

APSE BIG ENERGY SUMMIT 2024 “To Net Zero and Beyond”

Timothy David Crawshaw MIED MRTPI FRSA

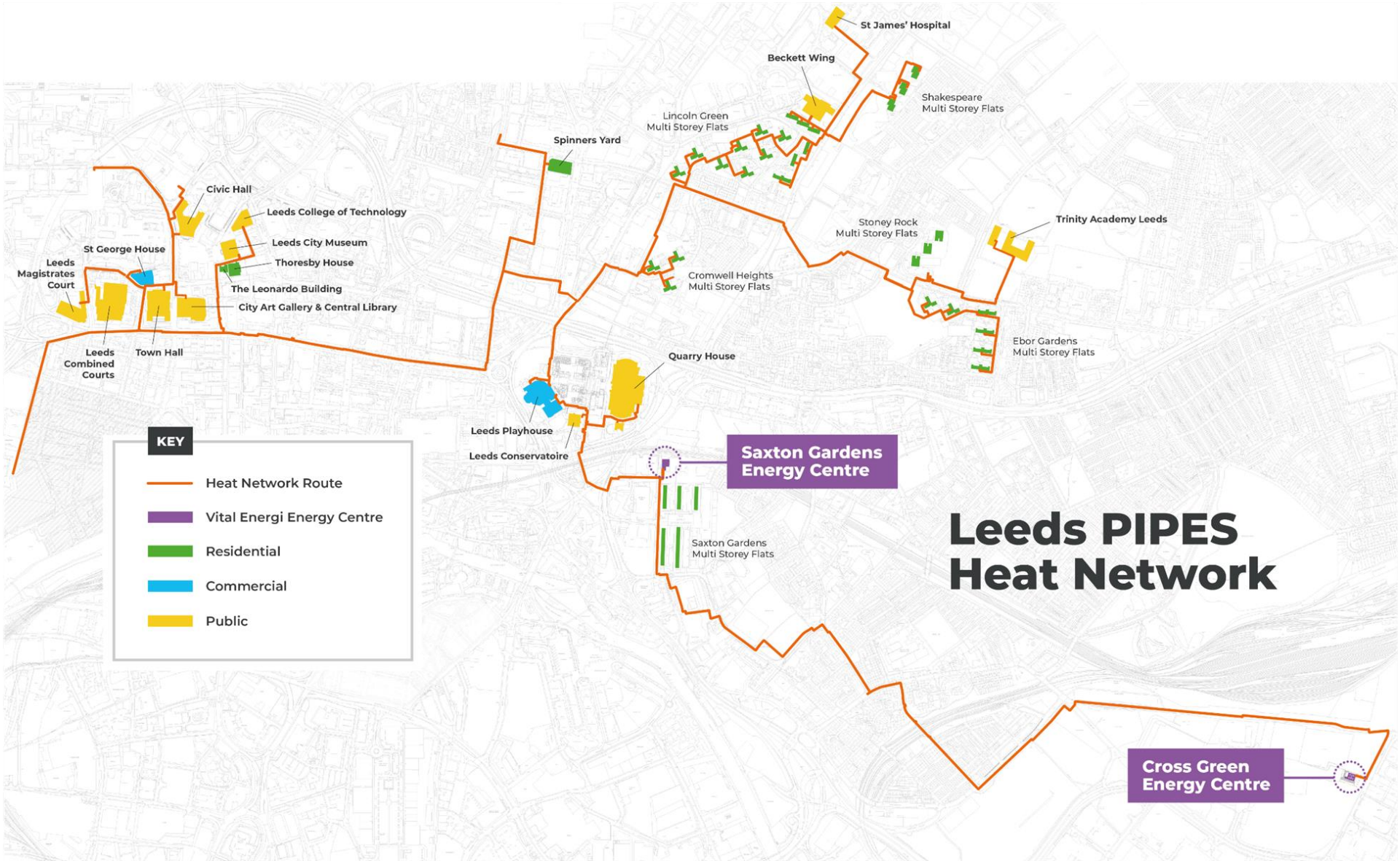
Associate Consultant APSE Energy

Chair of the Tees Valley Nature Partnership

Past President Royal Town Planning Institute

Renewable and Low Carbon Energy





KEY

- Heat Network Route
- Vital Energi Energy Centre
- Residential
- Commercial
- Public

Leeds PIPES Heat Network

Cross Green Energy Centre

Saxton Gardens Energy Centre

Energy Efficient Buildings



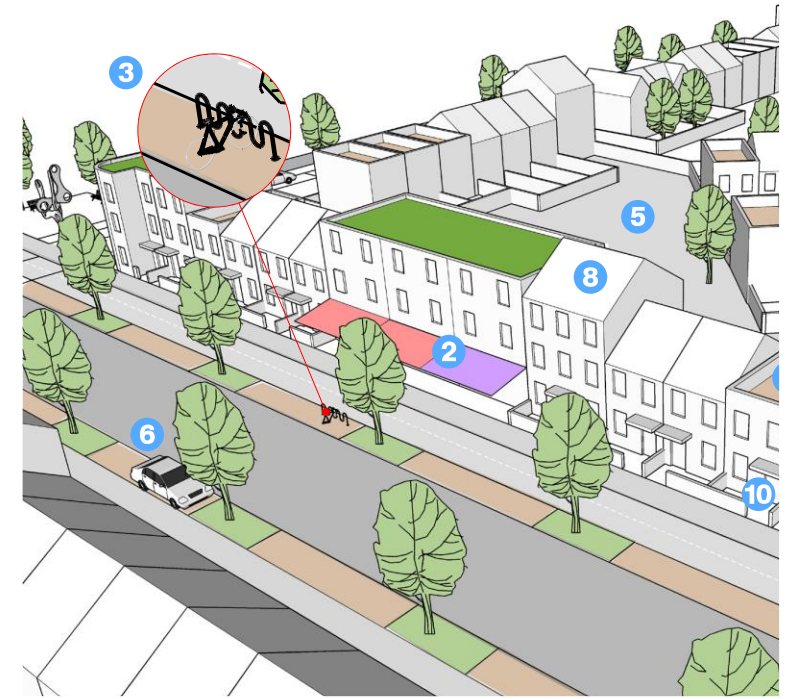
Multi-Functional Green Infrastructure



Sustainable Transport



Compact and Smart Growth



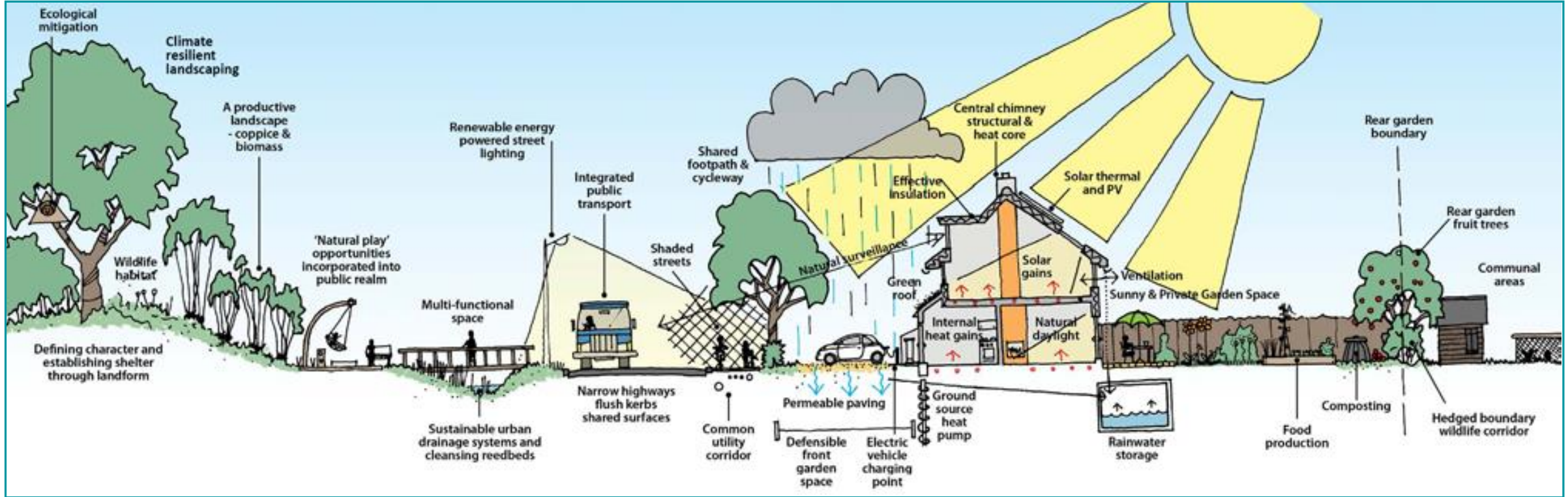
Waste and Recycling

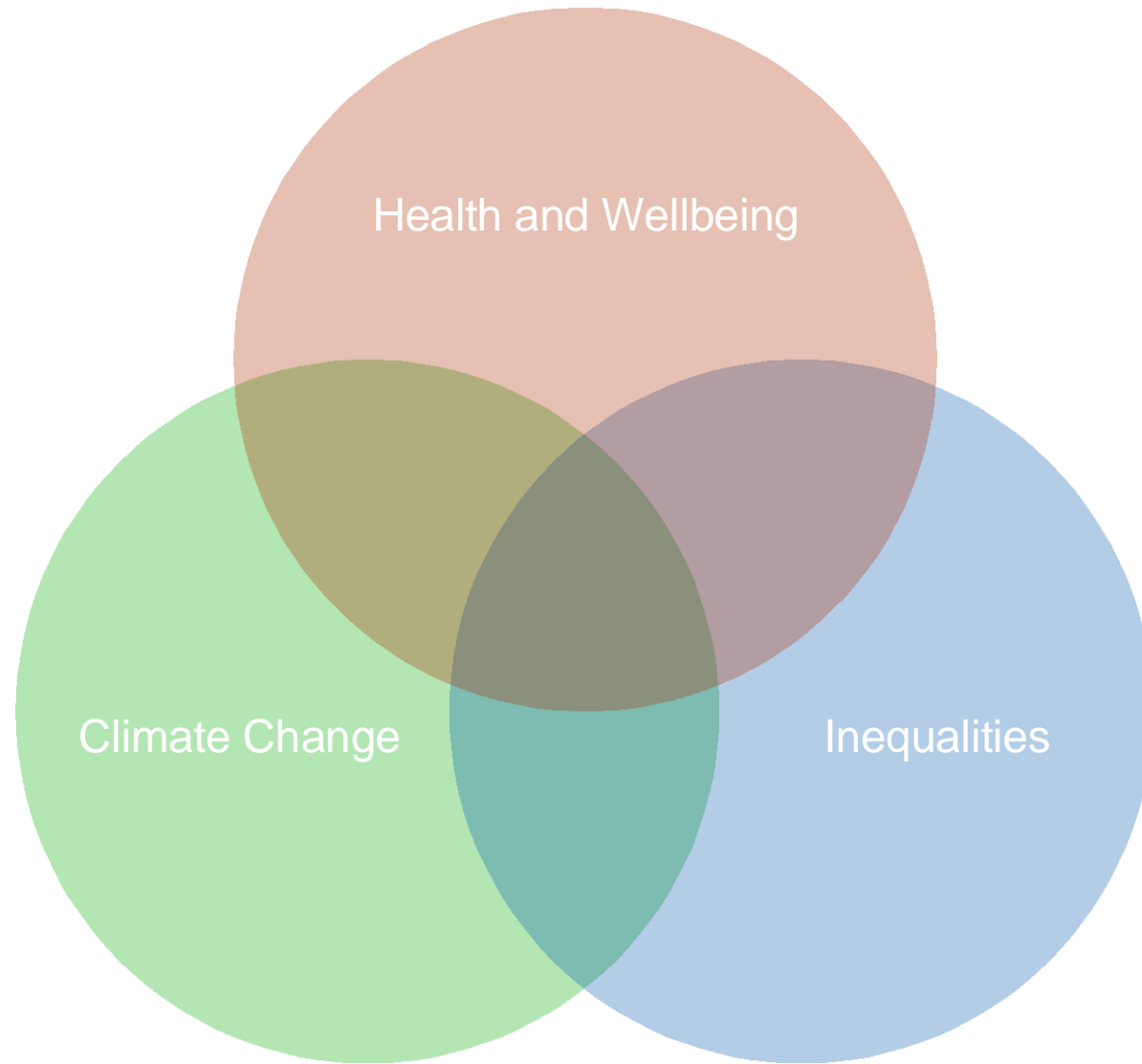


Climate Change Adaptation



Bringing it All Together





Built up areas with less green space get hotter

Heat hazard scores in Brent, London



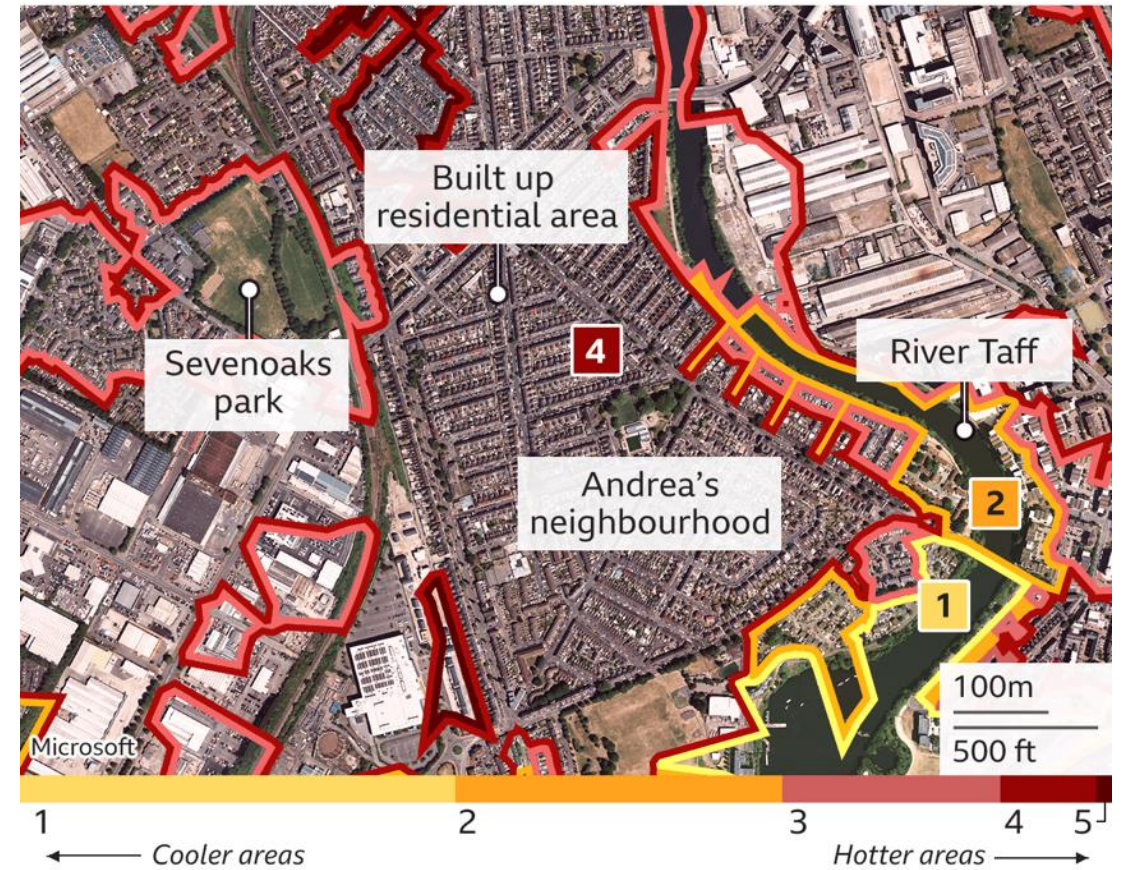
Note: The higher your heat hazard score, the more likely it is that your area will experience high temperatures during hot weather, compared with other areas in your neighbourhood. A score of one means the postcode was in the lowest 40% of areas, while a score of five means it was in the top 1%.

Source: 4 Earth Intelligence



Bodies of water also have a cooling effect

Heat hazard scores in Cardiff, Wales



Note: The higher your heat hazard score, the more likely it is that your area will experience high temperatures during hot weather, compared with other areas in your neighbourhood. A score of one means the postcode was in the lowest 40% of areas, while a score of five means it was in the top 1%.

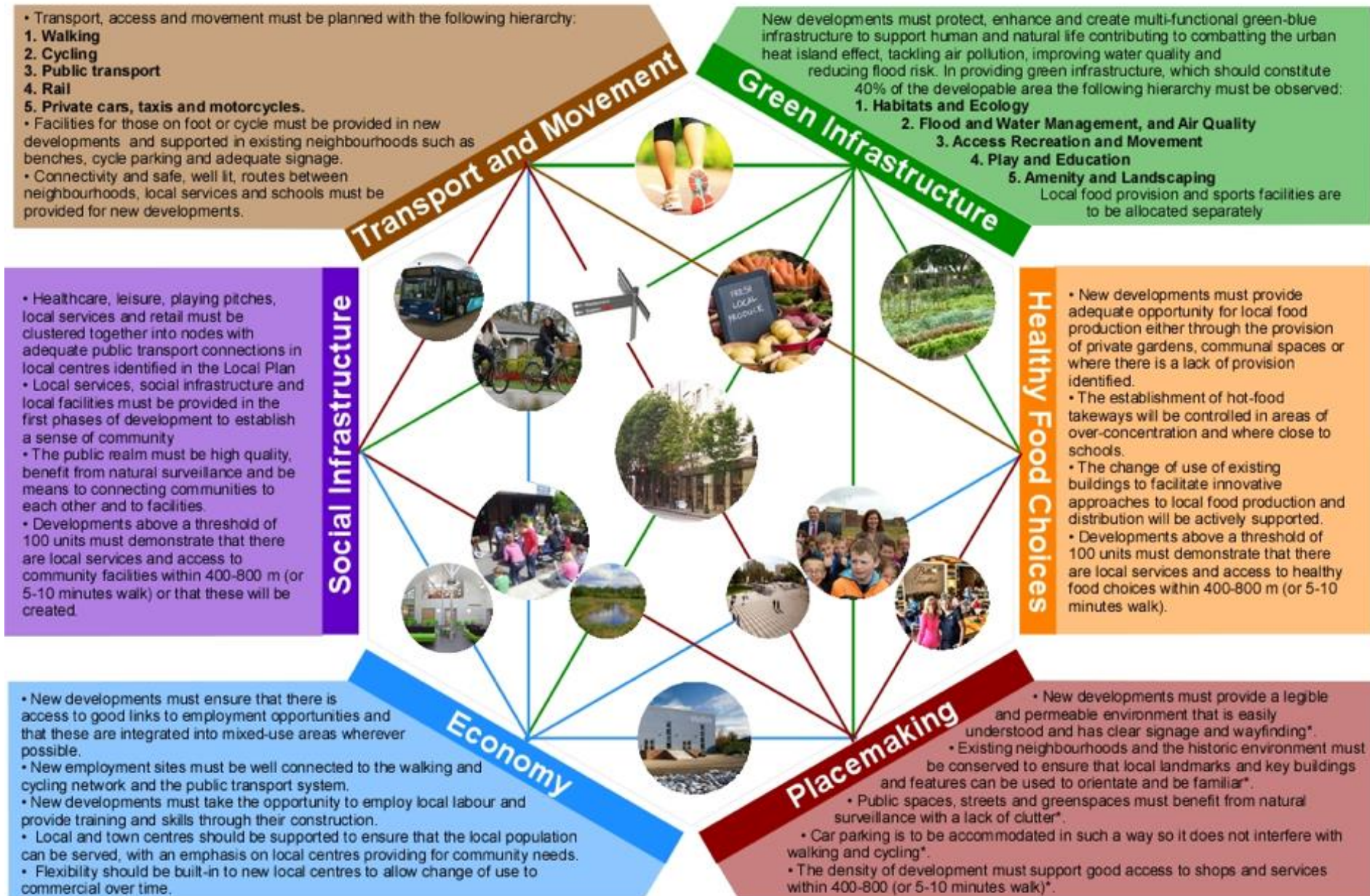
Source: 4 Earth Intelligence



Health and Wellbeing



HEALTHY NEW TOWNS - DESIGN PRINCIPLES



* Denotes measures that support a Dementia Friendly Environment

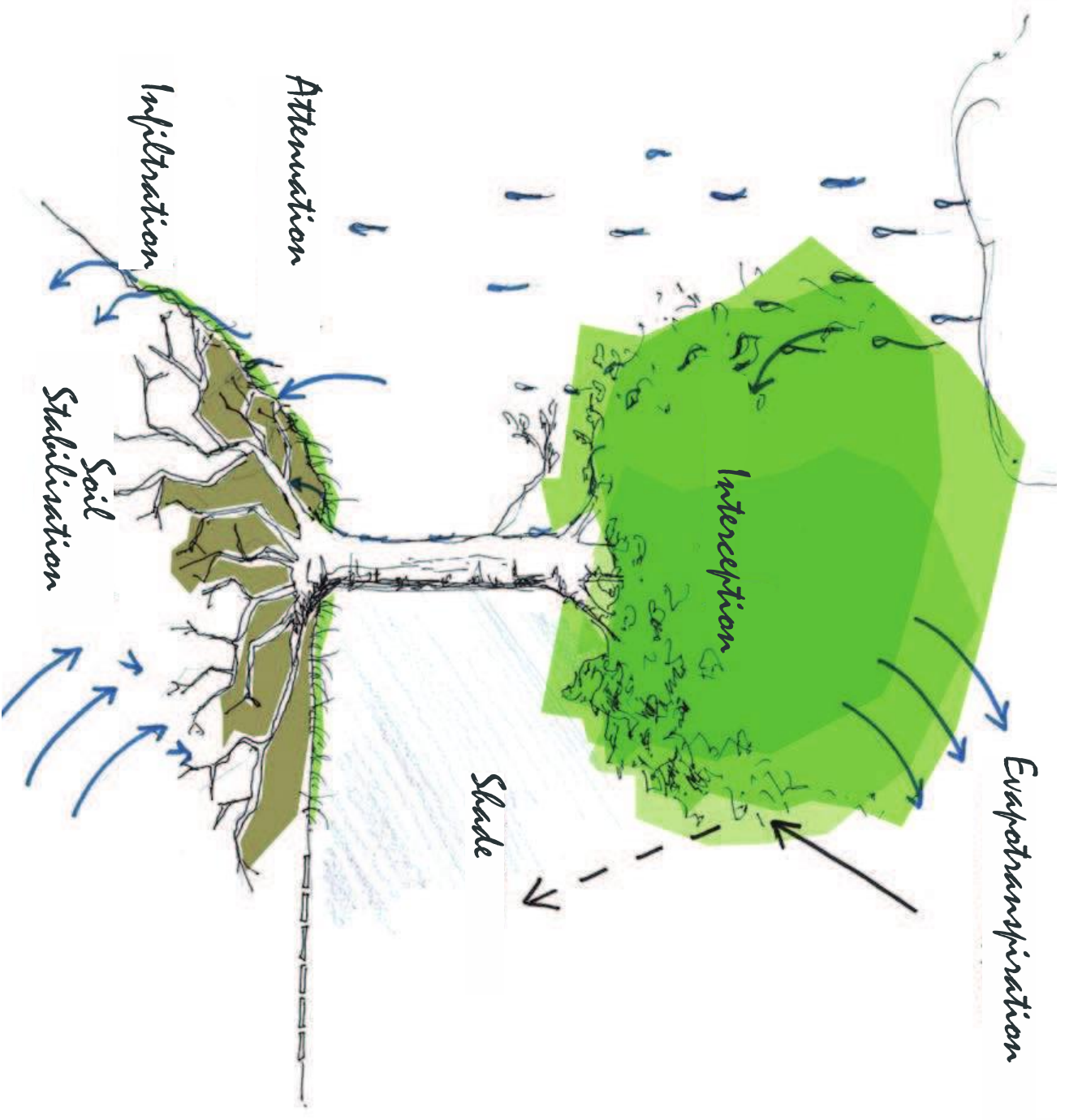


Towards Net Zero









One adult tree = five air conditioning units working 20 hours/day = 11.4kWh of energy saved per day, amounting to 500 euros of energy cost saving per year (assuming a yearly energy consumption of 1000 kWh/yr)

Sources of Guidance



- Local Plan Policy Development
 - The role of design guidance and SPD's
 - Planning positively for renewable energy
 - Energy masterplanning
 - Case studies and exemplar projects
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- NEW Upcoming Guidance Biodiversity, Nature Recovery and Health

Thank You!

Questions and Comments