

Outline

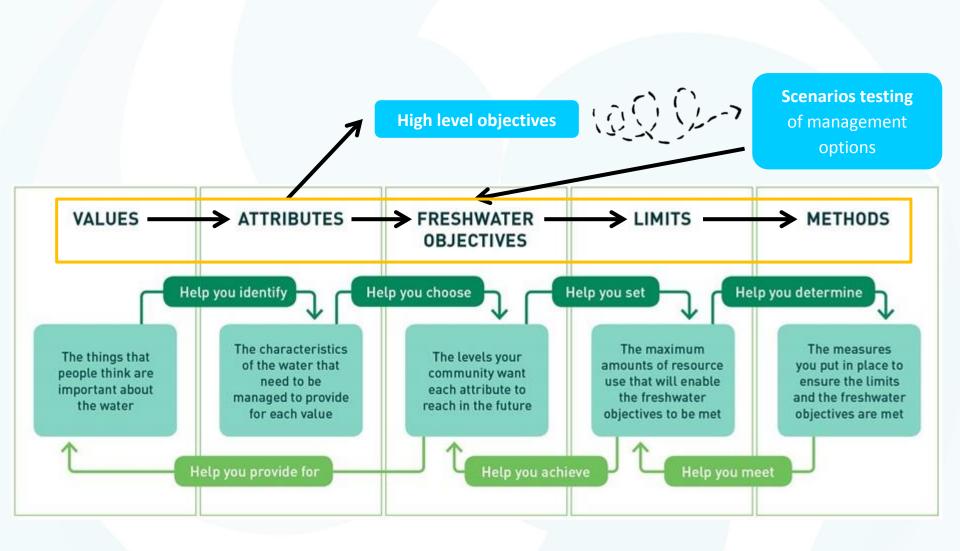
- What's the purpose of scenarios?
- Scenario work so far
- What's been happening in 2017?
- Proposed scenarios framework
- Scenarios and place (Ned)
- Scenario activities (after dinner)



Scenarios help...

- Create information for your WIP deliberations and decision-making
- Explore management options you're interested in (and some that you're not!)
- With model approach = consistent way of looking at the future, across all values





How scenarios fit in



Scenario work so far

Scenarios devaloged by the Rural Issues Norting Group

Management Options

Factor control of the Rural Issues Norting Group

Factor control of the

Gold, silver, bronze scenarios with management options

3 November 201

Narratives for Urban Development scenarios

Aim: To create scenarios which are clearly distinct from each other to be able to see difference in automies across hipphysical, social, cultural and economic values.

SCENARIO 1: BAU 1

The first business as usual scenario (BAU 1) sees development occurring to the extent and density anticipated in the WCC and PCC district plans' rules and the rules of the regional. Practice around the mitigation of the effects of new development is assumed to be as it is today (i.e. little stormwater quality management) and will not change over the course of the model.

SCENARIO 2: BAU

The second business as usual scenario (8AU 2) sees development occurring a secribed in BAU 1, but also assumes that submitted and only likely development areas not currently within a district plans, but described in other documents such as structure plans angle growth strategy (e.g. the PCK Northern Gerbard Area Structure Plans), willig paleas AU 9 will need to make some assumptions about when these occur. Practice around the mitigation of effects will be the same as under 8AU 1 (i.e. low level mitigation of stromwaster impacts).

SCENARIO 3: BEST PRACTICE NEW DEVELOPMENT

Scenario 3 sees all definite and likely development areas serveloped (i.e. those areas in BAU 2) but with tormwater management practice that) is enhanced so reach 3 test practice; stander (BAN)? This is likely to reflect institute of the stander of the stander (BAN)? This is likely to reflect institute of the stander of

SCENARIO 4: BETTER THAN BEST PRACTICE NEW DEVELOPMENT

Scenario 4 moves a step on from Scenario 3 by reframing the method of development (particularly of greenfield development) to take a 'better than best practice' approach. In this case, this will mean the full application of water sensitive urban design (WSUD) principals in subdivision design and construction, including seeking lower imperviousness than BAU and BMP practice, smaller building and road footprints, greater enhancement of water ways through ripartian and green space management, and green stormwiser infrastructure choices.

SCENARIO 5: SHRINKING THE URBAN DEVELOPMENT FOOTPRINT

In order to further eurore the impacts of urban development, Scenario 5 provides a development pathway in the whaltus that covers either a smaller footprint, or a lower dentify, than under either of the development trajectories of the two business as usual scenarios (Scenarios 1 and 2). We would need to make assumptions about, where to lessen/de-intensify the urban development footprint. Decisions would also be needed around the level of stormwater militigation to be applied—it may be useful, for instance to compare the low-level, BAU stormwater mitigation over a smaller activities with the other Scenarios 1 and 2.

ENPL-6-111

6 narrative scenarios

Management options



What's been happening in 2017?

- Tranquil Waters modelling meeting
- CMP/WWL/Project team meeting
 - Reviewed working group scenario material
 - Examined Committee questions
 - Raised ideas for new framework
- Project team: weaving ideas together



Advice from 2017 work:

- Management options all make sense
- Very few can't be modelled
- Alternative approach for some options?
- 'Urban development area' could be used as starting point for framework
- Options can be tested in an 'additive way'
- Model assumes all practices are adopted



Proposed scenario framework

		Land and water use practice				
		Current	Improved	Water sensitive		
Development area	Existing growth	Scenario 1 (BAU 1)	Scenario 5	Scenario 9*		
	Identified further growth	Scenario 2 (BAU 2)	Scenario 6	Scenario 10		
	Restricting growth extent (denser development)	Scenario 3	Scenario 7	Scenario 11		
	Expanding growth extent (spread out development)	Scenario 4	Scenario 8	Scenario 12		

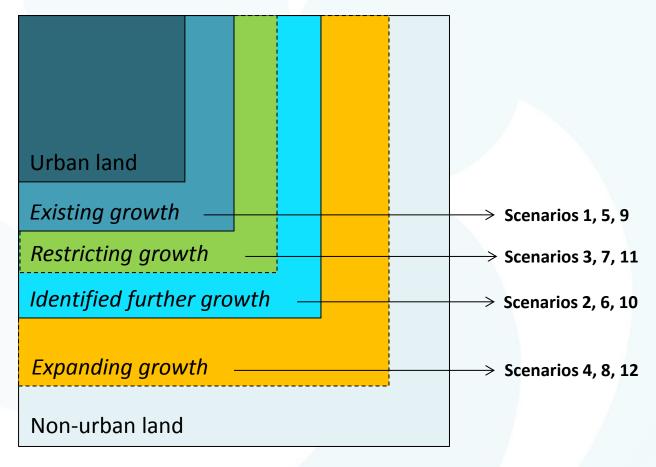


What are 'development areas'?

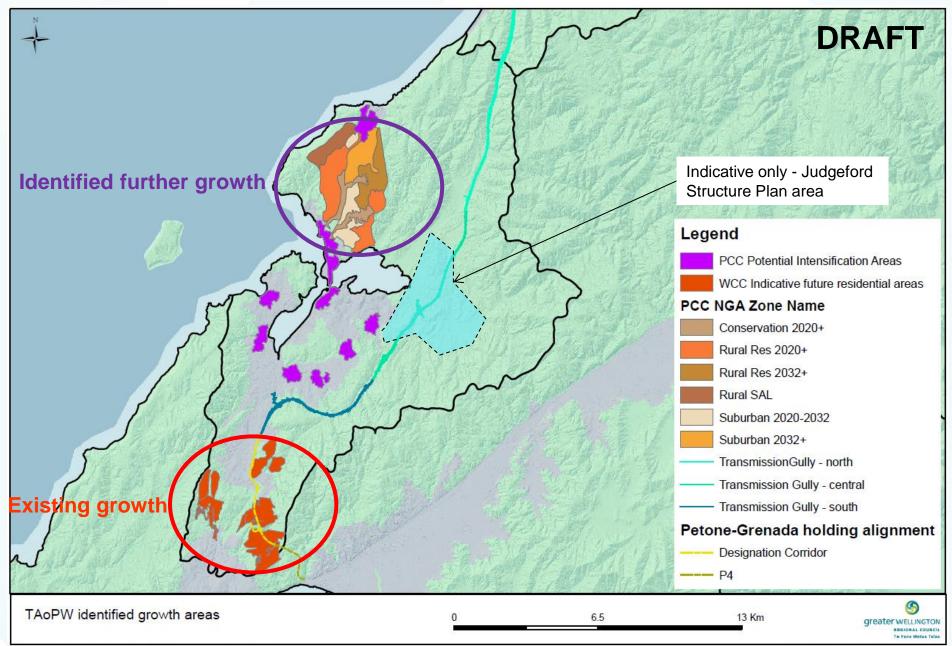
- Existing growth:
 - development areas in district plans
- Identified further growth:
 - all 'existing growth', plus likely areas
- 'Restricting' and 'Expanding growth':
 - Based on 'further growth' area
 - -TBC by Committee with technical input



What are 'development areas'?







What does 'practice' mean?

- Rural, urban development and stormwater and wastewater management options
- 'Current'
 - existing practice, policy and investment (i.e. BAU)
- 'Improved' and 'Water sensitive'
 - TBC by Committee with technical input



Examples of 'practice' change

- What is 'improved' and 'water sensitive' practice?
 - –# wastewater network overflows per year?
 - extent revegetation for sediment management?
 - extent imperviousness in new development?
- Technical advice to back fill with management options

Next meetings

- Follow up on today's work
- Start filling in the content:
 - What are 'improved' and 'water sensitive' practices?
 - What are the delineations and densities of the 'restricted' and 'expanded areas'?
- Scenarios to modellers by March



High level objectives – June 2016

Restore ecological health and water quality	Improve water quality for human health	Sustainable urban development	Sustainable rural land use	Te mana o Te Awarua-o-Porirua
Reduce sedimentation rates Reduce pollutant inputs: - reduce toxicant inputs - cap nutrient inputs Restore habitats: - estuary re-vegetation - riparian and habitat enhancement Reduce impacts from altered hydrology	Achieve water quality suitable for swimming: - reduce faecal inputs Improve access Improve amenity	Achieve sustainable urban development: - maintain and improving water quality - provide housing stock and built environment that meets the communities needs Provide sustainable and resilient water infrastructure	Achieve sustainable land management and land use practice	Provide for Māori use including mahinga kai Restore the mana of Te Awarua-o-Porirua

