The TSR Hub is a serious investment by the Australian Government in the science of saving threatened species, but it’s not where the NESP investment ends. The TSR Hub is one of six National Environmental Science Programme hubs and each is making its own important contribution to the national effort to recover our threatened species. The TSR Hub is always keen to acknowledge our many collaborators across our broad suite of projects, however, with this editorial I’d like to look beyond our own hub and highlight the good work being done on threatened species by our sister hubs.

The Clean Air and Urban Landscapes (CAUL) Hub is focusing on the sustainability and liveability of urban environments. Biodiversity conservation (including threatened species management) lies at the centre of many of its projects and TSR and CAUL are collaborating on several projects including studies of urban populations of frogs and flying foxes. Other research of the CAUL Hub includes understanding urban residents’ interactions with nature and developing protocols for reintroducing species into cities.

http://www.nespurban.edu.au/

The Earth Systems and Climate Change Hub is improving our understanding of climate processes and how they are changing. Changes in our climate – including increasing temperatures, changes in rainfall, more extreme rainfall and increased fire-weather risk – could all impact on threatened species and pose new threats to other species. Accessible climate change information will improve our understanding of these possible impacts, and inform threatened species policy and management decisions.


The Marine Biodiversity Hub is developing improved and innovative approaches that increase the options available to managers and stakeholders to protect and recover priority marine species. Approaches include seascape analysis to identify priorities, national threat-based analyses and priorities for multiple species, and use of cutting-edge genetic techniques and telemetry to estimate population size and connectivity of rare and difficult to sample species. Conservation of sharks is a dominant theme of the Hub’s research. Other focal species include spotted handfish, southern right whales and sea snakes. The Hub is increasingly engaging in restoration of compromised habitats, especially shellfish reefs and saltmarshes.

https://www.nespmarine.edu.au/

The Northern Australia Environmental Resources Hub is developing knowledge to underpin improved sustainable planning, management and policy in northern Australia. Within this they are identifying high-priority areas for threatened species and ecosystems to better target threat abatement and species recovery investments; and are trialing practical species recovery techniques in Kakadu National Park. TSR is working with the Northern Hub on several research topics including management of feral animals and the design of monitoring programs.

http://www.nespnorthern.edu.au/

The TSR Hub is one of six National Environmental Science Programme hubs and each is making its own important contribution to the national effort to recover our threatened species.

As you can see, the science of threatened species cuts across multiple sectors and relates to all dimensions of Australian life. While the TSR Hub has a tighter focus on the theme of ‘threatened species’, protecting our endangered animals and plants is a common cause whether we are working in the space of our cities, regional Australia, the marine realm or the atmosphere.

Which raises a key insight we all should keep in mind; the key to the successful recovery of Australia’s threatened species does not lie in only one research centre or network. Rather, it depends upon multiple approaches engaging a variety of different skills and insights.

Australia has an enormous challenge ahead in recovering its many threatened species. NESP science in all its forms and places give us a much better chance of meeting that challenge.

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http://www.nespthreatenedspecies.edu.au/