

# Session 4

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In this session we are using the prioritizr package to create a set of conservation scenarios for protecting the future distribution of koalas in the SEQ region.

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## Resources

Step-by-step walkthrough can be found here <https://docs.google.com/document/d/15le0kx3n-C6hevoJ7zWs-kxWQd1YlW6joY3pRtJU4Ds/edit?tab=t.0#heading=h.9tqqmwld3mgr>.

[Download a PDF of the walkthrough](#)

## Optimiser installation

The prioritizr package requires that you download and install an optimiser - a commonly used one is Gurobi. You can obtain a free academic license for Gurobi here: <https://www.gurobi.com/features/academic-named-user-license/>.

Here is a guide to install Gurobi for R: <https://docs.gurobi.com/projects/optimizer/en/current/reference/r/setup.html>.

Alternatively, if you cannot obtain an academic licence there are other solvers available <https://prioritizr.net/reference/solvers.html>. We recommend installing the CBC solver: <https://github.com/dirkschumacher/rcbc>.

If you have issues with installing a solver, please let us know.