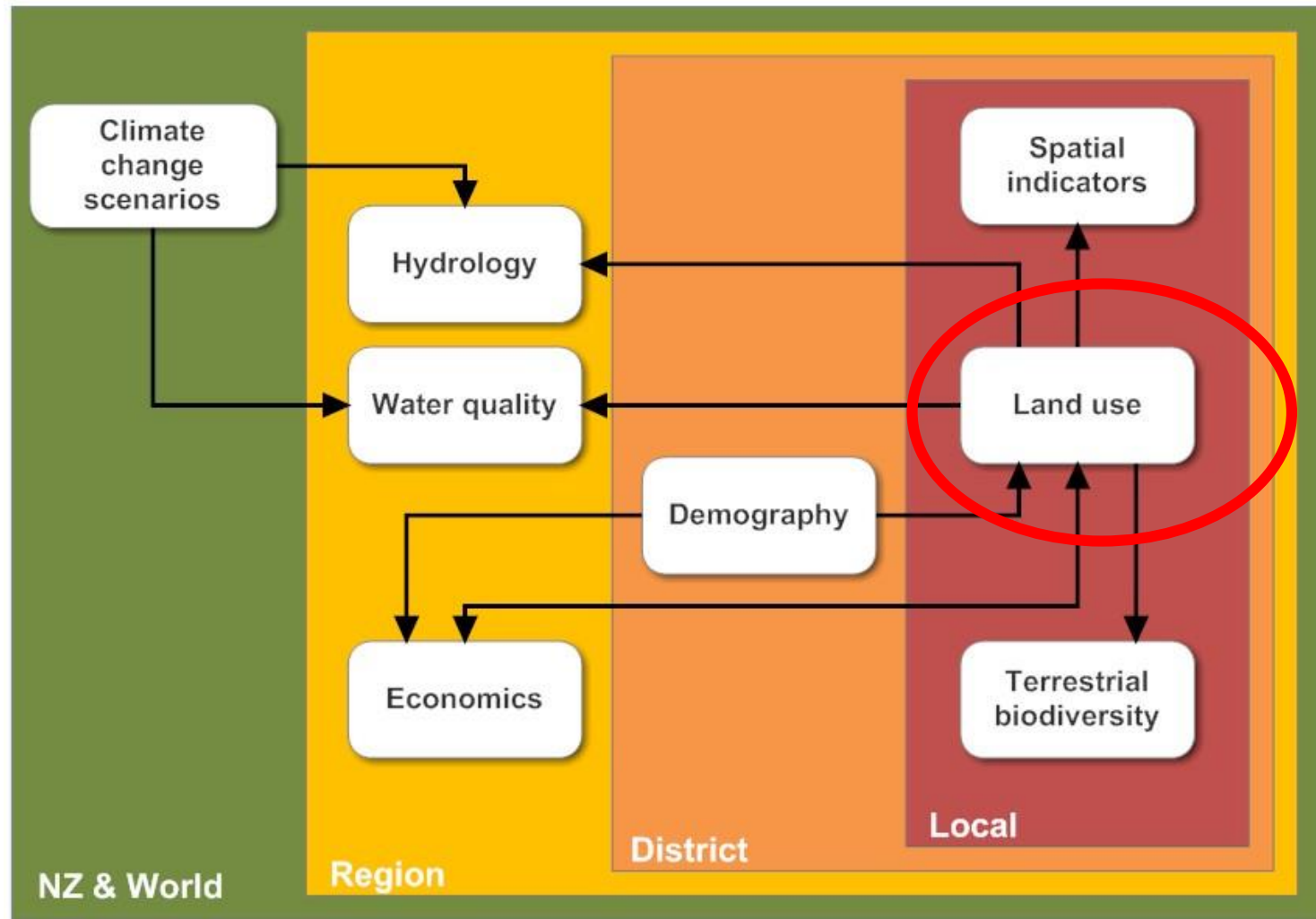


Land Use Change Model



WISE Land Use – 2013 Update

- No case to change classification of 24 land uses already defined
- Data sets used – LCDB4, Valuation Database, Agribase.
- Rules based approach seen as best method to update land use layer (similar to 2006 layer)
- Others – Roads/rail, marine farms, airports
- 100 x 100m grid for increased resolution

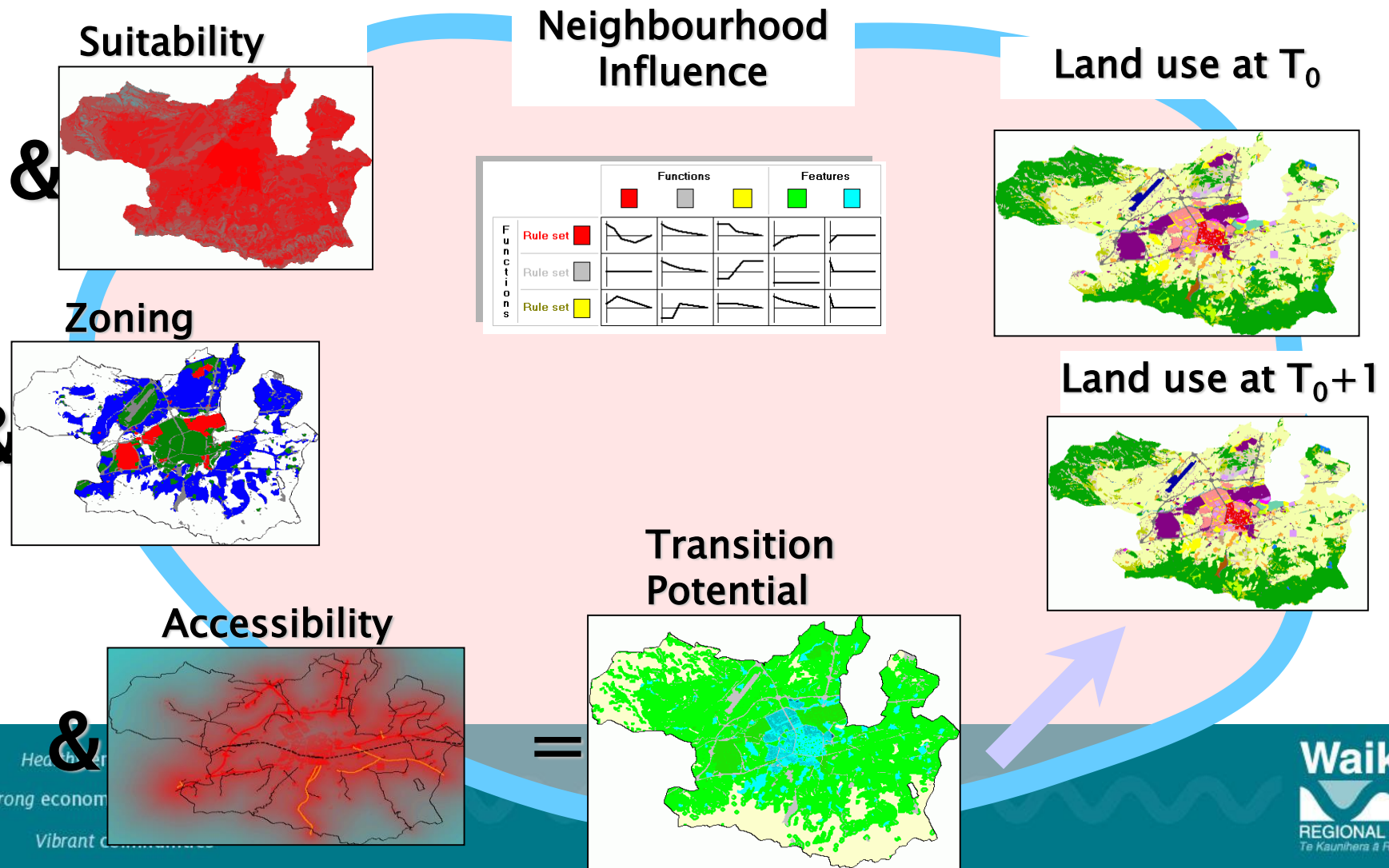


Healthy environment

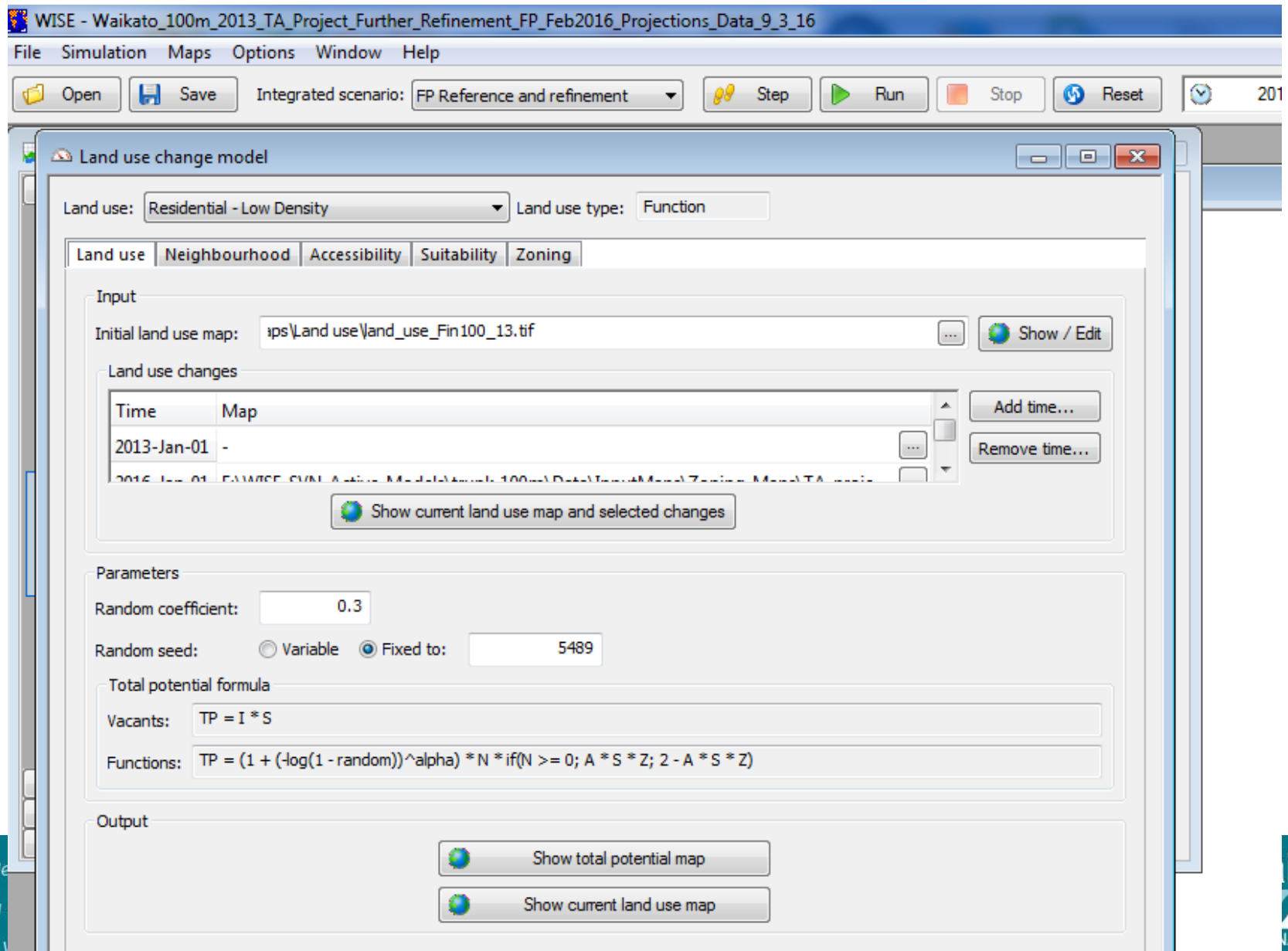
Strong economy

Vibrant communities

How does WISE work – Land Use Change Model

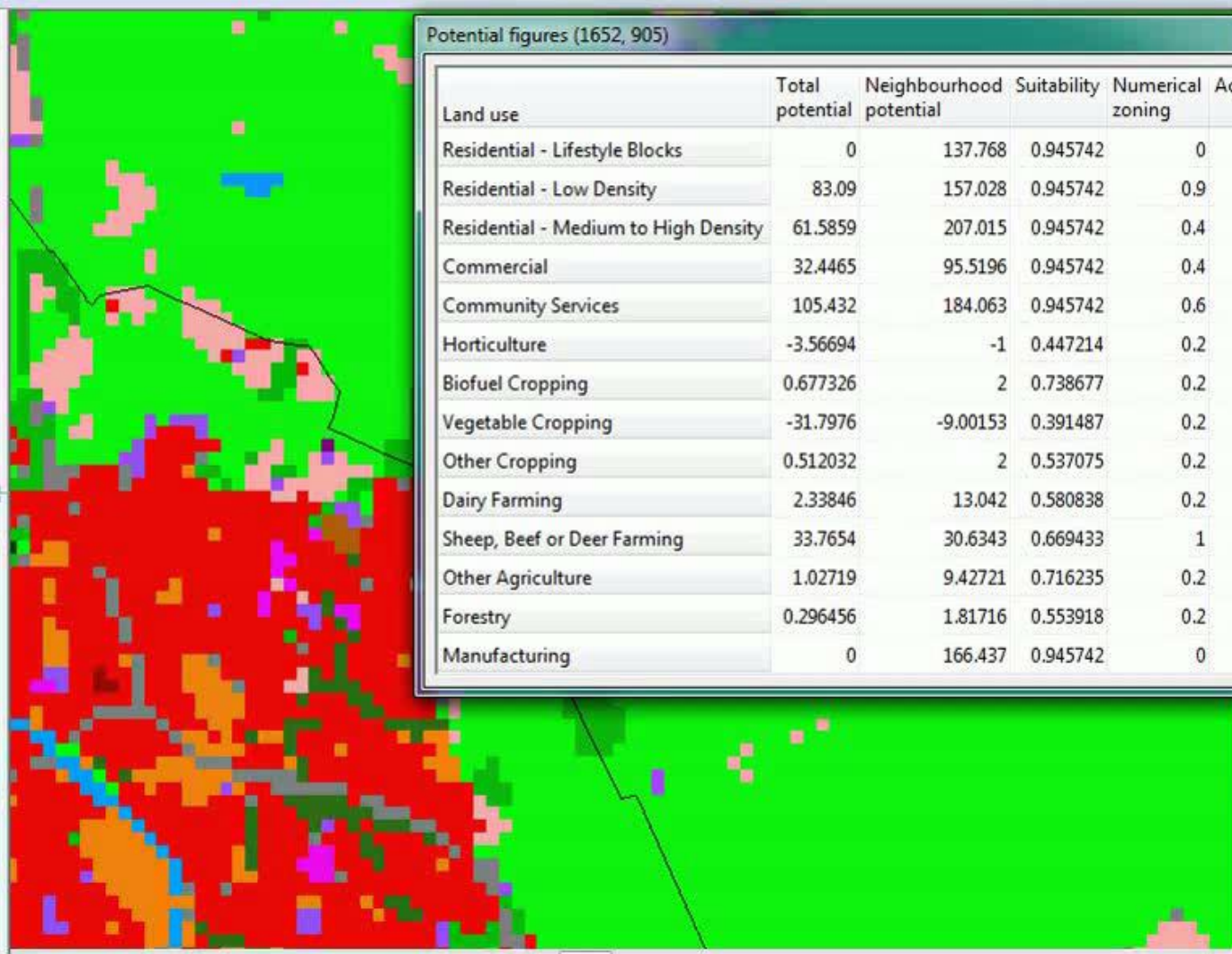
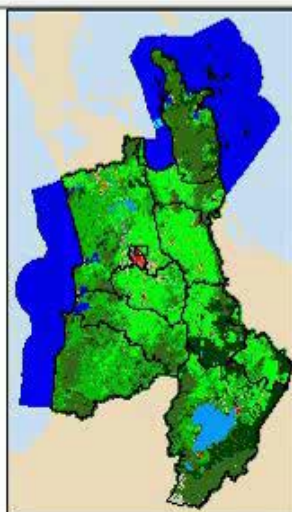


Land use change model - interface



Land use map

- ☐ Bare Surfaces
- ☐ Indigenous Vegetation
- ☐ Other Exotic Vegetation
- ☐ Wetland
- ☐ Residential - Lifestyle Blocks
- ☐ Residential - Low Density
- ☐ Residential - Medium to High Density
- ☐ Commercial
- ☐ Community Services
- ☐ Horticulture
- ☐ Biofuel Cropping
- ☐ Vegetable Cropping



Potential figures (1652, 905)

Land use	Total potential	Neighbourhood potential	Suitability	Numerical zoning	Accessibility
Residential - Lifestyle Blocks	0	137.768	0.945742	0	0.46539
Residential - Low Density	83.09	157.028	0.945742	0.9	0.339532
Residential - Medium to High Density	61.5859	207.015	0.945742	0.4	0.331378
Commercial	32.4465	95.5196	0.945742	0.4	0.467204
Community Services	105.432	184.063	0.945742	0.6	0.47955
Horticulture	-3.56694	-1	0.447214	0.2	0.599105
Biofuel Cropping	0.677326	2	0.738677	0.2	1
Vegetable Cropping	-31.7976	-9.00153	0.391487	0.2	0.826403
Other Cropping	0.512032	2	0.537075	0.2	1
Dairy Farming	2.33846	13.042	0.580838	0.2	0.85902
Sheep, Beef or Deer Farming	33.7654	30.6343	0.669433	1	0.788736
Other Agriculture	1.02719	9.42721	0.716235	0.2	0.414179
Forestry	0.296456	1.81716	0.553918	0.2	0.765923
Manufacturing	0	166.437	0.945742	0	0.479293

Healthy environment

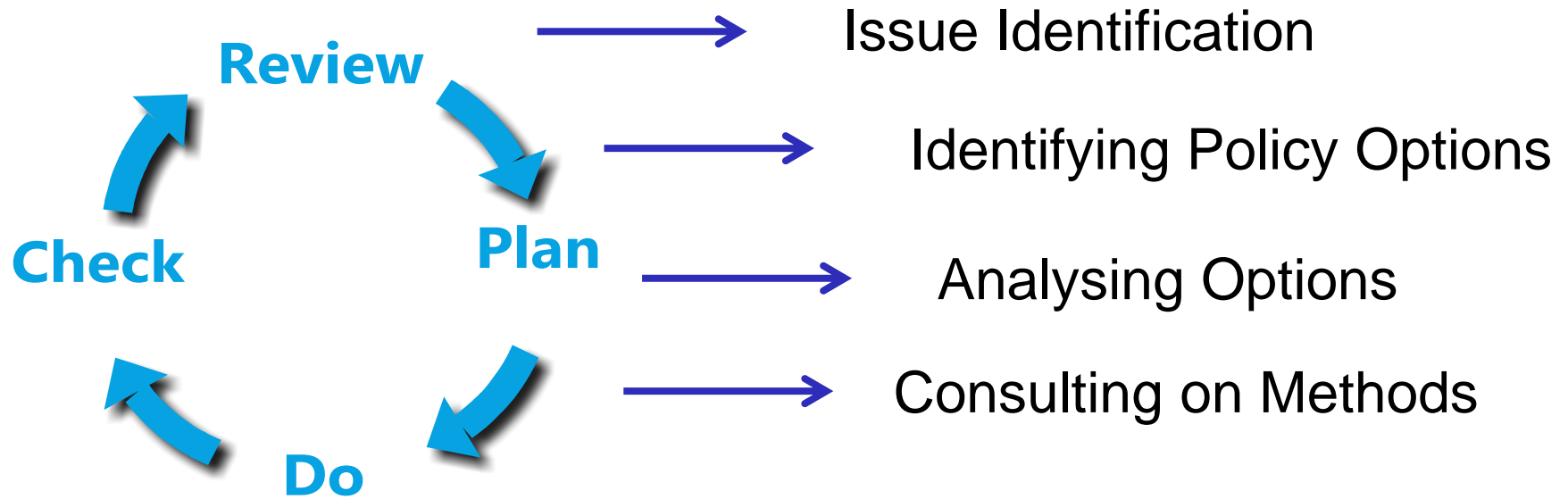
Strong economy

Vibrant communities

Value of Scenario Planning

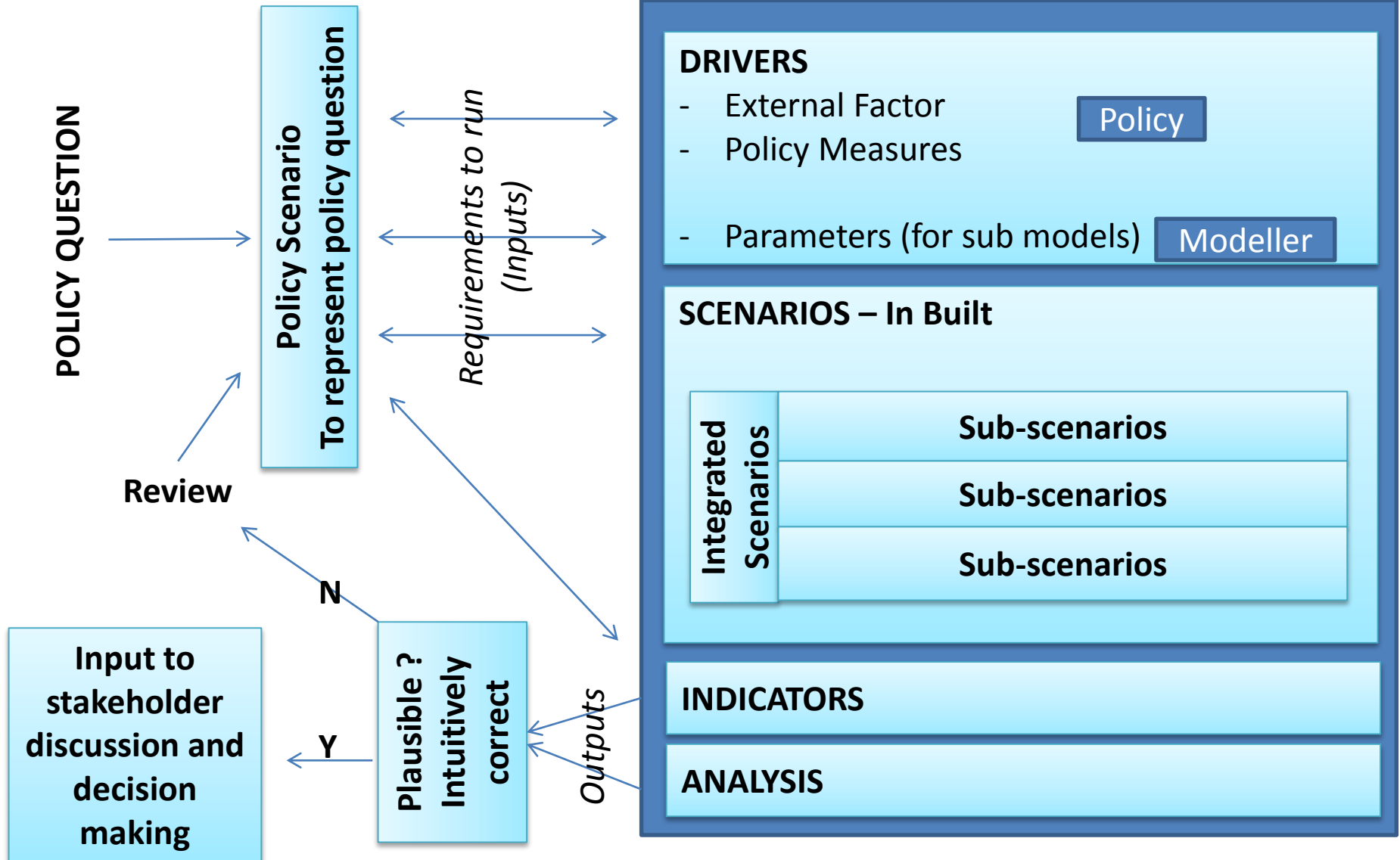
- Better understand the range of plausible futures
 - To have more informed decision making
 - Create more robust enduring policy
- Framing policy questions to direct Scenario development
- Process is often more important than the products
- Select 'Decision Support' tools to suit questions

Policy Cycle - How can WISE help you?



WISE – Implementation Process

WISE – Project File



WISE Land use outputs – used to drive population allocation by CAU

Future Proof "Medium Population Growth" Scenario Oct-2016
Land Use Map - 2051 - North Waikato

