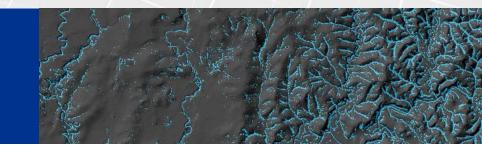
A framework to spatially represent the social values of waterways

Aneeta Nathan – Spatial & Information Services Consultant, Jacobs Group (Australia)



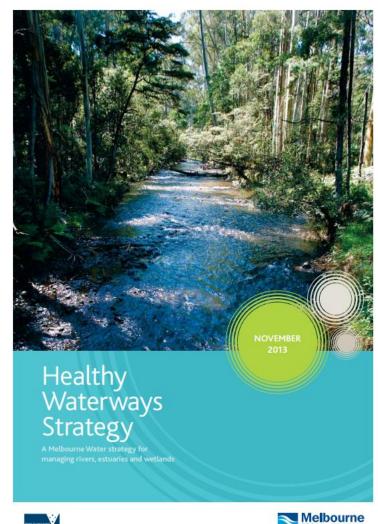
1 November 2018



Healthy Waterway Strategy

- Strategic direction for waterway management
- Priority targeting











Key challenges

Why a social values focus?

How do we define social values?

How do we represent social values in space?

What questions can we ask?



Why a social values focus?

Plan early

How can we ensure recognition of social value in planning for waterways?

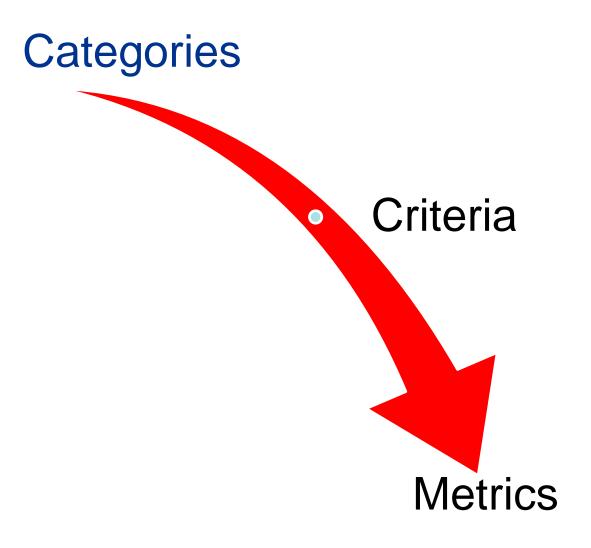
Link to condition

Can we use the waterway condition metrics that under pin social value?

Integrating information

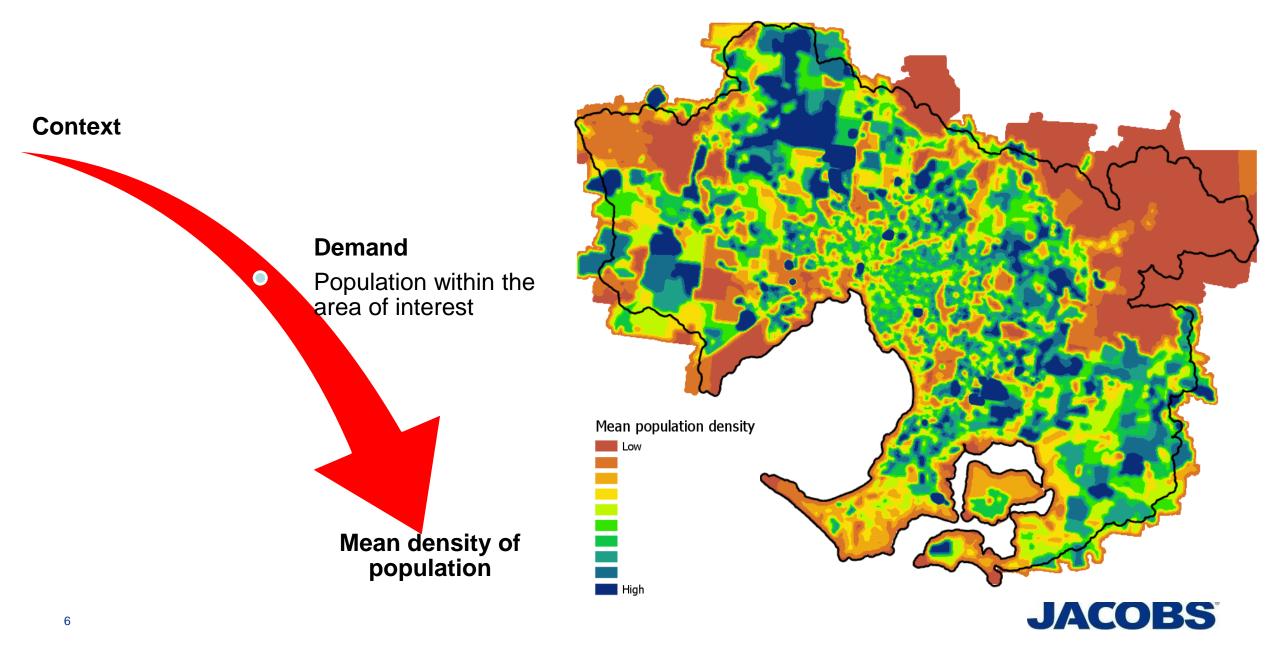
How do we create an environment to represent and query social values?

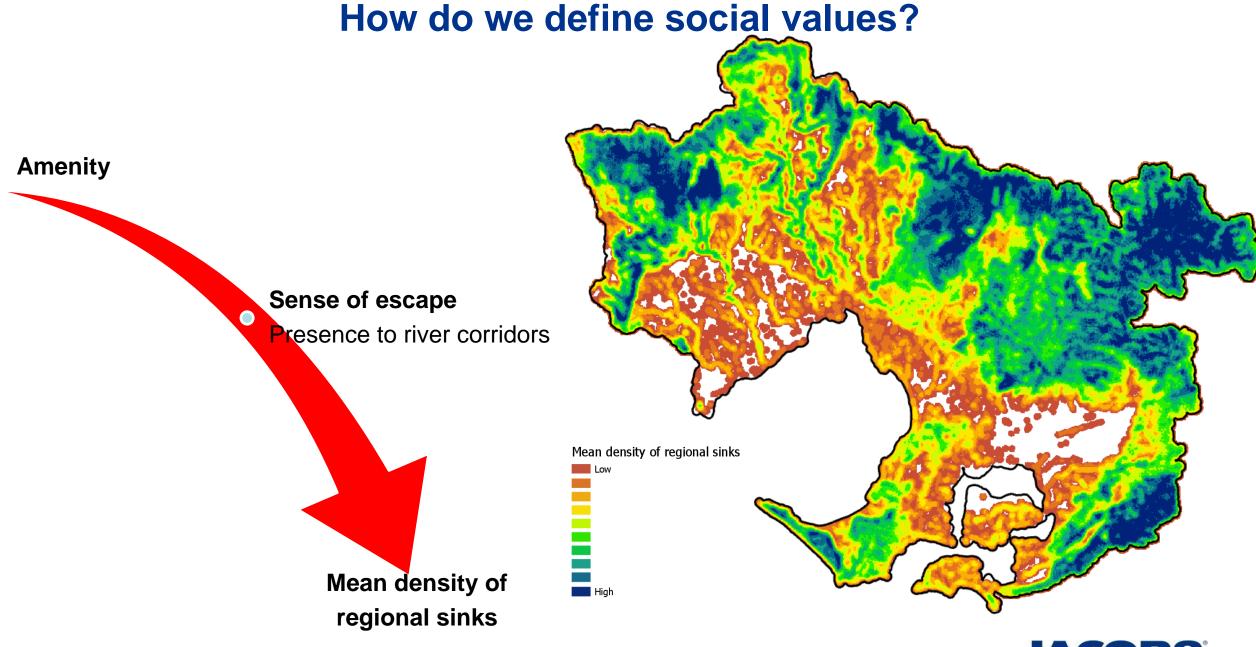




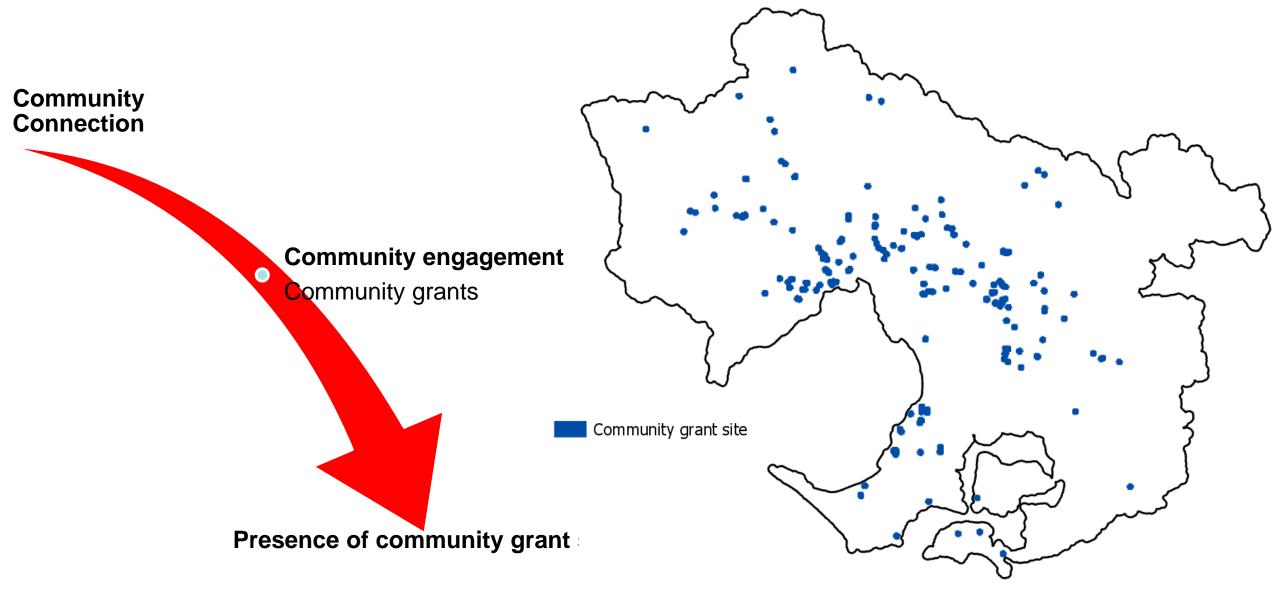
- Amenity the pleasantness of waterways and their ability to provide a restorative escape
- Community Connection –
 waterways connect the community with
 nature and with each other
- Recreation waterways provide a setting for active and passive recreation



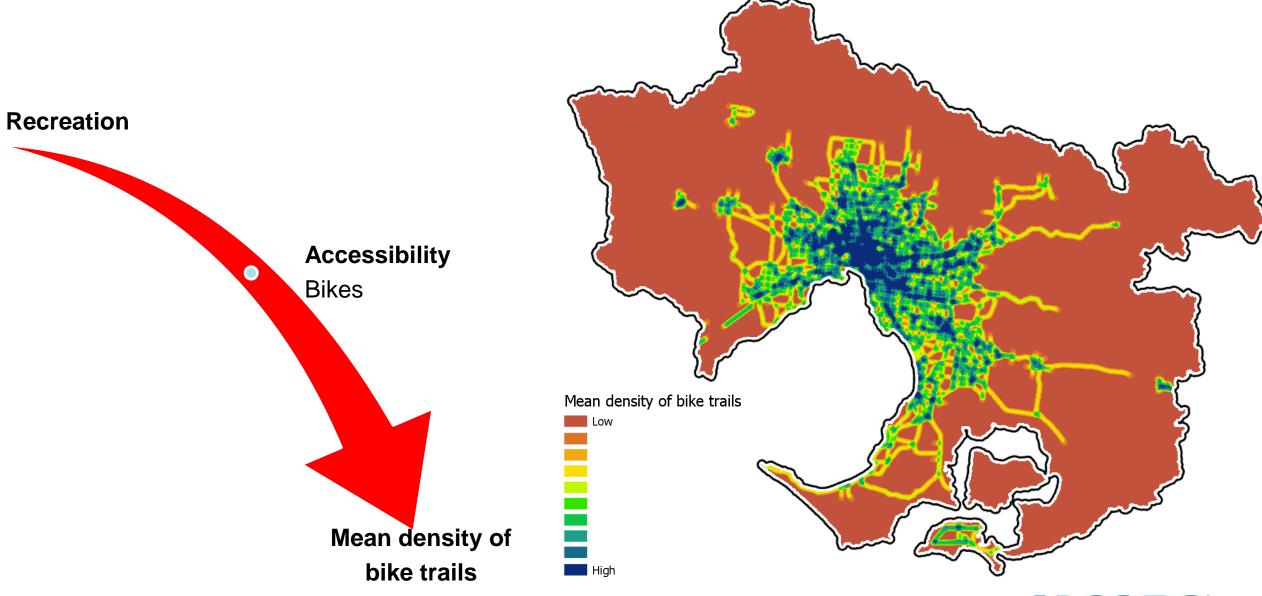










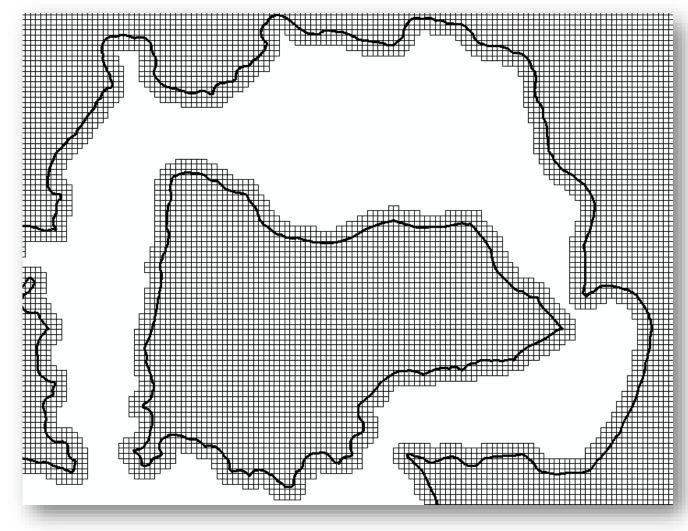




How do we bring social values together in space?

Considerations:

- Operational use
- Summarising metrics
- Appropriate scale
- Easy way to ask a question



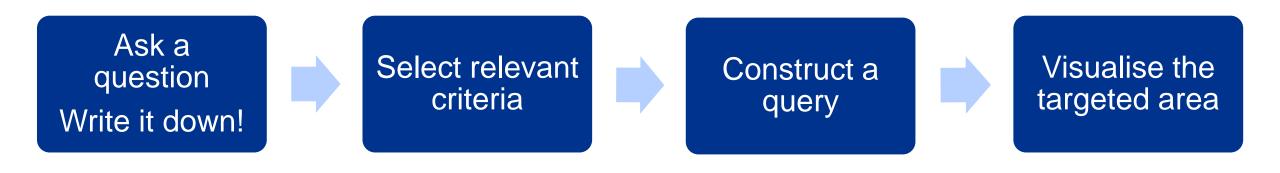
250m x 250m mesh across French Island



What questions can we ask?

Find me places that have these characters!

The structure allows us to turn planning questions into database queries It allows us to target locations



The workflow!



Example – using metrics to define amenity profiles

Where can I feel a sense of escape from the urban environment?

Low in the terrain & lots of trees

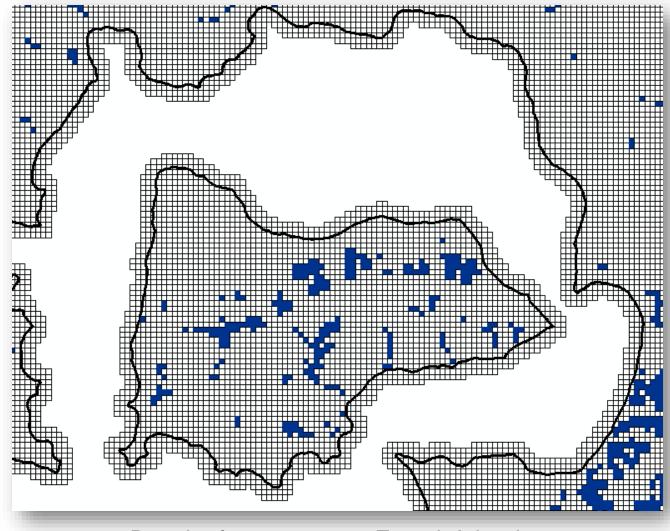




Example – using metrics to define amenity profiles

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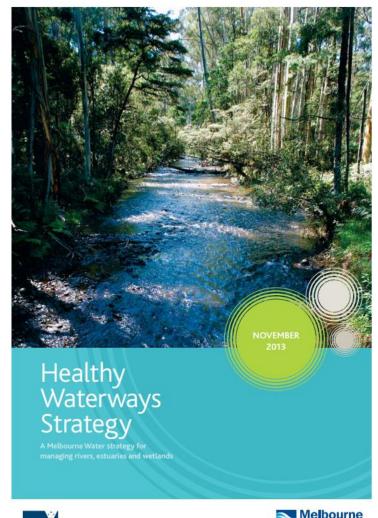
Result of query across French Island



Application to the Healthy Waterway Strategy

- Preliminary target areas
- Delivery included database, raw data, documentation
- In-house training











Representing the social values of waterways

- Structured approach to metric development
- Common analysis geography
- Highly accessible resource for decision making

Why a social values focus? How do we define social values? How do we represent social values in space? What questions can we ask?



Questions?

