

Financial Sustainability and Local Government Reform

Dana Kathleen McQuestin

BEc (UNE), BEc Hons (UNE), MEc (TMU)

A thesis submitted for the degree of Doctor of Philosophy
University of Technology Sydney
March 2021

CERTIFICATE OF ORIGINAL AUTHORSHIP

I, Dana Kathleen McQuestin declare that this thesis, is submitted in fulfilment of the

requirements for the award of Doctor of Philosophy, in the Faculty of Design, Architecture

and Building at the University of Technology Sydney.

This thesis is wholly my own work unless otherwise referenced or acknowledged. In

addition, I certify that all information sources and literature used are indicated in the thesis.

I certify that the work in this thesis has not previously been submitted for a degree nor has it

been submitted as part of the requirements for a degree at any other academic institution

except as fully acknowledged within the text. This thesis is the result of a Collaborative

Doctoral Research Degree program with Tokyo Metropolitan University.

This research is supported by the Australian Government Research Training Program.

Signature:

Production Note:

Signature removed prior to publication.

Date: 8th November 2020

iii

ABSTRACT

Financial pressure is increasing for local governments, exacerbated by the 2008 subprime mortgage crisis and Covid-19 pandemic. Given the potentially grave consequences which financial stress or collapse can engender on the wider community, financial sustainability has become paramount. To ensure local governments can continue to operate in the long term, various reform programs targeting financial sustainability improvements have been employed. In Australia amalgamation is the preferred policy instrument.

To effectively target improvements in financial sustainability, the determinants of financial sustainability must first be identified. Although existing literature has analysed the effects of size, resident deprivation, and external operating environment, many non-conventional internal and external factors have received less scholarly attention.

Following this, the success of previous reforms programs must be critically evaluated. To facilitate the learning process, both the processes and outcomes of reforms should be examined. Although a sizable corpus of literature exists on municipal reform, more needs to be done in Australia, particularly with respect to the 2016 New South Wales (NSW) amalgamations.

Finally, alternative reform instruments should also be scrutinised. This will enable policymakers to identify if other alternatives exist which may represent a more efficacious, less expensive, or less disruptive solution.

This thesis aims to address these gaps in the literature and satisfy the needs of various local government stakeholders. To do so five analyses were conducted, through three key themes relating to (i) the association between non-conventional factors and local government expenditure, (ii) the success of the 2008 Queensland amalgamations and the more recent 2016 NSW 'Fit For the Future' reforms, and (iii) the efficacy of shared service arrangements as an alternative to amalgamations.

Results suggest the importance of non-conventional factors – political structures and budget accuracy – to financial performance. Moreover, evaluations of the large-scale forced amalgamations in Queensland and NSW cast doubt on the efficacy of amalgamations to address financial sustainability concerns. In addition, a commonly endorsed alternative to amalgamation (shared services) was also found to be wanting.

In sum, it was found that conventional reform instruments are unlikely to materially improve financial sustainability. Indeed, it appears that they have only further exacerbated matters. The results emphasise the importance of engaging with academics and the scholarly literature to ensure that the cost savings referred to in policy documents are actually achievable in practice. Moreover, future attention should carefully consider non-conventional approaches, given the significant associations identified.

ACKNOWLEDGEMENTS

Although a PhD is typically conferred on a single candidate, it is important to recognise that this achievement is not the solely due to any individual person's efforts. Rather, it is the result of time, effort, and dedication invested by the candidate and a network of supporters. While I am proud of my academic achievements thus far, I would like to express my enduring gratitude for the assistance and guidance provided to me during my candidature by a multitude of wonderful people.

First of all, I would like to give my sincerest thanks to my wonderful supervisors. My principal supervisor Professor Joseph Drew despite having one of the busiest schedules of any academic I have ever met was always willing to take the time to explain empirical and theoretical concepts to me, and to help me improve my empirical methodology and academic writing. Without your support, wisdom, and guidance, I would not have been able to produce this thesis in its current form. I would also like to thank my current and former cosupervisors, Masato Miyazaki, Vince Mangioni and Lee Pugalis for helping me to navigate the academic and bureaucratic challenges which I have faced during my candidature.

Secondly, I would like to thank my co-authors for the journal papers which form the bulk of this thesis: Professor Brian Dollery, Professor Masayoshi Noguchi, and Professor Masato Miyazaki. I would also like to thank the academics which have acted as the blind reviewers for my papers and indeed for this thesis as a whole. I know that through the comments and instruction given to me that my academic writing has improved considerably. I can only hope it is a trend which will continue on into the future.

Thirdly, I would like to express my heartfelt thanks to my dear family and friends, in particular my beloved parents Carole Cochrane and Glen McQuestin, grandparents Kathleen Cochrane, Allan and Brenda McQuestin, siblings Luke and Ayla McQuestin, relatives Chris and John Irvine, and close friend Jin Yingxu. Writing this thesis has been no simple task, evident through the countless late nights and constant unease over impending deadlines. However, despite any challenges faced your love, concern, and generosity has been a continuous source of inspiration for me, helping me to complete my studies. Despite the distance which has kept me away from you during my candidature, you always went above and beyond to ensure that I never felt far from home. Your positive influence and encouragement have helped me grow and develop, not only academically, but as a functional adult, and I would like to dedicate this thesis to you.

Finally, I would like to thank the Institute of Public Policy and Governance (IPPG), and the wider community at UTS. Completing a PhD via distance education is never an easy accomplishment, however the talented men and women at the university were always willing to help me navigate through the complex administrative systems, providing support to ensure that I could complete the individual stages of my candidate without significant hardship.

Table of contents

Fore section

Title Page	.i
Certificate of Original Authorship	ii
Abstract	v
Acknowledgementsv	'ii
Table of Contentsi	ix
List of Tablesxi	11
List of Figuresx	V
Financial Sustainability and Local Government Reform	
CHAPTER 1- Introduction	
Contextual Background	2
The Purpose and structure of Local Government	2
Challenges Facing Local Government in Australia and Internationally	0
Local Government Reforms	5
The Purpose of Local Government Reform	5
The Definition of Local Government Reform	7
Reform, Economies of Scale and Financial Sustainability	7
Recent Amalgamation Episodes in Australia	23
The 2008 Queensland Amalgamations	23
The 2016 NSW "Fit For the Future" Reforms	27
Existing Analyses of Financial Sustainability and Municipal Reform3	1
Determinants of Financial Sustainability	3
Processes of Local Government Reform	0
Outcomes of Local Government Reform	4
Alternative Instruments of Local Government Reform	8
Research Questions	;3
Outline of the Thesis	;4
Methodology5	;9
Summary of Research Findings6	52

Chapter 2- The Price of Populism	63
Chapter 3- The Association Between Budget Inaccuracy and Efficiency in L Government	
Chapter 4- Do Municipal Mergers Improve Technical Efficiency?	
Chapter 5- Do Amalgamations Make a Difference?	
Chapter 6- Is a Problem Shared a Problem Halved?	
Contributions and Policy Implications	
Importance of Challenging Preconceived Notions	68
Importance of Internal Factors	
Importance of the Reform Process for Achieving Successful Outcomes	70
Importance of non-conventional methods of reform	70
Avenues for Future Research	
Conclusion	73
Research Publications	75
References	76
CHAPTER 2 - McQuestin, D., and Drew, J. (2018). The Price of Populism Association between Directly Elected Mayors and Unit Expenditure in Local Consumers of Law Localis 16(4): 672-601	
Association between Directly Elected Mayors and Unit Expenditure in Loc Government. Lex Localis, 16(4): 673-691	cal
Association between Directly Elected Mayors and Unit Expenditure in Localisment. Lex Localis, 16(4): 673-691 Introduction	cal 100
Association between Directly Elected Mayors and Unit Expenditure in Loc Government. Lex Localis, 16(4): 673-691 Introduction	100 101
Association between Directly Elected Mayors and Unit Expenditure in Loc Government. Lex Localis, 16(4): 673-691 Introduction	100 101
Association between Directly Elected Mayors and Unit Expenditure in Loc Government. Lex Localis, 16(4): 673-691 Introduction	
Association between Directly Elected Mayors and Unit Expenditure in Loc Government. Lex Localis, 16(4): 673-691 Introduction	
Association between Directly Elected Mayors and Unit Expenditure in Loc Government. Lex Localis, 16(4): 673-691 Introduction	
Association between Directly Elected Mayors and Unit Expenditure in Loc Government. Lex Localis, 16(4): 673-691 Introduction	
Association between Directly Elected Mayors and Unit Expenditure in Loc Government. Lex Localis, 16(4): 673-691 Introduction	
Association between Directly Elected Mayors and Unit Expenditure in Logovernment. Lex Localis, 16(4): 673-691 Introduction	
Association between Directly Elected Mayors and Unit Expenditure in Loc Government. Lex Localis, 16(4): 673-691 Introduction Directly Elected Mayors in the Literature Political Arguments Regarding Directly Elected Mayors Empirical Evidence on Directly Elected Mayors Combining Political and Empirical Perspectives to Make Predictions in the Empirical Strategy Discussion	
Association between Directly Elected Mayors and Unit Expenditure in Log Government. Lex Localis, 16(4): 673-691 Introduction Directly Elected Mayors in the Literature Political Arguments Regarding Directly Elected Mayors Empirical Evidence on Directly Elected Mayors Combining Political and Empirical Perspectives to Make Predictions in the Empirical Strategy Discussion Public Policy Implications CHAPTER 3 - McQuestin, D., Noguchi, M., and Drew, J. (2021). The Asso Between Budget Inaccuracy and Efficiency in Local Government. Public Mayors	cal

Empirical Methodology	125
Results and Discussions	126
Policy Implications and Concluding Remarks	130
CHAPTER 4 - McQuestin, D., Drew, J., and Dollery, B. Improve Technical Efficiency? An Empirical Analysis of Municipal Merger Program. <i>Australian Journal of Publi</i> 455.	f the 2008 Queensland
Introduction	136
Queensland Amalgamation Process	138
Local Government Efficiency Measurement	139
Empirical Methodology	140
Results	143
Conclusion	146
Introduction	153
45(3): 278-298.	
A Framework for Measuring Policy Success Policy Success	
Context	
Intended Outcomes and Processes	
Empirical Methodology	
Results	
Conclusion	
CHAPTER 6 - McQuestin, D., and Drew, J. (2018). Is a	Problem Shared a Problem
Halved? Shared Services and Municipal Efficiency. Aust Administration, In Print.	
	tralian Journal of Public
Administration, In Print.	tralian Journal of Public

Second-stage Regression	184
Association between Relative TE and Shared Services	186
Public Policy Implications and Conclusion	188
Appendix A: Certificates of Completion	192
Appendix B: Glossary of Terms	195
Appendix C: Supplementary Analysis for the Studies Undertaken	197

List of Tables

Chapter 1
Table 1.1: Number and Classification of Local Governments by State and Territory
Table 1.2: Australian Local Government Services by Functional Area
Table 1.3: Categories of Local Government Reform
Table 1.4: Internal and External Determinants of Municipal Financial Sustainability3
Table 1.5: Literature on the Reform Process
Table 1.6: Outcomes of Municipal Mergers
Table 1.7: Alternatives to Structural Reform
Chapter 2
Table 1: Variables Employed in Regressions, New South Wales, 2012-1610
Table 2: Median Differences between Urban, Regional and Rural Local Governments 11
Table 3: Effect of Directly Elected Mayor on Operating Expenditure, New South Wales 2012-2016
Chapter 3
Table 1: Descriptive Statistics of the Variables Employed, 2013-2018
Table 2: The Variation of Income, Expenditure and Nett Inaccuracy
Table 3: Efficiency and Budget Inaccuracy Overall Results, NSW Local Government, 2013- 2018
Table 4: Efficiency and Budget Inaccuracy Stratified Results, NSW Local Government, 2013-2018
Table 5: Sources of Budget Inaccuracy (% of total income/ total expenditure)13

Chapter 4

Table 1: Inputs and outputs for data envelopment analysis of Queensland councils 2003-20	
Table 2: Summary statistics for Queensland councils 2004-2012	143
Table 3: Compound average and median percentage change in outputs and inputs for amalgamated and non-amalgamated councils 2010-2012	145
Chapter 5	
Table 1: Definitions of Variables Employed	161
Table 2: Summary Statistics of Variables Employed	162
Table 3: Difference-in-Difference Regression Results: Outcomes	165
Table 4: Difference-in-Difference Regression Results: Processes	168
Chapter 6	
Table 1: Variables employed in data envelopment and second-stage regression analyses	183
Table 2: Shared service classifications	184
Table 3: Second-stage regressions of South Australian municipal efficiency, 2012-2016	187
Table 4: Expected characteristics of statistically significant shared services	189
Appendix	
Table A1: Robustness Analysis of the Effect of DEMs on Operating Expenditure	198
Table A2: Summary Statistics for the DEA analysis of Queensland local governments 200 2020	
Table A3: Correlation Between Efficiency and External Factors	202
Table A4: Local Governments Used to Make Synthetic Controls	204
Table A5: Hypothesis Testing of Differences Between Actual Unit Expenditure and Synth Counterfactual	
Table A6: Supplementary Regression Using Local Projection Modelling	208

List of Figures

List of Figures
Chapter 1
Figure 1.1: Local Government Revenue Sources, 2017-186
Figure 1.2: Local Government Expenditure by Purpose
Figure 1.3: Economies of Scale in Local Government Service Provision
Figure 1.4: Technical Efficiency-Input Orientation
Figure 1.5: No Economies of Scale in Local Government Service Provision
Figure 1.6: Timeline of the 2008 Queensland Amalgamation Process
Figure 1.7: Timeline of the 2016 NSW Fit For the Future Amalgamation Process30
Figure 1.8: Improving Financial Sustainability through Reform
Figure 1.9 Scope of Thesis and Position of Articles Within Research Framework59
Chapter 4
Figure 1: Median Efficiency of Queensland councils 2004-2012
Chapter 5
Figure 1: Difference-in-Difference Estimation
Figure 2: Trends in Total Expenditure per Assessment (\$000)
Figure 3: Trends in Staff Expenditure per Assessment (\$000)
Figure 4: Trends in Materials and Contracts Expenditure per Assessment (\$000)167
Figure 5: Trends in Other Expenditure per Assessment (\$000)

Chapter 6 Figure 1: Potential production (scale) efficiencies arising from shared services 178 Figure 2: Nett service efficiency arising from shared services 180 Figure 3: Nett municipal efficiency arising from shared services 181 Figure 4: Input-orientated DEA model 182

Appendix

Figure A1: Median Efficiency of Queensland Local Governments 2004-20	200
Figure A2: Changes in Efficiency Relative to Economic (GDP) Growth 2004-12	202
Figure A3: Changes in Efficiency Relative to Total Factor Productivity 2004-2012	203
Figure A4: Evolution of the Impacts from Shared Service Arrangements	209
Figure A5: Evolution of the Impacts from Shared Service Arrangements_Quadratic Mode	
	209