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Nota di contenuto	Innovation in open science, society and policy : setting the agenda for citizen science / Susanne Hecker, Muki Haklay, Anne Bowser, Zen Makuch, Johannes Vogel and Aletta Bonn -- Part I. Innovation in citizen science : setting the scene. Ten principles of citizen science / Lucy Danielle Robinson, Jade Lauren Cawthray, Sarah Elizabeth West, Aletta Bonn and Janice Ansine ; Scientific impacts and innovations of citizen science / Jennifer L. Shirk and Rick Bonney ; Participatory citizen science / Muki Haklay ; Technology infrastructure for citizen science / Peter Brenton, Stephanie von Gavel, Ella Vogel and Marie-Elise Lecoq ; Evaluating citizen science : Towards an open framework / Barbara Kieslinger, Teresa Schafer, Florian Heigl, Daniel Dorler, Anett Richter and Aletta Bonn -- Part II. Innovation in science with and for society. Watching or being watched : Enhancing productive discussion between

the citizen sciences, the social sciences, and the humanities / Dana Mahr, Claudia Gobel, Alan Irwin and Katrin Vohland ; The value of indigenous and local knowledge as citizen science / Finn Danielsen, Neil D. Burgess, Indiana Coronado, Martin Enghoff, Sune Holt, Per M. Jensen, Michael K. Poulsen and Ricardo M. Rueda ; Citizen engagement and collective intelligence for participatory digital social innovation / Jasminko Novak, Mathias Becker, Francois Grey and Rosy Mondardini ; Creative collaboration in citizen science and the evolution of ThinkCamps / Margaret Gold and Erinma Ochu ; Integrating citizen science into university / Daniel Wyler and Muki Haklay -- Part IIA. Case studies. Citizen science on the Chinese mainland / Chunming Li ; The European citizen science landscape : a snapshot / Susanne Hecker, Lisa Garbe and Aletta Bonn ; Stakeholder engagement in water quality research : A case study based on the Citclops and MONOCLE projects / Luigi Ceccaroni and Jaume Piera ; Global mosquito alert / John R.B. Palmer, Martin Brocklehurst, Elizabeth Tyson, Anne Bowser, Eleonore Pauwels and Frederic Bartumeus -- Part III. Innovation at the science-policy interface. Citizen science for policy formulation and implementation / Susana Nascimento, Jose Miguel Rubio Iglesias, Roger Owen, Sven Schade and Lea Shanley ; Citizen science and Responsible Research and Innovation / Melanie Smallman ; Conservation outcomes of citizen science / Heidi L. Ballard, Tina B. Phillips and Lucy Robinson ; Capacity building in citizen science / Anett Richter, Daniel Dorler, Susanne Hecker, Florian Heigl, Lisa Pettibone, Fermin Serrano Sanz, Katrin Vohland and Aletta Bonn ; Citizen science in environmental protection agencies / Roger P. Owen and Alison J. Parker -- Part IV. Innovation in technology and environmental monitoring. Citizen science technologies and new opportunities for participation / Suvodeep Mazumdar, Luigi Ceccaroni, Jaume Piera, Franz Holker, Arne J. Berre, Robert Arlinghaus and Anne Bowser ; Maximising the impact and reuse of citizen science data / Jamie Williams, Colin Chapman, Didier Guy Leibovici, Gregoire Lois, Andreas Matheus, Alessandro Oggioni, Sven Schade, Linda See and Paul Pieter Lodewijk van Genuchten ; Enhancing national environmental monitoring through local citizen science / Hester Volten, Jeroen Devilee, Arnoud Apituley, Linda Carton, Michel Grothe, Christoph Keller, Frank Kresin, Anne Land-Zandstra, Erik Noordijk, Edith van Putten, Jeroen Rietjens, Frans Snik, Erik Tielemans, Jan Vonk, Marita Voogt and Joost Wesseling ; Citizen science to monitor light pollution : a useful tool for studying human impacts on the environment / Sibylle Schroer, Christopher C.M. Kyba, Roy van Grunsven, Irene Celino, Oscar Corcho and Franz Holker -- Part V. Innovation in science communication and education. Science for everybody? Bridging the socio-economic gap in urban biodiversity monitoring / Taru Peltola and Isabelle Arpin ; Learning and developing science capital through citizen science / Richard Edwards, Sarah Kirn, Thomas Hillman, Laure Kloetzer, Katherine Mathieson, Diarmuid McDonnell and Tina Phillips ; Children and citizen science / Karen E. Makuch and Miriam R. Aczel ; Turning students into citizen scientists / John Harlin, Laure Kloetzer, Dan Patton, Chris Leonhard and Leysin American School high school students ; Citizen science and the role of natural history museums / Andrea Sforzi, John Tweddle, Johannes Vogel, Gregoire Lois, Wolfgang Wagele, Poppy Lakeman-Fraser, Zen Makuch and Katrin Vohland ; Stories can change the world : citizen science communication in practice / Susanne Hecker, Monique Luckas, Miriam Brandt, Heidy Kikillus, Ilona Marenbach, Bernard Schiele, Andrea Sieber, Arnold J.H. van Vliet, Ulrich Walz and Wolfgang Wende -- Conclusions. Citizen science to foster innovation in open science, society and policy / Aletta Bonn, Susanne Hecker, Anne Bowser, Zen

Sommario/riassunto

Citizen science, the active participation of the public in scientific research projects, is a rapidly expanding field in open science and open innovation. It provides an integrated model of public knowledge production and engagement with science. As a growing worldwide phenomenon, it is invigorated by evolving new technologies that connect people easily and effectively with the scientific community. Catalysed by citizens' wishes to be actively involved in scientific processes, as a result of recent societal trends, it also offers contributions to the rise in tertiary education. In addition, citizen science provides a valuable tool for citizens to play a more active role in sustainable development. This book identifies and explains the role of citizen science within innovation in science and society, and as a vibrant and productive science-policy interface. The scope of this volume is global, geared towards identifying solutions and lessons to be applied across science, practice and policy. The chapters consider the role of citizen science in the context of the wider agenda of open science and open innovation, and discuss progress towards responsible research and innovation, two of the most critical aspects of science today.
