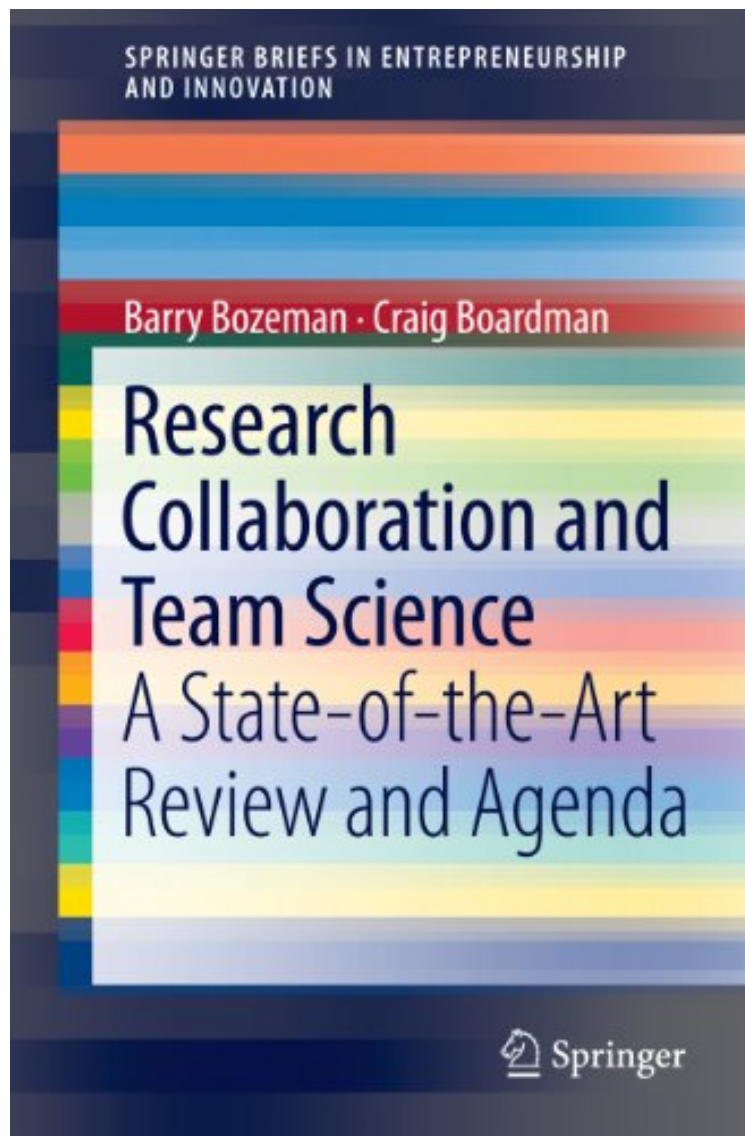


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Research Collaboration and Team Science: A State-of-the-Art Review and Agenda (SpringerBriefs in Entrepreneurship and Innovation)

Barry Bozeman, Craig Boardman
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Agenda (SpringerBriefs in Entrepreneurship and Innovation):

Today in most scientific and technical fields more than 90% of research studies and publications are collaborative, often resulting in high-impact research and development of commercial applications, as reflected in patents. Nowadays in many areas of science, collaboration is not a preference but, literally, a work prerequisite. The purpose of this book is to review and critique the burgeoning scholarship on research collaboration. The authors seek to identify gaps in theory and research and identify the ways in which existing research can be used to improve public policy for collaboration and to improve project-level management of collaborations using Scientific and Technical Human Capital (STHC) theory as a framework. Broadly speaking, STHC is the sum of scientific and technical and social knowledge, skills and resources embodied in a particular individual. It is both human capital endowments, such as formal education and training and social relations and network ties that bind scientists and the users of science together. STHC includes the human capital which is the unique set of resources the individual brings to his or her own work and to collaborative efforts. Generally, human capital models have developed separately from social capital models, but in the practice of science and the career growth of scientists, the two are not easily disentangled. Using a multi-factor model, the book explores various factors affecting collaboration outcomes, with particular attention on institutional factors such as industry-university relations and the rise of large-scale university research centers.

About the Author Barry Bozeman is Arizona Centennial Professor of Technology Policy and Public Management, Arizona State University. His research focuses on science and technology policy and its management. He is the author of several publications on these topics. Bozeman previously served as Ander Crenshaw Chair at University of Georgia and Regents' Professor at Georgia Tech. He was founding director of the Maxwell School's Center for Technology and Information Policy at Syracuse University. He is a fellow of both the American Association for the Advancement of Science and the National Academy of Public Administration. Craig Boardman is Associate Professor in the John Glenn School of Public Affairs, The Ohio State University and Associate Director of the Battelle Center for Science Technology Policy, Columbus, Ohio. His research focuses on science and technology policy and organizational theory. His recent work in this area includes an edited volume on the operations and performance of university-industry research centers entitled *Cooperative Research Centers and Technical Innovation: Government Policies, Industry Strategies and Organizational Dynamics* (Springer 2013).