

Sustainable Water Management in the City Environment

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Sustainability

- PM speech
- 6 activity areas
- Infusing sustainability
- Rallying point for existing work



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6 Activity Areas

- Sustainable Households programme
- Towards a Carbon Neutral Public Service
- Waste Minimisation and Management
- Business Partnerships for Sustainability
- Enhanced Sustainable Government Procurement
- Enhanced Eco-verification



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Common themes across the six activities include :

- Government leadership through a call to action and changes to government's own practices
- Encouraging uptake of sustainable practices across New Zealand by promoting the practicalities and benefits of being more sustainable



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Common themes across the six activities include :

- Recognising and giving impetus to the good work already being done in communities, local government and business
- The use of partnerships to promote change



Sustainable Water Programme of Action (SWPOA)

- Started in 2003
- Historical emphasis on rural water (quality and quantity)
- Integrated Catchment Management
- National Policy Statement
- National Environmental Standards
- SWPOA consultation confirms that urban water is of concern



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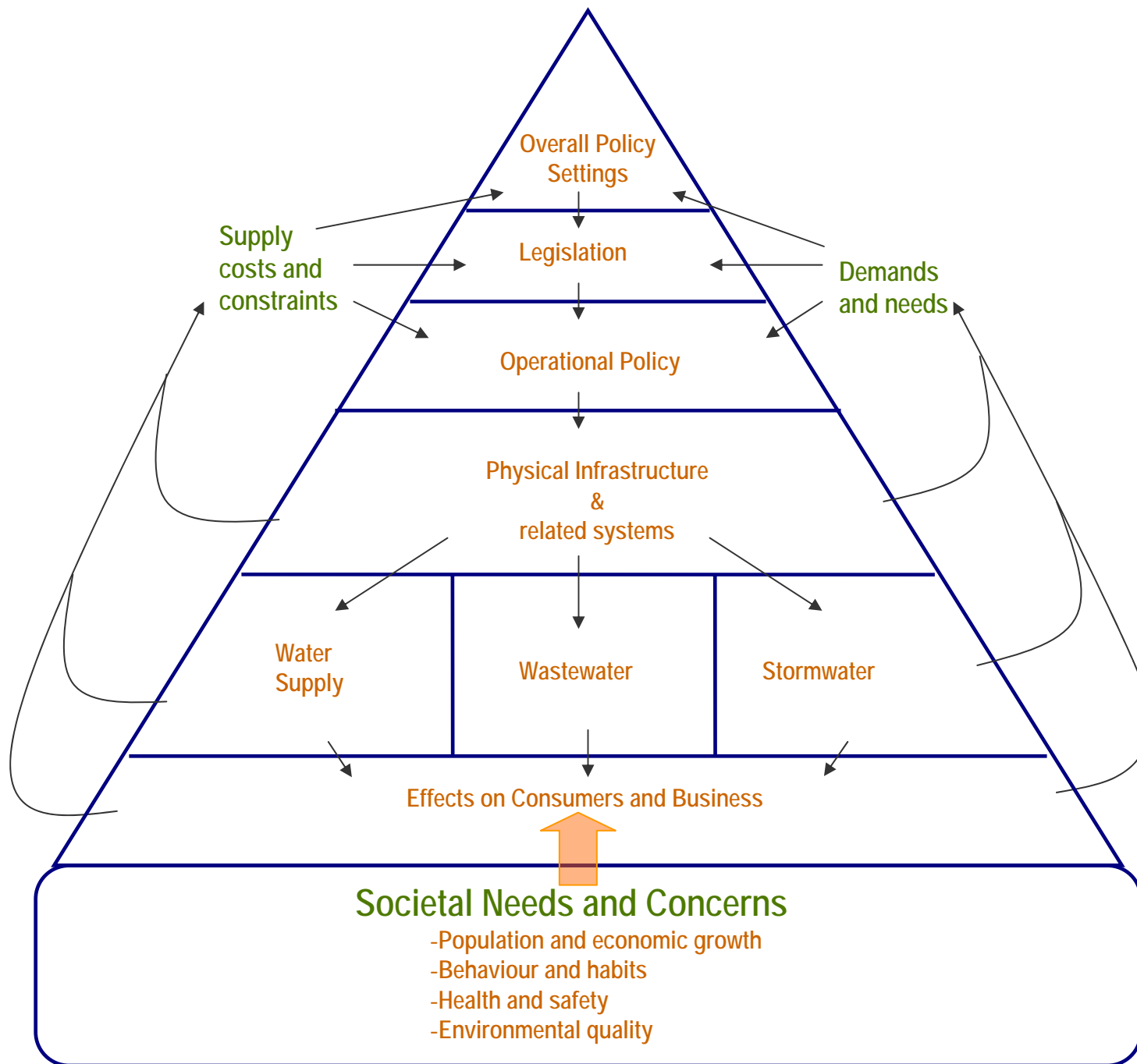
Urban Water

- Part of the SWPOA
- Integrated Catchment Management
- Focus on the three waters (Wastewater, Stormwater and Supply)
- Strong links with urban design

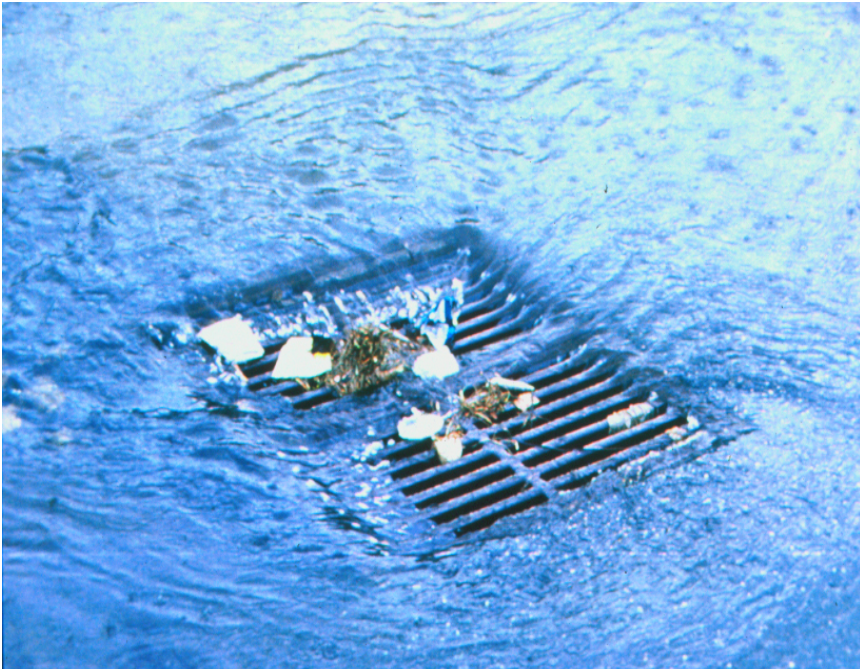


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Urban Stormwater



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A New Approach to Stormwater Management

- Attitudes are changing
- Stormwater recognised as a key element of integrated urban and infrastructure design
- Urban water as a resource, not a problem?



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Response to this Challenge?

- Catchment based approach to the built environment “**integrated catchment management**”
- Awareness of upstream and downstream elements
- Low impact Urban design and development
- Future proofed



Multiple Gains to this Approach

- Longer term viability of systems “future proofed”
- Lower environmental impact of built infrastructure “better for the environment”
- Lower costs in system hardware and maintenance (longer term) “financially sustainable”
- Design incorporates other beneficial uses “better for people”
- All leading to a “better quality of life”



Urban Water as a Resource

- Longer term sustainability issue
- Reduces need for new supply side infrastructure
- Reduces specifications for stormwater infrastructure
- Reduces power use



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Getting Sustainable?

- Sustainability 3 Rs
 - Reduce
 - Recycle
 - Reuse
- Design to complement other infrastructure design
- Find good examples of integrated stormwater design
- Work out how to do them here



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Removing Barriers

- Institutional and systemic issues
- Legal issues
- Engineering standards
- Funding



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Learning from others

- Mix and mingle!
- Share new ideas and approaches
- Learning by doing
- Learning through other's experiences



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Melbourne



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Green Roofs



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Examples Closer to Home



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Rain Gardens



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Stormwater as an Asset



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Improved Streetscapes



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Central Government Action

- Continued consultation through SWPOA
- NPS, NES
- Help remove barriers
- Highlight good work
- Design objectives & technical guidelines – Urban Design Protocol



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