



Healthy Rivers
PLAN FOR CHANGE

Wai Ora
HE RAUTAKI WHAKAPAIPAI



RAUKAWA CHARITABLE TRUST
TE POARI MANAAKI O RAUKAWA



TŪWHARETOA
MĀORI TRUST BOARD



Integrated Assessment Framework

TLG presentation to Community Stakeholder Group

Healthy Rivers CSG 11

April 24th 2015

Healthy Rivers
Policy Process

CSG outcome

Desired Values

CSG Focus Statement

- e.g., safe to swim, take food, provide well being)
- Can be 'alternative' detail below that

- Assess options against Values & risk
- Consensus?
- Seek further scenarios?

CSG
deliberations

Setting Attribute Levels
Water quality (N, P, Sed., bacteria)
consistent with Desired Values

- TLG advises, using:
- Guidelines e.g., NOF
 - Existing information
 - Experts input

Scenario Analysis – looking at future options for Limits on point and non-point losses from land

Integrated assessment across Values to provide CSG with social, economic, cultural & ecological analysis

- TLG, using experts for:
- Predictive modelling
 - Non-market valuation studies


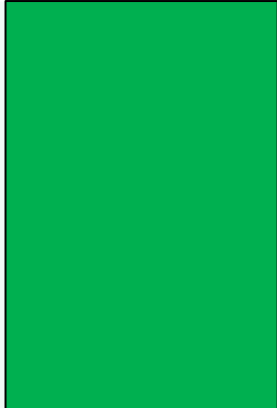
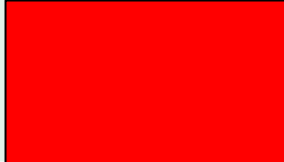
New draft of integrated assessment framework

Outcomes	Policy selection Criteria indicators	Waikato Progress Indicators	CSG indicators generated at Karapiro (9 th February)
Provides for Maori cultural aspirations	<ul style="list-style-type: none"> • Maori retain and use their Taonga • Beneficial cultural outcomes 	<ul style="list-style-type: none"> • Te Reo Maori speakers 	<ul style="list-style-type: none"> • Protected Waahi Tapu • Protected Waahi Taonga • Opportunity to tell stories related to river • In line with Vision and Strategy
Gives positive social and community benefits	<ul style="list-style-type: none"> • Minimise social disruption • Provide social benefit • Enhance use of river • Take account of unique features and benefits • Outcomes people identify with, own and feel proud of 	<ul style="list-style-type: none"> • Life satisfaction • Housing affordability • Crime • Life expectancy • Perceived health • Social connectedness • Community pride • Cultural respect • Community engagement • Water use 	<ul style="list-style-type: none"> • Local, regional and national <u>domestic</u> food chains are resilient and able to provide food that is locally produced, healthy and nutritious • Capability to produce electricity is not diminished to provide for communities, health, safety and wellbeing • Cost of treating waste water discharges is not prohibitive to communities. • Employment numbers • Desirable communities to work and live in; Maintain and improve community amenities to support population; • Flow on effects on the visibility of rural towns/communities • Communities involved in recreation and greater use of the river – recreation and food gathering

New draft of integrated assessment framework

Outcomes	Policy selection Criteria indicators	Waikato Progress Indicators	CSG indicators generated at Karapiro (9 th February)
Achieves the restoration and protection of native habitats and biodiversity			<ul style="list-style-type: none"> Improved ecosystem health e.g. foodwebs/macrobenthos/native fauna and flora.
Economic		<ul style="list-style-type: none"> Income inequality Employment Regional GDP 	<ul style="list-style-type: none"> Employment (jobs created/jobs lost) across the value chain Viable farm/urban businesses (effect on rural service towns/GDP effect) Resource use efficiency (highest/best use) Create new opportunities for Tourism/Visitors Opportunity to develop “new business” – value of the “restoration industry” i.e. Non-traditional forestry, e.g. native hardwoods Food remains affordable for all aspects of our communities and is not substituted for lower quality nutrition. Cost of living indices? Land values not destroyed

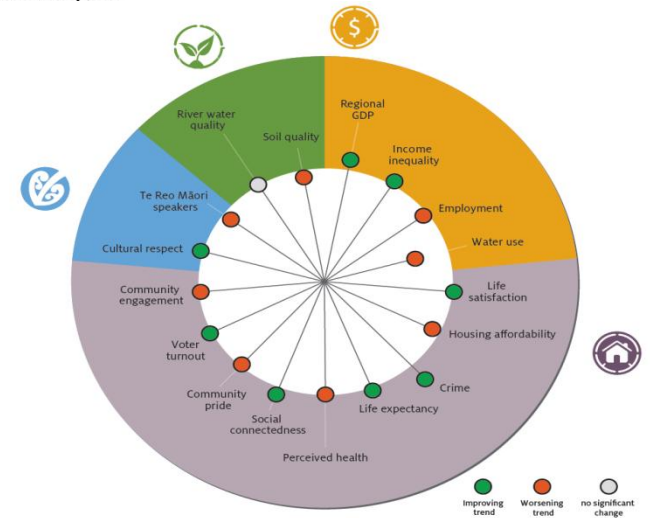
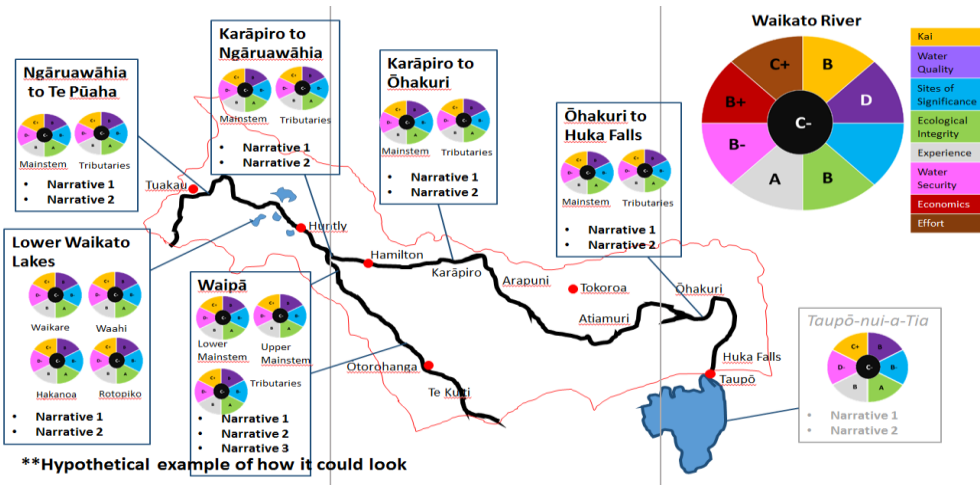
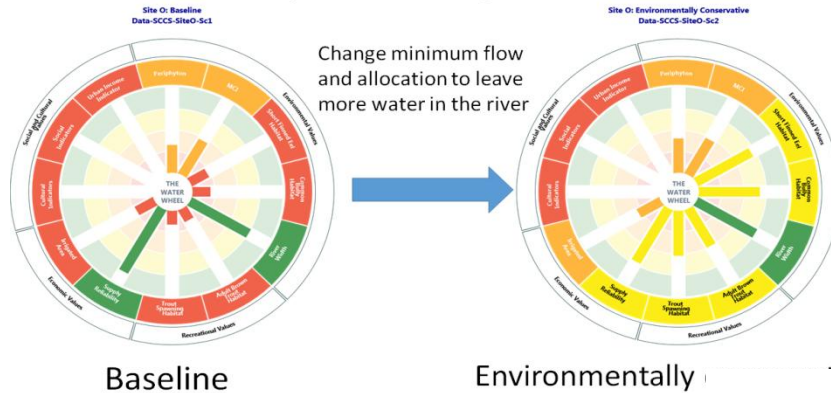
Assessing the acceptability of the scenario impacts

Outcome	Narrative	Judgement
Does this scenario deliver acceptable restoration and protection of native habitats and biodiversity	Increase in riparian planting occurs under community catchment schemes.	
Does this scenario deliver acceptable positive social and community benefits	Catchment consists of thriving sustainable communities with high social capital. Local residents enjoy a 'sense of place' and community identity, full employment and opportunities for financially viable businesses.	
Provides for Maori cultural aspirations	Riparian planting corridors block access	

Indicator	Scenarios				Indicator	Scenarios				Indicator	Scenarios				Indicator	Scenarios			
	1	2	3	4		1	2	3	4		1	2	3	4		1	2	3	4
Native Biodiversity	Red	Red	Green	Green	Employment	Green	Red	Green	Green	Desirable communities	Green	Green	Red	Green	Protected waitapu	Red	Green	Green	Green
Values and attribute states	Red	Red	Green	Green	Viable farm business	Green	Green	Red	Green	Enhance use of river	Red	Red	Green	Green	Access to river	Green	Green	Red	Red
					Land value not destroyed	Green	Red	Red	Green	Social connectedness	Red	Green	Red	Green	Abundance of mahinga kai	Red	Red	Green	Green
					Regional GDP	Green	Red	Green	Green	Community pride	Green	Green	Green	Green	Matauranga a Iwi	Red	Green	Green	Green

Visualising the integration

Water wheel use to illustrate scenarios
 – a Canterbury flow example



Task

- Check the framework what is missing?
- What are your top priorities within the indicators