

Understanding Strategic Management Prospects (SMP) – Bar Plots

Strategic Management Prospects (SMP) bar plots show the relative contribution that different actions make to the prospects for species and taxon groups. Two of the bar plots demonstrate benefit (the potential total benefit for each action and also the potential benefit available for the cost-effective actions). The third bar plot shows the benefit:cost ratio of each action.

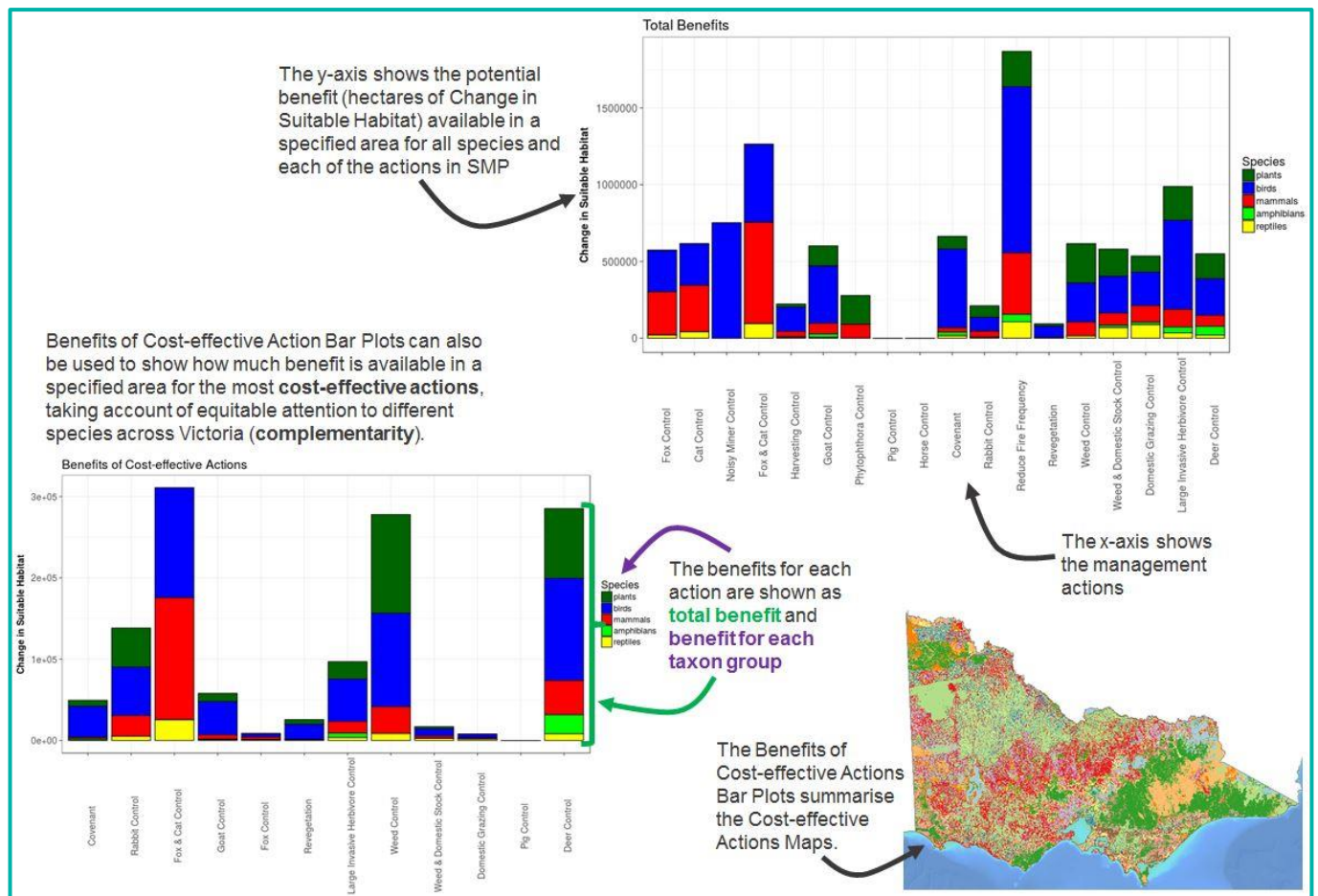
Some management actions are not included in the SMP analysis because at this stage they are difficult to cost and/or have legal or social ramifications that are beyond the scope of SMP. Only the actions that are costed in the SMP analysis appear in the cost-effective action bar plots and benefit-cost bar plots.

Benefit Bar Plots

The x-axis shows each of the modelled management actions, and the y-axis shows the benefit, measured as hectares of Change in Suitable Habitat (CSH), available for each of the actions (in the polygon used). The y-axis shows both the total benefit to all species, and how much each action benefits each taxonomic group.

The **Total Benefit Bar Plot** shows how much potential benefit could be gained (for all species in the polygon) if all actions were undertaken. The CSH shown in this bar plot assumes that each action is undertaken everywhere the corresponding threat is present within the polygon. To see how much benefit could be gained by individual species, look at the SMP Total Benefits Table (refer to *Understanding SMP Total Benefits Tables* for more information - available at <https://www.environment.vic.gov.au/biodiversity/natureprint>).

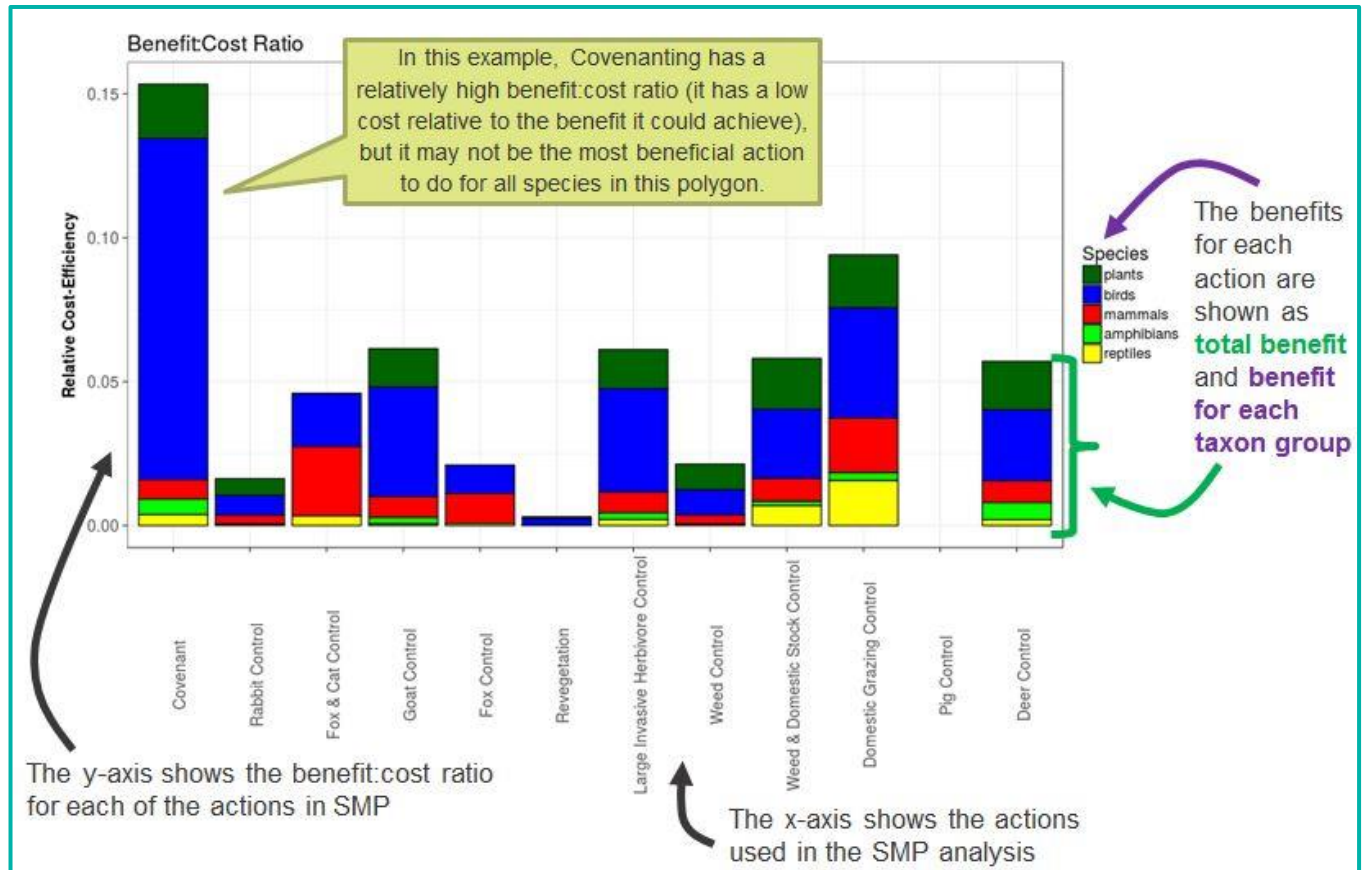
The **Benefits of Cost-effective Actions Bar Plot** shows the potential CSH from the cost-effective actions that collectively benefit as many species as possible. The cost-effective actions bar plots summarise the SMP Cost-effective Actions Maps and the CSH shown assumes that the actions are undertaken in the locations specified.



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Benefit-cost Bar Plot

The **Benefit-cost Bar Plot** demonstrates how cost influences the cost-effective actions for a defined area (polygon). The x-axis of the benefit-cost bar plot shows the costed actions in the SMP analysis, and the y-axis shows the benefit:cost ratio, enabling comparison of the relative cost-efficiency of each costed action in the polygon. The benefit-cost bar plot identifies the actions most likely to provide greater benefit per dollar spent for all species (and each taxon group) in the polygon. The relative cost-efficiency (or benefit-cost) is calculated for each action as a ratio of a species' probability of persistence per unit cost, so the y-axis of the benefit-cost bar plot does not relate to the potential geographic area that an action will be undertaken in.



For more information about Strategic Management Prospects visit <https://www.environment.vic.gov.au/biodiversity/natureprint>.

To view SMP products go to <https://naturekit.biodiversity.vic.gov.au>.

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