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A BI Strategy to deliver actionable insights and improve decision making at University of Wollongong

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A BI Strategy to deliver actionable insights and improve decision making at University of Wollongong

Abstract

In 1999 the University of Wollongong embarked on a BI initiative through the establishment of a BI Centre of Excellence. With a vision to improve University performance through enhancing business decisions, UOW has delivered a comprehensive suite of strategic reporting and improved the transparency, availability and dissemination of information by breaking down operational silos. Today a revitalised view of BI takes effect that extends and builds upon this strong foundation that has uncovered hidden insights. The session will explore; The redefined BI strategy that supports the strategic plan The importance of visualisations to deliver actionable insights Leveraging our assets to deliver value to stakeholders Relationship analysis to enhance our sphere of influence.

Keywords

actionable, strategy, insights, improve, decision, making, university, wollongong, deliver, bi

Disciplines

Arts and Humanities | Social and Behavioral Sciences

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A BI Strategy to deliver actionable insights and improve decision making at UOW

Craig Napier
Performance Indicators Unit
18th September 2013



GLOBALY CONNECTED



KEY FACTS

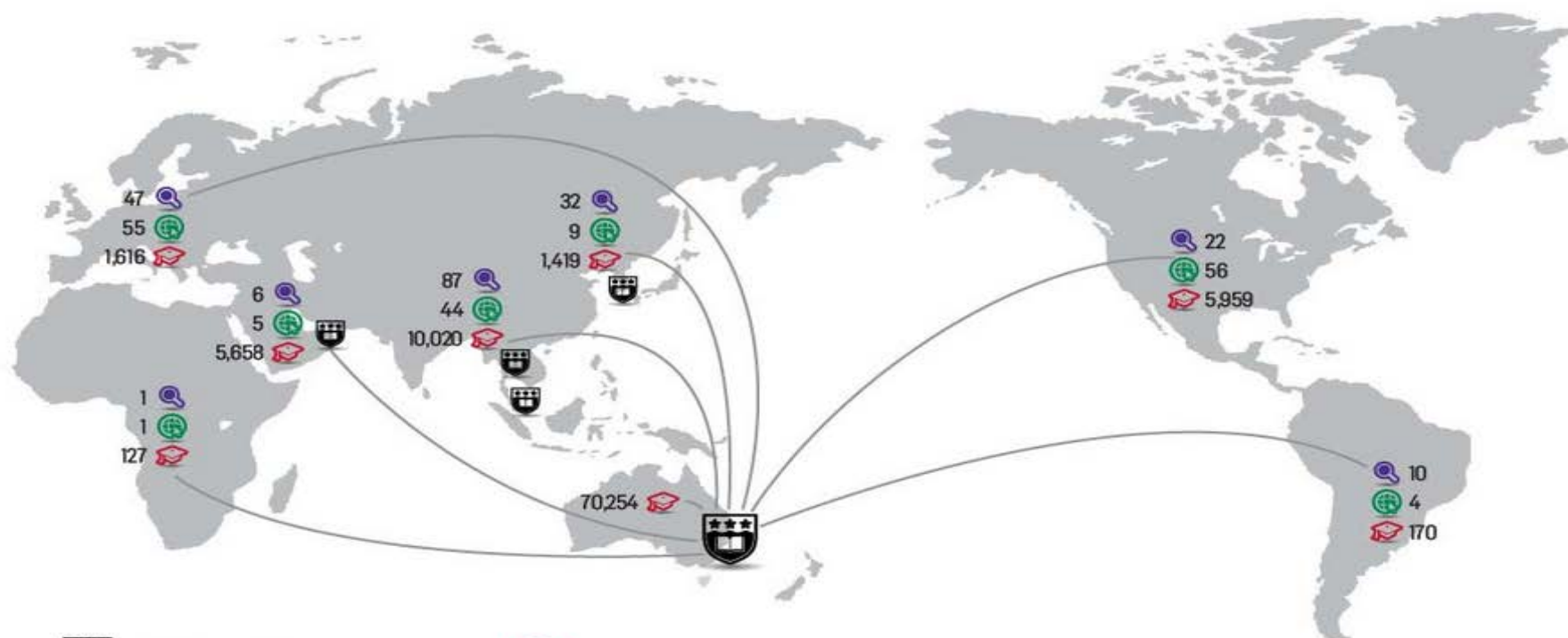
LIVE IN
143
COUNTRIES

213
INSTITUTION
FORMAL LINKS

GLOBAL LINKS
166
INSTITUTION

UOW STUDENTS
3,167
HAVE STUDIED
OVERSEAS

FROM OTHER UNI'S
9,466
STUDIED
AT UOW



UOW Campus/Programs



Academic/Research Collaboration
(Number of Institutions)



Study Abroad/Exchange
(Number of Institutional collaborations)



Alumni
(Number of UOW Graduates)

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+
Network Analysis
Portal Redesign
Learning Analytics
Marketing Analytics

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

Four Cadets
leave team!

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Business Intelligence Strategy

Increase the dissemination and volume of Information Assets

Project Productivity Strategy

Introduce new Revenue Sources

Create more project capacity

Incorporate relevant features to improve user experience

Enhance Customer Value

Utilise Staff in the most effective manner

User Growth Strategy

Customer Value Proposition

Relevant

Accurate

Core capabilities

Timely

Access

Productivity Attributes

Relationship

Image

Assets

Information Management

Employee Competencies

Attract, develop and retain key personnel who desire innovation and learning

+

Technology

Leverage technology to adopt leading BI capabilities and visualisations

+

Organisational Culture

Create and promote an analytical culture diffused across key business processes, faculties and Divisions

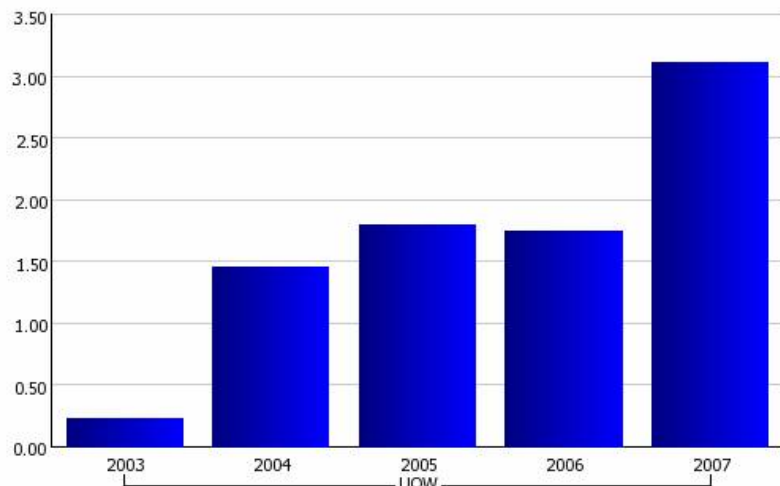


Dashboard Visualisation

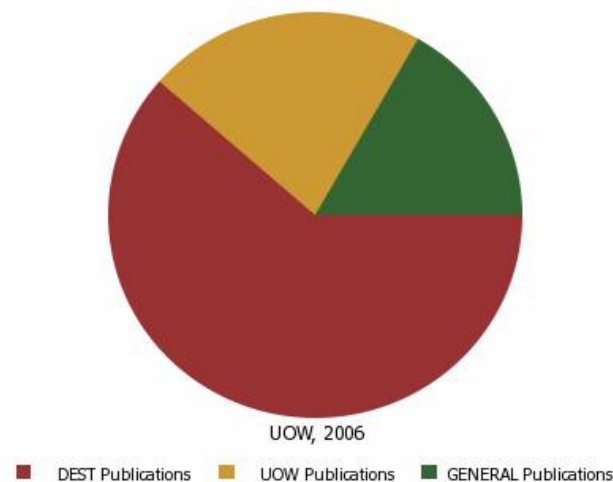
Parameters

UOW Organisational Unit Faculty/Department Unit

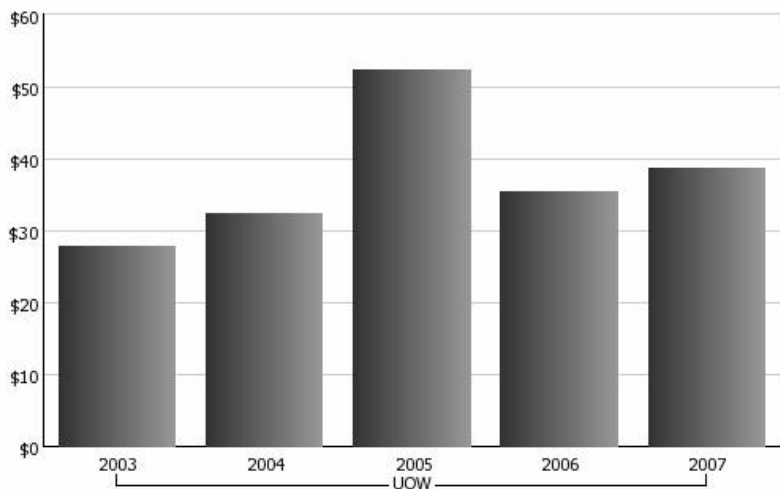
DEST Publications Per Academic FTE



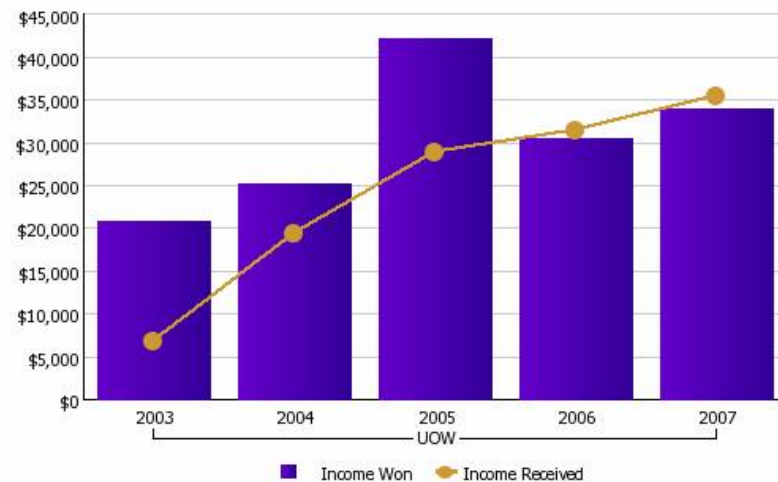
Publication Breakdown 2006



Research Income per Academic FTE (\$000)



Research Income (\$000)



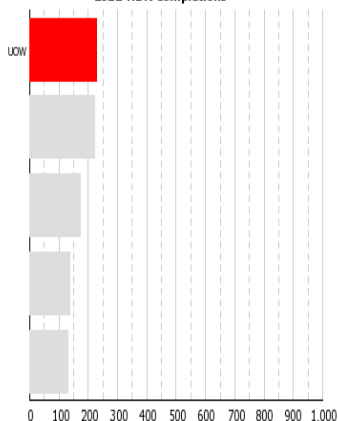
Higher Degree Research Students



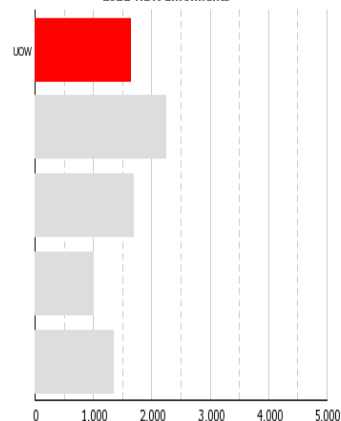
Select Institutions

Click to save

2011 HDR Completions



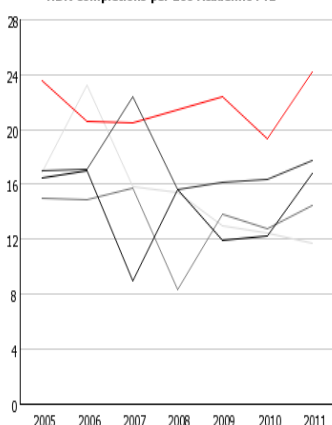
2011 HDR Enrolments



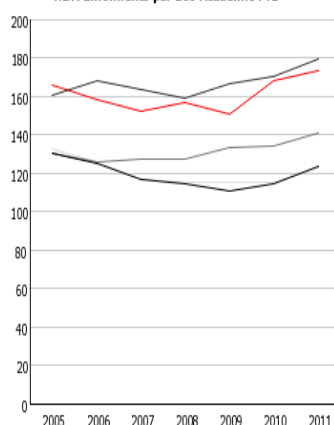
International Completions as a % of All Completions



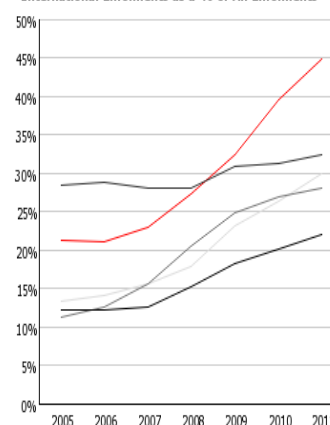
HDR Completions per 100 Academic FTE



HDR Enrolments per 100 Academic FTE



International Enrolments as a % of All Enrolments



Dashboards

Name

1. Research Benchmarking
2. Benchmarking HDR
3. Benchmarking Publications
4. Benchmarking ARC Funding
5. Benchmarking Research Income

HDR Analysis Views

Name

- Completions by Student Type
- Completions per 100 Academic FTE
- Enrolments by Student Type
- Enrolments per 100 Academic FTE

Publication Analysis Views

Name

- Journal Articles per 100 FTE
- Publication Weighted Points per 100 FTE
- Publications by Category
- UOW Scopus Publications

ARC Analysis Views

Name

- ARC funding and Success Rates
- ARC Funding per 100 Academic FTE
- Average ARC Funding
- Proportion of ARC Income

Income Analysis Views

Name

- Proportion of Research Income
- Research Income per 100 FTE
- Research Income Rankings

Management Reports

Name

- Benchmarking Management Report - ARC Grants
- Benchmarking Management Report - HDR

ARC Funding Outcomes

DIISRTE (Commencing, All, Overseas Students Tables 1.5, 1.6, 2.5, 2.6)

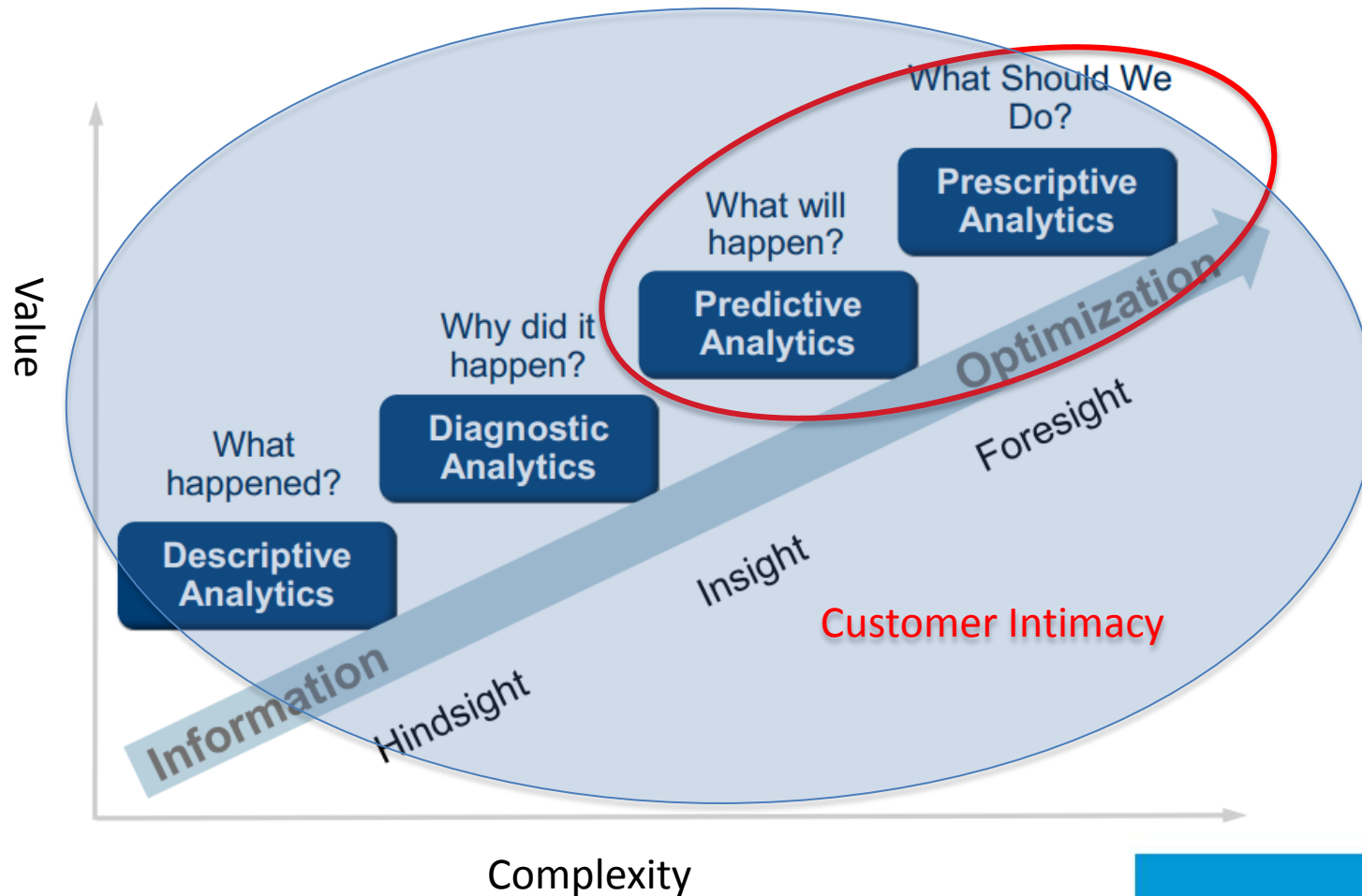
HERDC Publications

Full-time Equivalence Table 1.8

Performance Indicators Unit Help



Descriptive to Prescriptive



Source: 2012, Gartner BI Maturity Model

A Network Analysis visualisation

- Network Relationship Analysis
- Person centric paradigm
- Research Linkages
- Degrees of connectedness



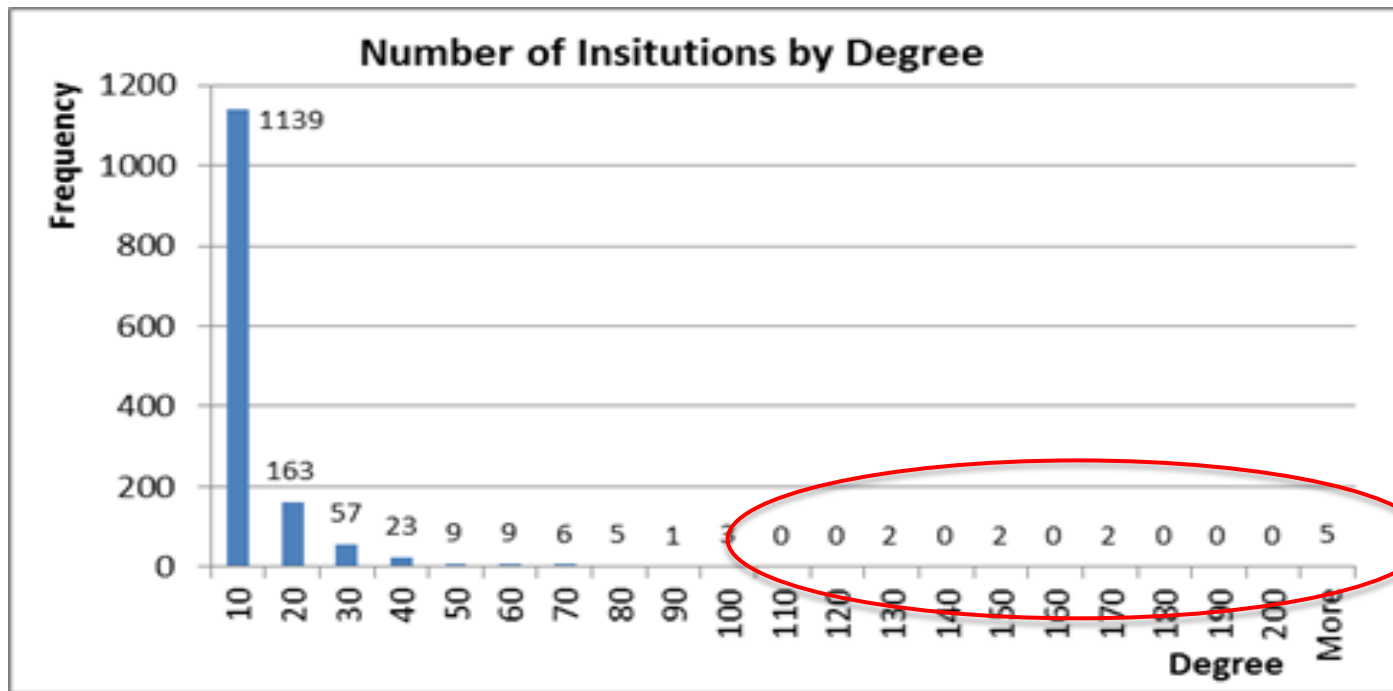
Network Relationship Analysis

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?

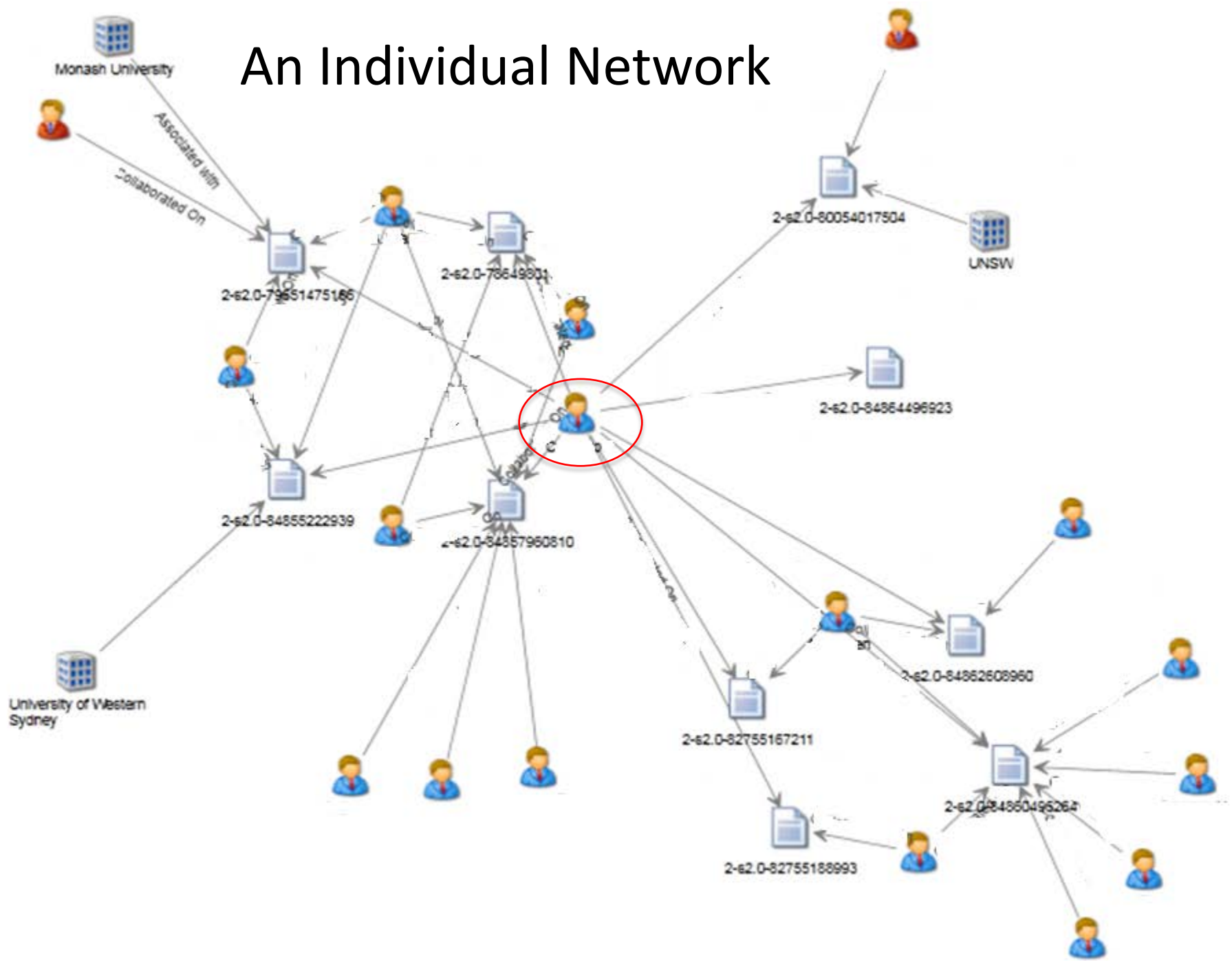


Degrees represent the number of links between institutions

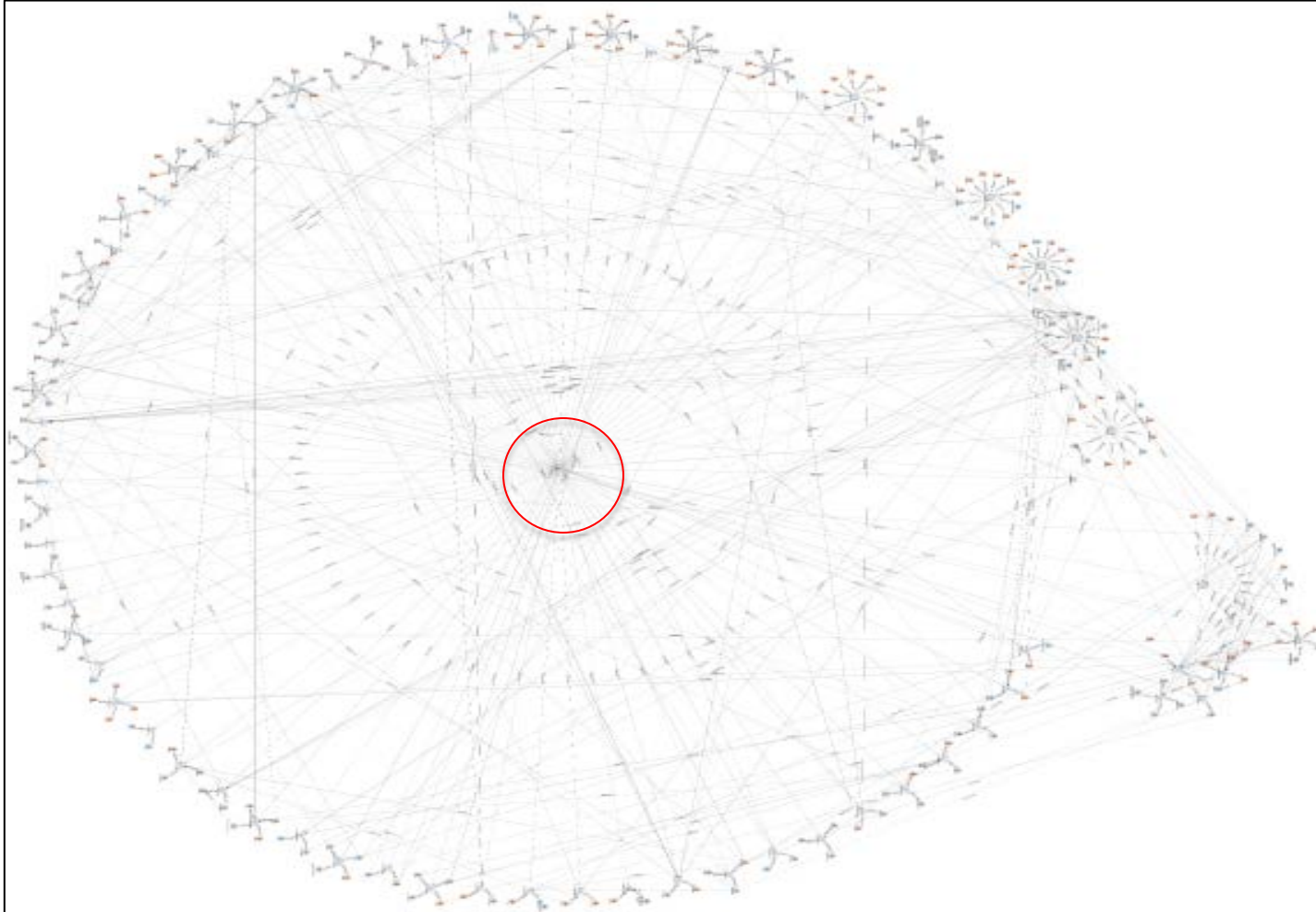
[Interactive Map of Collaborations](#)



An Individual Network



Highly collaborative academic



Why do we need this information?

- Better coordination of outreach activities
- Relationship management
- Risk management and mitigation
- Develop opportunities and alliances



Executive Sponsor

Professor Judy Raper DVC Research



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.

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Network Relationship Analysis future

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



Thank you

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