

# *Improving our freshwater*

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# ***The Ministry's vision***

***Aotearoa – he whenua mana kura mo te tangata***

***Make Aotearoa New Zealand the most  
liveable place in the world...***



Ministry for the  
**Environment**  
*Manatū Mo Te Taiao*



**Making Aotearoa New Zealand**  
*the most liveable place in the world*  
Aotearoa – he whenua mana kura mo te tangata

# *Freshwater agenda*



# *Three Waters Infrastructure review*



Ministry for the  
**Environment**  
*Manatū Mo Te Taiao*



**Making Aotearoa New Zealand  
the most liveable place in the world**  
*Aotearoa – he whenua māta kōwhiri mā te tangata*



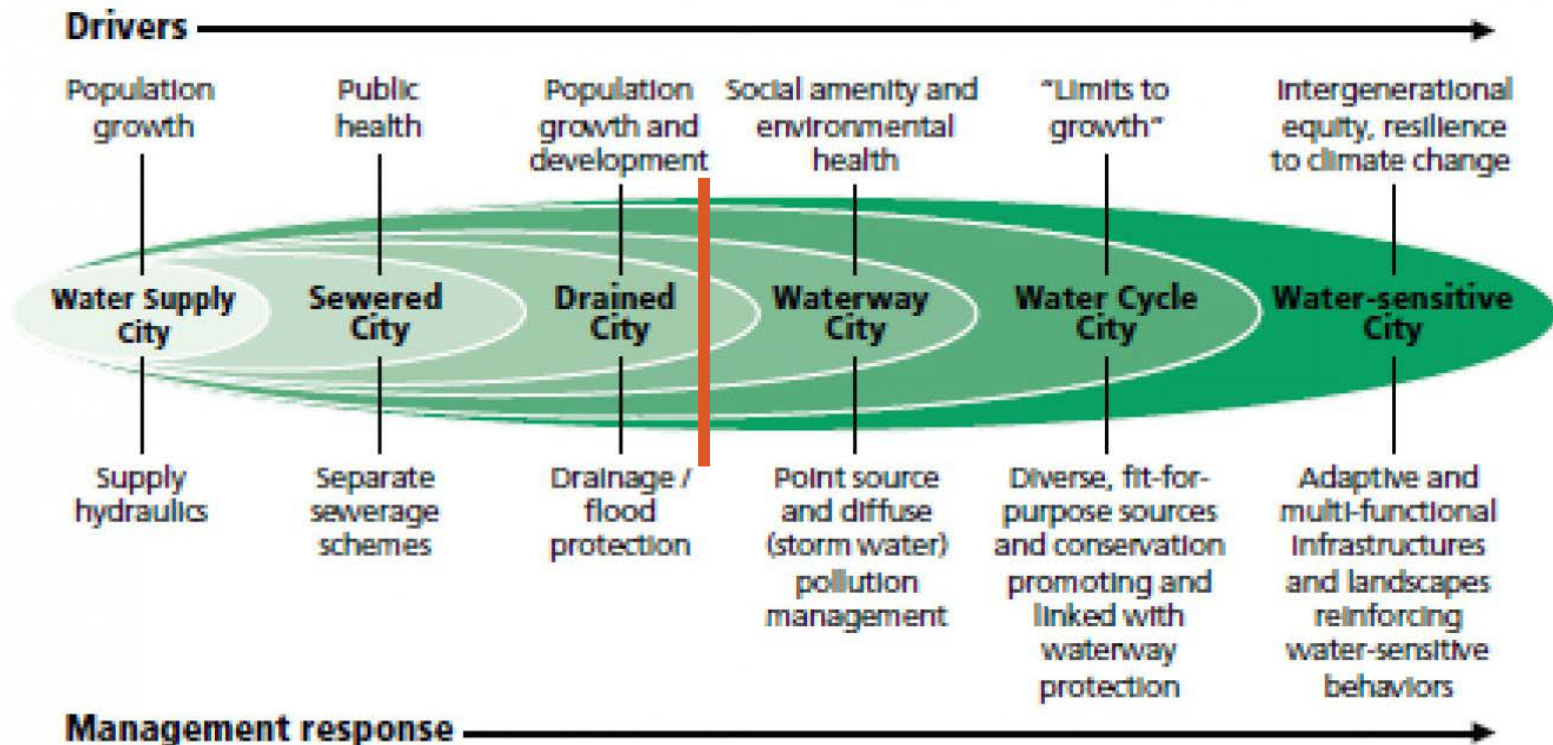
# *Some urban issues*

- Diffuse pollution of sediment, metals and gross pollutants (esp. road runoff)
- Pollution related to the reticulated wastewater system – intentional point source overflows (CSOs) or diffuse discharges (leaks)
- Altered hydrology due to increased impervious surfaces
- Altered channel form and habitat
- Climate change and flood resilience



# Where is NZ on the water sensitive scale?

## Urban water transition phases



Source: Based on T. Wong and R. R. Brown. 2009. *The Water Sensitive City: Principles for Practice*. *Water Science and Technology* 60(3):673-682.

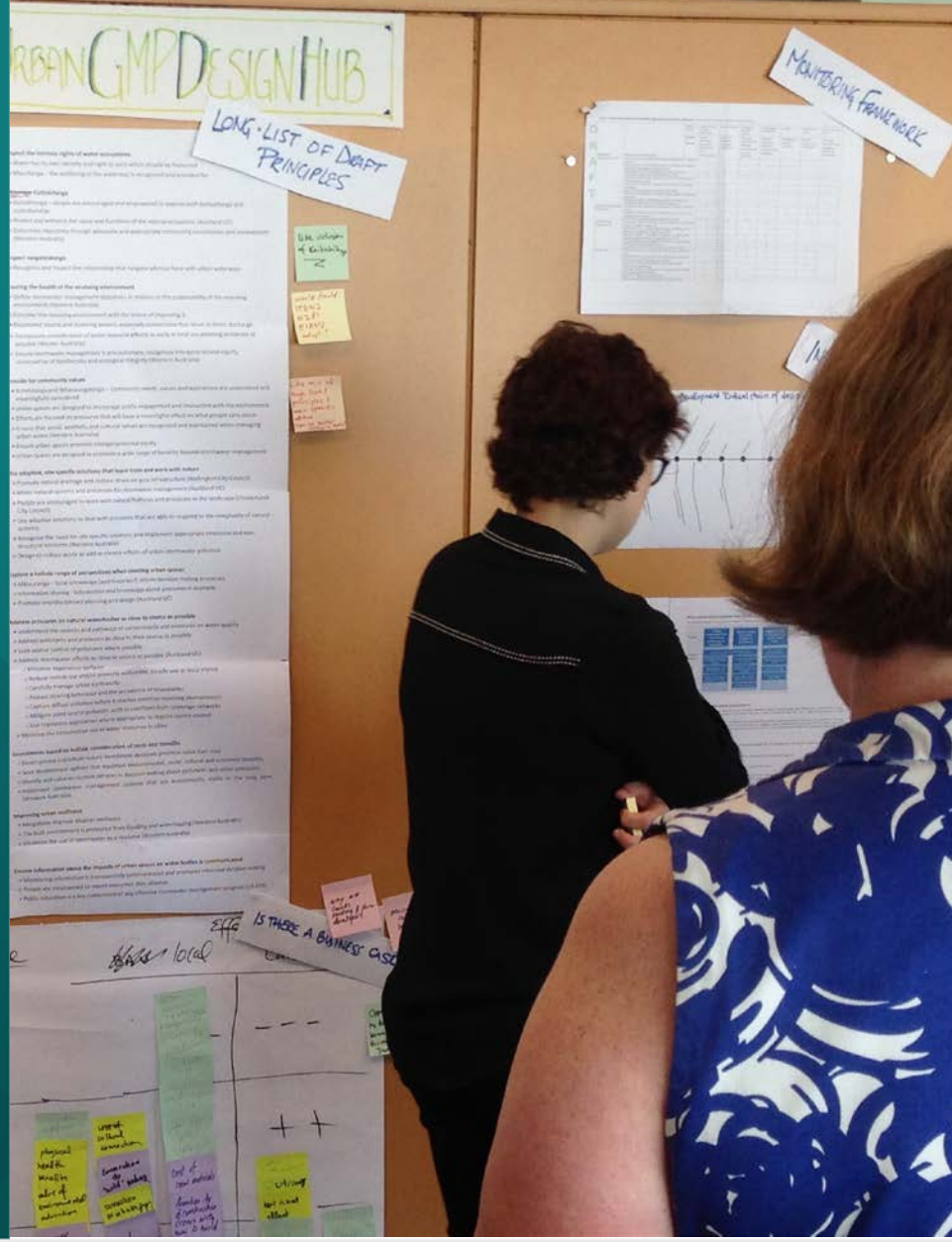
# *Providing for community values*

- Intrinsic existence values – Ki uta ki tai, Mauritanga, Wairuatanga
- Spiritual/cultural values – Whakapapa, Kaitiakitanga, Rangatiratanga, sense of place
- Physical/provisioning values – Orangatanga, Mahinga kai, recreation
- Resilience values – flood risk management, climate resilience
- Aesthetic values – improved property value





# Collaborating on Urban Water Principles.



# *Urban Water Principles*



# *Where to next?*

- *Freshwater programme*
- *Three waters infrastructure review*



# *Nga mihi nui.*

