Management Accounting

Information for Creating and Managing Value



MANAGEMENT ACCOUNTING

MANAGEMENT ACCOUNTING 8E

Information for Creating and Managing Value

- **KIM LANGFIELD-SMITH**
- **DAVID SMITH**
- PAUL ANDON
- **■** RONALD HILTON
- **■** HELEN THORNE





Copyright © 2018 McGraw-Hill Education (Australia) Pty Ltd

Additional owners of copyright are acknowledged in on-page credits.

Every effort has been made to trace and acknowledge copyrighted material. The authors and publishers tender their apologies should any infringement have occurred.

Reproduction and communication for educational purposes

The Australian *Copyright Act 1968* (the Act) allows a maximum of one chapter or 10% of the pages of this work, whichever is the greater, to be reproduced and/or communicated by any educational institution for its educational purposes provided that the institution (or the body that administers it) has sent a Statutory Educational notice to Copyright Agency Limited (CAL) and been granted a licence. For details of statutory educational and other copyright licences contact: Copyright Agency, 66 Goulburn Street, Sydney NSW 2000. Telephone: (02) 9394 7600. Website: www.copyright.com.au

Reproduction and communication for other purposes

Apart from any fair dealing for the purposes of study, research, criticism or review, as permitted under the Act, no part of this publication may be reproduced, distributed or transmitted in any form or by any means, or stored in a database or retrieval system, without the written permission of McGraw-Hill Education (Australia) Pty Ltd, including, but not limited to, any network or other electronic storage.

Inquiries should be made to the publisher via www.mcgraw-hill.com.au or marked for the attention of the Permissions editor at the address below.

National Library of Australia Cataloguing-in-Publication entry

Creator: Langfield-Smith, Kim, author.

Title: Management accounting: information for creating and managing value/Kim Langfield-Smith,

David Smith, Paul Andon, Ronald Hilton, Helen Thorne

Edition: 8th edition.

ISBN: 9781760420406 (paperback)

Notes: Includes index.

Subjects: Managerial accounting—Australia.

Other Authors/Contributors: Smith, David Alan, author. Andon, Paul, author. Hilton, Ronald W., author. Thorne, Helen, 1951-, author.

Published in Australia by

McGraw-Hill Education (Australia) Pty Ltd Level 33, 680 George Street, Sydney NSW 2000

Senior portfolio manager: Lisa Coady Content developer: Alex Payne Senior production editor: Daisy Patiag Permissions editor: Haidi Bernhardt

Copy editor: Paul Leslie Indexer: SPi Global Indexing Cover design: Patricia McCallum

Typeset in STIX MathJax Main-Regular 10.5/14 by SPi Global, India Printed in China on 70 gsm matt art by 1010 Printing International Ltd

Contents in brief

Part 1	INTRODUCTION TO MANAGEMENT ACCOUNTING	2
Chapter 1	Management accounting: information for creating value and managing resources	4
Chapter 2	Management accounting: cost terms and concepts	38
Part 1	COSTS AND COSTING SYSTEMS	75
Chapter 3	Cost behaviour, cost drivers and cost estimation	78
Chapter 4	Product costing systems	132
Chapter 5	Process costing and operation costing	184
Chapter 6	Service costing	234
Chapter 7	A closer look at overhead costs	290
Chapter 8	Activity-based costing	346
Part 1	INFORMATION FOR MANAGING RESOURCES	413
Chapter 9	Budgeting systems	416
Chapter 10	Standard costs for control: direct material and direct labour	476
Chapter 11	Standard costs for control: flexible budgets and manufacturing overhead	522
Chapter 12	Managing and reporting performance	570
Chapter 13	Financial performance measures and incentive schemes	622
Chapter 14	Strategic performance measurement systems	662
Chapter 15	Managing suppliers and customers	702
Chapter 16	Managing costs and quality	758
Part 1	INFORMATION FOR CREATING VALUE	808
Chapter 17	Sustainability and management accounting	810
Chapter 18	Cost volume profit analysis	858
Chapter 19	Information for decisions: relevant costs and benefits	906
Chapter 20	Pricing and product mix decisions	960
Chapter 21	Information for capital expenditure decisions	1008

Contents in full

Preface

About the authors About this edition		Acknowledgments Connect digital resources	xxiv
Part 1 Introduction to man	age	ement accounting	2
Chapter 1 Management accounting: information for	creat	ting value and managing resources	4
Graduate spotlight	3	Costing for decision making	20
Australian organisations in the twenty-first century	5	Some important considerations in the design of	
REALLIFE Increasing competitive pressures		management accounting systems	20
faced by Asian airlines	6	Management accounting responses to the	22
What is management accounting?	7	changing business environment	22
REALLIFE 'Big data' and the changing role of the accountant	9	Learning objectives Summary	4 24
Management accountants within organisations	12	References	24
Management accounting processes and techniques	13	Appendix Key terms	25 28
REALLIFE The accountant in the modern business environment	13	Review questions Exercises Problems	29 30 32
Management accounting and strategy	14	Cases	35
Management accounting for planning and control	18		
Chapter 2 Management accounting: cost terms and	conc	cepts	38
Management accounting information	39	REALLIFE There's plenty of gold, but at what cost?	53
Cost classifications: different classifications for different purposes	42	Cost flows in a manufacturing business	53 38
REALLIFE Insurance: the importance of monitoring and managing costs	44	Learning objectives Summary References	56 57
Costs across the value chain	47	Self-study Key terms	57 60
REALLIFE Classifying costs in Australia's hotel industry	48	Review questions	61
Manufacturing costs	49	Exercises Problems	62 66
Product costs	51	Cases	71
REALLIFE Pizza wars: battling for a slice of fast food 'supreme-acy'	52		

Text at a glance

XX

xiv

Part 2 Costs and costing s	yste	ems	75
Chapter 3			
Cost behaviour, cost drivers and cost esti	imatic	on	78
Graduate spotlight	77	Using cost behaviour patterns to predict costs	96
What are cost behaviour, cost estimation and		Cost estimation	96
cost prediction?	79	Practical issues in cost estimation	104
Cost drivers	80	Learning objectives	78
REALLIFE Health teaching, training and research: studying the cost drivers	84	Summary References	106 107
REALLIFE Managing costs in challenging times	85	Self-study	108
REALLIFE Cost behaviour, cost management and market competitiveness at Qantas	86	Appendix Key terms Review questions	111 115 115
Cost behaviour patterns	87	Exercises	117
REALLIFE Cost behaviour in Australian companies	94	Problems Cases	121 128
REALLIFE The behaviour of labour costs in the current business environment	95	Cuses	120
Chapter 4 Product costing systems			132
Product costing	133	REALLIFE Job costing in the construction industry	
REALLIFE The cost of Australian wine	135	(the Lum Chang Group)	160
REALLIFE Costing defence contracts	136	Process costing: Spritz	160
REALLIFE Product costing in small business	138	Learning objectives Summary	132 163
Flow of costs in manufacturing businesses	138	References	164
Allocating overhead costs to products	140	Self-study Appendix	165 167
REALLIFE Product costs at Coopers Brewery	142	Key terms	168
Types of product costing systems	144	Review questions Exercises	169 170
	147	Problems	173
Job costing: Williams Elevators	147	Cases	179
Chapter 5 Process costing and operation costing			184
Process costing at Spritz	185	REALLIFE Which costing system for Australian wine?	205
REALLIFE From trees to timber	186	Other issues in process costing	208
Process costing with work in process inventories	187	Learning objectives	184
Process costing using the weighted average method	190	Summary References Self-study	209 210 211
Process costing using the FIFO method	193	Appendix	214
Process costing and spoilage	197	Key terms	219
Hybrid costing systems	201	Review questions Exercises	219 220
Operation costing for batch manufacturing processes	202	Problems Cases	225 232

Chapter 6 Service costing			234
What are service organisations?	235	Flow of costs in service firms	261
Cost classifications in service organisations	237	Costing in retail and wholesale businesses	263
REALLIFE The costs of services provided by Australia's hospitals	241	REALLIFE Cost and competitive pressures in the Australian retail sector	265
Estimating service costs	242	Learning objectives	234
REALLIFE Service costing in the NSW public sector	246	Summary References	266 267
Costing services at Adelaide bank	247	Self-study	268
REALLIFE The downside of using billable hours to charge for legal services	255	Key terms Review questions Exercises	271 271 272
When should firms estimate their service costs?	258	Problems	277
REALLIFE The costs and benefits of service costs for a medical practice	261	Cases	284
Chapter 7 A closer look at overhead costs			290
What are overhead costs?	291	Allocating support department costs	310
Allocating indirect costs: some general principles	293	Learning objectives	290
REALLIFE Measuring tsunami recovery costs: an overhead or not?	294	Summary References Self-study	319 320 320
Allocating overhead costs to products	295	Appendix	323
Issues in estimating overhead rates	302	Key terms	329 329
REALLIFE How should the Pacific Islands Forum Fisheries Agency allocate its overheads?	304	Review questions Exercises Problems	330 334
Allocating indirect costs to responsibility centres	307	Cases	342
REALLIFE Overhead costs and price setting at Dalrymple Bay Coal Terminal	309		
Chapter 8 Activity-based costing			346
Problems with conventional product costing systems	348	Activity-based versus traditional product costs at Mason & Cox	361
Product costing at Mason & Cox	350	REALLIFE Healthcare costing challenges	363
Activity-based costing at Mason & Cox	353	Costs versus benefits of ABC at Mason & Cox	363
Initial decisions about ABC at Mason & Cox	354	When should ABC be used?	364
Step one: measuring the costs of the manufacturing overhead activities	355	REALLIFE The adoption of ABC in Australia and New Zealand	364
Step two: assigning the costs of manufacturing over activities to products	head 357	REALLIFE ABC in the New Zealand blood service	366
REALLIFE Activity-based costing in the NSW		Other activity-based costing issues	366
public sector	360	Activity-based costing in service organisations	368

REALLIFE Counting the cost of childhood		Appendix	375
immunisation	369	Key terms Review questions	384 384
Learning objectives	346	Exercises	385
Summary References	370 371	Problems	391
Self-study	372	Cases	402
Part 3 Information for mar	nagii	ng resources	413
Chapter 9 Budgeting systems			416
Graduate spotlight	415	REALLIFE Budgeting practices in Australia	438
Strategic planning and budgeting systems	417	Zero-base budgeting	441
Purposes of budgeting	418	Program budgeting	441
Responsibility accounting	418	REALLIFE The benefits of program budgeting	442
REALLIFE 'Beyond budgeting' and other		Learning objectives	416
budget adaptations	419	Summary References	442 443
The annual budget: a planning tool	420	Self-study	444
REALLIFE Budgeting at the Australian Ballet School	425	Appendix	447
Budgeting at AVJennings Ltd	426	Key terms	451 451
REALLIFE Budgeting for major events:		Review questions Exercises	451
the Olympic Games	427	Problems	457
Budget administration	436	Cases	470
Behavioural consequences of budgeting	437		
Chapter 10 Standard costs for control: direct materia	l and	direct labour	476
Controlling costs	477	Standard costs for product costing	497
Setting standards	478	Learning objectives	476
Developing standards at R.M. Williams	481	Summary	500
Calculating standard cost variances	484	References Self-study	500 501
REALLIFE Cost pressures and variance analysis		Appendix	504
in hospitals	489	Key terms Review questions	506 506
Investigating significant variances and taking corrective actions	490	Exercises Problems	507 510
Cost control through assigning responsibility	494	Cases	519
Standard costing and behaviour	496		
Chapter 11			
Standard costs for control: flexible budge	ets an	d manufacturing overhead	522
Flexible budgets	523	Overhead cost performance report	536
Flexible overhead budget: R.M. Williams	527	Standard costs for product costing	537
Overhead application in a standard costing system	528	Flexible budgets in service organisations	538
Calculating overhead cost variances	529	An appraisal of standard costing systems	539

REALLIFE Adapting standard costing systems for modern times	542	Appendix Key terms	549 551
Activity-based budgeting	542	Review questions	551
Learning objectives Summary References Self-study	522 546 547 547	Exercises Problems Cases	552 555 564
Chapter 12 Managing and reporting performance			570
Purposes of performance measurement	571	Transfer pricing	586
Characteristics of effective performance measurement systems	571	REALLIFE The dark side of transfer pricing in multinationals	595
REALLIFE Principles for reporting performance outcomes	573	Learning objectives Summary	570 596
Structuring for control: decentralisation	573	References Self-study	597 598
Responsibility centres	575	Key terms	601
More complex structures	577	Review questions Exercises	602 603
REALLIFE Shared services to enhance customer value and manage costs	579	Problems Cases	606 615
Financial performance reporting	580		
Chapter 13 Financial performance measures and inc	centive 623	e schemes REALLIFE Employee share ownership is more than an	622
Return on investment	624	incentive compensation scheme	642
Residual income	628	Learning objectives Summary	622 643
Measuring profit and invested capital	629	References	644
Measures of shareholder value	633	Self-study	645 647
	636	Key terms Review questions	648
Incentive schemes	030	Exercises	649
REALLIFE Senior executive pay in Australia	640	Problems Cases	651 658
Chapter 14 Strategic performance measurement sys	stems		662
The problems with using traditional financial perform	nance	The balanced scorecard	669
measures in isolation	663	REALLIFE Managing performance at IAG	672
The advantages of non-financial measures	665	REALLIFE Measuring impact in charitable organisations	673
Selecting operational measures	665	Strategy maps	673
The limitations of non-financial performance measures	669	REALLIFE Customising the balanced scorecard	675

Developing a balanced scorecard for the Cooktown Bus Company	676	Summary References	686 686
How successful are balanced scorecards?	679	Self-study Key terms	687 689
Does non-financial performance lead to financial performance?	680	Review questions Exercises	690 690
Benchmarking	683	Problems Cases	693 699
Learning objectives	662		
Chapter 15 Managing suppliers and customers			702
Supply chain management	703	Learning objectives	702
REALLIFE Driving supply chain improvements at Coles	705	Summary References	732 733
Managing suppliers	706	Self-study Appendix	734 738
Managing inventory	710	Key terms	740
REALLIFE Is JIT too risky?	719	Review questions Exercises	741 742
Managing customers	720	Problems	745
REALLIFE Reliance on major customers	721	Cases	753
REALLIFE Managing customers with social media	723		
Managing time	728		
Chapter 16 Managing costs and quality			758
Cost management	759	Managing quality	778
Activity-based management	760	REALLIFE Managing costs, throughput and quality for	
REALLIFE Lean thinking at the city of Melbourne	765	customer value: Flinders Medical Centre Learning objectives	779 758
Business process re-engineering	768	Summary References	785 786
Life cycle costing	769	Self-study	786
REALLIFE Cost management in the Australian wine industry	770	Key terms Review questions Exercises	788 789
Target costing	772	Exercises Problems	790 794
REALLIFE Target costing in Australia and New Zealand	773	Cases	803
Managing throughput	776		

Part 4 Information for crea	ating	value	808
Chapter 17 Sustainability and management account	ting		810
Graduate spotlight	809	Sustainability and supply chain management	828
Corporate sustainability	811	REALLIFE A life cycle analysis of carbon emissions	829
REALLIFE Corporate responsibility reporting		REALLIFE Environmental costing at GH Michell & Sor	ns 831
around the globe	813	REALLIFE A sustainability scorecard at Westpac	833
REALLIFE Adoption of integrated reporting	816	Strategic performance measurement	
Sustainability and stakeholders	816	systems and sustainability	835
REALLIFE Measuring sustainability performance at Arrium	817	Sustainability and capital expenditure analysis Learning objectives	837 810
Sustainability and management accounting	818	Summary	841
Recognising and measuring economic, environmental and social impacts	819	References Self-study Key terms	842 843 846
REALLIFE The valuation of environmental impact—Puma and beyond	822	Review questions Exercises	847 848
Environmental management accounting	823	Problems	851
Environmental costs	824	Cases	854
Chapter 18 Cost volume profit analysis			858
CVP analysis at the Melbourne Theatre Company	859	Practical issues in CVP analysis	877
The break-even point	861	An activity-based approach to CVP analysis	878
The break-even formula	861	REALLIFE Making the most of our coffee culture	879
REALLIFE The importance of the break-even point at Linneys	862	Financial planning models Learning objectives	882 858
Graphing cost volume profit relationships	864	Summary	884
REALLIFE A sundae too far away	865	References Self-study	885 886
Target net profit	868	Appendix	888
Using CVP analysis for management decision making	868	Key terms Review questions	891 892
CVP analysis with multiple products	873	Exercises Problems	893 895
Including income taxes in CVP analysis	875	Cases	901
REALLIFE Salmon—a fishy success story	876		
Chapter 19 Information for decisions: relevant costs	and be	enefits	906
The management accountant's role		Identifying relevant costs and benefits	913
in decision making	907	Relevant information for some common decisions	917
REALLIFE What role do accountants play	909	REALLIFE Pros and cons of outsourcing	925
in decision making? Relevant information	909	REALLIFE Sustainable solutions for by-products	932

Implications of activity-based cost analysis for decisions	932	References Self-study	937 937
Incentives for decision makers	934	Appendix	940
Pitfalls to avoid when using accounting data for decisions	935	Key terms Review questions Exercises	944 944 945
Learning objectives Summary	906 936	Problems Cases	947 956
Chapter 20 Pricing and product mix decisions			960
Major influences on pricing decisions	961	REALLIFE The penalties for price fixing	979
REALLIFE Battling for Australia's skies	964	Product mix decisions	980
Economic profit-maximising models	964	Learning objectives	960
Pricing strategies	967	Summary References	983 984
REALLIFE Ticket pricing in the Australian Football League	968	Self-study Appendix	985 988
Strategic pricing of new products	975	Key terms Review questions	991 991
Competitive bidding	976	Exercises	992
Legal restrictions on setting prices	978	Problems Cases	995 1003
REALLIFE Proving predatory pricing: a challenge for the ACCC	979	Cuses	1003
Chapter 21 Information for capital expenditure dec	isions		1008
Capital expenditure decisions	1009	Post-completion audits of capital	
Cash flows	1009	expenditure decisions	1040
The capital expenditure approval process	1010	Justification of investments in advanced technologies	1041
Capital expenditure decisions at the Meadowleigh Medical Centre	1011	REALLIFE What drives investments in technology?	1042
Discounted cash flow analysis	1014	The limitations of traditional capital expenditure analysis	1043
Comparing two alternative investment projects	1020	Learning objectives	1008
REALLIFE Fleet renewal decisions at Qantas: the A380 and B787	1022	Summary References	1045 1046
Accounting for uncertainty using real-options analysis	1024	Self-study Appendix Key terms	1047 1050 1053
Other techniques for analysing capital expenditure proposals	1025	Review questions Exercises	1053 1055
Performance evaluation: a behavioural issue	1029	Problems Cases	1058 1063
Income taxes and capital expenditure analysis	1030	Cuses	1003
Glossary	1066	Index	1081

Preface

Management accounting is a dynamic, constantly changing area. It must remain relevant to organisational needs in today's business world of global markets, irrepressible innovation and digital disruption. To understand the nature of management accounting practice, it is important to understand broader aspects of business practice across a range of areas, including strategy, marketing, human resource management, operations management and organisational behaviour. Management accounting both draws on and contributes to these areas.

Our approach in presenting this subject to students and managers is to focus on cutting-edge management accounting as practised by leading organisations in Australia and overseas, while at the same time acknowledging that some firms are satisfied with more traditional approaches. A key way in which we do this is through the inclusion of 'Real life' examples, where we provide practical illustrations of how organisations employ the techniques described in the text. Many of the 'Real life' sections included in the eighth edition are new and reflect the latest in business practice.

Since the first edition of this book appeared in the early 1990s, there have been dramatic changes in thinking about the role of management accounting in organisations. Once it was sufficient to describe management accounting as being concerned with providing information for planning and control, and for decision making. However, the role of management accounting is now more complex. It is now concerned with the processes and technologies that enable the effective use of organisational resources to support managers in enhancing customer and shareholder value. Supply chain management approaches provide a framework for integrating contemporary cost management and performance measurement. The issue of sustainability is now increasingly important as businesses seek to understand and manage any adverse impact they have on the environment and society.

The processes and technologies of management accounting that enhance shareholder and customer value are evolving over time and require an intimate knowledge of the nature of the business, its markets, its strategy and its people. Someone working in the management accounting area in 2018 needs to not only understand the internal characteristics of a business, but also have a detailed knowledge of competitors, customers and suppliers. Over the decades the practice of management accounting has developed to become more integrated with the process of management, and less a part of the practice of accounting, with management accountants playing a significant role as part of the management team. As such, management accountants have the ability to significantly shape an organisation's strategic direction.

The book has been written primarily as a text for one- or two-semester undergraduate management accounting courses. The references at the end of each chapter provide guidance on additional readings. With its description of current practice and strong emphasis on the new developments in management and management accounting, this book also provides a sound foundation for a management accounting unit within an MBA course.

While the origins of this text can be traced to the US text, *Managerial Accounting*, by Ronald Hilton, it has always differed from its US counterpart. The Australian book takes a broad perspective in viewing management accounting as the efficient and effective use of resources, supporting managers in the improvement of customer and shareholder value. The rapidly changing business environment is seen as having implications for the development of new approaches to management accounting, as highlighted through the many 'Real life' cases presented in the book, which focus on current management accounting practices and issues faced by organisations in Australia, New Zealand and the wider Asia—Pacific region.

We sincerely welcome any comments or suggestions from the lecturers and students who use this text.

Kim Langfield-Smith
David Smith
Paul Andon
Helen Thorne

About the authors

Kim Langfield-Smith



Kim has a BEc from the University of Sydney, an MEc from Macquarie University and a PhD from Monash University. She is a fellow of both CPA Australia and Chartered Accountants Australia and New Zealand (CA ANZ), and a graduate of the Australian Institute of Company Directors. She is a principal at the Nous Group, a leading management consulting company, and an emeritus professor at Monash University. Her most recent university appointment was as Vice-Provost at Monash University where she is also Professor of Management Accounting. Her prior appointments were at La Trobe University, the Universities of Melbourne and Tasmania, and the University of Technology, Sydney. Before her academic career, Kim worked as an accountant in several commercial organisations.

Her research interests are in the area of management control systems, and her research has been published in many journals, including Accounting, Organizations and Society; Journal of Management Accounting Research; Management Accounting Research; Behavioral Research in Accounting; Journal of Accounting Literature; and Journal of Management Studies.

Kim has played an active role in the accounting profession. She was chair of the Professional Qualifications Advisory Committee of CPA Australia, and a former member of the International Accounting Education Standards Board (IAESB), representing the CA ANZ and CPA Australia.

David Smith



David has a BCom (Honours) from La Trobe University and a PhD from Monash University. He is a Professor of Management Accounting in the University of Queensland Business School. He previously held appointments at Monash University, the University of Melbourne and La Trobe University.

David's research is in the area of management control systems, with a particular focus on performance measurement, and his research has been published in journals including Accounting, Organizations and Society; Management Accounting Research; Behavioral Research in Accounting; Journal of Accounting Literature; and Accounting, Auditing and Accountability Journal. He currently serves as an editor at Behavioral Research in Accounting, as well as serving

on several editorial boards.

David has been actively involved in the accounting profession and served as a board member of the Accounting and Finance Association of Australia and New Zealand (AFAANZ) for a number of years. David is also a past Chair of the Chartered Institute of Management Accountants' (CIMA) Centre of Excellence Australasia Research Panel.

Paul Andon



Paul has a BCom (Honours), MCom (Honours) and PhD from UNSW Sydney. He is an Associate Professor in Accounting at UNSW Sydney and a Fellow of Chartered Accountants Australia and New Zealand. Paul teaches and researches in the areas of management accounting, fraud and control systems. His research in these areas has been published in leading international journals, including Accounting, Organizations and Society; Journal of Management Studies; Management Accounting Research; Accounting, Auditing and Accountability Journal; and Critical Perspectives on Accounting. Recently, Paul received a major Australian Government research grant to study offender strategies and other factors mitigating against the effectiveness of management controls to prevent/detect serious workplace fraud.

Before commencing his academic career, Paul worked in a large professional services firm. He remains active in the accounting profession through his involvement with McGrathNicol's Financial Crime Exchange, and by contributing to the Management Accounting and Applied Finance Module for Chartered Accountants Australia and New Zealand's CA Program.

Helen Thorne



Helen has a BEc and DipAcc from Flinders University, and a PhD from the University of Adelaide. She was Professor and Head of the International Graduate School of Business at the University of South Australia. Helen has also held appointments in the Graduate School of Management and the Commerce Department at the University of Adelaide.

Her research focused on contemporary approaches to management accounting, including activity-based costing and strategic performance measurement systems, and she has published in journals, including *Journal of Accounting Literature; Journal of Cost Management; Advances in Management Accounting;* and *Australian Accounting Review*.

Before commencing her academic career, Helen worked as a management accountant with a major international company. Since then she has maintained her interests in the 'real world'. She is a member of CPA Australia and has undertaken consulting work in management accounting for a number of organisations in the manufacturing and service industries.

About this edition

In response to requests from adopters, each chapter contains a number of changes. On average, more than 40 per cent of the end-of-chapter learning activities (review questions, exercises, problems and cases) are either completely new or include new data. Major changes to each chapter, including changes to the end-of-chapter material, are described in the table below.

NEW TO THIS EDITION POINTS OF INTEREST Chapter 1 Management accounting: information for creating value and managing resources Revisions were made to modernise and condense some of the Management accounting is presented as chapter materials. supporting managers in their role of enhancing • One new 'Real life' example, covering competitive pressures in customer and shareholder value through the the airline industry, has been added. efficient and effective use of organisational • Thirteen of the 41 end-of-chapter questions are new or include resources. The link between strategy and new data. management accounting lays a foundation for the strategic focus that permeates this book. Chapter 2 Management accounting: cost terms and concepts Some small changes were made to condense the chapter This chapter introduces students to the terminology of management accounting before materials. · One new 'Real life' example, on the importance of covering concepts in more detail later in the book. understanding costs, has been added. • Eighteen of the 42 end-of-chapter questions are new or include new data. Chapter 3 Cost behaviour, cost drivers and cost estimation • One new 'Real life' example, on cost drivers, has been added. This chapter maintains the current approach to Fourteen of the 43 end-of-chapter questions are new or explaining cost behaviour, cost drivers and cost include new data. Several questions allow students to respond estimation. by constructing an Excel® spreadsheet. Chapter 4 Product costing systems One 'Real life' example has been updated. Chapter 4 explains traditional approaches to Seventeen of the 44 end-of-chapter questions are new or product costing, focusing primarily on job costing include new data. systems. Chapter 5 Process costing and operation costing This classic chapter on alternative approaches to traditional Chapter 5 focuses on the traditional product costing approaches did not require any updates to the content costing approaches of process costing and for this edition. operation costing. · Six of the 46 end-of-chapter questions are new or include new data. Chapter 6 Service costing • Updates were made to one of the 'Real life' examples. This chapter presents traditional and activity-based

Seventeen of the 45 end-of-chapter questions are new or

include new data.

approaches to the costing of services, in a range

of different service contexts.

Chapter 7 A closer look at overhead costs

- Updates were made to one of the 'Real life' examples.
- Ten of the 46 end-of-chapter questions are new or include new data.

Chapter 7 helps students develop a deeper understanding of the processes for allocating overhead costs to products. It includes an introduction to activity-based approaches to estimating overhead costs.

Chapter 7 A closer look at overhead costs

- Updates were made to three of the 'Real life' examples.
- Twelve of the 49 end-of-chapter questions are new or include new data.

This chapter describes common problems with traditional product costing systems and outlines the steps used in activity-based costing.

Chapter 7 A cleser look at everhead costs

- One new 'Real life' example on program budgeting has been added.
- Sixteen of the 42 end-of-chapter questions are new or include new data.

This chapter presents a step-by-step guide to the budgeting process and describes some of the behavioural issues associated with budgeting.

Chapter 10 Standard costs for control: direct material and direct labour

 Eighteen of the 46 end-of-chapter questions are new or include new data. Chapter 10 describes traditional approaches to estimating and controlling product costs through standard costing, focusing on the material and labour components.

Chapter 11 Standard costs for control: flexible budgets and manufacturing overhead

 Sixteen of the 46 end-of-chapter questions are new or include new data. This chapter explains flexible budgets and standard costing for overhead. It also outlines the criticisms and advantages of standard costing.

Chapter 7 A closer look at everhead costs

- One new 'Real life' example, on transfer pricing issues, has been added.
- Thirteen of the 45 end-of-chapter questions are new or include new data.

Modern and traditional approaches to measuring financial performance are integrated with responsibility accounting performance reports. Includes real-time reporting, the impact of shared services and team-based structures. Transfer pricing scenarios clearly illustrate issues of goal congruence and incentives.

Chapter 13 Financial performance measures and incentive schemes

- Two exhibits were added to help explain the theories of motivation outlined in the chapter.
- The 'Real life' examples on senior executive pay and employee share ownership were significantly revised.
- Thirteen of the 42 end-of-chapter questions are new or include new data.

This chapter presents internal financial reports and traditional financial measures, and an expanded section on value-based management. Up-to-date material on incentive systems is also included.

Chapter 14 Strategic performance measurement systems

- The 'Real life' example of managing performance at IAG was significantly revised.
- Fourteen of the 44 end-of-chapter questions are new or include new data.

This chapter focuses on the design of strategic performance measurement systems—financial and non-financial performance measures, the balanced scorecard and benchmarking.

Chapter 7 A closer look at overhead costs

- The material has been updated throughout the chapter.
- One new 'Real life' example has been added, focusing on the reliance of suppliers on major customers such as Apple.
- Seventeen of the 47 end-of-chapter questions are new or include new data.

Supply chain management is covered, with a focus on managing suppliers, inventory, customers and time. Activity-based approaches to the analysis of supplier and customer costs and performance indicators are outlined.

Chapter 7 A close: look at everhead costs

- New material on kaizen costing has been added.
- One new 'Real life' example, discussing the adoption of target costing in Australia and New Zealand, has been added.
- Sixteen of the 50 end-of-chapter questions are new or include new data.

Cost management techniques include activitybased management, business process re-engineering, life cycle costing, target costing and managing throughput. Quality concepts and cost of quality reporting are explained.

Chapter 14 Strategic perfermance measurement systems

- The chapter has been updated to reflect changes in the GRI Standards.
- The corporate responsibility 'Real life' example has been updated. A new 'Real life', on the adoption of integrated reporting, has been added.
- Thirteen of the 41 end-of-chapter questions are new or include new data.

Chapter 17 explains sustainability reporting and the implications for management accounting systems and techniques, including cost analysis and management, performance measurement systems, and capital expenditure analysis.

Chapter 7 A closer look at everhead costs

- The 'Real life' on 'Linneys' has been updated.
- Twenty-three of the 46 end-of-chapter questions are new or include new data.

Cost volume profit analysis is presented as a tool to model the profit impact of changes in selling prices, costs and product mix, using formula-based and graphical approaches. Methods for incorporating activity-based concepts are also included.

Chapter 14 Strategic performance measurement systems

- One new 'Real life' example, on the pros and cons of outsourcing, has been added.
- Nineteen of the 46 end-of-chapter questions are new or include new data.

This chapter demonstrates how management accounting information can be used for a variety of tactical decisions: accept or reject a special order; add or delete a product, service or department; and sell a joint product or process it further.

Chapter 14 Strategic performance measurement systems

- One new 'Real life' example, on ticket pricing in the Australian Football League, has been included.
- Fourteen of the 44 end-of-chapter questions are new or include new data.

This chapter includes factors that influence pricing strategies, models of cost-based pricing, and the legal restrictions on pricing behaviours. Techniques for considering product mix decisions are also covered.

Chapter 14 Strategic performance measurement systems

 Nineteen of the 47 end-of-chapter questions are new or include new data. This chapter presents techniques for analysing data for long-term investment decisions. The limitations of using traditional techniques to justify investments in advanced technologies are covered.

Text at a glance

'Real life' features

Theory is one thing—but what happens in reality? These short case studies provide examples of management and management accounting in action, largely within Australian and New Zealand organisations.



Chapter introduction

The chapter introduction is an overview of the material to be covered, including links to relevant topics in previous chapters.

3 Introduction

Managers in almost any organisation need to know how costs will be affected by changes in the organisation's activities. You will recall from Chapter 2 that understanding cost behaviour involves examining the relationship between a cost and the level of activity. Managers need to know what activities drive or cause the major costs within their business.

Knowledge about cost behaviours can help managers to manage resources more effectively. To plan operations and prepare budgets, managers at Jacob's Creek winery use their knowledge of cost behaviour and predictions about future activity levels. To control the costs of providing services to the community, local councils need to know the costs they would incur at various levels of activity, so that they can then compare actual costs to these planned costs. In addition, the councils can actively manage and reduce costs by managing the major

Information about cost behaviour can also help managers as they decide how to enhance customer value

Key terms/margin definitions

Key terms are bolded in the text where they first appear, defined in the margin and listed at the end of the chapter. Use the end-of-chapter Key terms checklist to test yourself when you finish the chapter. The definitions are also repeated in a full glossary at the end of the book.



Exhibits

These visual overviews of concepts, flow charts, handy checklists, examples of documents and worked examples add another dimension to the topics covered and help to reinforce learning.



Chapter summary

The chapter summary is presented in dot point form for easy reading and revision.

Summary

- Cost behaviour refers to the relationship between a cost and the level of activity or cost driver. Cost estimation is the process of determining the cost behaviour of a particular cost item, and cost prediction uses a knowledge of a cost's behaviour to forecast the level of cost at a particular level of activity.
- factor that causes a cost to be incurred. Traditional management accounting systems use various measures of production volume as cost drivers to analyse cost behaviour. These cost drivers are called volume-based ost drivers. More recent approaches recognise that
- Activity-based costing is a contemporary approach to costing that recognises a hierarchy of costs and cost drivers: unit, batch, product and facility levels. While unit level cost drivers measure production volume, the cost drivers for batch and product level costs are non-volume-based. There are no obvious cost drivers for facility level costs

References

The end-of-chapter references list material quoted in the chapter and provide opportunities to undertake additional in-depth research on specific topics.

REFERENCES

Ansberry, C 2002, 'In the new workplace, jobs morph to suit rapid change of pace', *The Wall Street Journal*, March 3, pp. A1, A7.

Australian Custom Harvesters Inc. 2015, 'Costs calculator', Australian Custom Harvesters Inc. 2015, 'Costs calculator,'
www.customharvesters.org.au/harvest-rates/cost-calculator,
viewed 18 April 2017.

Data Analysis, 7th edn, Pearson, Georgia, USA
Poxton Partners 2014, 'Define teaching, training and
research and identity associated cost drivers for ABF

Berenson, ML, Levine, DM & Krehbiel, TC 2009, Basic Business Statistics: Concepts and Applications, 11th edn, Prentice Hall, Upper Saddle River, NJ.

poor", news.com.au, 26 March, www.news.com.au/ business/short-work-week-creating-working-poor/story-effrim1+122846035715#ixz20w5r2XXB, viewed 13 August 2010. 4 August 2014. Qantas 2014.

Chung, F 2016, 'Qantas posts record \$1.53 billion full-year profit, news.com.au, 24 August, www.news.com.au/finance/ business/travel/qantas-just-had-its-best-year-ever/news-story/f19ad5ddc1320591487eec0a5ffab7ab, viewed 14

crunch-time-for-businesses-productivity-cost-reductions/ viewed 27 May 2013. Hair, JF, Black, WC, Babin, B, Anderson, RE, 2010, *Multivariate*

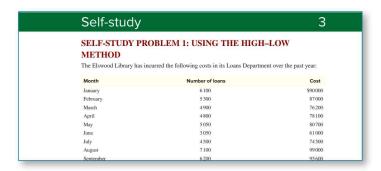
purposes: Final project report', www.ihpa.gov.au/sites/g/ files/net636/t/publications/ttr-final-report.pdf, viewed 17 March 2017.

Blackwell, E 2010, 'Short work-week 'creating working poor'", news.com.au, 26 March, www.news.com.au/ 11 May, www.itbdigital.com/opinion/2012/05/1

Qantas 2016, Qantas Annual Report 2016, ww infodetail/about/corporateGo pdf, viewed 14 March 2017.

Self-study problems and solutions

These problems provide the perfect opportunity to better understand and revise key topics and techniques covered in the chapter.



Revised end-of-chapter material

Every chapter contains a significant amount of new and updated end-of-chapter material.

Review questions

Short-answer questions test your knowledge of key words, terms and concepts presented in the chapter.



Problems

Longer, more in-depth problems allow you to apply quantitative techniques as well as theoretical concepts to organisational situations.





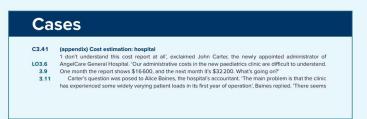
Exercises

These exercises provide an opportunity to apply some of the techniques and concepts relating to the chapter.



Cases

Cases provide more comprehensive scenarios that require you to demonstrate your skills in applying both quantitative techniques and theoretical issues. The cases provide opportunities for higher-level analysis and may require you to integrate material from more than one chapter.



Appendixes

To help you extend and build your knowledge, end-ofchapter appendixes provide in-depth information on specific topics.

Acknowledgments

We would like to thank a number of people who have helped us with the development of this textbook, including the hundreds of management accounting students we have taught over many years and the numerous managers and management accountants with whom we have interacted. Their enthusiasm, comments, questions and experience have assisted our understanding and appreciation of management accounting. We also thank our academic colleagues from around Australia and New Zealand who have provided feedback or reviewed parts of the manuscript. They include the following:

Eighth edition

(including their affiliation at that time)
Davood Askarany, The University of Auckland
Omar Bashar, Swinburne University of Technology
Sue Conway, University of Tasmania
Kate Hogarth, Queensland University of Technology
Zubaidah Ismail, Edith Cowan University
Kenneth Ke, Curtin University
Michele Leong, University of Western Australia
Sumit Lodhia, University of South Australia

Previous editions

(including their affiliation at that time) Rafiuddin Ahmed, James Cook University Zahir Ahmed, Auckland University of Technology Ranjith Appuhami, Macquarie University Robyn Alcock, Central Queensland University Vimala Amirthalingam, Curtin University Vicki Baard, Macquarie University Kevin Baird, Macquarie University Pamela Baker, Macquarie University David Bedford, University of Technology, Sydney Dawn Cable, Macquarie University Mandy Cheng, University of New South Wales Andrew Chew, University of Technology, Sydney Bruce Clayton, Deakin University Michael Clemens, RMIT University Henry Collier, University of Wollongong Glenda Davis, University of Western Sydney Steven Dellaportas, RMIT University Colin Dolley, Edith Cowan University John Donald, Deakin University Lyndal Drennan, Queensland University of Technology John Dumay, University of Sydney Chris Durden, James Cook University Evangeline Elijido-Ten, Swinburne University of Technology David Emsley, Macquarie University

Hai Wei Fan, University of Canberra

Aldonio Ferreira, Monash University

Carolyn Fowler, Victoria University of Wellington

Peter Foreman, Deakin University

Suzanne Maloney, University of Southern Queensland Jayce Naidoo, Victoria University
Nirmala Nath, Massey University
Gary Oliver, University of Sydney
Erin Poulton, University of Newcastle
Pranil Prasad, The University of the South Pacific
Annette Quayle, Queensland University of Technology
Natasja Steenkamp, Central Queensland University
Thiru Thiagarajah, La Trobe University
Michael Tse, Deakin University
Yuan Yuan Hu, Massey University

Geoff Frost, University of Sydney Lynn Gallagher, Queensland University of Technology Peter Graham, University of Canberra Vicki Golsby, Flinders University Bruce Gurd, University of South Australia Eva Heidhues, Macquarie University Yuan Yuan Hu, Massey University David Huelsbeck, The University of Melbourne Zubaidah Ismail. Edith Cowan University Kerry Jacobs, La Trobe University Stephen Jones, Open Polytechnic Kenneth Ke, Curtin University Louise Kloot, Swinburne University of Technology Dawn Lamminmaki, Griffith University Michele Leong, University of Western Australia Phil Lignier, Central Queensland University Sumit Lodhia, University of South Australia Noel Loganathan, Northern Territory University Tony McMurtrie, The University of Adelaide Suzanne Maloney, University of Southern Queensland Kathy Michael, Victoria University Bernie Mills, The University of Adelaide Graeme Mitchell, University of Western Sydney Jodie Moll, The University of Manchester, Manchester **Business School** Reza Monem, The University of Queensland David Moore, University of Tasmania

Shane Moriarity, The University of Auckland

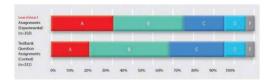
Carly Moulang, Monash University

Nihal Mudalige, Monash University

Greg van Mourik, Monash University

Rahat Munir, Macquarie University Jayce Naidoo, Victoria University Nirmala Nath, Massey University John Niven, ADFA Gweneth Norris, Deakin University Robert Nyamori, Massey University Majella Percy, Queensland University of Technology Ron Peterson, The University of the South Pacific Graham Purchas, University of Canterbury Jean Raar, Swinburne University of Technology Jim Richards, Murdoch University Sue Robertson, RMIT University Graeme Russell, Deakin University Suzanne Salmon, La Trobe University John Sands, Griffith University Axel Schulz, The University of Melbourne

Yvonne Shanahan, University of Canterbury Sharelle Simmons, The University of Queensland Ciorstan Smark, University of Western Sydney David Smith, The University of Melbourne Vg Sridharan, Deakin University Natasja Steenkamp, Central Queensland University Nava Subramaniam, Griffith University Nicole Sutton, University of Technology, Sydney Mohammad Iqbal Tahir, Griffith University Carol Tilt, Flinders University Ted Watts, University of Wollongong Kim Watty, RMIT University Robert Williams, University of Wollongong Maria Xydias-Lobo, Flinders University Prem Yapa, RMIT University Mary Zajkowski, The Open Polytechnic of New Zealand LearnSmart Advantage is a series of adaptive learning products fuelled by LearnSmart—the most widely used and adaptive learning resource proven to strengthen memory recall, increase retention and boost grades.



Adaptive learning

No two students are the same, so why should their learning experience be? Adaptive technology uses continual assessment and artificial intelligence to personalise the learning experience for each individual student. As the global leader in adaptive and personalised learning technologies, McGraw-Hill Education is pioneering ways to improve results and retention across all disciplines.

SmartBook

Fuelled by LearnSmart, SmartBook is the first and only adaptive reading experience available today. Starting with an initial preview of each chapter and key learning objectives, students read material and are guided to the topics they most need to practise at that time, based on their responses to a continuously adapting diagnostic. To ensure concept mastery and retention, reading and practice continue until SmartBook directs students to *recharge* and review important material they are most likely to forget.





LearnSmart

LearnSmart maximises learning productivity and efficiency by identifying the most important learning objectives for each student to master at a given point in time. It knows when students are likely to forget specific information and revisits that content to advance knowledge from their short-term to long-term memory. LearnSmart is proven to improve academic performance, ensuring higher retention rates and better grades.

To find out more about SmartBook visit www.mheducation.com.au/student-smartbook



Learn without Limits

McGraw-Hill Connect® is the only learning platform that continually adapts to you, delivering precisely what you need, when you need it.



Proven effective

With Connect, you can complete your coursework anytime, anywhere. Millions of students have used Connect and the results are in: research shows that studying with McGraw-Hill Connect will increase the likelihood that you'll pass your course *and* get a better grade.

Connect support

Connect includes animated tutorials, videos and additional embedded hints within specific questions to help you succeed. The Connect Success Academy for Students is where you'll find tutorials on getting started, your study resources and completing assignments in Connect. Everything you need to know about Connect is here!





Visual progress

Connect provides you with reports to help you identify what you should study and when your next assignment is due, and tracks your performance. Connect's Overall Performance report allows you to see all of your assignment attempts, your score on each attempt, the date you started and submitted the assignment, and the date the assignment was scored.

To learn more about McGraw-Hill Connect®, visit

www.mheducation.com.au/student-connect

Part 1 Introduction to management accounting

CHAPTER 1 Management accounting: information for creating value and managing resources

CHAPTER 2 Management accounting: cost terms and concepts

The first part of this book introduces management accounting, its purpose and basic concepts.

In Chapter 1, management accounting is defined as processes and techniques that are focused on the effective and efficient use of organisational resources to support managers in their task of enhancing both customer value and shareholder value. We outline the recent changes in the business environment that have influenced the development of management practices and management accounting systems, and management accounting is distinguished from financial accounting.

The processes and techniques of management accounting that are used to enhance value include systems to support the formulation and implementation of strategy; process improvement and cost management techniques to help develop and manage a firm's competitive advantage; planning and control systems to help managers manage resources; and estimates of the cost of products (goods or services) to support strategic and operational decisions.

In this first chapter we also consider factors that influence the design of a management accounting system, including an awareness of the behavioural implications of management accounting information, and the costs and benefits of designing, producing and using management accounting information. We also recognise that the design of management accounting systems can be influenced by a wide range of factors such as the organisation's competitive environment, strategies, size, and organisational culture, as well as by institutional forces that encourage the adoption of management accounting practices that are used by other organisations.

Chapter 2 introduces some of the basic concepts and terminology used in management accounting. Management accounting systems often include costing, budgeting and performance measurement systems. Modern management accounting systems may also include cost management systems, which focus on the identification and elimination of wasteful activities.

Much of this chapter focuses on the different ways in which costs can be classified and reported to managers. These classifications include variable and fixed costs, direct and indirect costs, and controllable and uncontrollable costs. We use the concept of the value chain to explore the various cost classifications, paying particular attention to the classification of manufacturing costs as direct material, direct labour and manufacturing overhead costs. The key message in this chapter is that costs can be classified in different ways to meet the different information needs of managers.

GRADUATE SPOTLIGHT



NAME: LUKE TREGURTHA

Degree studied: Master of Financial Analysis

University: The University of New South Wales

Current position: Business Development Manager and

Small Business Owner

Employer: McPherson's Consumer Products (ASX:MCP)

and Marina Diving

What interested you about working in management accounting?

Being able to produce strong outcomes for a company. My view of management accounting is that this is done either through actionable reporting or via recommendations, based on the analysis of the business' activities.

What did you learn in your degree that has been most useful in your career?

The combination of skills (margin analysis, ABC modelling, etc.) that helps to forecast the outcome of decisions regarding company strategy and investment opportunities. When exploring whether opening up Marina Diving's services to opportunities at a new marina would be profitable, it was crucial to be able to quantify the expected resources required to establish a presence, the break-even level of sales and the expected impact on cash flow.

What have you been up to since graduation?

I was hired as the Business Development Manager for McPherson's, a FMCG company. I am working on brand acquisitions and strategic partnerships with opportunities ranging from manuka honey to organic natural skincare. I have an equity partner in Marina Diving who is in charge of the day-to-day operations of the company. As such, I have time to focus on new opportunities, building client relationships and making sure that the business is resourced well for growth.

What do you enjoy most about your job?

At McPherson's, I enjoy the exposure to so many exciting opportunities and being able to run the analysis as to whether they will fit our business model and produce solid results. At Marina Diving, I am currently looking at ways to leverage the success we had from our first year of operation, which is an exciting time for a new business.

What advice would you give students who want to work in management accounting?

When you are learning the content, always think about how this could relate to an industry you are interested in, a business you have involvement with, or a project you are thinking about starting or are already working on.

What are your thoughts on the future of the management accounting industry?

Given the rapid development of business intelligence systems that can produce incredible amounts of data and analysis in short periods of time, being able to ask the right questions will become increasingly important, rather than being able to gather the data and produce the analysis.

Chapter 1 Management accounting: information for creating value and managing resources



Learning objectives

- 1.1 Describe changes that have taken place in the business environment in recent years.
- **1.2** Define *management accounting* in terms of value creation.
- **1.3** Describe the major differences between management accounting and financial accounting information.
- **1.4** Explain where management accountants are located in organisations.
- **1.5** Describe the major processes that management accounting systems use to create value and manage resources.
- 1.6 Explain the basic concepts of strategy and how management accounting systems can support strategies.
- 1.7 Explain how planning and control mechanisms can be used to support resource management.
- **1.8** Explain how costing systems can provide information to support a range of operational and strategic decisions.
- **1.9** Describe the factors that may influence the design of management accounting systems, including behavioural issues, cost–benefit trade-offs and the implications of contingency and institutional theories.
- **1.10** Identify the organisational responses and management accounting responses to changes in the business environment.
- 1.11 After studying the appendix, describe how the focus of management accounting has evolved.
- **1.12** After studying the appendix, discuss the professional qualifications that are relevant to becoming an accountant, and the ethical standards to which accountants must adhere.

1 Introduction

We all deal with many different types of organisations as part of our daily lives. Manufacturers, retailers, service providers, not-for-profit organisations¹ and government enterprises provide us with a vast array of goods and services. These organisations seem very different, but they have three things in common. First, every organisation should have a stated purpose and objectives. For example, a police department may state that its purpose is to make the community a safer place in which to live. The specific objectives of an organisation flow from its purpose. In the case of the police department, the objectives may be to reduce the crime rate by 50 per cent and decrease the number of road fatalities by 30 per cent within the next five years. The objectives of organisations generally focus on adding value from the perspective of major stakeholders—in particular, owners and customers.

Second, in pursuing objectives managers need to make many decisions, and for this they need information. The information needs of managers extend across financial, production, marketing, legal and environmental areas. Generally, the larger the organisation, the more complex are its operations, and the greater is management's need for information. In the police department, senior officers will need information to assess progress towards objectives. Relevant information could include crime statistics for each quarter of the year, explanations why crime rates may be meeting or exceeding targets, and details of the strategies put into place to reduce crime.

Last, to help achieve the organisation's objectives, managers need to manage their resources effectively and efficiently. Resource management can involve using resources more effectively (i.e. achieving better outcomes) and using resources more efficiently (i.e. using fewer resources to achieve an objective). In the police department, management will need to know the cost of new crime-reduction programs that have been put in place.

Management accounting information helps to satisfy the information needs of managers in setting worthwhile objectives, managing resources efficiently and effectively, and adding value for customers, owners and other key stakeholder groups. Major challenges presented by twenty-first century business environment trends mean that managers rely on management accounting information expertise more than ever for crucial business intelligence as they seek to evolve, adapt and compete in response to rapidly evolving market conditions.

AUSTRALIAN ORGANISATIONS IN THE TWENTY-FIRST CENTURY



Businesses across Australia and the Asia-Pacific are competing in a rapidly changing and unpredictable business environment characterised by a number of broad trends. Ongoing trade liberalisation through continued negotiation of free trade agreements, and harmonisation of standards and regulations, are reducing trade barriers and increasing competitive pressures around the world. With many tariffs, quotas and subsidies reduced or eliminated, businesses are exposed to a global marketplace, and

^{1.} In New Zealand, not-for-profit organisations (NFPs) are known as public benefit organisations, reflecting the fact that they are generally organised for socially beneficial purposes.