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!! Welcome !!

Land Use Optimisation Workshop



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Your workshop chairperson



Workshop format

1. Introduction of the topic
2. BEAB actions 06
3. Principles
4. Land use overview presentation
5. Ngati Whakaue example
6. Some questions for you to ponder?
7. Brief report back – if time allows



Land use optimisation

Drivers of change: Global

Energy prices and supply
Economic conditions
= increasing competition
Changing lifestyles
Increasing disruption & anxiety
= immigration, population churn

National

Changing lifestyles
Economic conditions
Infrastructure investment lags
RMA application
Multiple owned Maori land

Rotorua's comparative advantages

= Land availability – relatively low density/intensification
= Locally owned resources = Water
= Central location - accessibility

Opportunities: Shifting land use options

R&D – local resource knowledge

Local owner solutions for asset gains

Links to water & recreational resource

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Land use optimisation - action

Economic analysis study of alternative land use options available to land owners in the district by March 07



Principles

- **Optimisation of the resource**
 - Adding value to the triple bottom line
 - Profit/environment/social & cultural
- **Flexibility to look at options**
 - All types – residential to rural

Sustainable Resource Use Goals

- Pure lakes, rivers and erosion safe land.
- land & water resources sustainably developed for commercial purposes (e.g. farming, forestry, commercial tourism) and public amenity use (e.g. public enjoyment, public tourism in DOC estate).
- A prosperous resource based community.
- A prosperous regional community enhanced by that resource based community.
- Acknowledgment of each other, support for each other to the benefit of both.

Strategy for achievement

- Target pure lakes, profitable land uses and a prosperous community altogether, not one at the expense of the other.
- An econo-enviro-socio based approach.
- Wealth creating market solutions wherever possible – poor people and poor nations struggle to achieve sustainable resource use, they can't afford it.
- Leadership and encouragement of people over and above regulation alone.

Things to do to overcome the threats and impediments to change

- **Landowners need to own both the problems and the solutions.**
- **Different sectors of the community need to engage and collaborate rather than fight.**
- **Landowner input into the research effort required.**
- **Pakeha landowners working with Maori land owners.**
- **Innovative thinking about productive and profitable resource use, whatever that may be.**

“Ownership” of the issue of sustainable resource use

- **Resource ownership is local and solutions need to be local – requires local collaboration.**
- **Collaboration must be with the agencies involved as much as with each other.**
- **The main industry players (Meat & Wool NZ, Fonterra, FOMA, FF, major supply corporations, Crop & Food, Hort) should be directly involved at a local level with local owners and local agencies, and at a national level with government**
- **It’s not a segregated problem, with dairy separate from sheep & beef, separate from forestry, and we should not act in silos.**

Politics, Emotion and Principle

- Sound, research-based policies, sustainable, wealth-generating outcomes for healthier, wealthier, happier communities are easy to promote and better for all.
- It's an econo-enviro-socio issue and it needs to be dealt with in that way.
- We need some inspiring and high quality leadership that understands the problems and solutions from both the head and the heart.

Lack of research on solutions

- The bulk of the research has been commissioned and paid for by agencies – not resource owners.
- It has focused on defining the problem.
- Ownership requires focus on profitable solutions.
- Dearth of practical solutions that meet economic tests.
- Hence need for a pan-sector strategy rather than a segregated one.

Biggest barriers to change are in the mind

- Stop thinking “farmer” or “forester” and start thinking sustainable land resource owner/manager
- Stop thinking sheep or dairy farming forever and start thinking sustainable, profitable land use whatever that may be, forever.
- Start thinking pro-actively, innovatively and strategically.

E.g: farming animals

- Sustainable systems for cows
 - Sustainable fertilizer & grazing systems
 - Herd homes for winter period where 80% of problems occur
- New bio-technologies
- Sustainable soil biology systems for sheep & cattle
 - 18-inch top soil and 18-inch grass root zone
 - Total utilization of nutrients
 - Active soil bio-mass – forming a barrier & → zero nutrient loss

E.g: farming trees

- Plantation forestry – short (pinus radiata) & long term (native podocarp) rotations
- Mixed podocarp forest & sheep/cattle topography driven.
- Innovative funding to enable profitability

E.g: farming people

- Amenity trees – indirectly adding value elsewhere so over-all better off – requires innovative funding solutions.
- Innovative subdivision mixed with animal and high value tree production.
- Amenity land use – commercial tourism backdrops.

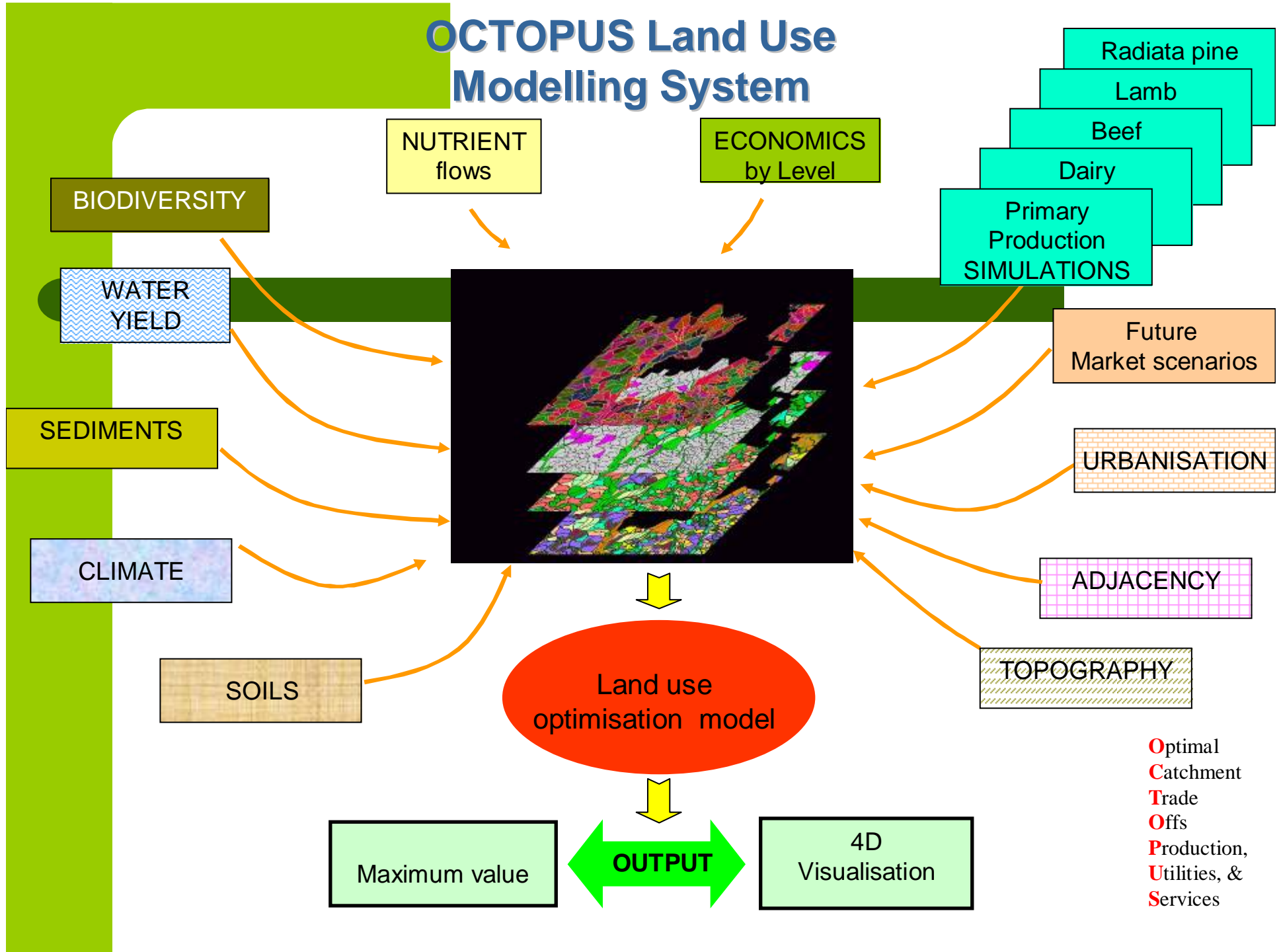
E.G.: farming crops, herbs & extracts

- Crops, including industrial.
- Herbs – food & medicinal.
- Fungi, mushrooms, truffles.
- Roots, flowers etc for essence extraction.
- Manuka for oil extraction.



**Ngati Whakaue Tribal Lands Inc. land
use analysis model – researching with
Scion**

OCTOPUS Land Use Modelling System



Sustainable land use = ultimate goal but will require trade-offs between environment and economic benefits, new ways of thinking, new ways of generating wealth from land resource

- Economic benefits
- Social benefits
- Environmental benefits





Focus groups

- **Form 4 groups & appoint a scribe for each group**
- **Answer these questions:**
 - What challenges & barriers do you see to land use optimisation?
 - What opportunities do you see for land use optimisation?
- **Brief report back if time allows**

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Thanks for your participation

*Please make your way back to the main
forum*