Info-gap Theory and Its Applications in Ecology and Biological Conservation

Yakov Ben-Haim Yitzhak Moda'i Chair in Technology and Economics Technion—Israel Institute of Technology http://info-gap.com http://www.technion.ac.il/yakov

19 March 2010, Dept. Biological and Environmental Sciences, University of Helsinki

Info-gap theory is a method for analysis, planning, decision and design under uncertainty. The future may differ from the past, so our models may err in ways we cannot know. Our data may lack evidence about surprises: catastrophes or windfalls. Our scientific and technical understanding may be incomplete. These are info-gaps: incomplete understanding of the system being managed. Info-gap theory provides decision-support tools for modelling and managing severe uncertainty. After outlining the info-gap methodology, we explore several applications to ecology and biological conservation.