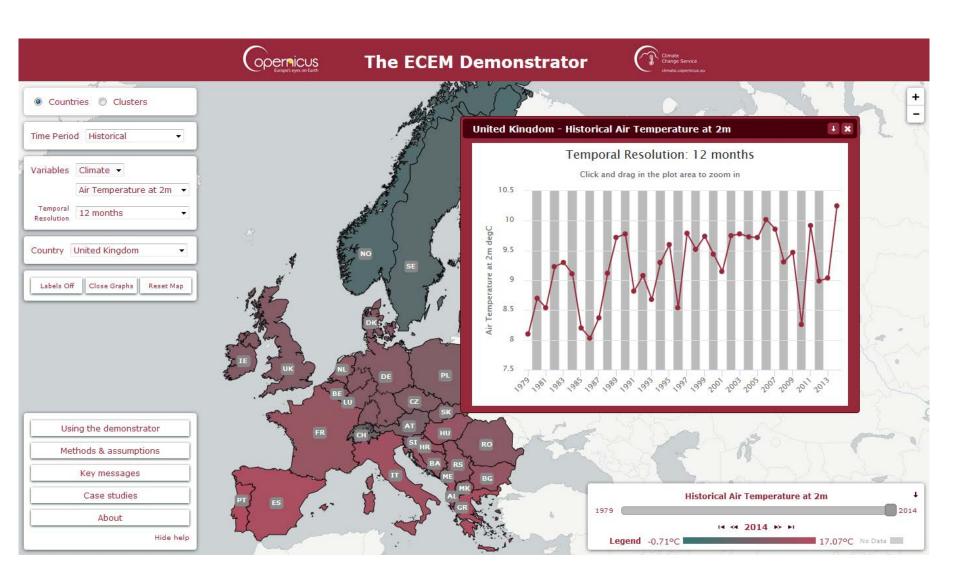






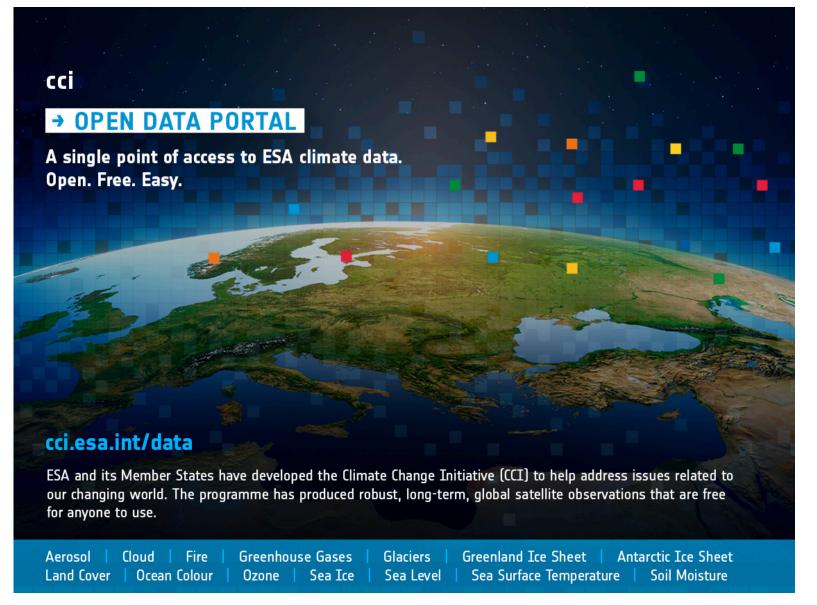
EUROPEAN CLIMATE ENERGY MIXES





CLIMATE CHANGE INITIATIVE OPEN DATA PORTAL





IEA'S TECHNICAL TEAM





Dr Jon Blower



Alan Yates
Principal Consultant



Dr Debbie Clifford

Environmental Data Consultant



Dr Ben Lloyd-Hughes

Data Scientist



Barbara Percy
Software Developer



Dr Neil ParleySenior Software Developer



Dr Guy GriffithsSoftware Engineer



Dr Sam Doolin

Data Analyst

HOW WE CAN WORK TOGETHER



- We can provide a route to wider use (or even commercialisation) of your outputs
 - Effective translation between academia and the "outside world"
 - Ideas for demo projects?
- We can help with visualization and software development
- Provide training, coming up at the moment are:
 - Software development for environmental scientists
 - EO for disaster risk reduction
 - Big Data and the Environment (open online course)





THE INSTITUTE FOR ENVIRONMENTAL ANALYTICS

Thank you www.the-iea.org

- @env_analytics
- @debbieclifford