SUPPORTING RESEARCH ADMINISTRATION TO ACT WITH CONFIDENCE

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South East Asia, Thomson Reuters

A view shows the Labynkyr lake, some 100 km south of Oymyakon in the Republic of Sakha, northeast Russia, February 1, 2013. REUTERS/Maxim Shemetov
AGENDA

• The Challenges for Research Administrators
• Promote Research Excellence
• Expand Network and Resources
• Ease the Administrative Burden
What is a Research Administrator?

- Resource Locator
- Interpreter
- Reviewer
- Motivator, Catalyst, Advocate
- Compliance Expert
- Team Builder, Broker
- Gatekeeper
- Enforcer

- Research Development
- Grants and Contracts Administration
- Institutional Policies & Procedures
- Regulatory Compliance
- Commercialization
- Economic Development

Source: NCURA Region III Spring Meeting - May 3, 2011
The Challenges for Research Administrators

• Highly competitive research environment and increased complexity of research activities
• Effectively monitoring research quality and impact, for both internally and externally funded research
• Planning and decision support for enabling the highest-impact research
• Growing number of regulations and reporting requirements, which increase stress and time spent
• Communicating the value of research university in serving society, contributing to local economies and promoting national innovation and security

Key Strategies and Related Questions

• **Promote Research Excellence**
  – What are our research strengths and opportunities?
  – How do we compare to other organizations?
  – How can we identify and promote outstanding or up-and-coming researchers?
  – How can we show the social impact of our research?

• **Expand Network and Resources**
  – What is our current collaboration status?
  – How to support the strategic decision to establish new collaborations?

• **Ease the Administrative Burden**
  – How can we minimize burden on faculty for capturing data for promotion and review?
  – How can we easily promote research expertise to external stakeholders (funders, collaborators, media)
PROMOTE RESEARCH EXCELLENCE
What are our research strengths and opportunities?


- **ENGINEERING, ELECTRICAL & ELECTRONIC**: 938
- **MATERIALS SCIENCE, MULTIDISCIPLINARY**: 755
- **PHYSICS, APPLIED**: 596
- **ENERGY & FUELS**:

UMP: Research Areas with Normalized Citation Impact Higher than the World Average (1995-2014)

- **ENGINEERING, CHEMICAL**: 1.24
- **ENGINEERING, MANUFACTURING**: 1.2
- **ENERGY & FUELS**: 1.13
- **ENGINEERING, MULTIDISCIPLINARY**: 1.1
- **MECHANICS**:
- **ENVIRONMENTAL SCIENCES**: 1.2
- **CHEMISTRY, PHYSICAL**:


<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Web of Science Documents</th>
<th>Times Cited</th>
<th>% Docs Cited</th>
<th>Journal Normalized Citation Impact</th>
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<tbody>
<tr>
<td>SCIENCE</td>
<td>1</td>
<td>24</td>
<td>2,726</td>
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<tr>
<td>NATURE</td>
<td>2</td>
<td>16</td>
<td>631</td>
<td>94%</td>
<td>0.85</td>
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</tbody>
</table>
How do we compare to other organizations?


- Publications
- Citations (normalized)
- Reputations in teaching
- Reputations in research
- International mix
- Research income / staff
- Doctoral degree / undergrad
- And many others ….

<table>
<thead>
<tr>
<th>Name</th>
<th>Papers int co-author</th>
<th>Res income ind</th>
<th>Inst income Acad</th>
<th>Doctoral degree Undergrad</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Tokyo</td>
<td>33.040</td>
<td>51.158</td>
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<tr>
<td>National University of Singap...</td>
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<tr>
<td>University of Hong Kong</td>
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<td>56.007</td>
<td>87.468</td>
<td>59.327</td>
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How can we identify and promote outstanding or up-and-coming researchers?

How “good” is this? What is the context?

<table>
<thead>
<tr>
<th>Name</th>
<th>Rank</th>
<th>Affiliation</th>
<th>Web of Science Documents</th>
<th>Category Normalized Citation Impact</th>
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</thead>
<tbody>
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<td>Islam, M. T.</td>
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<td>Ahmad, H.</td>
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<td>Harun, S. W.</td>
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</table>

How 23.3 cites/paper, H-index: 13
14.5 cites/paper, H-index: 7
How can we show the social impact of our research?

<table>
<thead>
<tr>
<th>WHAT CAN THOMSON REUTERS EVALUATE?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Region: Country, Territory</td>
</tr>
<tr>
<td>Organization Level: University, Institute, Corporation, Funder</td>
</tr>
<tr>
<td>Person Level: Researcher, Team, Research Project</td>
</tr>
<tr>
<td>Item level: grant, paper, patent, award, activity</td>
</tr>
<tr>
<td>Reputation Rankings Rising Stars Success Stories</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>WHAT CAN THOMSON REUTERS REPORT?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Counts of, outputs, activities, funds, and items</td>
</tr>
<tr>
<td>Citation metrics</td>
</tr>
<tr>
<td>Time trends and changes</td>
</tr>
<tr>
<td>Relationships by citation or co authorship</td>
</tr>
<tr>
<td>Relative measures and Benchmarks</td>
</tr>
<tr>
<td>Peer Review</td>
</tr>
<tr>
<td>KPIs Efficiency Productivity Operational Financial</td>
</tr>
</tbody>
</table>
EXPAND NETWORK AND RESOURCES
What is our current collaboration status?


USM: Top International Collaborators by Output (1980 - 2014)

How to support the strategic decision to establish new collaborations?

Collaborations among top 20 institutions in 3D printing literature

Hubs:
- MIT
- Harvard Univ
- UC Berkeley
- Chinese Acad Sci

Accessing potential collaborators’ collaboration distributions

Who cites you is your potential collaborator
EASE THE ADMINISTRATIVE BURDEN
Global Challenges for Effective Research Management

- Attract talent
- Increase collaborations
- Generate more spin-outs, products, expertise, services, ...
- Produce more patents (and license agreements)
- Produce more publications (in more high impact journals)
- Generate more high impact, innovative project ideas
- Increase success rates, and external research funding
- Make efficient and effective use of available funding
Along the Research Life Cycle there are many different stakeholders

- Researchers
- Graduate students
- External collaborators
- Research office
- International office
- Funders
- University management
- Post-Award finance
- Library
- Research ethics board
In supporting all aspects of the scholarly process across my organization

• There are so many steps to manage and so many different phases of the research process that each have their own unique requirements…

• …but I need to find ways to connect the various processes and data sources to help inform key strategies and decisions.

• How can we better connect our workflow?

- Reuse data and information to simplify the burden on staff
- Streamline administrative process into a single, connected view
- Integrate internal and external systems
- Configurable to meet evolving needs
Support along the Research Lifecycle with Research Management System

- Match funding opportunities
- Documents
- Validation for new accounts
- Reporting back to funder: Input vs. Output
- Public presence: Web & CVs
- Reporting internal & external

IDEAS
- Budgeting
- Internal approvals
- Ethics reviews

PROPOSALS
- Controlling: Budget vs. Expenditure & Forecast
- Tasks & deadlines

PROJECTS
- Validation processes: OA repository & bibliometrics
- IP & licensing: Patents, expertise, products
- Research data

RESULTS
- EXPLOITATION
Overview

Notifications

Ethics review
From: Martin Jagerhorn | Category: USER_MESSAGE | Priority: LOW
11.06.2014 18:24

Things to do

4 Publications for validation
2 Applications for completion

Content

13 Publications
5 Projects
6 Project Applications
2 Project Ideas
2 Patents

Recently edited

Project Application: HealthCompetence; Doe, J...

Person:
Doe, Jane
CONVERIS supports the internal approval workflows and facilitates the communication between the different stakeholders involved.
Managing Projects - A project can be a grant or other type of funding (internally funded, Contractual research with industry, etc.). A project can be multi-institutional.
Automated reports

Converis allows you to create automatic reports on projects at an individual researcher level, researcher group level, or the organization as a whole. The administrator can create report templates in accordance with accepted standards in the organization or country.
**Customized portals**

![LUT Research Portal](image)

**Welcome to the LUT Research Portal!**

The LUT Research Portal provides details on researchers, research projects and publications at the Lappeenranta University of Technology.

There are three main ways of accessing the information. These include browsing by research areas in the left menu, using any of the direct entries for staff or organisational units in the menu to the right or through a direct search in the search box to the right.

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**Publications**

- **(7234)**

**Projects**

- **(4)**

**Persons**

- **(1987)**

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**Area**

- Business, Management and Accounting
- Chemical Engineering
- Computer Science
- Decision Sciences
- Economics, Econometrics and Finance

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- Ac resistance Factor of Litz Wire Windings Used in Low Voltage High Power Generators
  - Hamalainen Henri, Pyrhonen Juha, Niska Janne et al.
- Three Strategies for Customer Value Assessment in Business Markets
  - Management Decision, 2014
  - Keränen Jouni, Jalkala Anne
- Model based scale up study of the calcium looping process
  - Fuel, Volume 115, 2014, Pages 320-337
  - Yratalo Jaakko, Ritinen Jouni, Tykkälä Tero et al.
Data Integration for Internal and External Systems
Thomson Reuters Research Management

SUPPORTING THE ENTIRE RESEARCH LIFECYCLE

InCites

- Benchmarking & Comparisons
- Journal & Article Evaluations
- Identification of Rising Stars and Hot Papers
- Metrics-based Research Discovery

Converis

- Publications Management
- Research Portal
- Pre- & Post-Award Management
- Configuration
- IP Portfolio Management
- Research Analytics
- Graduate Student Management

Research Data & Services

CAPABILITIES:
- Scholarly Metrics & Benchmarking
- Impact Evaluation & Innovation
- Leading-Edge & Emerging Research

DELIVERY CHANNELS:
- Custom data identification and delivery
- Customized metrics and analytics
- Expert analysis and reports
THANK YOU

Ning Ning
ning.ning@thomsonreuters.com

A view shows the Labynkyr lake, some 100 km south of Oymyakon in the Republic of Sakha, northeast Russia, February 1, 2013. REUTERS/Maxim Shemetov