U.S. Department of Transportation Federal Highway Administration Federal Transit Administration



TRANSPORTATION PLANNING INFORMATION EXCHANGE

Performance Measures for Financial Sustainability of Highway Assets

Chris Champion CEO, IPWEA <u>cchampion@ipwea.org.au</u>

www.ipwea.org.au



CONTEXT







Sustainability of services should be key objective of every agency



Economic development



Public health & safety

Social & Recreation Needs



Highly interdependent

D)

ENGINEERING ALISTRALL



Municipal Government is asset rich and revenue poor





We manage more assets relative to income than other govts



We have a responsibility to current & future generations



You cannot manage long lived infrastructure from year to year







You need a long term sustainable plan for your network & community





Sustainably managing your Network





FINANCIAL & INFRASTRUCTURE SUSTAINABILITY

\$\$\$

ASSET MANAGEMENT PLAN Services required, how provided & funds required

LONG TERM FINANCIAL PLAN

How services are to be funded





Sustainable Communities 3 KEY ELEMENTS

1. Stewardship: Role of Elected Members

- 2. Managing existing as well as new: Asset Management Planning
- 3. Essential part of Business: Long Term Financial Planning



Sustainable Communities 3 KEY ELEMENTS

1. Stewardship: Role of Elected Members

- 2. Managing existing as well as new: Asset Management Planning
- 3. Essential part of Business: Long Term Financial Planning

Decaying infrastructure leaves a liability for future generations



What are the risks, priorities & funds required to sustainably manage infrastructure?





Manage the gap (not just funding the gap)

- Understanding impact new assets
- Better asset information
- Timely maintenance
- Improved work practices
- Disposal of assets
- Alternative service delivery
- Lower levels of service
- Innovative solutions

Move from annual budgeting to long term financial planning





Sustainable Communities 3 KEY ELEMENTS

1. Stewardship: Role of Elected Members

- 2. Managing existing as well as new: Asset Management Planning
- 3. Essential part of Business: Long Term Financial Planning



Engineers don't understand Accountants Accountants don't understand Engineers

Accountants

Past Investments

Asset Consumption Annual Depreciation Expense

Asset Managers

Future Investments

Asset Renewal Renewal Cashflow Projections

Engineers & Accountants talking the same language



All singing from the same song book

Accounting for infrastructure can reflect the way we manage our assets

- Accrual Accounting
- CRC / Fair Value, not Historical cost



Use AMP & LTFP process to improve your asset register & financial statements









Performance of an Asset over Time



Future Economic Benefits

Consumption Phase 1



(Recognising asset consumption)



Future Economic Benefits (Service Potential)

Consumption Phase 2



Depreciating the Assets Phase II



Consumption Phase 3



Depreciating the Assets - Phase III



Segmentation



Value assets to reflect how we manage



Value assets to reflect how we manage



Take replacement policies into account

<u>Case 1</u>

Replacement K&G with road pavement Replacement cost \$50/m

Case 2 Replacement in isolation Replacement cost K&G \$80/m Restoration \$30/m \$110/m

Value assets to reflect how we manage

Residual value has meaning in the field





Road pavement recycling


Useful life is not a look up table



Period that the asset provides the required level of service

- Use best information available
- Experience with similar assets
- When will replacement / disposal appear in the Works Program?



Age

Useful life is not a look up table



Period that the asset provides the required level of service

- Use best information available
- Experience with similar assets
- When will replacement / disposal appear in the Works Program?

• Condition / Functional

Life

- Capacity and Utilisation
- Cost and efficiency
- Safety and compliance
- Location, Obsolescence
- Availability of funding, etc

Calculate accumulated depreciation, fair value & annual depreciation expense



Test for impairment & calculate loss





Sum the components

Document to substantiate & justify for audit

Use the data for asset renewal planning



Project capital renewal requirements



Adelaide City - Projected Capital Renewal Expenditure (Transport)

Sustainably managing your Network





FINANCIAL & INFRASTRUCTURE SUSTAINABILITY

\$\$\$

ASSET MANAGEMENT PLAN Services required, how provided & funds required

LONG TERM FINANCIAL PLAN

How services are to be funded





Sustainable Communities 3 KEY ELEMENTS

1. Stewardship: Role of Elected Members

- 2. Managing existing as well as new: Asset Management Planning
- 3. Essential part of Business: Long Term Financial Planning

AIFMG > LTFP PN

Free download: www.ipwea.org.au/PracticeNotes





3 steps to ensure sustainable service levels





develop plan frame strategy target indicators



Step 1. Develop 10yr long term financial plan



Accrual accounting principles importantly include depreciation



AM Plan projections minimising whole of life costs input into LTFP

LONG-TERM FINANCIAL PLAN – ESTIMATED INCOME STATEMENT

	2006-07 Actual \$'000	2007-08 Budget \$'000	2008-09 Plan \$'000	2009-10 Plan \$'000	2010-11 Plan \$'000	2011-12 Plan \$'000	2012-13 Plan \$'000	2013-14 Plan \$'000	2014-15 Plan \$'000	2015-16 Plan \$'000	2016-17 Plan \$'000	2017-18 Plan \$'000
INCOME Rates Statutory charges User charges Grants, subsidies and contributions Investment Income Reimbursements Other Revenues Share of profit – joint ventures & associates												
Total Revenues EXPENSES Employee Costs Materials, contracts & other expenses Finance Costs Depredation, Amortisation & Impairment Share of loss – joint ventures & associates Tatal Ferrangese		Ex	penditu aluatio	ire Pro n Proje	jection ections	s from from A	Asset sset N	Manag Ianage	ement ment F	Plans Plans		
OPERATING SURPLUS/(DEFICIT) BEFORE CAPITAL AMOUNTS Net gain/(loss) on disposal or revaluation of assets Amounts received specifically for new or upgraded assets Physical resources received free of charge NET SURPLUS/(DEFICIT)												



Your LTFP will have a strategic focus

	\$Y1	\$Y2	\$Y3	\$Y10
Revenue	X ₁	X ₂	X ₃	X ₁₀
Expenses	У ₁	У ₂	y ₃	У ₁₀
Capital Works	Z ₁	Z ₂	Z ₃	Z ₁₀
Avail/needed cash	a ₁	a ₂	a_3	a ₁₀
Financial Perf Indicators	b ₁	b ₂	b ₃	b ₁₀
Financial Perf targets	C ₁	C ₂	C ₃	C ₁₀

where targeted performance is not projected to be achieved the plan should be revised

- Less
 20pp
- Narrative
 overview
- Not too detailed
- Iterative
 process
- Year 0
 Last FY
- Year 1 Budget



Document your key assumptions

- Rate of growth or decline
 - will impact operating revenue & expenditure
- Mandated or discretionary service levels
 - changes assumed
- Relative price variations over time
 - use trend estimates; focus major outlays
- Use of real (net of inflation) values
 - inter-year comparisons more meaningful
- Changes in revenue beyond your control



Step 2. Frame your plan within a clear financial strategy



Target small underlying operating surplus on average over time

Operating Result = Operating Revenue Less Operating Expenditure

> Include depreciation not Capital Outlays



Ongoing operating deficits imply running your assets down

- Taxes & charges less than cost of service
- Current policies & LOS unsustainable



Renewing or replacing ageing assets add little operating costs

- Acquiring new assets will!
- Depreciation not significantly different
- Operating & maintenance costs may decrease



3 steps to ensure sustainable service levels





develop plan frame strategy target indicators



Step 3. Monitor projections against target financial indicators



	\$Y1	\$Y2	\$Y3	\$Y10
Revenue	X ₁	X ₂	X ₃	x ₁₀
Expenses	У ₁	У ₂	У ₃	У ₁₀
Capital Works	Z ₁	Z ₂	Z ₃	z ₁₀
Avail/needed cash	a ₁	a ₂	a ₃	a ₁₀
Financial Perf Indicators	b ₁	b ₂	b ₃	b ₁₀
Financial Perf targets	C ₁	C ₂	C ₃	C ₁₀

where targeted performance is not projected to be achieved the plan should be revised

AIFMG's recommend you monitor 8 financial indicators

- 1. Operating surplus
- 2. Operating surplus ratio
- 3. Net financial liabilities
- 4. Net financial liabilities ratio
- 5. Interest cover ratio
- 6. Asset sustainability ratio
- 7. Asset consumption ratio
- 8. Asset renewal funding ratio



AIFMG's recommend you monitor 8 financial indicators

- 1. Operating surplus
- 2. Operating surplus ratio
- 3. Net financial liabilities
- 4. Net financial liabilities ratio
- 5. Interest cover ratio
- 6. Asset sustainability ratio
- 7. Asset consumption ratio
- 8. Asset renewal funding ratio



3 key financial indicators

1. Operating surplus ratio

% operating surplus/deficit varies from major controllable income source (operating income)

2. Net financial liabilities ratio

- The significance of net amount owed (i.e., less money held, invested or owed to entity) compared with operating income
- 3. Asset sustainability ratio
 - Ratio asset replacement expenditure relative to depreciation; measures replacement rate



Step 3. Monitor projections against target financial indicators



Sustainability is maintaining financial capital and infrastructure capital over the long term



Undertake sensitivity analysis of variation in assumptions & inputs

Comparative asset consumption ratio—small local governments





Review & revise your plan annually



Manage the gap (not just funding the gap)

- Understanding impact new assets
- Better asset information
- Timely maintenance
- Improved work practices
- Disposal of assets
- Alternative service delivery
- Lower levels of service
- Innovative solutions



You need long term plan to sustainably manage long lived infrastructure









Sustainable Communities 3 KEY ELEMENTS

1. Stewardship: Role of Elected Members

- 2. Managing existing as well as new: Asset Management Planning
- 3. Essential part of Business: Long Term Financial Planning

3 steps to ensure sustainable service levels





develop plan frame strategy target indicators



Ensuring adequate investment in community infrastructure





Sustainable infrastructure supporting viable communities


IPWEA resources to assist

www.ipwea.org.au/AM

- Community of Practice in AM
- IPWEA App
- Australian Infrastructure Financial Management Guidelines
- LTFP Practice Note (free download)





AIFMG > LTFP PN

Free download: www.ipwea.org.au/PracticeNotes





2

U.S. Department of Transportation Federal Highway Administration Federal Transit Administration



Public Works Explore New Territory Darwin NT 11-15 August 2013



THE PLANNING EXCHANGE