Box 1. Summary of recommendations for guiding species conservation efforts

1. *Assessing Extinction Risk beyond the Red List*

   - Conduct spatially-explicit assessments at the population level [1, 2, 3]
   - Develop integrative approaches of multiple relevant factors [4]
   - Use modern statistical modeling frameworks [5]
   - Include multiple dimensions of biodiversity [6] such as functional traits [7], evolutionary distinctiveness [8, 9] and current genetic diversity [10]
   - Incorporate climate change impacts [11, 12, 13.]

2. *Assessment Process*

   - Support regional initiatives for extinction risk assessments [14]
   - Communicate with researchers and partner networks [15, 16]
   - Increase equal collaboration with local and regional experts [17]
   - Enhance integration and coordination among conservation stakeholders [18]

3. *Setting Conservation Priorities*

   - Consider species' ecological functions [19] and relative ecological importance [20]
   - Include social considerations such as culturally important species [21]
   - Define frameworks for resource allocation and logistical and financial trade-offs [22, 23]
   - Evaluate the potential for success of the prioritizations [24]
   - Recognize and make explicit ethical values to inform priority setting through community dialogue and co-produced indicators [25]

4. *Decision-making*

   - Root decision-making in local contexts [26]
   - Incorporate and center the expertise, voices, and perspectives of diverse conservationists, indigenous peoples, and local communities in decision-making [27]
   - Recognize local knowledge, both traditional and scientific [28]
   - Balance priorities between conservation measures, scientific research, and monitoring [29]
   - Increase collaboration, synergies [30], and bottom-up approaches [31]

[1] Fremout et al. 2020 [2] Ceccarelli et al. 2022 [3] Gaisberger et al. 2022 [4] Button & Borzée 2021 [5] Pollock et al. 2020, [6] Brum et al. 2017, [7] Griffith et al. 2023 [8] Isaac et al. 2007 [9] Gumbs et al. 2023 [10] Schmidt et al. 2023 [11] Akçakaya et al. 2006; [12] Trull et al. 2017 [13] Peng et al. 2023 [14] Bachman et al. 2019 [15] Böhm et al. 2022 [16] Cazalis et al. 2022 [17] Armenteras 2021 [18] Echeverri et al. 2023 [19] Brodie et al. 2018 [20] Natsukawa & Sergio 2022 [21] Reyes-García et al. 2023 [22] Salzer & Salafsky 2006 [23] Wiedenfeld et al. 2021 [24] Joseph et al. 2009 [25] Muhl et al., 2022 [26] Chaplin-Kramer et al. 2022 [27] Ocampo-Ariza et al. 2023 [28] Braga-Pereira et al. 2022 [29] Buxton et al. 2020 [30] Oberhauser et al. 2017 [31] Wyborn & Evans 2021