

## Publication

## Improving invasive species management by integrating priorities and contributions of scientists and decision makers

**JournalArticle (Originalarbeit in einer wissenschaftlichen Zeitschrift)****ID** 3343938**Author(s)** N'Guyen, Anouk; Hirsch, Philipp; Adrian-Kalchhauser, Irene; Burkhardt-Holm, Patricia**Author(s) at UniBasel** [Holm, Patricia](#) ; [Hirsch, Philipp](#) ; [Adrian-Kalchhauser, Irene](#) ; [N'Guyen van Chinh, Anouk](#) ; [Gogel, Christine](#) ;**Year** 2016**Title** Improving invasive species management by integrating priorities and contributions of scientists and decision makers**Journal** Ambio**Volume** 45**Number** 3**Pages / Article-Number** 280-9**Keywords** Conservation managers; Decision makers; Invasive species; Round goby; Strong objectivity; Transdisciplinary**Mesh terms** Animals; Communication; Conservation of Natural Resources; Decision Making; Fishes; Introduced Species; Models, Theoretical; Research; Science

Managing invasive species is a major challenge for society. In the case of newly established invaders, rapid action is key for a successful management. Here, we develop, describe and recommend a three-step transdisciplinary process (the "butterfly model") to rapidly initiate action for invasion management. In the framing of a case study, we present results from the first of these steps: assessing priorities and contributions of both scientists and decision makers. Both scientists and decision makers prioritise research on prevention. The available scientific knowledge contributions, however, are publications on impacts rather than prevention of the invasive species. The contribution of scientific knowledge does thus not reflect scientists' perception of what is essentially needed. We argue that a more objective assessment and transparent communication of not only decision makers' but also scientists' priorities is an essential basis for a successful cooperation. Our three-step model can help achieve objectivity via transdisciplinary communication.

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