SCHOLARLY COMMUNICATIONS AND IDENTITY, COLLABORATION, DISCOVERY AND ASSESSMENT

September 2009 Development Update

Reynold Guida
Director, Product Development
THE ECOSYSTEM CONTINUES TO CHANGE …

**Research Managed as a Business**
- Heightened competition among researchers and their institutions to win R&D funding
- Critical business and science decisions dependent on ability to validate expertise and measure impact in a consistent manner

**Shift of Focus from Document to Individual**
- Scientific challenges require larger research teams, more specialization, and cross geography collaboration
- Need to unambiguously identify and rank experts, skills and contributions

**Emergence of True Digital Scholarship**
- Data rival publications as drivers of new research and discovery
- Halo of data around researchers challenges models for attribution and communication of science

**Ascendancy of Asia Pacific**
- AP growth in research publications leads all regions globally
- Creating localized solutions in key AP countries will expand addressable market

---

**Grant Application Success Rates**

<table>
<thead>
<tr>
<th>Year</th>
<th>% Awarded</th>
<th>Grant Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>1999</td>
<td>30.0%</td>
<td>20,000</td>
</tr>
<tr>
<td>2001</td>
<td>40.0%</td>
<td>30,000</td>
</tr>
<tr>
<td>2003</td>
<td>50.0%</td>
<td>40,000</td>
</tr>
<tr>
<td>2005</td>
<td>60.0%</td>
<td>60,000</td>
</tr>
<tr>
<td>2007</td>
<td>80.0%</td>
<td>80,000</td>
</tr>
</tbody>
</table>

**Increased Collaboration**

<table>
<thead>
<tr>
<th>Year</th>
<th>% of Single Author Papers</th>
<th>% of Papers with 5+ Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>1983</td>
<td>10.0%</td>
<td>0.0%</td>
</tr>
<tr>
<td>1987</td>
<td>20.0%</td>
<td>10.0%</td>
</tr>
<tr>
<td>1991</td>
<td>30.0%</td>
<td>20.0%</td>
</tr>
<tr>
<td>1995</td>
<td>40.0%</td>
<td>30.0%</td>
</tr>
<tr>
<td>1999</td>
<td>50.0%</td>
<td>40.0%</td>
</tr>
<tr>
<td>2003</td>
<td>60.0%</td>
<td>50.0%</td>
</tr>
<tr>
<td>2007</td>
<td>70.0%</td>
<td>60.0%</td>
</tr>
</tbody>
</table>

**Growth of Digital Information**

<table>
<thead>
<tr>
<th>Year</th>
<th>Growth of Digital Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>2000</td>
<td>0%</td>
</tr>
<tr>
<td>2005</td>
<td>5%</td>
</tr>
<tr>
<td>2010</td>
<td>10%</td>
</tr>
<tr>
<td>2015</td>
<td>15%</td>
</tr>
</tbody>
</table>

**Research Output Growth**

  - China: 17%
  - Korea: 11%
  - India: 7%
  - Aus: 4%
  - UK: 2%
  - US: 2%
  - Japan: <1%

Agenda

Identity & Collaboration

Current Web of Knowledge Enhancements – tools, services, and content

2009 Journal Citation Reports enhancements

Future Web of Knowledge development
IDENTITY AND COLLABORATION

Researcher ID
EndNote
AMBIGUITY AND ATTRIBUTION

• Individual - Name ambiguity affects
  – Research accuracy & quality
  – Career advancement & tenure
  – Funding of work
  – Global collaboration

• Institutions and Funding Agencies need to
  – Measuring output by institution, department, subject, etc
  – Establish and comparison to baselines
  – Identifying and benchmark to peers
  – Finding and tracking category leaders
THE RESEARCHERID SYSTEM

- A secure Web platform creates a system-generated unique identifier for each registrant
  - As a free online community anyone can access and use
  - Privacy options are controlled by the user
  - Robust web services allow integration with institutional systems to access, create, and use profile and publication data

- Integration with the Web of Knowledge, EndNote, and other systems help build publication lists

- Interacts with the Web of Science to provide current bibliographic data and citation counts
Daniel Macdonald

Australian National University

Selected Publication List:
1. Trapping of minority carriers in multicrystalline silicon
2. Iron detection in crystalline silicon by carrier lifetime measurements for arbitrary injection and doping
3. Transition-metal profiles in a multicrystalline silicon ingot

Go to ResearcherID.com to view more information
Sponsor systems automatically create ResearcherID profiles

- Automatically create unique identifier
- Unique match between ResearcherID and institution data
- Researchers maintain control of information and privacy
- Automatically create and maintains current publication information
- Uploaded publications match to Web of Science articles
- Current updated Web of Science citation counts into institutional repositories and systems

Updated citation counts, profile and publication data flow into sponsor systems
ENDNOTE: COLLABORATION AND CONNECTIVITY

Manuscript Submission

Integration

Seamless Access

RID Identity Management

Find and Download Full Text

Cite While You Write

Collaboration

Relevant Data
**ENDNOTE**

## EndNote X3
- “Group Sets” organize your EndNote references
- Cite While You Write with OpenOffice.org Writer word processor
- Composite Citations groups multiple citations under a single number
- Find Full Text uses OpenURL, Link resolvers and proxy systems to find, download, and automatically attach full text PDF files to bibliographic data
- Fully compatible with 64 bit Microsoft Windows
- X3 – Available June 30 for Windows and September 1 for Macintosh

## EndNote Web
- Fully integrated with the Web of Knowledge
- Access references anytime anywhere
- Toolbar access from IE / Mozilla – access library and capture citations
- Administrator module allows custom bibliographic styles, import filters and connection files.
- ResearcherID publication lists are now managed easily in EndNote Web.
- Improved navigation with convenient dynamic tabbed menus.
- Organize using “Group Sets”
DISCOVERY
Web of Knowledge
CABI Global Health
Chinese Science Citation Database
Century of Social Science
Web Services
Application Enhancements
Continued Regional Content Expansion
DISCOVER!

100+ years of data

23,000+ sciences, social sciences, arts and humanities journals

800 million + cited reference

2 million + chemical structures

5 million + conference proceedings

13 million + patented inventions

Web of Science
Conference Proceedings
Current Contents Connect
Derwent Innovations Index
Biological Abstracts
BIOSIS Previews
CAB Abstracts
CABI Global Health
Food Science and Technology Abstracts
Inspec
MEDLINE
Zoological Record
WEB OF KNOWLEDGE 4.5 – JANUARY 2009

- Search for Editors
- Search and Display Funding Acknowledgments (Aug 08)
- Refresh CAB Abstracts data load with new fields
- Global Health as optional product / edition
- Search History – Log Refine and Analyze
- Retain user selected node appearance in Citation Map
- Firefox Patch
- Simplified Chinese interface
CHINESE SCIENCE CITATION DATABASE

- From the Chinese Academy of Sciences
- Chinese Science Citation Database
  - Editorially selected top scholarly journals from the People’s Republic of China
  - Includes a high percentage of English content
  - Coverage from 1989 with 1150+ unique titles
  - Multidisciplinary and includes cited references
- Provides a complete picture of Chinese Research
  - Who is being cited
  - What journals are being used
  - What are the hot research topics
  - Who are the leading researchers

THOMSON REUTERS
REGIONAL CONTENT EXPANSION

- In 2006 we began a rigorous review of regional scholarship to identify key titles and subjects important to the global research community.
- All journals added to WoS still go through a rigorous selection process.
- Total coverage of scholarly journals in Web of Science has grown from 8,600 in 2004 to over 11,000 publications today.
- Fifteen hundred (1,500) of these are newly selected regional journals.
- The list of countries whose publications are represented in WoS has grown by 14 during this period.
- Journal coverage now better reflects trends in scholarly research at both the international and regional levels.
Regional Content Expansion Changes

<table>
<thead>
<tr>
<th>Region</th>
<th>#2007 Titles</th>
<th>#2008 Titles</th>
<th>#2009 Titles</th>
</tr>
</thead>
<tbody>
<tr>
<td>AP</td>
<td>575</td>
<td>906</td>
<td>778</td>
</tr>
<tr>
<td>EU</td>
<td>5500</td>
<td>4848</td>
<td>4382</td>
</tr>
<tr>
<td>LA</td>
<td>254</td>
<td>164</td>
<td>77</td>
</tr>
<tr>
<td>MA</td>
<td>224</td>
<td>124</td>
<td>71</td>
</tr>
<tr>
<td>NA</td>
<td>3962</td>
<td>4060</td>
<td>4215</td>
</tr>
</tbody>
</table>

ANZ Journals:
- 2007: 135
- 2008: 193
- 2009: 225
WEB OF SCIENCE
DEPTH OF CITATION DATABASES

1900 Century of Science

1900 Century of Social Sciences

Addition of 56 years of the most critical, high impact Social Sciences coverage

Approximately 300 titles will be added covering the core period from 1900-1955

1945 Science Citation Index

1956 SSCI

1975 A&HCI

1990 CPCI

1989 CPCI
CENTURY OF SOCIAL SCIENCE

• Core social sciences literature of the 20th century from 300 journals

• Sciences Citation Index expanded to include comprehensive back file and cited reference data from 1900 to 1955

• Planned release date – 3rd Quarter, 2009

• Journal Titles
  – http://isiwebofknowledge.com/produ
Assessment

Journal Citation Report
JOURNAL CITATION REPORTS

• Upgrade to Interface
  – Addition of 5 year Impact Factor
  – Analyses of Journal Self Cites
  – Box Plots displays by Category
  – Summary Rank in Category

• Integration of Eigen Factor Score and Article Influence

• Sciences - 271 journals will receive their first JIF in 2008

• Social Science - 114 journals will receive their first JIF in 2008
## IMPACT AND INFLUENCE

<table>
<thead>
<tr>
<th>Mark</th>
<th>Rank</th>
<th>Abbreviated Journal Title (linked to Journal Information)</th>
<th>ISSN</th>
<th>JCR Data</th>
<th>Eigenfactor™ Metrics</th>
<th>Article Influence™ Score</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Total Cites</td>
<td>Impact Factor</td>
<td>5-Year Impact Factor</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>NAT REV MOL CELL BIO</td>
<td>1471-0072</td>
<td>19028</td>
<td>35.423</td>
<td>34.221</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>CELL</td>
<td>0992-0039</td>
<td>142064</td>
<td>31.253</td>
<td>30.149</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
<td>NAT MED</td>
<td>1663-7624</td>
<td>48032</td>
<td>27.553</td>
<td>28.965</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
<td>ANNU REV CELL DEV BI</td>
<td>8063-772</td>
<td>8063</td>
<td>22.731</td>
<td>25.056</td>
</tr>
<tr>
<td>5</td>
<td>5</td>
<td>NAT CELL BIOL</td>
<td>1729-8860</td>
<td>99626</td>
<td>17.774</td>
<td>17.727</td>
</tr>
<tr>
<td>6</td>
<td>6</td>
<td>CELL STEM CELL</td>
<td>1232-1686</td>
<td>1232</td>
<td>16.826</td>
<td>16.826</td>
</tr>
<tr>
<td>7</td>
<td>7</td>
<td>CELL METAB</td>
<td>4463-1610</td>
<td>4463</td>
<td>16.107</td>
<td>17.974</td>
</tr>
<tr>
<td>8</td>
<td>8</td>
<td>GENE DEV</td>
<td>51077-1362</td>
<td>51077</td>
<td>13.623</td>
<td>14.428</td>
</tr>
<tr>
<td>9</td>
<td>9</td>
<td>TRENDS CELL BIOL</td>
<td>9681-13385</td>
<td>9681</td>
<td>13.385</td>
<td>12.503</td>
</tr>
<tr>
<td>10</td>
<td>10</td>
<td>MOL CELL</td>
<td>33963-12903</td>
<td>33963</td>
<td>12.903</td>
<td>12.930</td>
</tr>
<tr>
<td>11</td>
<td>11</td>
<td>DEV CELL</td>
<td>12421-12882</td>
<td>12421</td>
<td>12.882</td>
<td>13.284</td>
</tr>
<tr>
<td>12</td>
<td>12</td>
<td>CURR OPIN CELL BIOL</td>
<td>12753-12543</td>
<td>12753</td>
<td>12.543</td>
<td>13.551</td>
</tr>
<tr>
<td>13</td>
<td>13</td>
<td>NAT STRUCT MOL BIOL</td>
<td>17426-10997</td>
<td>17426</td>
<td>10.997</td>
<td>10.799</td>
</tr>
<tr>
<td>14</td>
<td>14</td>
<td>CURR OPIN GENET DEV</td>
<td>7763-0.677</td>
<td>7763</td>
<td>0.677</td>
<td>0.678</td>
</tr>
<tr>
<td>15</td>
<td>15</td>
<td>TRENDS MOL MED</td>
<td>4260-9.621</td>
<td>4260</td>
<td>9.621</td>
<td>7.161</td>
</tr>
<tr>
<td>16</td>
<td>16</td>
<td>PLANT CELL</td>
<td>28874-0.206</td>
<td>28874</td>
<td>0.206</td>
<td>10.458</td>
</tr>
<tr>
<td>17</td>
<td>17</td>
<td>J CELL BIOL</td>
<td>68535-9.120</td>
<td>68535</td>
<td>9.120</td>
<td>10.056</td>
</tr>
<tr>
<td>18</td>
<td>18</td>
<td>CURR OPIN STRUC BIOL</td>
<td>8844-9.000</td>
<td>8844</td>
<td>9.000</td>
<td>9.804</td>
</tr>
<tr>
<td>19</td>
<td>19</td>
<td>EMBO J</td>
<td>73804-8.205</td>
<td>73804</td>
<td>8.205</td>
<td>8.904</td>
</tr>
<tr>
<td>20</td>
<td>20</td>
<td>AGING CELL</td>
<td>2083-7.791</td>
<td>2083</td>
<td>7.791</td>
<td>7.585</td>
</tr>
</tbody>
</table>
A New Citation Platform

Enhanced Citation Platforms
BIOSIS Citation Index
New Citation Indexes
Enhanced Discovery

Details about the new version of the Web of Knowledge will be available shortly.
# Identity, Collaboration, Discovery, Assessment

## Area of Expertise

- [Society Memberships](#)

## Awards

- [Name](#)

## Grants

- [Institution Name](#)

## Journal Articles

- [Position](#)

## Meeting Reports/Abstracts

- [Institution Location](#)

## Whitepapers

- [Meeting](#)

## Lesson Plans

- [Other](#)

## Unpublished Works

- [Research](#)

## Presentations

- [Citation Report](#)

---

**The HKU Scholars Hub**

**The University of Hong Kong**

**Item Metadata (Short)**

- [File](#)

**Citation Report**

- [Title](#)

**Source:** Web of Science™, www.scopus.com
Services
Web Services API
Article Match Retrieval
RSS Conversion
Search Widgets
Web of Knowledge Web Services
Open architecture - discovery at point of need

- WoK User Interface
- Access to WoK data
- RSS
- ResearcherID
- Links AMR
- Search Widgets
- Web Services API
- Web Service request
- XML return

- Institutional repository
- Department and library systems
- Federated search systems
- Research analysis tools
- Bibliometric research
- …
REAL-TIME LINKING TO THE WEB OF SCIENCE

• Article Match Retrieve Service
  • Obtain most current WoS times cited counts
  • Link to WoS full record, related record and citing articles
  • Available now

• Inbound OpenURL Service
  • Current NISO standard
  • Link to full record, related records and citing articles
  • Available in July 2009
WEB OF KNOWLEDGE
RSS CONVERSION TOOL

- Easily create RSS feeds
- Conversion tool converts RSS XML into formatted HTML
- Conversion happens on TR site
- Many uses
  - Institution can showcase the works of their researchers
  - Address search results can be posted on department web site
  - Researchers can post latest citation counts for their papers on their web site
ADDED VALUE WITH YOUR WEB OF KNOWLEDGE SUBSCRIPTION

- Enhance your Institutional Repository with information from WoS (Web Services)
- IR, department pages can display most current information from WoS (RSS, XML to HTML)
- Institution web sites can display the most current times cited count from WoS and link to WoS related records, citing articles and full record (Article Match Retrieve Service)
- Search WoK from any web page (HTML search box)
- WoK search from popular Widget system (Yahoo Widgets)
- IE users can search WoK from within Internet Explorer (IE Search)
- Help researchers create definitive link to their scholarship (ResearcherID Upload)
- Bibliographic management and collaboration with EndNote Web
THANK YOU

Jeroen Prinsen
Director, Australia / New Zealand Sales
jeroen.prinsen@thomsonreuters.com

Geeho Liu
Regional Sales Manager
geeho.liu@thomsonreuters.com

Berenika Webster
Strategic Business Manager
berenika.webster@thomsonreuters.com

Nick Stipp
Director, Product Management AP
nicholas.stipp@thomsonreuters.com

Reynold Guida
Director, Product Development
reynoldguida@thomsonreuters.com

Web of Knowledge
http://www.isiwebofknowledge.com

Real Facts, Real Numbers, Real Knowledge
http://www.isiwebofknowledge.com/realnumbers/

ResearcherID
http://www.researcherid.com
http://www.isiwebofknowledge.com/researcherid

Article Match Retrieval and Services
http://www.isiwebofknowledge.com/realvalue/