



Equitable local outcomes in adaptation to sea-level rise: A proposed research agenda for Gippsland Victoria

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- Limited information about social and economic impacts of climate change
 - The need for more research
- About our proposed research to address this need
 - Gippsland



- Risks of sea level rise
 - Land subsumed
 - Numbers of settlements at risk
 - Numbers of people at risk
 - Economic value of assets at risk
 - Ecological impacts
- At a large scale
- Identification of adaptation measures
 - ‘retreat, protect, accommodate’
- Benefits and limitations of this work



- More recent research:
 - Investigates social vulnerability and adaptation to sea-level rise
- Strengths:
 - Considers barriers and limitations
 - Recongises complexity
 - Identifies the importance of processes for decision making
 - Based on empirical work



- There is a need for more research regarding social and equity effects of adaptation
 - Particularly in developed countries
 - Particularly in Australia
 - Facilitate greater understanding





Gippsland



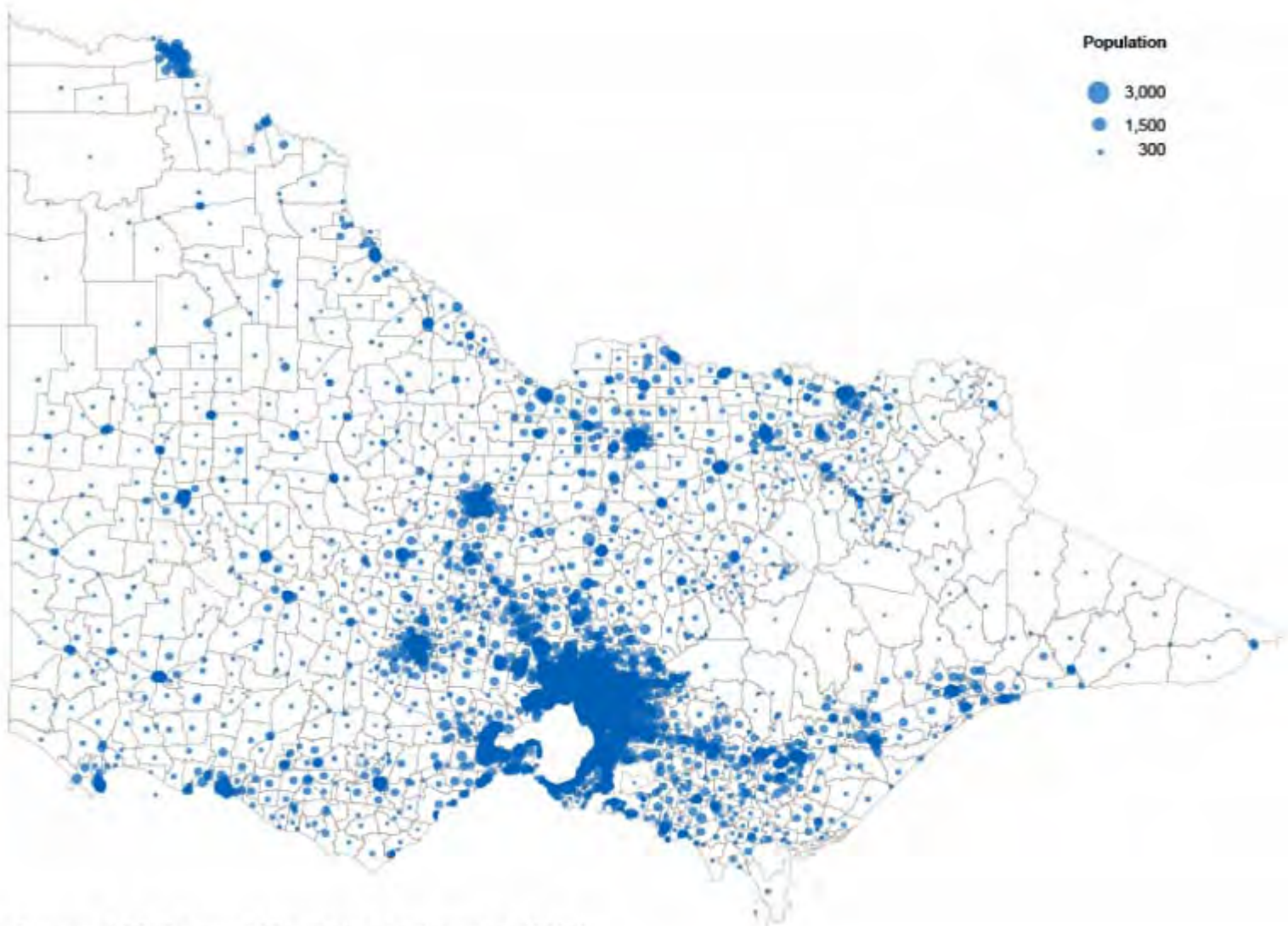
<http://maps.google.com.au>

- Victorian Government's
 - *Victorian Coastal Strategy 2008*
- Gippsland Coastal Board's
 - Report on *Climate Change, Sea-Level Rise and Coastal Subsidence Along the Gippsland Coast 2008*





Settlement Pattern for Victoria 2006



Source: ABS, Census of Population and Housing (2006)



McLaughlin's Beach, Victoria

- Develop an approach to identify the social and equity outcomes of various strategies to adapt to sea level rise
 - Four communities in Gippsland
- Applicable to other communities
- Applicable to other climate change impacts



- **Key:** Seek to identify the outcomes of the decisions that are likely to be made
- Social outcomes of adaptation
- Use a combination of approaches
 - Social vulnerability research
 - Participatory decision making about adaptation



- Exposure and sensitivity
- Adaptive capacity
- Individual and collective:
 - Preferences, attitudes and values
- Adaptation options
- How individuals and communities
 - Understand the likely social and equity outcomes of adaptation



1. Project design / policy review
2. Plan for data collection
3. Data collection – descriptive analysis
4. Review of values at risk from sea-level rise
5. Identification of adaption strategy options
6. Community ranking of adaptation strategy options
7. Final report / guidelines preparation



- Enhance knowledge of the equity dimensions of adaptation strategies
 - Very little research so far
 - Specific knowledge generation for the Gippsland area
- Advance the understanding of approaches for assessing the equity outcomes of adaptation strategies
 - What information/processes matters most?
 - More efficient decision making
- Guidelines proposed



- Census Data: Towns in Victoria
 - <http://www.multicultural.vic.gov.au>
- Towns in Time
 - Department of Planning and Community Development
 - <http://www.dse.vic.gov.au/DSE/dsenres.nsf/LinkView/E05D934749B13CE2CA256D3B0005539F5D8F38B915AF5AA1CA256D1A0022BDE9>



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