



# Contradictory views around merits of intensification & mixed use:

- Politicise debates on urban structure and land use planning
- Reflect sparse empirical data on household behaviours and build environment impacts
- A lack of tools to systematically assess different permutations of density and use in different situations

# This debate is too important to be:

- Uninformed by evidence
- Undertaken without thinking about neighbourhoods

# Cities are built on neighbourhoods

- They are the site for social reproduction
- They are the site for economic production
- They connect the city together
- The way and where neighbourhoods are built impacts:
  - Directly on the biophysical environment
  - The sustainability of people's behaviours and relationships.

# Beacon's Neighbourhood Sustainability Framework & Tools:

- Help us understand neighbourhoods better
- Have a systematic way of assessing new and existing neighbourhoods
- Focus on where a difference can be made in a new or existing neighbourhood to:
  - Optimise the quality of life for those that live, work or play in them
  - Increase the externalised value of a neighbourhood
  - Reduce the externalised costs of a neighbourhood

# Sustainable Neighbourhoods Can

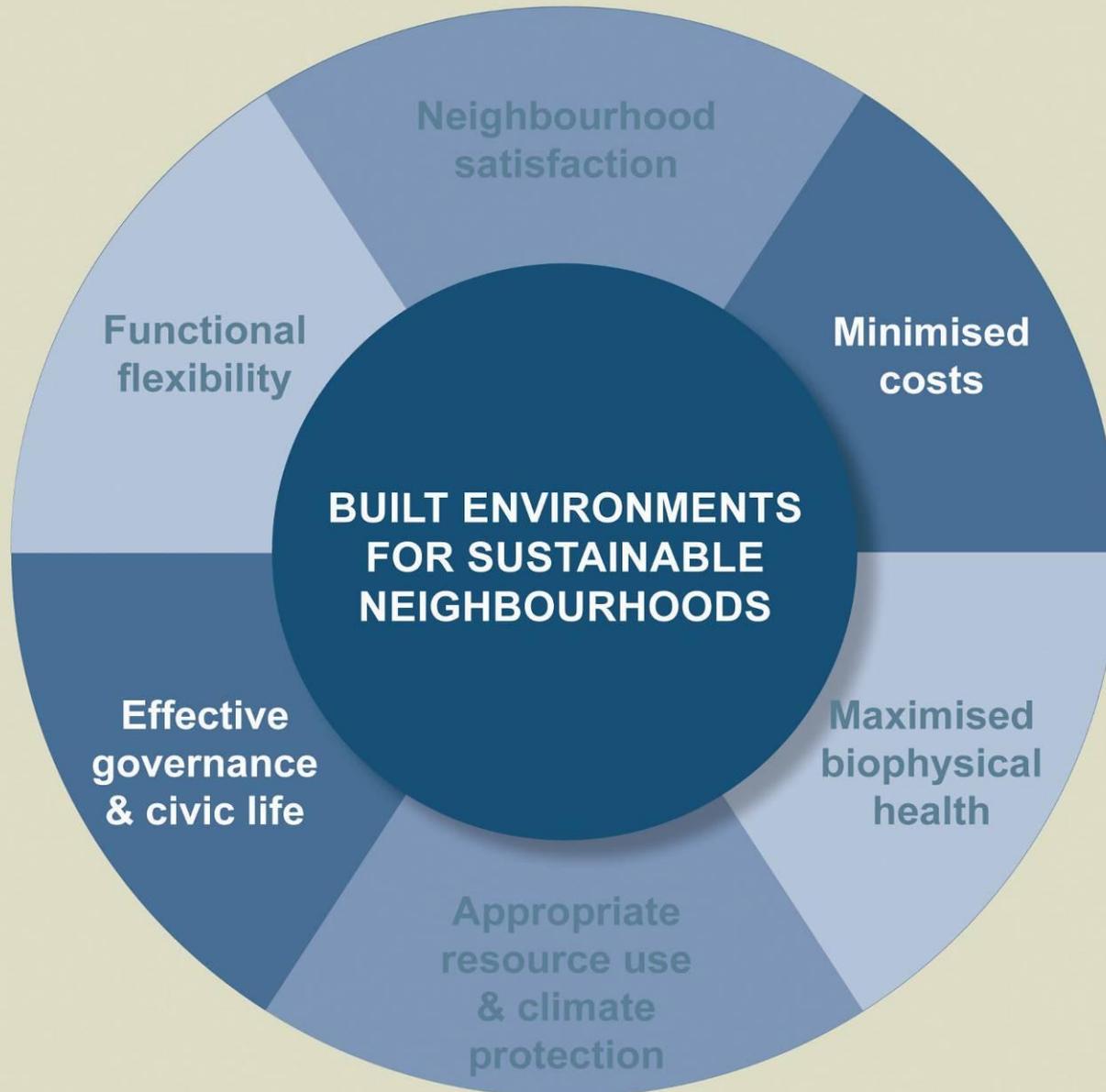
- Work across the triple bottom line
- Be resilient
- Deliver quality of life
- Attract skilled people to our cities
- Underpin city productivity



# Beacon's Neighbourhood Sustainability Framework

- Is outcome based
- Sets a goal for designing and managing the neighbourhood built environments
- Assesses the performance and potential of neighbourhoods through:
  - The Neighbourhood Built Environment Assessment Tool
  - The Resident Self-Report Tool

# SIX CRITICAL OUTCOME DOMAINS FOR SUSTAINABLE NEIGHBOURHOODS



# Observational Tool Measures New & Existing Neighbourhoods

- Access to basic every day facilities within walking distance
- Access to and adequacy of public transport within walking distance
- Quality of space
- Efficient use of space and viability of local centres
- Diversity
- Protection and enhancement of the natural environment
- Dwelling level sustainability

# The Resident Self Report Tool

- Measures resident perception and behaviour
- Only used for existing neighbourhoods
- Uses self-reported information
- Neighbourhoods are assessed against a national baseline
- The neighbourhood baseline is a National Survey of 1613 householders



# Residential Self Report Tool – Version 3

Domain	Measure
Functional flexibility	- % intention to move because of housing
	+ % foot/bicycle/public transport for work/study
Neighbourhood satisfaction	- % intention to move because of neighbourhood
	+ % describing house/garden condition as ‘very good’
	+ % describing walking in street at night as ‘very safe’
	- % describing walking in street at night as ‘very unsafe’/‘do not go out at night’
	+ % noise disturbance described as ‘not a problem’
	- % noise disturbance described as a ‘serious problem’
	- % no chat or greeting of neighbours
	- % no neighbours known by name
	+ % knowing many in the neighbourhood
	+ % strongly agreeing that the neighbourhood is friendly
	+ % strongly agree that neighbourhood reflects own identity
	+ strongly agree that has a sense of belonging

# Residential Self Report Tool – Version 3

Domain	Measure
Maximised biophysical health	- exceeding average aggregate kms last 4 weeks car use
	+ % use bicycle/walk for work/study
	+ % undertakes composting
	+ % leaves undisturbed area for wildlife
	+ % maintains shrubs and garden
	+ % provides pond
	+ % provides food and water for wildlife
	+ % undertakes organic gardening

# Residential Self Report Tool – Version 3

Domain	Measure
Effective governance and civic life	+ % membership and participation in local or neighbourhood groups
	+ % participation in local or neighbourhood group at least once a month
	+ % use of local public spaces at least once a month
Resource use & climate protection	-exceeding average aggregate kms last 4 weeks car use
Minimised cost	+ % who expend more than half of their food expenditure in the neighbourhood

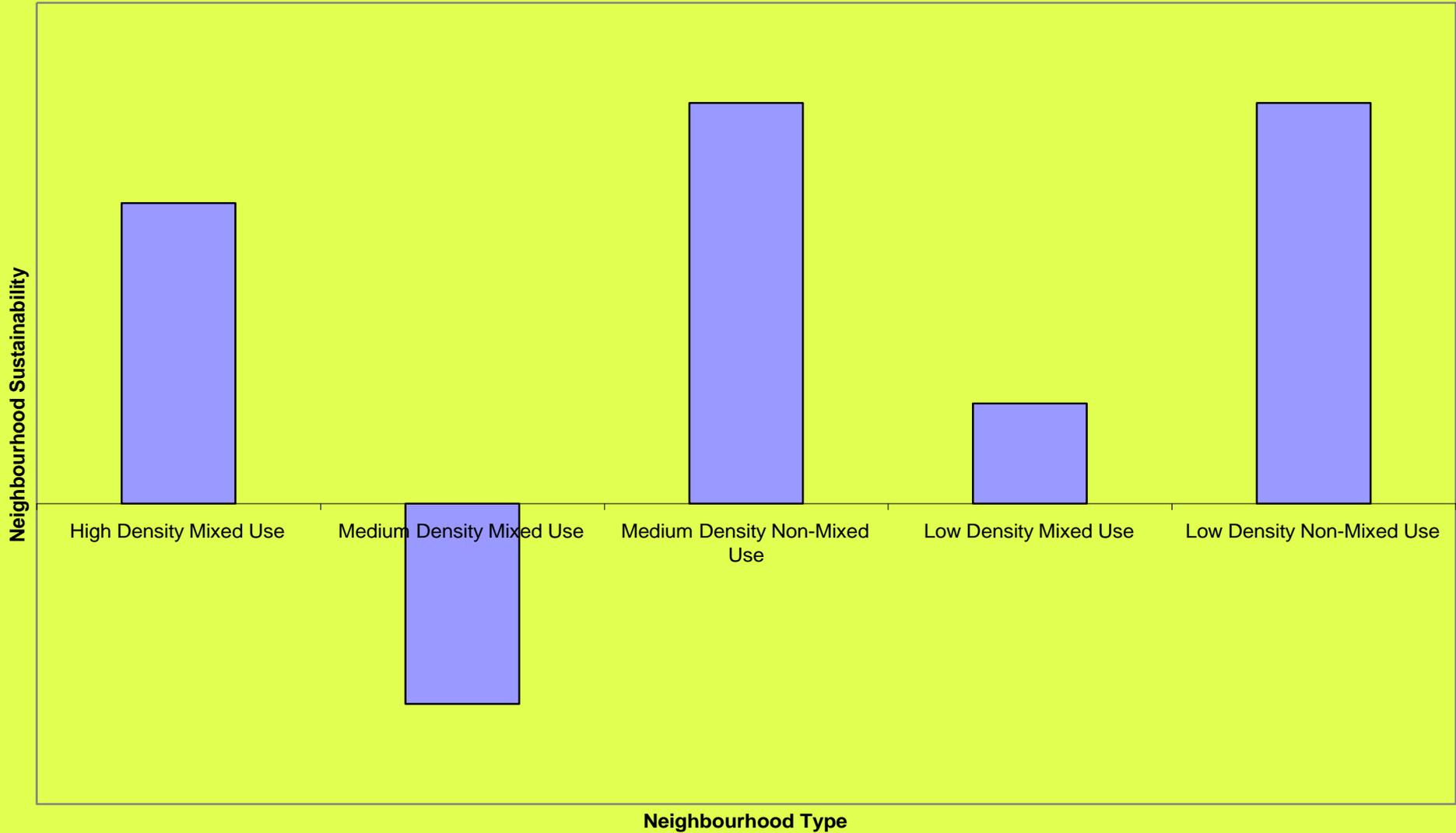
# How has the NSF been used?

- To better understand the potential for new neighbourhoods and their sites.
- To identify retrofitting options for existing neighbourhoods.
- To assess what types of neighbourhoods provide value or expose us to direct or indirect costs.



# So What Neighbourhood Types Get High Assessment?

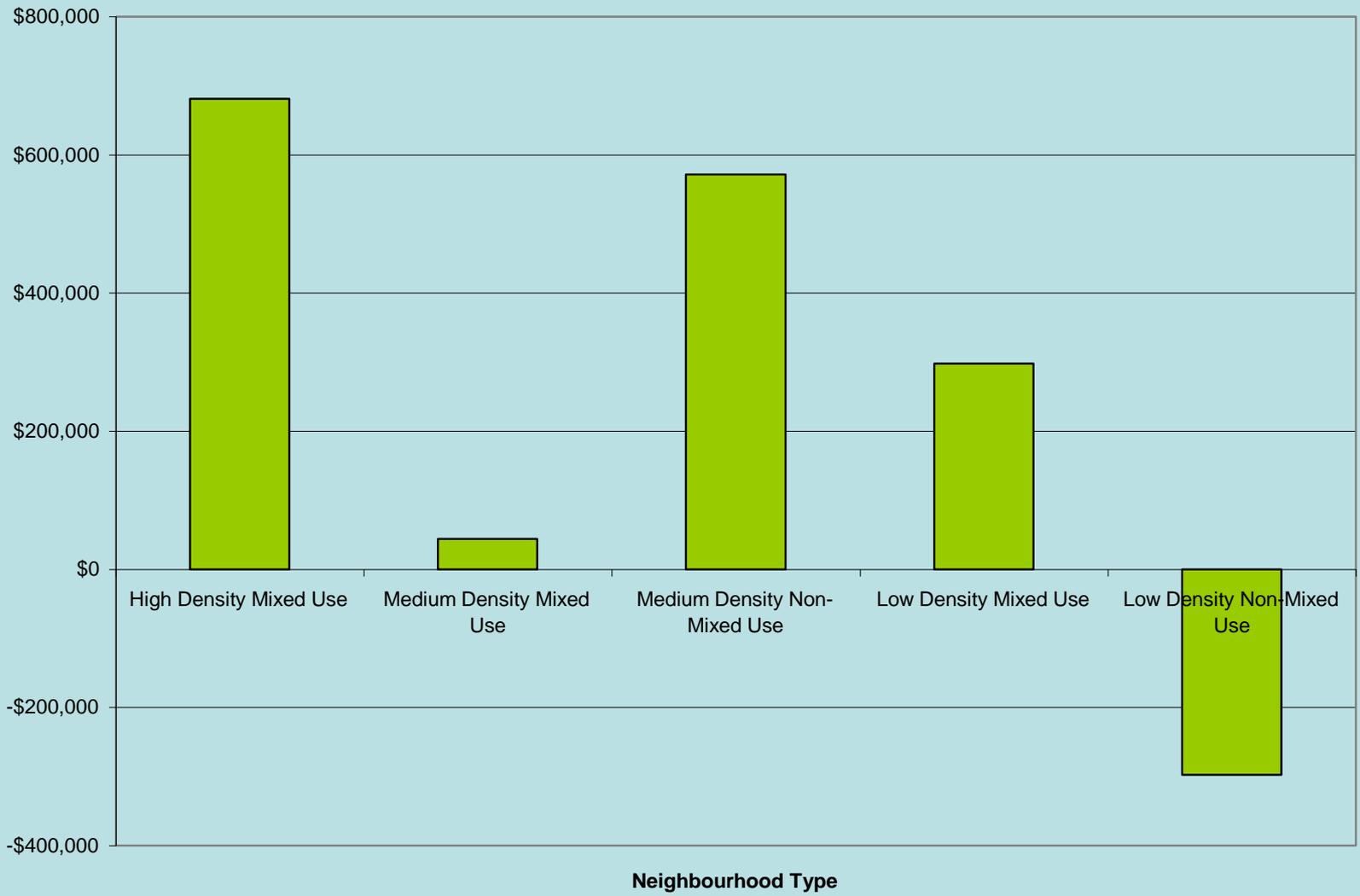
- On the Observational Tool:
  - Higher density and mixed use neighbourhoods
- Resident Self Report Assessment shows:
  - Higher density and mixed use neighbourhoods in NZ are not always performing well
- National Neighbourhood Survey data shows:
  - High density mixed use – highest scores
  - Medium density mixed-use – lowest scores



# Monetising Neighbourhood Characteristics

- Impacts of public transport availability and amenities on property prices
- Property value impacts of neighbourhood dilapidation
- Impacts of street and public space design on property values
- The value of walking and the neighbourhood built environment design features that prompt walking
- The impact of environmental degradation on investment, disinvestment and attachment
- The impact of neighbourhood mix, density and street design on crime
- The impacts of connectivity on civic participation
- Neighbourhood transport patterns of road death and injury
- Impacts of crime on health outcomes





# Lessons for the Intensification and Use Debate

- Neighbourhoods are complex and dynamic
- Neighbourhoods have externalised impacts beyond the households that live in them
- Good characteristics may not deliver if implemented poorly
  - Medium and high density neighbourhoods have buildings that are not suited to functions
  - Mixed use neighbourhoods demand different buildings
- Neighbourhood performance is profoundly affected by position in the city system and management
- Single point in time measures have limited value
- City performance reflects the distribution of neighbourhood types and needs to be incorporated in structure planning

# Building on the NSF

- Version 4 recognises some key findings for the 'valuing neighbourhoods' exercise
- Weights more heavily walk- and ride- ability
- Reconfirms the importance of neighbourhood assessment for decision-making
- Moves from simply rating neighbourhoods
- By providing a consistent language and outcomes framework it can inform:
  - City growth and development
  - District planning
  - Identification of priority areas for redevelopment intensification

# NSF and Its Tools

Coming soon in kit form:

- Neighbourhood Sustainability Framework
- Statement of purpose – assessment not rating
- Use guidelines
- Excel interface and calculators
- Data collection instruments

