

# SUSTAINABILITY

## Responsible Living – Towards Zero Carbon

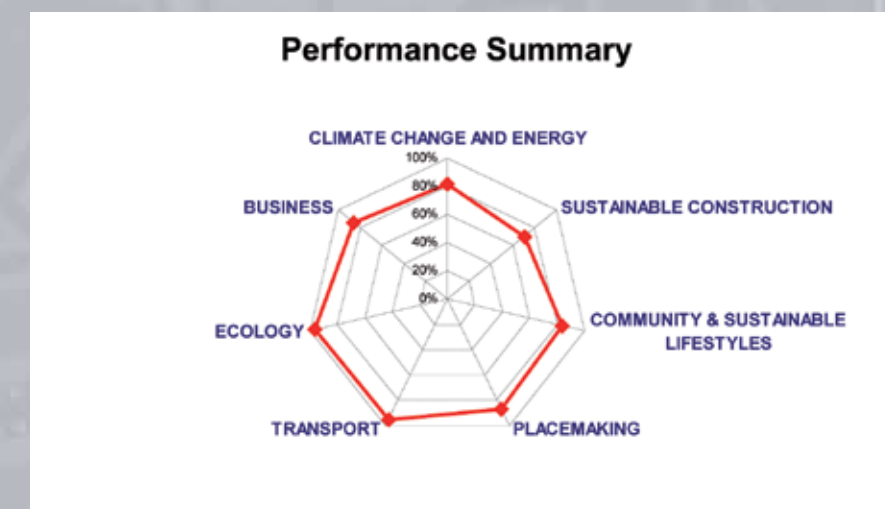
### Building Research Establishment (BRE) Sustainability Appraisal – ‘EXEMPLAR’

**Performance Summary**

Site: **Sherford, South Hams**  
 Assessor: **Stuart Biofield**  
 Date: **09/03/2007**

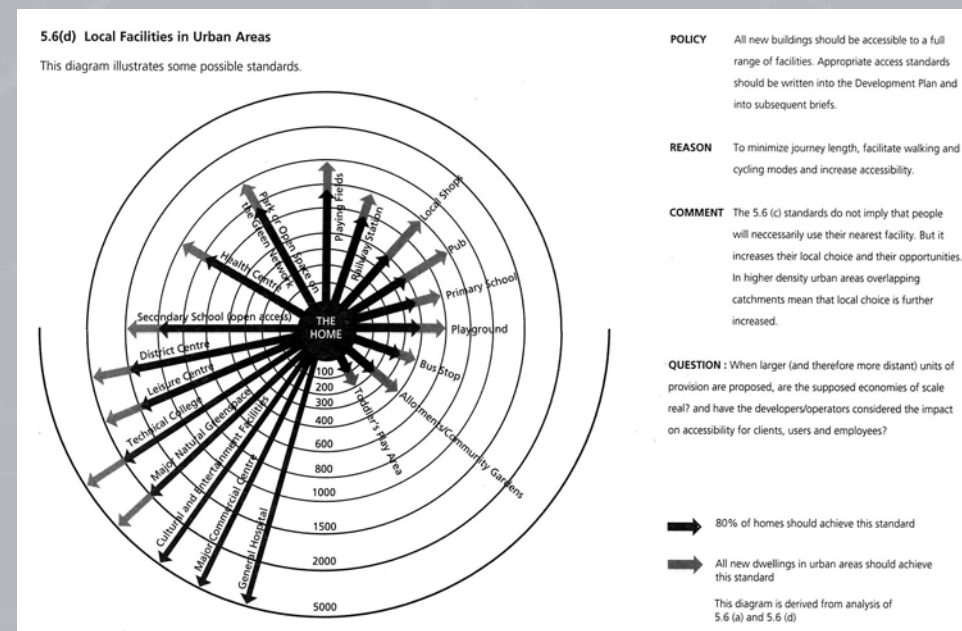
Sections	Number of Credits Achieved				Maximum possible score	Actual score achieved	%
	Best	Good	Minimum	Not Met			
1 CLIMATE CHANGE AND ENERGY	10	4	1	1	14.05	11.44	81%
2 SUSTAINABLE CONSTRUCTION	5	5	3	1	11.30	7.68	68%
3 COMMUNITY & SUSTAINABLE LIFESTYLES	6	0	0	1	0.40	6.40	84%
4 PLACEMAKING	10	4	1	0	13.20	11.54	87%
5 TRANSPORT	11	2	0	0	11.35	10.89	96%
6 ECOLOGY	6	1	0	0	6.65	6.44	96%
7 BUSINESS	2	2	0	0	3.65	3.30	89%
<b>TOTAL SCORE</b>	<b>50</b>	<b>18</b>	<b>5</b>	<b>3</b>	<b>65.80</b>	<b>55.67</b>	<b>85%</b>

**Overall Performance Rating: Exemplar**

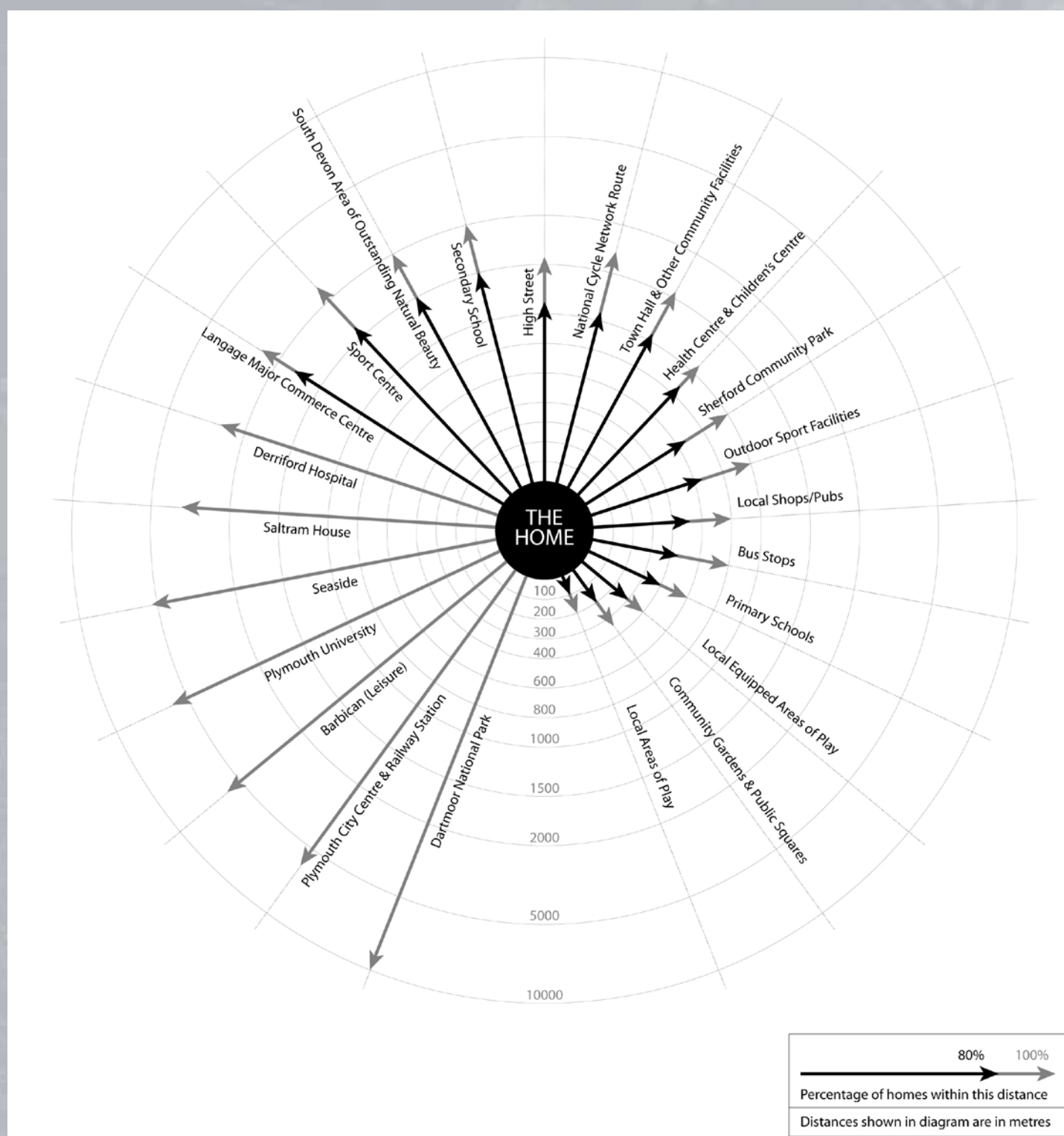


ref BRE Sustainability Framework Final Report, March 2007

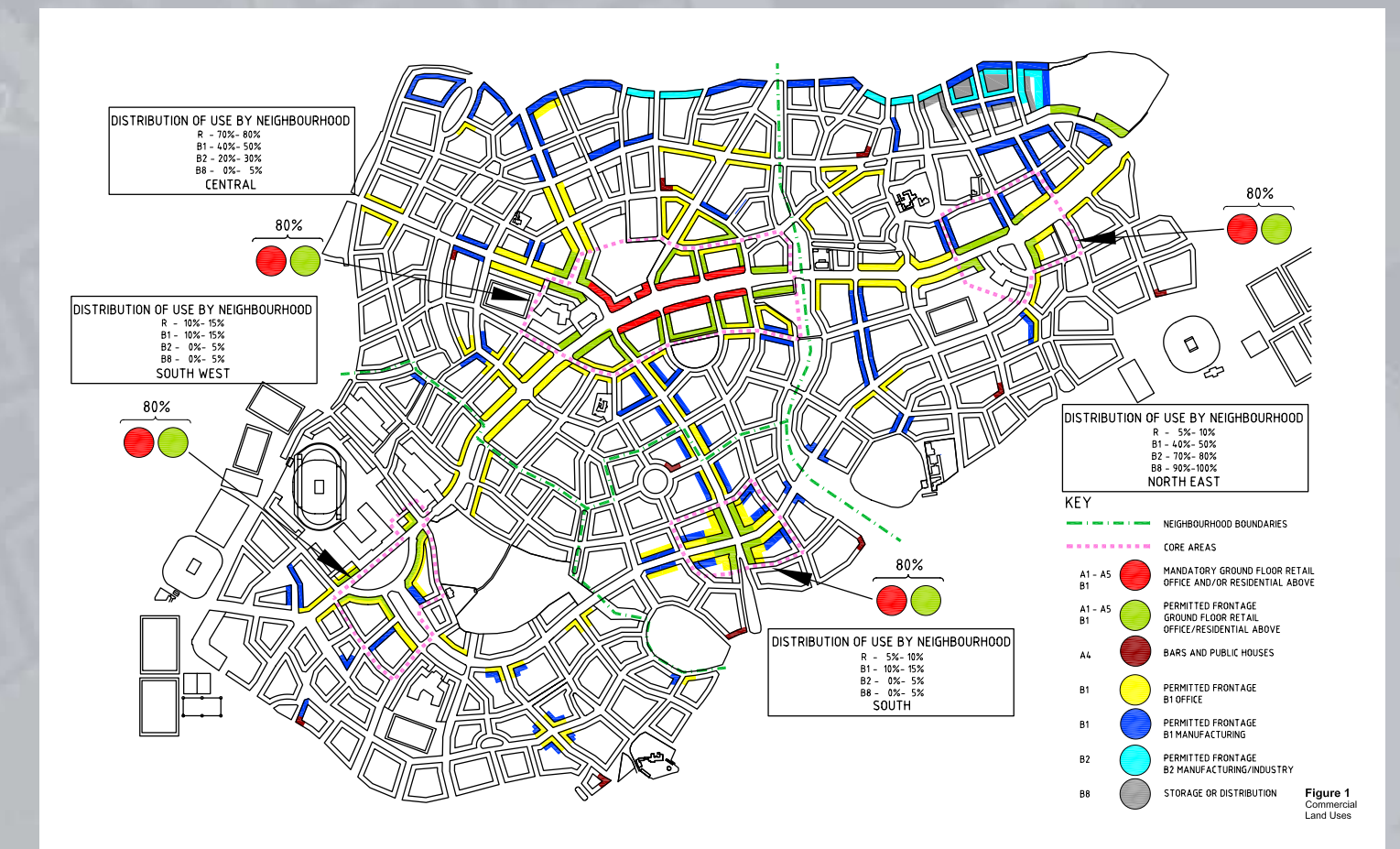
- Design the community so that **daily needs are within walking distance** of homes to **minimise car travel** and therefore fuel usage and carbon emissions
- Relatively high density development lowering land take
- **Encourage alternative modes** of transport to the private car – reverse the normal hierarchy: walking, cycling, use of the High Quality Public Transport system
- Set up a **Community Trust that promotes sustainable initiatives** from the outset to establish patterns of behaviour
- **Reduce demand** for electricity and space heating by making all buildings as energy efficient as possible - 25% to 60% phased reduction in CO2 emissions below Part L Building Regulations
- Construct all buildings to **BREEAM / EcoHomes ‘Excellent’**
- Incorporate **technologies** at building, block, neighbourhood and community scale that contribute to efficient and sustainable energy generation and use
- Provide two **community wind turbines** that will provide 32% – 41% of Sherford’s electrical and domestic hot water demand
- Undergrounding 5x40m electricity pylons over 3 kilometres
- **70 hectares** of native broadleaf trees including a carbon sink in the Community Park
- Offer an on-site **R&D facility** to test new methods and technologies and to stimulate their development
- Make sure the development is **flexible** to respond to inevitable technological development and ecological changes
- **Minimise, re-use and recycle waste** both through the construction process and in the long term, including the provision of a re-use centre and block scale waste management



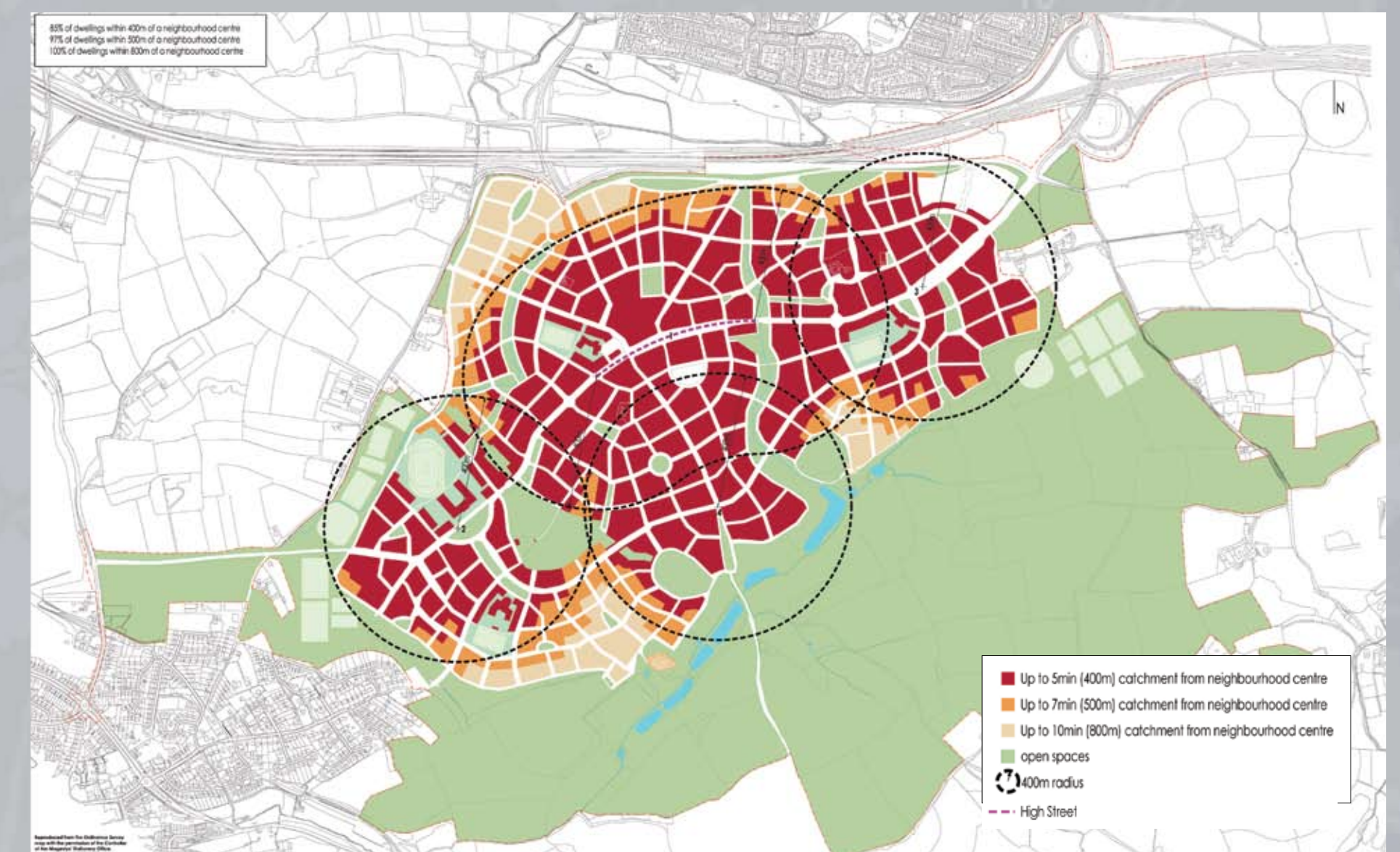
‘From Home to Everything You Need’ – a generic diagram (ref Masterplan Book)



‘From Home to Everything You Need’ – in Sherford (ref Masterplan Book)



Sherford Mixed-Use (ref Masterplan Book)



Sherford Ped-Sheds (ref Masterplan Book)