

# BEYOND PATENTS: Assessing the Value and Impact of Research Investments

Government-University-Industry Research Roundtable  
June 27-28, 2017 | National Academy of Sciences Building, Washington, DC 20418

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*Harvard Business Review*, March 2017

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*Harvard Business Review*, May 2012

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Cornell, INSEAD, WIPO

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Petra Moser  
*Annual Review of Economics*, Volume 8, November 2016

[The Applied Value of Public Investments in Biomedical Research](#)

Danielle Li, Pierre Azoulay, Bhaven Sampat  
*Science*, April 2017

[Science of Science and Innovation Policy](#) (SciSIP)

National Science Foundation

[The Leiden Manifesto for Research Metrics](#)

Diana Hicks, Paul Wouters, Ludo Waltman, Sarah de Rijcke, Ismael Rafols  
*Nature*, April 2015  
<http://www.leidenmanifesto.org/>

[Advancing Concepts and Models for Measuring Innovation: Proceedings of a Workshop](#)

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[Losing Patents](#)

Mark Peplow  
*Chemistry World*, April 2017

[The EU 2020 Innovation Indicator: A Step Forward in Measuring Innovation Outputs and Outcomes?](#)

Jürgen Janger, Torben Schubert, Petra Andries, Christian Rammer, Machteld Hoskens  
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[How to Measure the Value of an Innovation Initiative: Is It Really Worth the Investment?](#)

Randal Moss  
*Industry Week*, September 2016

[University-Industry R&D Linkage Metrics: Validity and Applicability in World University Rankings](#)

Robert Tijssen, Alfredo Yegros-Yegros, Jos Winnink  
*Scientometrics*, August 2016

[The State of American Entrepreneurship: New Estimates of the Quantity and Quality of Entrepreneurship for 15 US States, 1988-2014](#)

Jorge Guzman and Scott Stern, MIT  
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Ashkan Ebadi and Andrea Schiffauerova  
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Luke Georghiou  
Research, Innovation, and Science Policy Experts (RISE), Directorate-General for Research and Innovation  
European Commission, June 2015

[Federally Supported Innovations: 22 Examples of Major Technology Advances That Stem from Federal Research Support](#)

Peter Singer  
Information Technology and Innovation Foundation,  
February 2014

[The Production of Scientific Ideas](#)

Pierre Azoulay and Joshua Graff-Zivin  
*NBER Reporter*, 2012 Number 3

[Science Economics: What Science Is Really Worth](#)

Colin Macilwain  
*Nature*, June 2010

[Innovation Measurement: Tracking the State of Innovation in the American Economy](#)

Advisory Committee on Measuring Innovation in the 21st Century Economy, January 2008

[Are Patents the Measure of Innovation?](#)

Jena Mcgregor  
*Bloomberg*, May 2007