OS VERIEARTH® URBAN

Helping Social Housing to become more sustainable

Data provided by SatelliteVu

Ordnance Survey
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Why should Heat Data matter?

Heat-related disasters have high economic costs, estimated to be between £323 million to £9.9 billion per year by the 2050s. The effects of climate change are not just the rise in global temperatures but the extreme weather events that occur such as droughts, floods, and heatwaves, which are among the most dangerous of natural hazards.

Land surface temperature can be derived from thermal infra-red Earth Observation data. This could help to identify locations that may show greater risk to human health and enable better planning and 'climate-adaptive' policies to deal with extreme weather events.

Blending thermal satellite data with geospatial data, planners may be able to identify suitable buildings that require adaption, such as retrofitting green or cool roofs, and greenspaces which could be used for heat pumps and as low carbon heat sources to help the UK achieve its climate targets

OS VeriEarth ® Urban

Monitoring, reporting and verification service for understanding thermal land surface properties by combining satellite data with location intelligence.

Clear visibility of areas of highest land surface temperature.

Significant efficiencies in scale and cost.

Change detection to validate impact of intervention.

OS VeriEarth ®
Urban
Social Housing
use cases

Urban Planning

Heat Discomfort

Healthcare Modelling

Urban Cooling

Retrofit Schemes

Solar Installations

How OS VeriEarth® Urban works

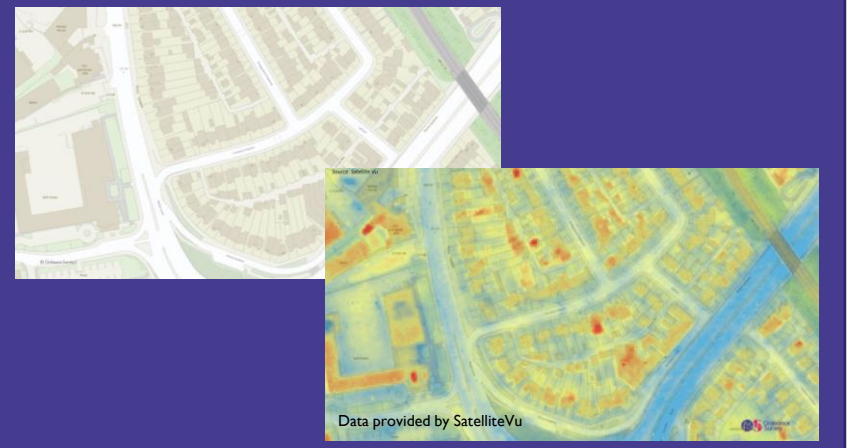
Satellite Earth Observation data

Land surface temperature data

OS Topographical data

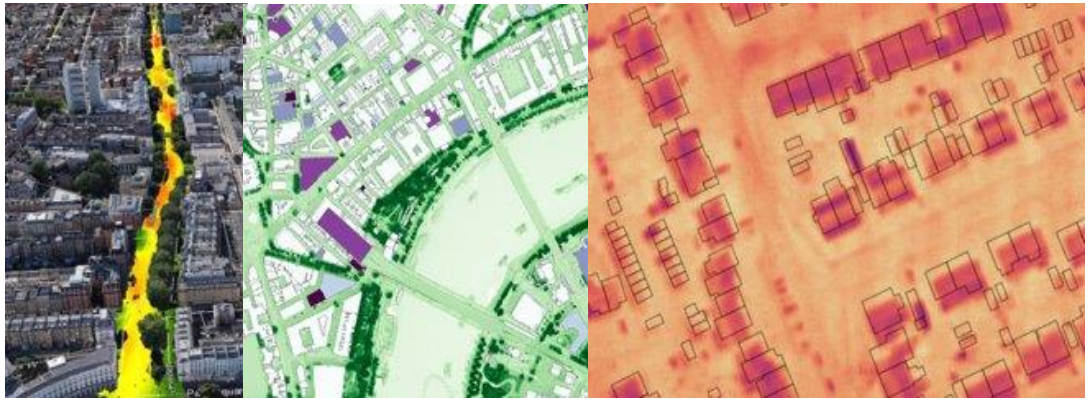
Clear, usable insights

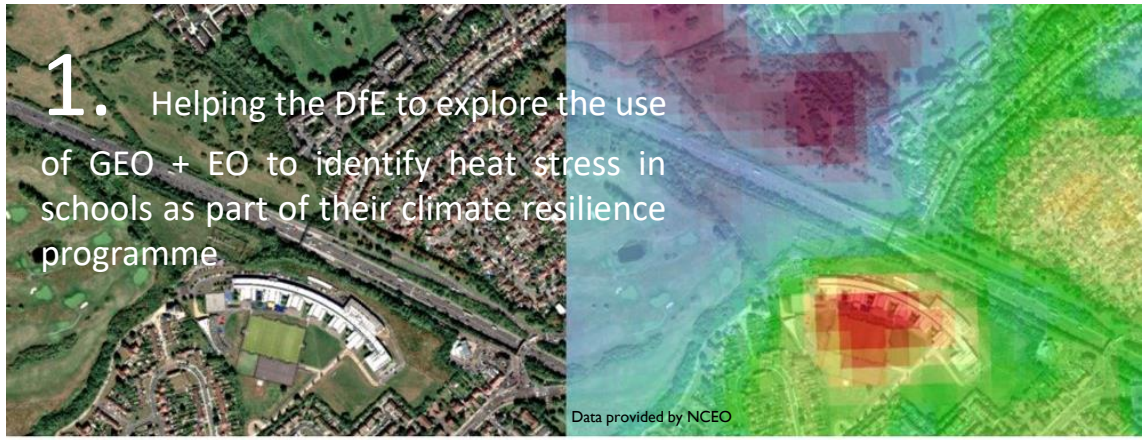
Identify target areas for intervention quickly and efficiently



OS Technical Expertise

OS VeriEarth ®
Urban in action

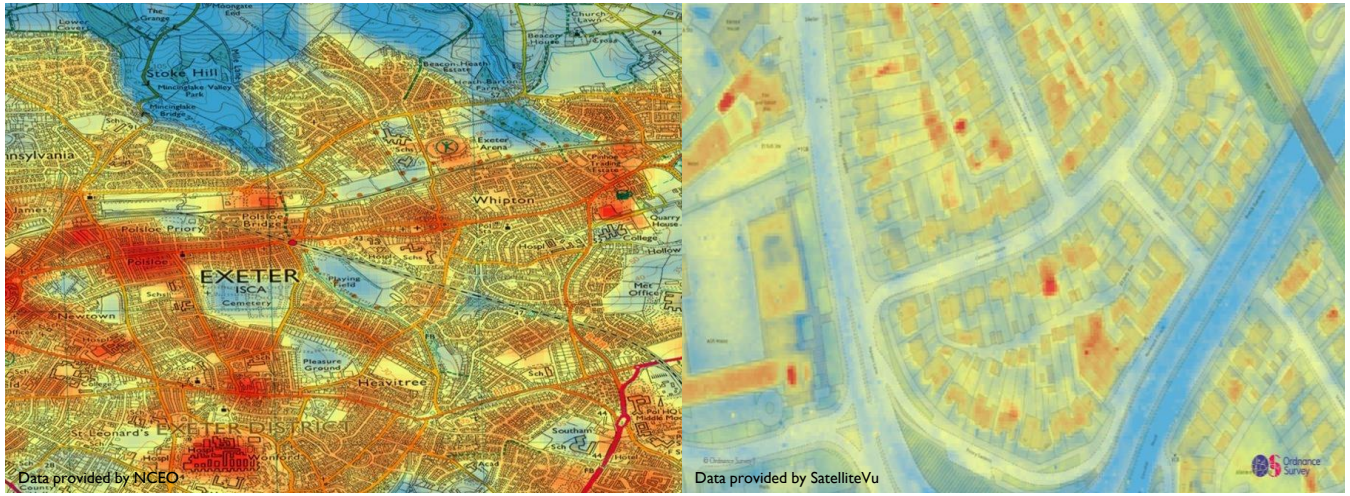


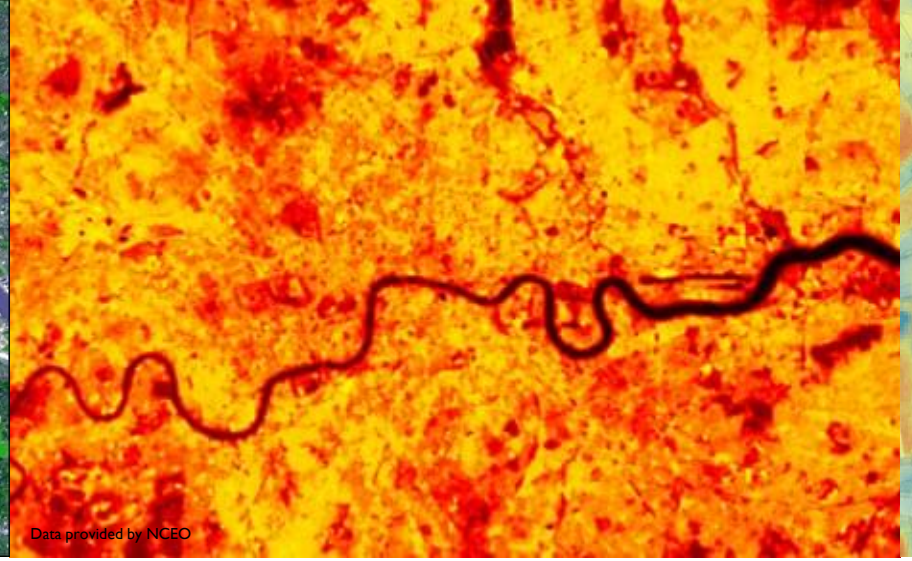


1. Helping the DfE to explore the use of GEO + EO to identify heat stress in schools as part of their climate resilience programme.

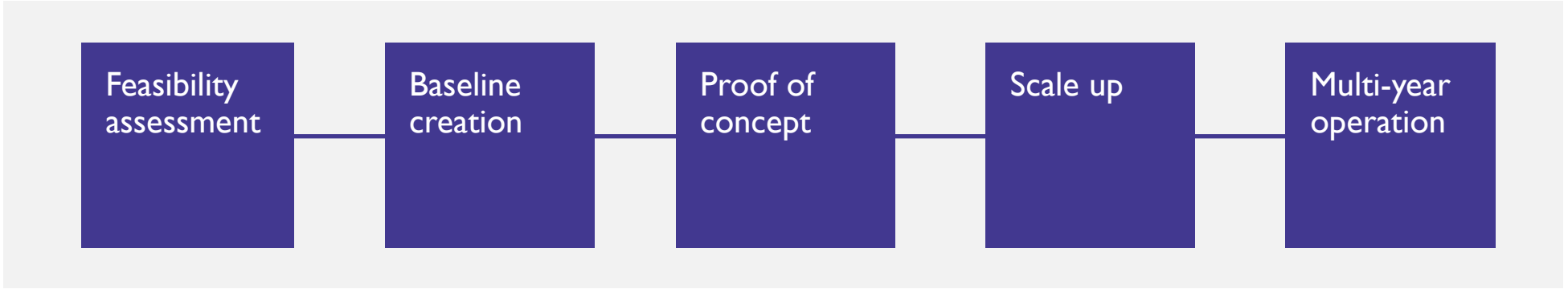
2. MasterMap provides the foundation to gain insights from Earth Observation data into air pollution, heat stress and green refuges.

3. We can combine heat data with topographical data to enable non-expert users to quickly identify target areas. The use of SatVu data can take this further to street and building level for highly targeted intervention.





Phased and scalable approach



Why OS VeriEarth® Urban

Targeted Intervention

Target areas/building stock most in need of intervention.

Ongoing Monitoring

See that your actions are delivering results and measure your impact

Cost Effective & Scalable

Significant efficiencies in scale and cost, making it possible to objectively measure and monitor entire property portfolios.

Easy to Use

Gives clear visibility of areas of highest land surface temperature in an easy to use ‘non-expert’ format.

Reduce Risk

Reduce exposure risk to climate change, regulation requirements and limit exposure to poor energy efficiency solutions.

Trusted & Independent

World leading expertise in data collection and curation.

THANK YOU

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