Navigating terrain and discovering insights into UOWs Sphere of Influence

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Performance Indicators Unit
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GLOBALLY CONNECTED

KEY FACTS

- **143** countries
- **213** institutions
- **166** global links
- **3,167** UOW students have studied overseas
- **9,466** UOW students have studied at UOW

*Image showing a world map with connections between institutions, provinces, and countries, indicating academic and research collaborations.*
Our Projects

2006
Staff Demographics, Leave, Training, OH&S, Recruitment & Equity

2007
Financial Reporting, Student Demographics /Performance, Research Publications

2008
Research Income, Student Institutional Attrition

2009
Faculty Planning, Curriculum Review, Cross Indicators, Environmental, Student Equity

2010
Student Course Transfer, Cook’s Compass (Dean’s Dashboard) AUQA Review Packs, ERA, Direct Admissions, Survey Faculty Data Packs

2011
Library Usage, HDR Student Reporting, Student Accommodation, UAC

2012
Staff Timesheets Research Benchmarking HDR Network Analysis

2013+
Student Benchmarking Mobile reporting Network Analysis Portal Redesign

BI Centre of Excellence created at UOW, the “Performance Indicators Unit”

Four Cadets leave team!
## Business Intelligence Supporting UOW Strategy

<table>
<thead>
<tr>
<th>Strategic Plan Goals</th>
<th>Business Intelligence Perspectives</th>
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<tbody>
<tr>
<td>GOAL 1: Research &amp; Impact</td>
<td>Research</td>
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<td>Staff &amp; Workplace Satisfaction</td>
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<td>GOAL 2: Learning &amp; the Student Experience</td>
<td>Students Teaching &amp; Learning</td>
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<td>Community &amp; International Focus</td>
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<td>GOAL 3: Connecting Communities</td>
<td>Research</td>
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<td>Students Teaching &amp; Learning</td>
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<td>GOAL 4: Staff &amp; Culture</td>
<td>Research</td>
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<td>Staff &amp; Workplace Satisfaction</td>
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<td>GOAL 5: Sustaining a Vibrant University</td>
<td>Finance</td>
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<td>Business Processes &amp; Operations</td>
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<td>Environmental Sustainability</td>
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<td>GOAL 6: Change &amp; Transformation</td>
<td>Finance</td>
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</table>
Information as an Asset
Leveraging our Assets

Source: 2012, Gartner BI Maturity Model
• Improving the way information is presented, 
   remove the noise 
   remove overbearing colours 
   Remove 3D and use the correct charts 

• We don’t need more information! ….
  it needs to be discoverable, insightful and actionable

Where are we now?
Descriptive to Prescriptive

Source: 2012, Gartner BI Maturity Model
A Network Analysis visualisation

- Network Relationship Analysis
- Person centric paradigm
- Research Linkages
- Degrees of connectedness
Network Relationship Analysis
A research and International Perspective

- Publications data
- Where do we collaborate and who with?
- What is the extent of our Collaborations?
- Who are our highly collaborative academics
- Changes underpinning a Network
What is the extent of our Collaborations?

Degrees represent the number of links between institutions

Interactive Map of Collaborations
An Individual Network
Changes to the Network
Highly collaborative academic
Changes to the Network

An external is now a key piece in our network
## Summary Counts

<table>
<thead>
<tr>
<th>Academic</th>
<th>Collaborations (people)</th>
<th>Number of Papers</th>
<th>Internal Academics</th>
<th>External Academics</th>
<th>Institutions</th>
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<tbody>
<tr>
<td>Researcher 1</td>
<td>208</td>
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<td>4</td>
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<td>20</td>
<td>17</td>
<td>22</td>
<td>8</td>
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</table>
Why do we need this information?

- Better coordination of outreach activities
- Relationship management
- Risk management and mitigation
- Develop opportunities and alliances
Collaboration is a driver of research success ...to be a successful research institution it is critical the University understands and manages the relationships between individuals and other institutions ...

Network Analysis is an innovative way to discover insights into the extent of our research relationships.
Network Relationship Analysis future

- Endorsed by Senior Executives
- Extends BI capabilities
- Continue to leverage information
- Institutional Synergies
- Information as an Asset
Thank you

For further Information

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