PUBLIC FORUM
PROPOSED MOUNTAIN BIKE TRAILS IN THE BREAK O’DAY REGION
Dr Christine Hosking
Mountain Bike Trail development in Break O’Day’s natural areas: An ecological-social-economic perspective

ECOLOGICAL

- Habitat loss and fragmentation can lead to ‘niche reduction’ for species

- Natural areas are being constantly impacted by human pressures and biodiversity is in decline
Animals big and small can be affected by disturbances to their forest habitats.

Examples of threatened species in our region:

Striped marsh frog: *Threatened*, lives on the ground hiding in dense vegetation.

*Velvet worm*: *Threatened*, occupies old, decaying logs, *found only near Scamander*.

Swift parrot: *Critically endangered*.

Masked Owl: *Endangered*.
Roads, trails, houses, farms etc. create *fragmentation* and *perforations* in the landscape that lead to *edge effects* = bad for native plant and animal species.
Apart from direct injury to wildlife by bikers, mountain biking trails (or any other pathway through natural areas) may indirectly impact on native species.

Many small species are influenced by changes in the vegetation structure that occurs with disturbance at the edge of bushland.

*Steep gullies play a vital role as ‘refugia’ for plants and animals*

*(Burgin and Hardiman, 2012 Australian Zoologist)*
Common environmental impacts associated with recreational use of trails include:

- Vegetation loss and compositional changes
- Soil compaction
- Erosion
- Muddiness
- Degraded water quality
- Disturbance to wildlife

ECOLOGICAL

- Ecological impacts of mountain biking are growing with the popularity of the activity

- Mountain bikes are effective seeds dispersers at landscape scales
  *(Weiss et al, 2016, Journal of Environmental Management)*
Managers of National Forests are faced with many challenges related to the growing use of mountain bikes.

Reported concerns and impacts related to the natural resources (degradation of trails, wilderness), social institutions (safety, education), and social policy (planning, legal claims).

(Chavez, 1996, USDA Forest Service)
Narrow walking tracks can become highly eroded and degraded once used for mountain biking

Leading to user conflict
- Previous walking tracks transformed into mountain bike tracks, excluding other users
- How is mountain biking managed in a way that is fair and equitable to all?
SOCIO-ECONOMIC

Cost to BODC Ratepayers for:

- Trail Care employee (recently advertised)
- Track construction
- Track maintenance Repair of degraded tracks (ongoing; e.g. Blue Tier is currently closed due to degradation)
- Loss of ecosystem services
- Loss of amenity for other natural area users
- Emergency rescues

Mountain Biking in Break O’ Day’s natural areas: A socio - ecological perspective. Christine Hosking
“That moment is me realizing that the possibilities of e-bikes are truly endless”

“At some point there has to be a consensus from the nsmba and the land managers on the state of the union for e-bike usage. It's a big issue...will increased use of e-bikes mean more traffic, meaning more erosion and a huge backlog of trail maintenance”?
What you can learn from a death on Deer Valley’s Holy Roller mountain biking trail

By John Davis The Salt Lake Tribune

First Published Jul 11 2017 09:33AM  •  Last Updated Jul 11 2017 06:36 pm

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<table>
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<tr>
<th><strong>SOCIO-ECONOMIC</strong></th>
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<tbody>
<tr>
<td>❑ <em>Blue Mountain reaches settlement with quadriplegic</em></td>
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<td>“Blue Mountain Resort reached an undisclosed financial settlement with Ian McAdam, a 13-year-old boy who was rendered a quadriplegic after a mountain bike accident at the resort in 2007”.</td>
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<td>❑ <em>City cyclist dies in Ladakh mishap</em></td>
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<td>“Mountain biker Ajay Padval hit his head on a stone at Khardung La and succumbed to his injuries at the civil hospital”</td>
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<td>❑ <em>Riders say obstacles placed on trails</em></td>
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<td>“The club is well aware there are people who do not want us up there and we push very hard to all our members to be courteous, polite and accepting of other trail users”.</td>
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Whistler Mountain Bike Park: a risky, injury-prone experience, study finds. What to do about that?

“An emergency room specialist at the health centre and co-author on the study, said a general rule of thumb is that one in 1,000 skiers are injured, one in 100 snowboarders, and one in 10 downhill cyclists.”


“An Ontario municipality is liable, under the province’s Occupiers’ Liability Act, for injuries that rendered a cyclist a quadriplegic after he fell while riding over a teeter-totter-type obstacle at a mountain bike park, the provincial appeal court has ruled.”

Source: Pinkbike Poll: Mountain Biking Injuries
Apr 2, 2015

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Alternative thinking!

- Pump tracks nearer towns
- Use already-degraded areas such as farms and old quarries
- Utilise fire roads (existing infrastructure)

Source: http://www.world-trail.com/asphalt-pump-tracks/

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Alternative thinking!

Example: NSW Parks and Wildlife accommodate mountain biking in an educational and equitable manner

Mountain pygmy possum

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Alternative thinking!

- Invest in walking-cycle-ways along the highway: existing tourism
- Promote the local history e.g. Derby mine tunnel
- Promote unique bridge of Scamander, e.g. Spiky Bridge

This is a treasure on our doorstep. Let's not destroy it
An open and communicative approach

Break 0’Day Council’s Draft Strategic Plan’s three key objectives:

‘Community’, ‘Economy’ and ‘Environment’
This presentation is in line with these goals....

Council’s Values:
“Teamwork, Open & Honest Communication, Integrity, Respect”

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An open and communicative approach

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<th>In planning the construction of a network of mountain biking tracks in BODC, Council needs to be transparent and:</th>
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<tr>
<td>- Calculate and communicate costs to ratepayers</td>
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<td>- Investigate and determine social costs</td>
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<tr>
<td>- Investigate and determine environmental costs</td>
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<tr>
<td>- Investigate other ways of attracting tourism</td>
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<tr>
<td>- Look at interstate and overseas MTB experience and learn from them</td>
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**THEN**
- Ask the local community how it feels about this

**BEFORE**
- Preparing a mountain biking management plan that takes all the above into account
Let’s not let Break O’Day become another ‘paradox’

Thank you for listening

Photo: Dave Watts