



Designing out barriers to access and mobility - AMELIA

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The policy analysis tool

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The policy analysis tool

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Methodology for

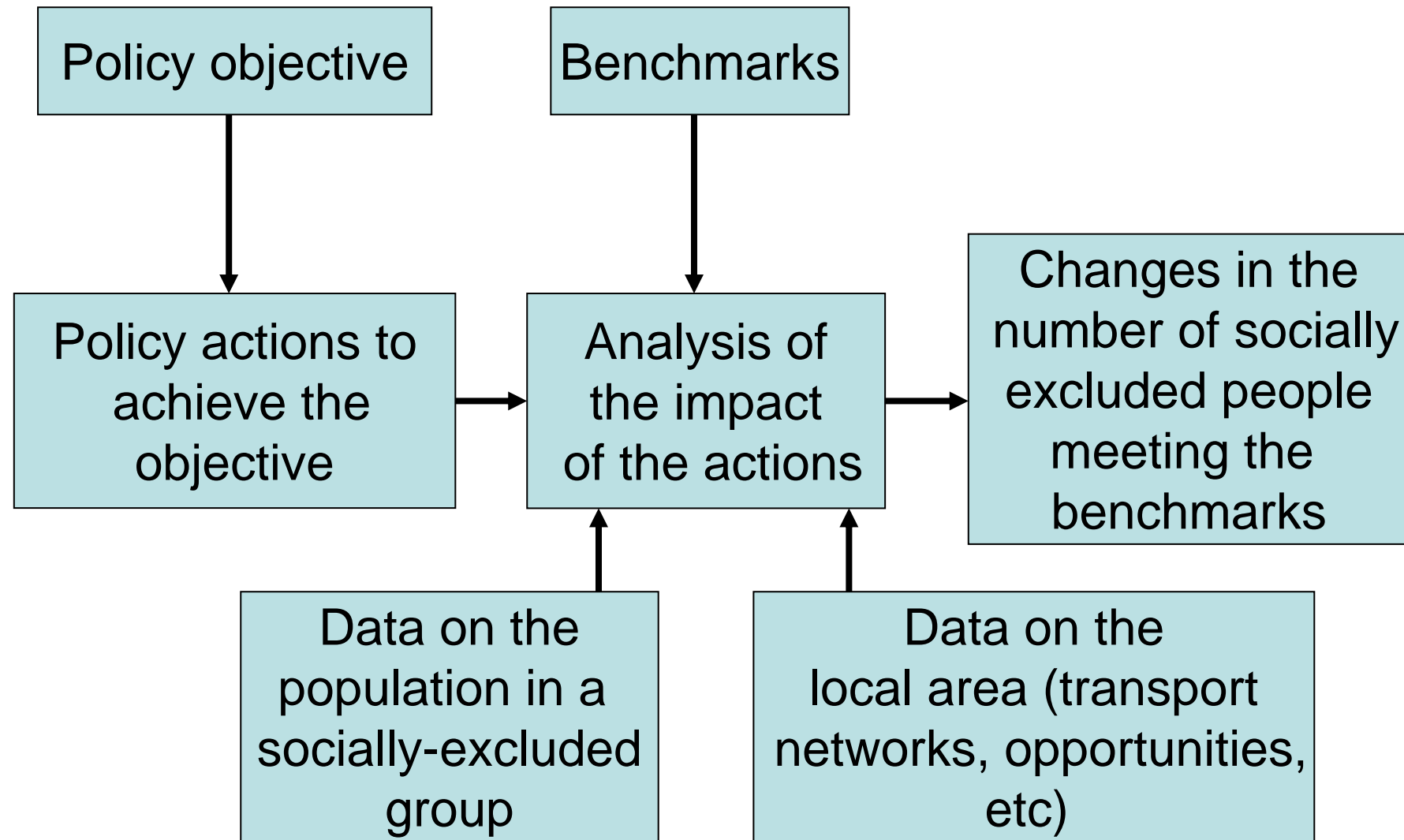
Enhancing

Life by

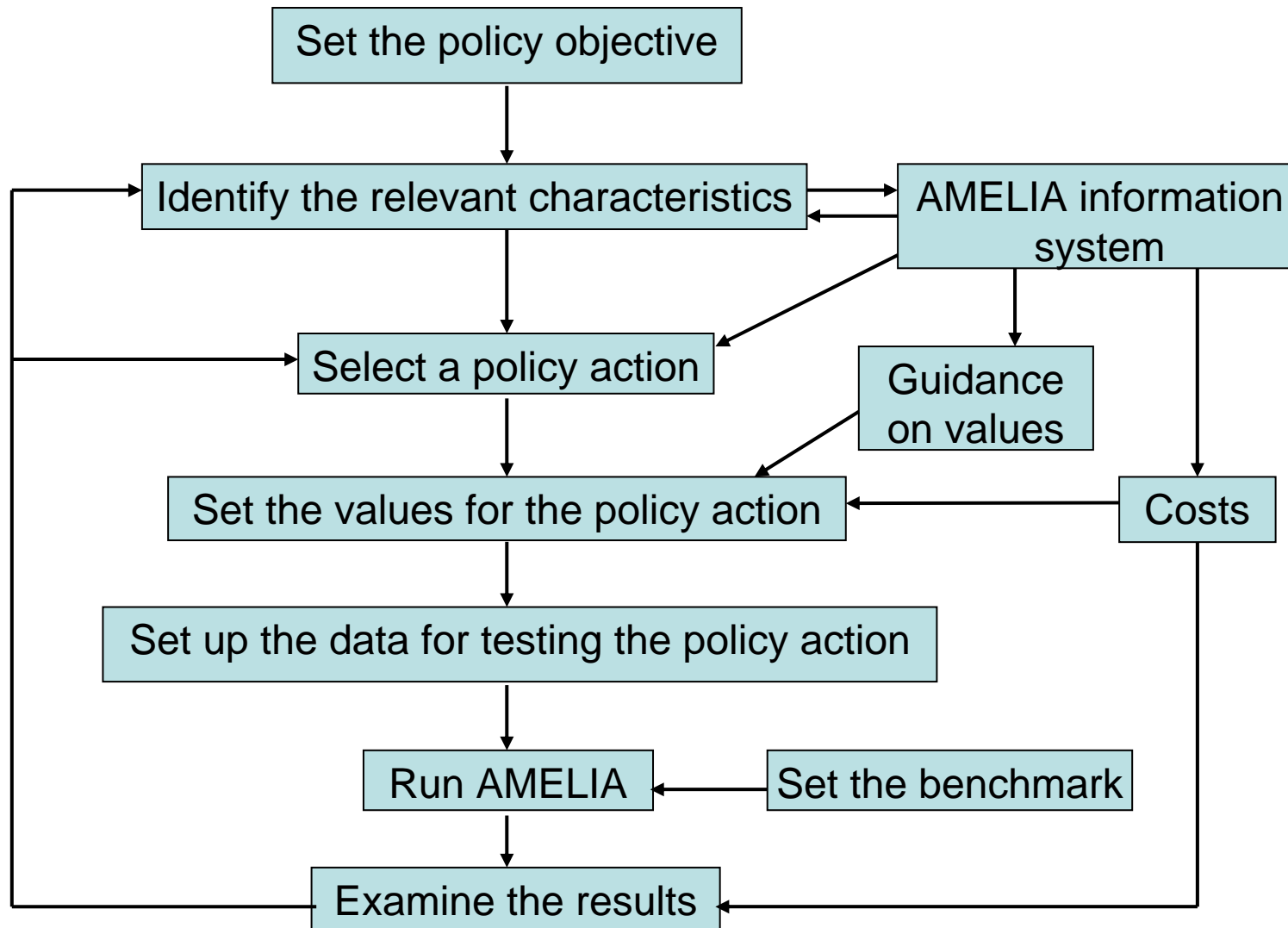
Increasing

Accessibility

The elements of the policy analysis tool, AMELIA



The procedure



Policy analysis with AMELIA

- Establishing the most cost effective improvements to accessibility for older people in the city centre
- The effects of post office closures
- The effects of bus service changes on access to GPs' surgeries

Cost effective improvements for older people in the city centre

- **Objective:** to improve access within the city centre of St Albans for older people
- **The group being considered:**
 - The population aged 65+ based on the Census of Population, 2001 (19231 people)
 - Disaggregated into categories according to walking ability using data from the Disability Survey of Great Britain.
- **The policy actions:**
 - Providing dropped kerbs at existing crossings;
 - Providing crossings every 100 m;
 - Providing wider pavements;
 - Providing benches every 100 m.

The costs of the possible actions



Dropped kerbs - £1000 each side or £ 2000 per crossing



Pedestrian crossings - £25,000 each



Pavement - £65 per square metre



Benches - £500 each

Estimated walking capabilities of residents of St Albans aged 65+

Group	Cannot walk up one step	Can walk up one step	Total
Cannot walk at all or can walk less than 46 m	2500	0	2500
Can walk 46 m but not 183 m	77	1077	1154
Can walk 183 m but not 402 m	77	692	769
Can walk 402 m	0	14,808	14,808
Total	2654	16,577	19,231

Implementation of the case study

Assumptions:

- Those living within 800 metres of the city centre walk there (or travel by wheelchair);
- All others arrive by bus or car, split into their relative use by people aged 65+ nationally;
- Bus users are allocated to the bus stop within 400m of the city centre most appropriate for where they live; they are then assumed to walk or use a wheelchair;
- Car users allocated to car parks within 400m of city centre in proportion to their capacity; they are then assumed to walk or use a wheelchair.

Extra people who can reach the Old Town Hall

	Walk or wheelchair all the way	Bus then walk or wheelchair	Car then walk or wheelchair	Total
Providing dropped kerbs at existing crossings	0	0	24	24
Providing crossings every 100m	0	0	0	0
Providing wider pavements	0	0	13	13
Providing benches every 100m	7	56	461	524

Costs of implementing the policy actions

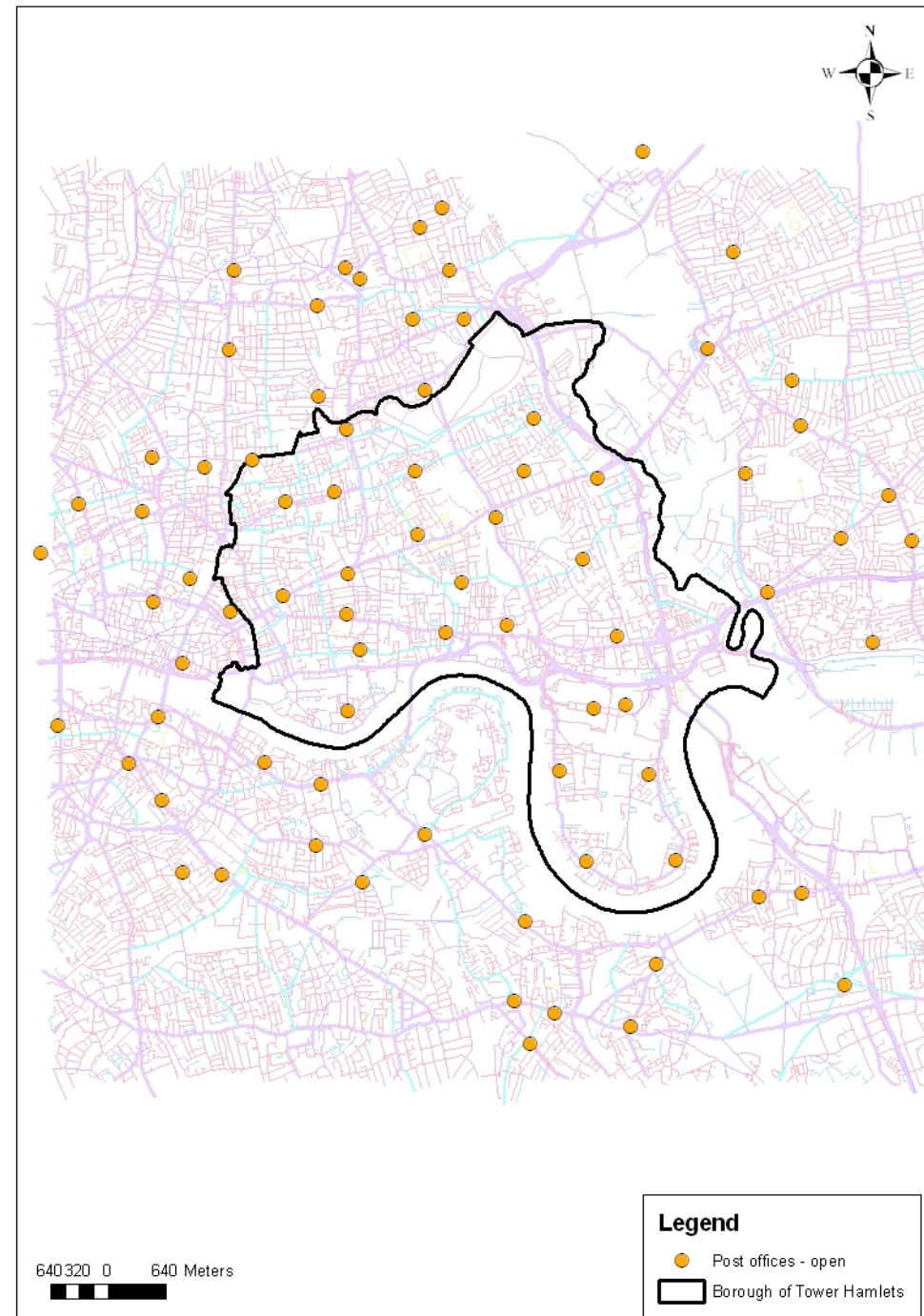
	Number of units installed	Total cost	Extra people able to reach the Old Town Hall	Cost/head
Providing dropped kerbs at existing crossings	23	£46,000	24	£1917
Providing crossings every 100 m	11	£275,000	0	-
Providing wider pavements	3689 m ²	£239,805	13	£18,447
Providing benches every 100m	314	£157,000	524	£300

The effects of the closure of post offices

- In May 2007 the Government announced a programme of closure of 2,500 out of 14,300 post offices.
- AMELIA has been used to look at the effects of these on access in the London Borough of Tower Hamlets and in Hertfordshire

Post offices

Pattern of post offices in Tower Hamlets prior to closures



Post offices

Pattern of post offices in Tower Hamlets after closures

