

LPSA2 Expression of Interest Application Form

1. PROPOSAL DETAILS

Proposal Title: AIRBORNE THERMAL DATA COLLECTION – WARWICKSHIRE WIDE	
Strategic Partnership/LPSA 2 Project: CLIMATE CHANGE & THE ENVIRONMENT BLOCK	
Partnership Chair/Project Lead: COUNCILLOR NICK GRANT/ALAN FRANKS	
Amount Requested (Revenue): We would need to tender for the Contract upon decision from the Public Services Board asap after the 26 th January 2010.	Amount Requested (Capital): Approximately £100,000 (in that the relevant energy efficiency works would lengthen the life of the asset, i.e. building/structure/schools).
Description and scope of proposal: Thermal data collection is a heat survey that would show up those buildings and structures which are poorly insulated (where heat energy is wasted) or cold and any hot spots anywhere in the county. Modern cameras produce data which is GIS compatible, and can be used with other data sets owned by the respective councils. The data is accurate down to the size of a football, so there is no chance that data from one house – building, can be confused with another. The proposal would allow a complete thermal imaging map that can be accessed by individual home owners to assess whether their home is energy efficient or not to allow external grants to be facilitated to improve energy efficiency. The thermal data collection can also be used in the following areas: <ul style="list-style-type: none"> • Underground heating pipes and water leakage detection • Damp and moisture mapping in buildings caused by condensation, rising or penetrating damp • Electrical condition monitoring, default detection surveys of factories, power plants and HV lines • Road and bridge surveys, to detect delamination and corrosion • Land fill sites, to map internal combustion (aerial and ground level), leachate flow, methane gas • Assisting in community policing, i.e. drug searches (high temperatures in unused warehouses can indicate cannabis growing) 	
Will this project contribute towards LAA targets? If so how? Such a project would provide valuable data, and clearly would support a number of LAA targets, as follows: <ul style="list-style-type: none"> • To support delivery of Warwickshire’s Climate Change Strategy, HECA and LAA targets (NI 185, NI186, NI187, NI188). The UKs target for reducing emissions of carbon dioxide is now 80% by 2050 rather than 60%. It would be a measure of the Council’s progress in assessing the risks and opportunities associated with a changing climate. • To allow the development of a strategic approach to delivering affordable warmth initiatives. It could help in measuring the percentage of people receiving housing benefits living in homes with high or low energy efficiency. • To identify people most in need of fuel poverty relief by providing baseline information on heat loss from all buildings (NI187 – Fuel Poverty Indicator). The two most fuel poor areas in the county are Nuneaton: Abbey Ward and Rugby: Benn Ward. • To improve district/borough councils’ ability to work with registered social landlord partners to improve energy efficiency in social housing. A thermal survey will provide thermal conditions for all social housing stock. • To graphically demonstrate heat loss from individual buildings. This data can be displayed on the web and can strengthen mail shots, etc. • To identify inefficient Council properties and will also demonstrate leadership on tackling climate change • Help the Council raise awareness of climate change issues and in promotional campaigns • To support E-Government, the data could be added to the public access website and be made searchable. Will this project improve access, tackle inequality and improve sustainability (as espoused in the Warwickshire SCS)? If so how? <ul style="list-style-type: none"> • As above, i.e. *access to home efficiency grants, therefore reducing fuel poverty and inherent gaps throughout Warwickshire. • Concentrating on energy efficiency issues will lengthen the life of the asset, i.e. home/building/school, and will clearly have sustainability as a bi-product. • It is clear that constantly rising energy prices will increase fuel poverty throughout Warwickshire in the near future. By highlighting energy efficiency methodologies to home owners and business users, this thermal imaging data collection concept will prove invaluable to both the Climate Change and Economic blocks of the Local Area Agreement. 	

