ESRI presents the World’s first Atlas of Science.

Using the most comprehensive, highest quality datasets available today and advanced data analysis and visualization techniques, this atlas comprises 260 pages with 322 large-scale maps of science, in full-page charts that explore the anatomy and dynamics of science together with the history and future of science mapping, on full color images including images of the map makers, ex. graphs, and ex. tables.

The expository text provides an overview of 26 chapters by more than 250 scholars with extensive expertise in bibliometrics, scientometrics, econometrics, informetrics, information science, communication science, history of science, social science, internet research, physics, and related areas. It is one of a page by page basis and alphabetically, ex. citation references, ex. image credits, ex. data credits, and ex. software credits. The atlas includes 26 unique chapters and the subject index 36 terms.

The first chapter of the atlas features 25 large maps and 40 new diagrams depicting the growth and dynamics of our collective scholarly knowledge. The second chapter shows a 3-D wide comprehensive interior of interactive data. Analysis, visualization, tools, educational models, and book contributions that help advance the state of the art.

The third chapter reviews major techniques used to map science on a micro, macro, or even scale in a temporal, geospatial, semantic, or network failure. Chapter 4 presents a visual feast of maps of science, their stories, and biographies of their makers. The future of science maps is presented in chapter 5.

The Atlas of Science is published with the highest production quality and is the most accurate and most thorough volume of its kind. It was over two years in the making and contains a major collaboration between ESRI and Kay Börner, Director of the Cyberinfrastructure for Network Science Center at Indiana University.

Kathy Börner is an Associate Professor of Information Science in the School of Library and Information Science, Adjunct Associate Professor in the School of Informatics, Core Faculty of Cognitive Science, Research Affiliate of the Bioinformatics Institute, Fellow of the Center for Research in Learning and Technology, Member of the Advanced Visualization Laboratory, and Founding Director of the Cyberinfrastructure for Network Science Center at Indiana University. She is the author of the Atlas of Science. Mapping Science exhibit, http://scinmap.org.

Her research focuses on the development of data analysis and visualization techniques that inform scientists, decision makers, and managers. She is primarily interested in the use of the era of information and science to shape the future of network science, informetrics, and visualization of data to support science, collaboration, and cooperation.

She has received many awards and grants, including Outstanding Junior Faculty Award, Perserverance Technology Laboratories Fellowship, SRC Fellow, NSF CAREER, and Testimony Teaching Award. She is currently PI on 2 Go-Pi funded research: Collaborative Research, Social Networking Tools to Enable Collaborations in the Tobacco Surveillance, Epidemiology, and Evolution Network (SNAP), Mapping the Structure and Evolution of Knowledge (SNAP), and Mapping Knowledge Domains (SNP), Mapping Indiana’s Intellectual Space (IS1st Century Grant, Network Workbench: A Large-Scale Network Analysis, Modeling and Visualization Toolkit for Biomedical, Social Science and Physics Research [SNF], ENABLE: Learning through Associations in a Grid-based Biomedicines Digital Library [NSF]). For more information on her research agenda, teaching, and other activities, visit http://kba.indiana.edu/