



QUICK TAKE: Value Added Services Becoming a Strategic Research Partner

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Presentation Outline




- Overview of NIST and the Information Services Office (ISO), aka the NIST Research Library
- Our evolution as Strategic Research Partners
- Adding value to ISO products and services
- Moving beyond traditional library services
- Future projects



Note: The identification of any commercial product or trade name does not imply endorsement or recommendation by the National Institute of Standards and Technology.

National Institute of Standards and Technology




- Non-regulatory federal agency made up of about 3,000 science and technology researchers
 - NIST promotes U.S. innovation and industrial competitiveness by advancing measurement science, standards, and technology
 - The Information Services Office (ISO) supports and enhances research activities of the NIST scientific community through a comprehensive program of knowledge management
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NIST Research Library / Information Services Office



Our Evolution as Strategic Research Partners

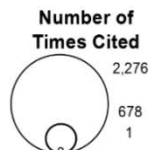
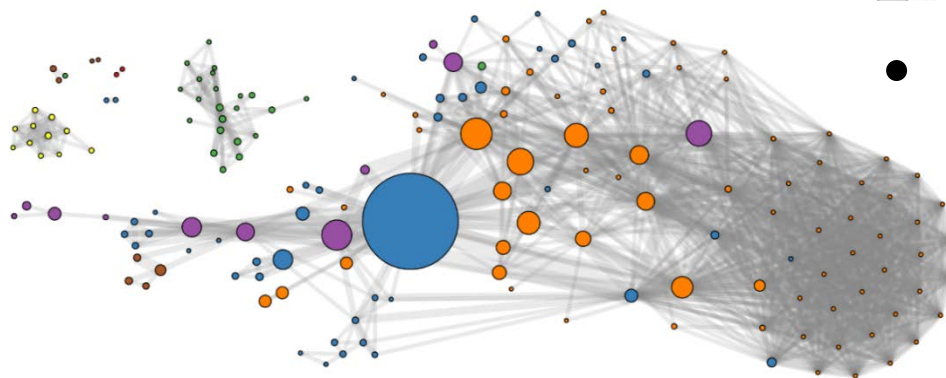
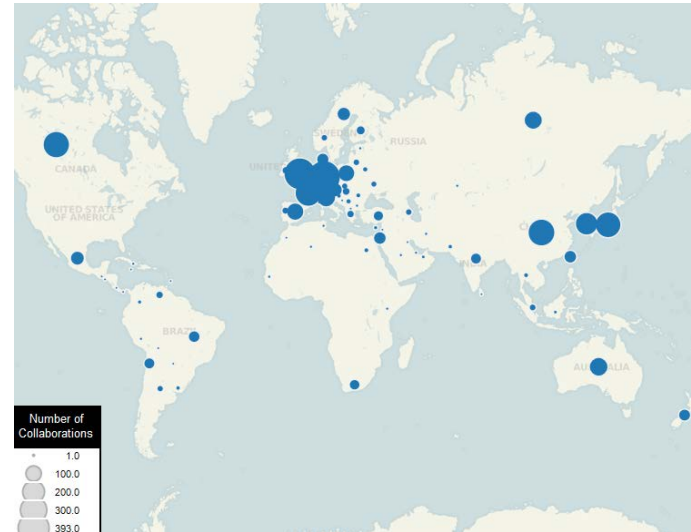


- ISO's Lab Liaison Program
 - Began as a targeted library outreach program in 1997 focusing on bringing library expertise closer to the researcher in the lab
 - Evolved into today's program of collaboration between librarians and researchers working together as "Strategic Research Partners" to help increase NIST's reach and impact
 - Today's "Lab Librarians"
 - Market Library resources and services
 - Help increase the visibility of NIST research results and publications
 - Assess the impact of NIST's research and help determine new directions
 - And much more!
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Strategic Research Partners

Assessing the Impact of NIST's Research

- Identifying and assessing collaborations
 - Organization
 - Country
 - Author



- Applying Innovative Metrics
 - Forensics@NIST Symposium
 - Tools Used:
 - Web of Science
 - Sci²
 - Gephi
 - Tableau

Adding Value to Literature Reviews

- Report format includes Introduction, Methodology, and Findings
- Answers questions about which authors and organizations publish most frequently in the field, what are the most popular venues, which papers are having the greatest impact, etc.
- Review process ensures quality, consistency, and Library branding



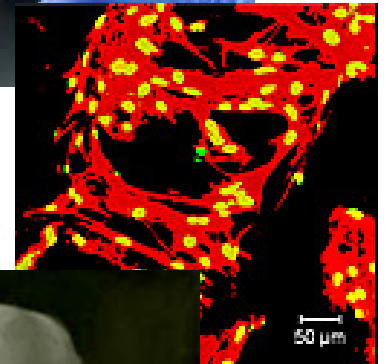
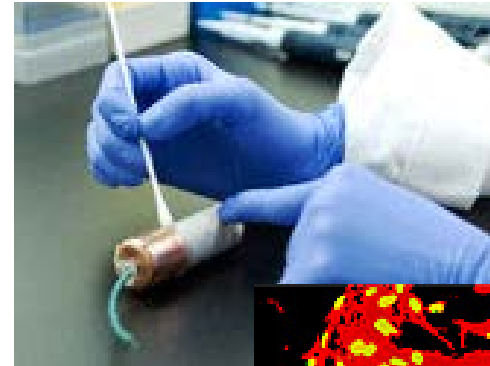
Adding Value to H-index Requests

- Conduct comprehensive publications analysis
- Report format includes Introduction, Methodology, Findings, and Conclusions / Recommendations
- Includes tables, graphs, citation maps, and other data visualizations
- Provides data on number of publications, total times cited, h-index, most highly cited papers, etc.
- Review process ensures quality, consistency, and Library branding



Past Research for NIST's Material Measurement Laboratory (MML)

- How are microbial outbreaks detected and confirmed?
- What are the growth trends in synthetic biology?
- What has been the impact of NIST Standard Reference Data (SRD)?
- What NIST Library and Museum materials can be shared online to celebrate 100 years of Polymers and Metallurgy Division accomplishments?




Collaboration with the Office of Data and Informatics (ODI)

- Materials Genome Initiative (MGI) Code Catalog
- MML Data Management Plan Tool
- Curation of metadata records created for the Enterprise Data Inventory (EDI)






Current MML Requests

- How do I measure the impact of a researcher's work beyond publications?
 - Where can MML focus its research efforts to have the most impact on U.S. industry and society?
 - What is the impact of “The Protein Data Bank” paper published in *Nucleic Acids Research* (2000), and how can it be measured?
 - Can the Library help create/review a metadata schema for the Materials Science Data Registry?
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Future/Ongoing Projects

- NIST index to assess impact beyond publications
 - Altmetrics – downloads, social media, awards, etc.
 - Identifying “white space” opportunities
 - Where will NIST have the most impact?
 - Data visualization tools / analysis
 - Data visualization wall
 - Collaborations with NIST researchers on projects, posters, papers, and more
 - Protein Data Bank (PDB) study
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Questions?

More ISO presentations available at:

<http://www.nist.gov/nvl>

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