



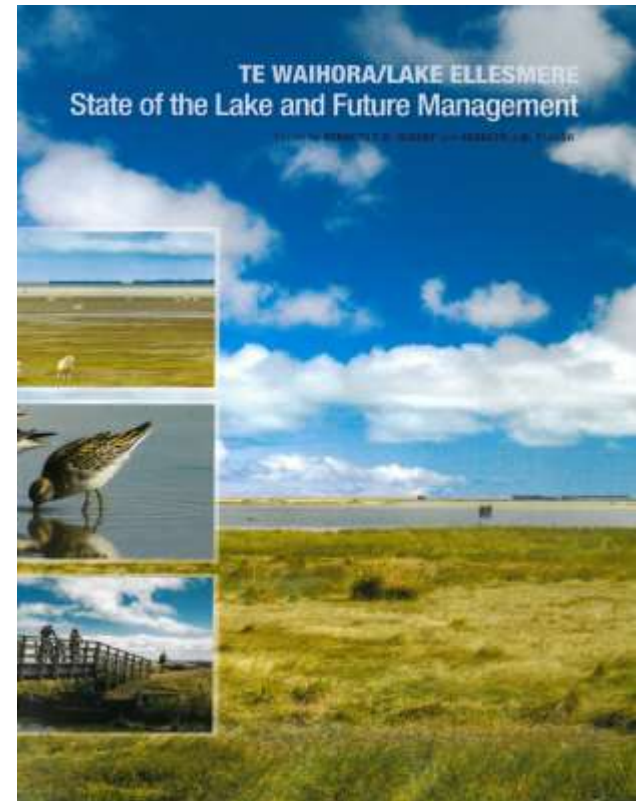
# “Measuring to manage”: State of the lake 2013

LLS IV  
Lincoln University  
7 November 2013

Ken Hughey, Lincoln University  
Ken Taylor, Environment Canterbury

# A “health” report card for Te Waihora 2013

- In 2007
  - We looked back 10-20 years
  - We looked forward to 3 possible futures – a blank canvas
- In 2013
  - We look back 6 years
  - We look forward a generation – an emerging picture



# A “health” report card for Te Waihora 2013

We asked our authors...

- What will success look like?
- What’s the current state?
- Can we see changes over time?
- What else do we need to measure?

... relating to the lake and the people  
using the lake

# Nine topic areas

(same as 2007)

Governance and management

Economy

Land cover & land use

Water quantity & quality

Vegetation

Wildlife

Fish

Recreation

Cultural health and mahinga kai



**We will know when we have achieved success when:**

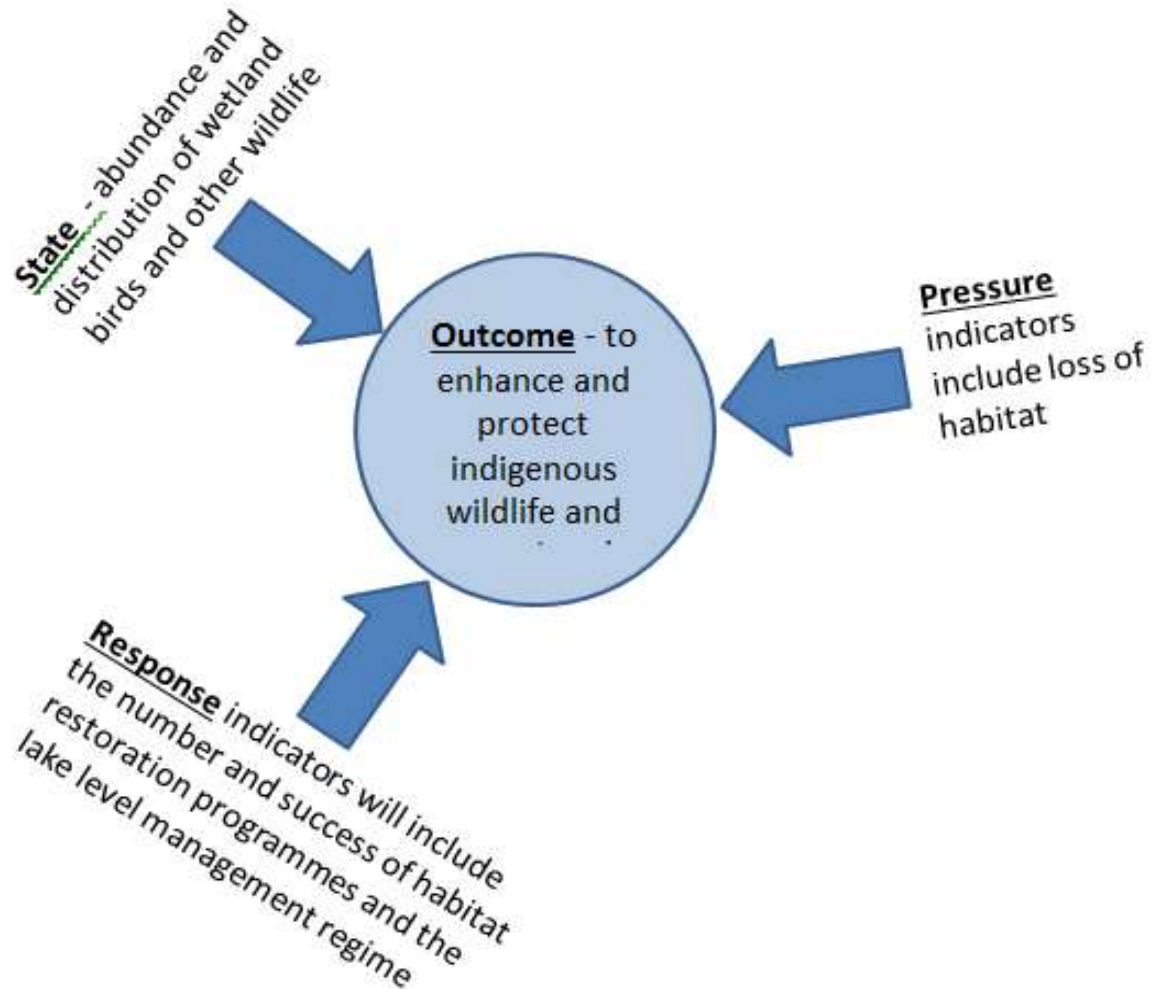
Indigenous wildlife & associated habitats are protected & biodiversity has increased. Pests & predators will be reduced

# Making sense of the data: why and how we use indicators

- Indicator – a measure of
  - change relating to a desired outcome
  - Influencing factor(s)
- Indicators commonly grouped into:
  - Pressure
  - State
  - Response
  - (driving forces, natural capital, outcomes...)



# Pressure state response indicators: Wildlife



So, that is the approach ...

Now lets see what we have found?