Supporting the reconfiguration of primary care services: Strategic Health Asset Planning and Evaluation

About SHAPE
Strategic Health Asset Planning and Evaluation (SHAPE) is a web enabled, evidence based application which informs and supports the strategic planning of services and assets across a whole health economy. It is configured to NHS regions, LAT, Trusts, CCG, GP practices and Local Authority boundaries.

GIS tool
SHAPE uses GIS to map the site location of every NHS site and facility in England. This includes GP practices, hospitals, care homes, dentists, pharmacies and many other site types. Mapping a wide range of site types helps identify if there are other buildings could be used to deliver services.

Sites can be ‘hidden’ from the map so can visually display the impact of relocating sites. SHAPE will also visually identify branch surgeries.

Linking site location to population needs
SHAPE contains a number of indicators from a range of data sources including mortality, hospital admissions, prevalence which can all be mapped and compared to the location of the site to ascertain do we have the right service in the right location.
Travel catchment areas
SHAPE has an in-built travel time and ‘crow files’ catchment area which can be used to find out how many people live within that catchment, including what is the age, ethnicity, deprivation, clinical activity profile for that specific catchment area. Currently we use resident population estimates based on the census data.

Multiple travel catchments can be created at the same time thereby allowing you to view what populations are at risk or are not being serviced by current GP practice locations.

The travel time catchments areas are based on up to date known travel speeds which means it is accurate even for large urban areas such as London.

Cont…
Screenshot 3: 5-minute travel time catchment for a GP practice. The thick black line is the 5 minute travel time isochrones. Also showing is the population density within that 5 minute catchment. Other data that could be viewed for this bespoke catchment.

Screenshot 4: 5 minute travel time for 2 different GP practices.
Although SHAPE doesn’t currently contain public transport travel data, we are currently investigating how we might access this data. We recently undertook some bespoke work for London and mapped public transport accessibility levels.

![Screenshot 5: Public transport accessibility levels for South London LAT. Contours on the map represent the PTAL ratings.](image)

**Estate profile**
SHAPE holds site level data such as name and address of site, it can also store information such as services delivered from the site.

![Screenshot 6: Site profile for a clinic.](image)
Access to SHAPE
SHAPE is currently funded centrally by Department of Health and is free to use. Access is by formal registration. It is currently configured to support LAT, CCGs, GP practices and Local Authority boundaries. To register or seek further information please contact:

Email: shape@phe.gov.uk
Telephone: 0191 374 2219
http://shape.dh.gov.uk

How people have used SHAPE:

“SHAPE has helped us compare the population needs and demographics for existing or proposed sites especially around GP practice relocation. It helps compare the clinical activity of sites or the number of patients registered at a GP.”
Emma Bolton, Head of Estates, North Tees Cluster PCTS

“We have made regular use of SHAPE for mapping existing health services and how they would cope with increases in population.”
Alison Crouchman – SW Essex PCT

“We used SHAPE to inform our exploration of the efficiency and effectiveness of current service models and to help project future capacity requirements.”
Ian Nicholson, Associate Director of Economic & Operational Research Directorate of Strategic Development North Tees and Hartlepool NHS Foundation Trust

“SHAPE is being used to support a strategic estates planning project across London. The aim is to capture high level estate and service details of every NHS site in London and to further develop a system that will assist the strategic estates planning process and link it to commissioner’s service planning across London.”
Simon Greenfield, Strategic Estates Advisor, NHS London