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Navigating terrain and discovering insights into UOWs Sphere of Influence

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Navigating terrain and discovering insights into UOWs Sphere of Influence

Abstract

The Performance Indicators Unit is utilising its strong analytical foundation and is extending their BI capabilities into areas of prescriptive analytics. Rather than reporting on what has happened we must inform and influence what will happen which is a dramatic shift. With a robust analytical foundation the opportunity to leverage these assets is the new focus that is providing insights into the extent, strength and interactions of our complex relationships.

Keywords

navigating, terrain, insights, influence, discovering, sphere, uows, into

Disciplines

Arts and Humanities | Social and Behavioral Sciences

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Navigating terrain and discovering insights into UOWs Sphere of Influence

Craig Napier
Performance Indicators Unit
22nd August 2013



GLOBALY CONNECTED



KEY FACTS

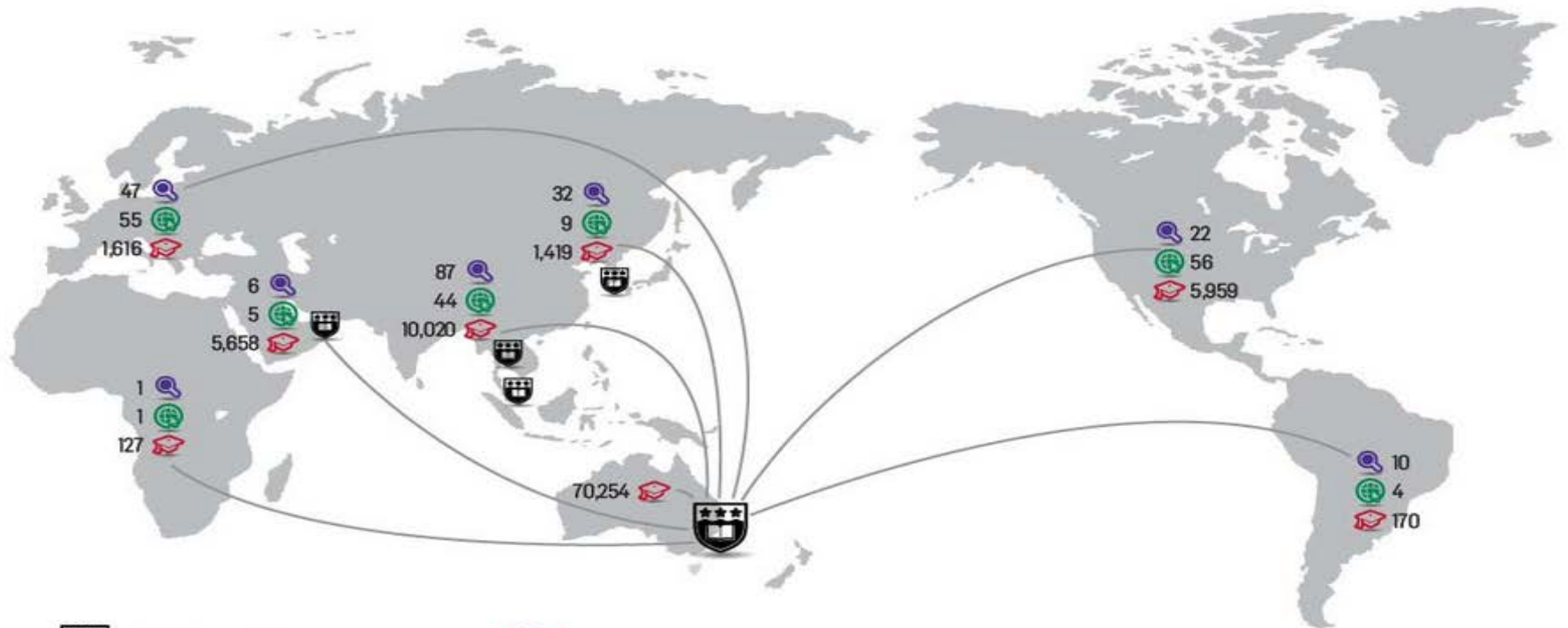
LIVE IN
143
COUNTRIES

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	2007	2008	2009	2010	2011	2012	2013+
Staff-Demographics, Leave, Training, OH&S, Recruitment & Equity	Financial Reporting, Student Demographics /Performance, Research Publications	Research Income, Student Institutional Attrition	Faculty Planning, Curriculum Review, Cross Indicators, Environmental, Student Equity	Student Course Transfer, Cook's Compass (Dean's Dashboard) AUQA Review Packs, ERA, Direct Admissions, Survey Faculty Data Packs	Library Usage, HDR Student Reporting, Student Accommodation, UAC	Staff Timesheets Research Benchmarking HDR Network Analysis	Student Benchmarking Mobile reporting Network Analysis Portal Redesign

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

Four Cadets leave team!

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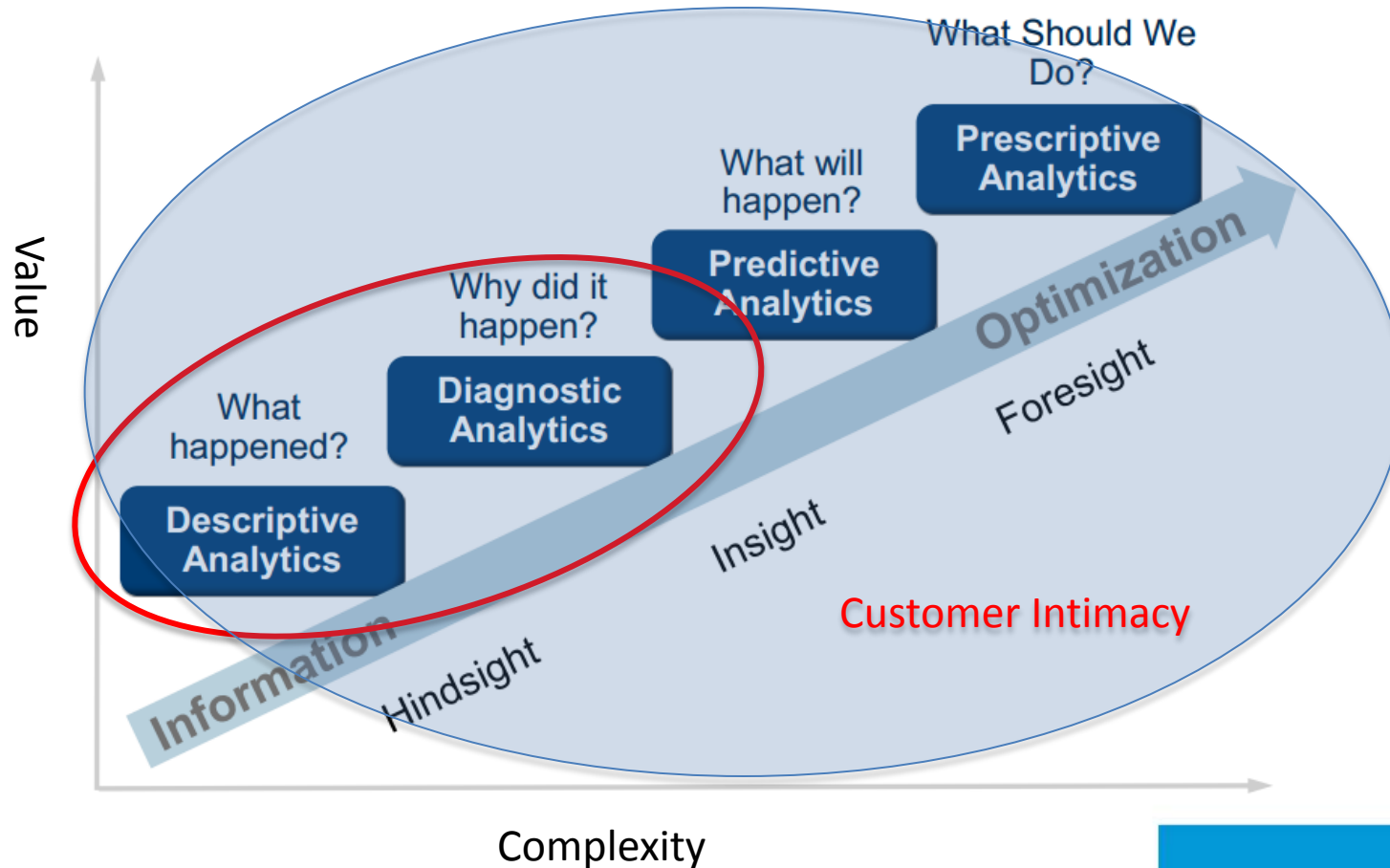
Business Intelligence Supporting UOW Strategy

Strategic Plan Goals	Business Intelligence Perspectives
GOAL 1: Research & Impact	Research Staff & Workplace Satisfaction
GOAL 2: Learning & the Student Experience	Students Teaching & Learning Community & International Focus
GOAL 3: Connecting Communities	Research Students Teaching & Learning Community & International Focus
GOAL 4: Staff & Culture	Research Staff & Workplace Satisfaction
GOAL 5:Sustaining a Vibrant University	Finance Business Processes & Operations Environmental Sustainability
GOAL 6: Change & Transformation	Finance Business Processes & Operations Environmental Sustainability

Information as an Asset



Leveraging our Assets



Source: 2012, Gartner BI Maturity Model

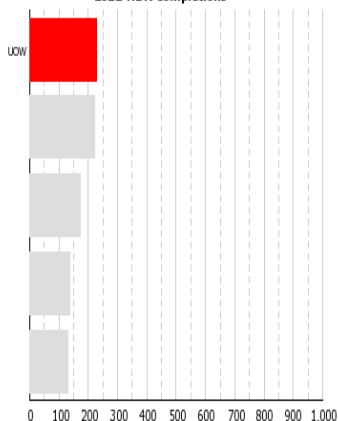
Higher Degree Research Students



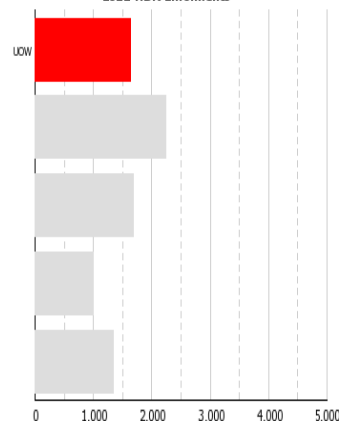
Select Institutions

Click to save

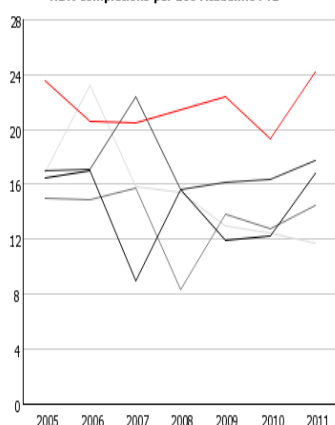
2011 HDR Completions



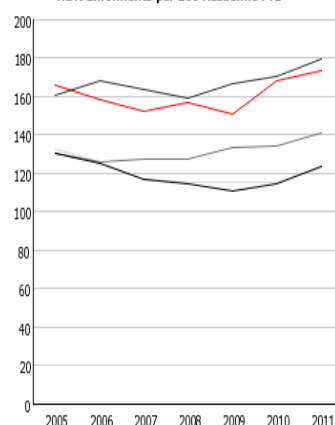
2011 HDR Enrolments



HDR Completions per 100 Academic FTE



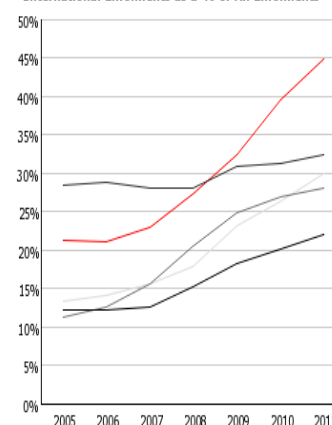
HDR Enrolments per 100 Academic FTE



International Completions as a % of All Completions



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)

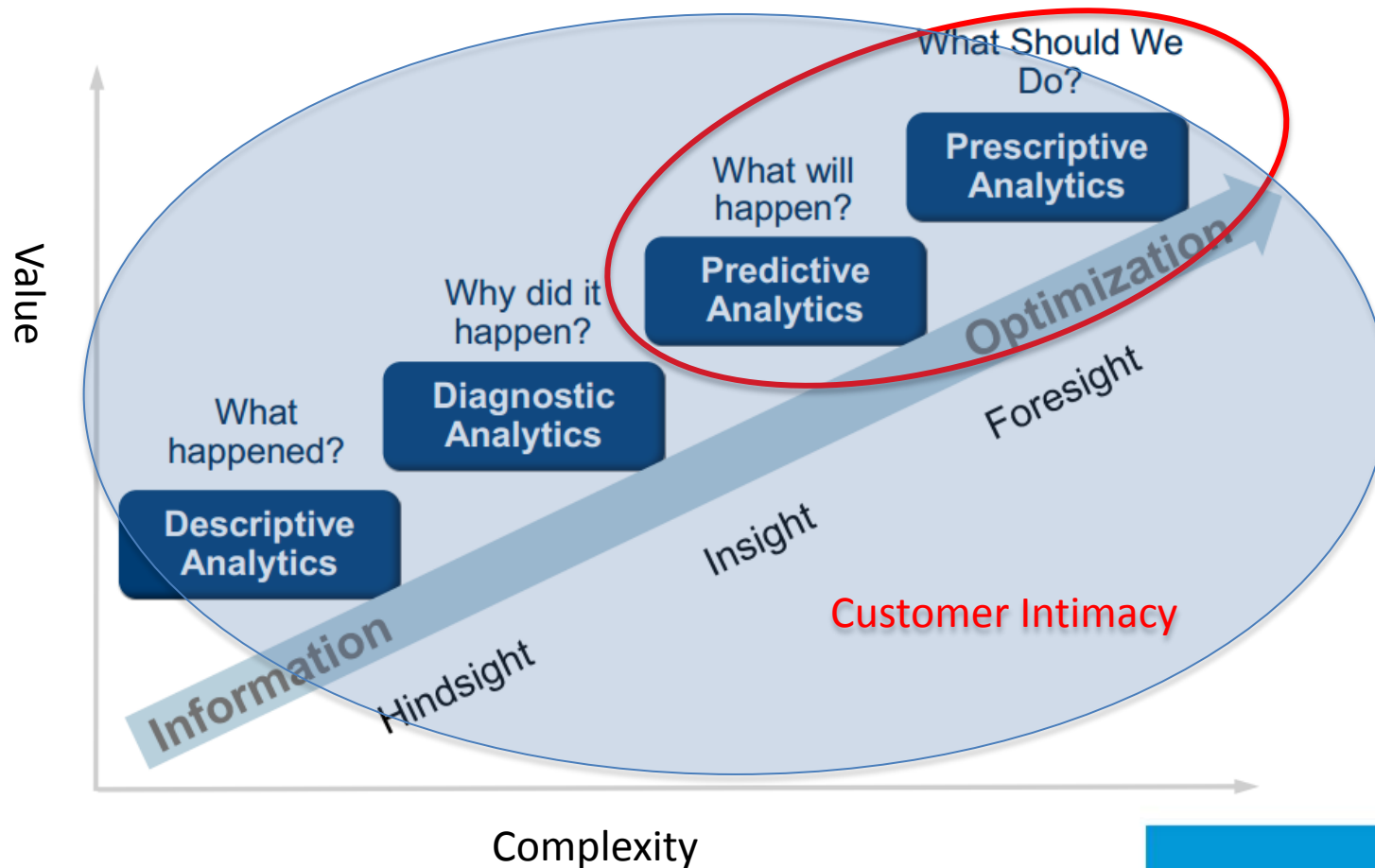
HERDC Publications

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



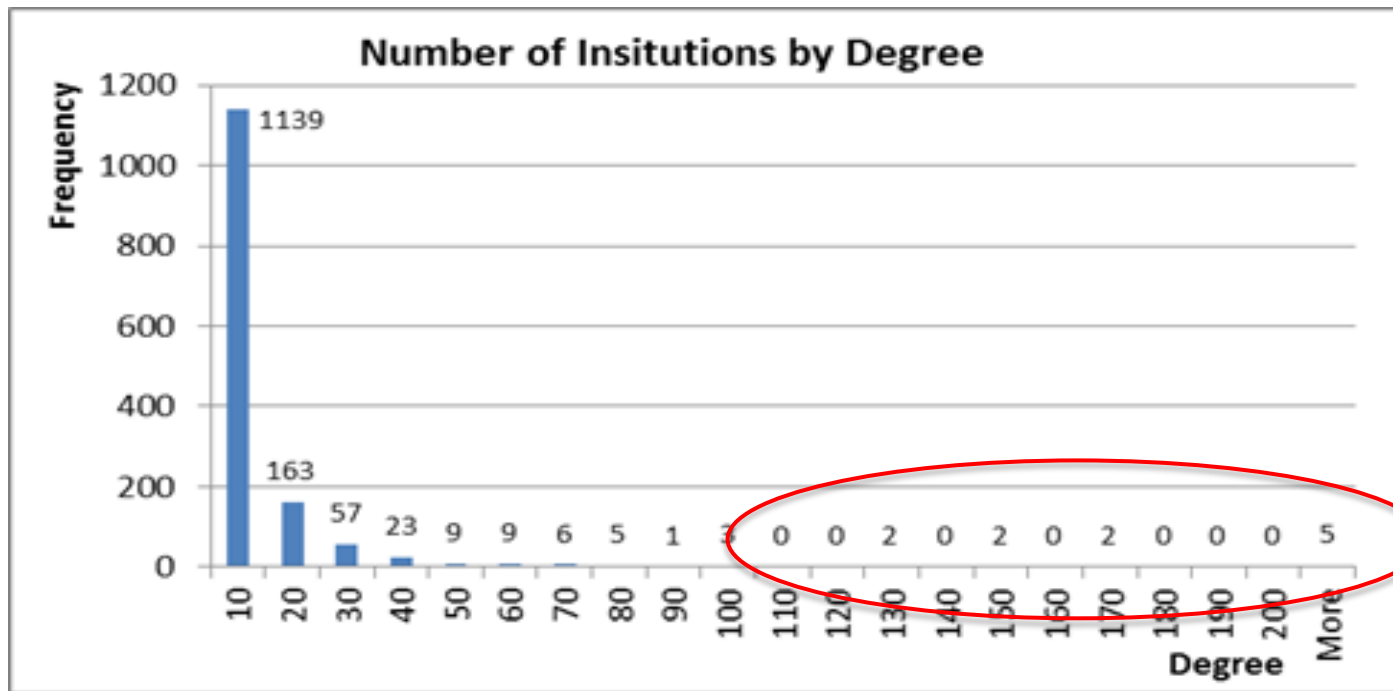
Network Relationship Analysis

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?

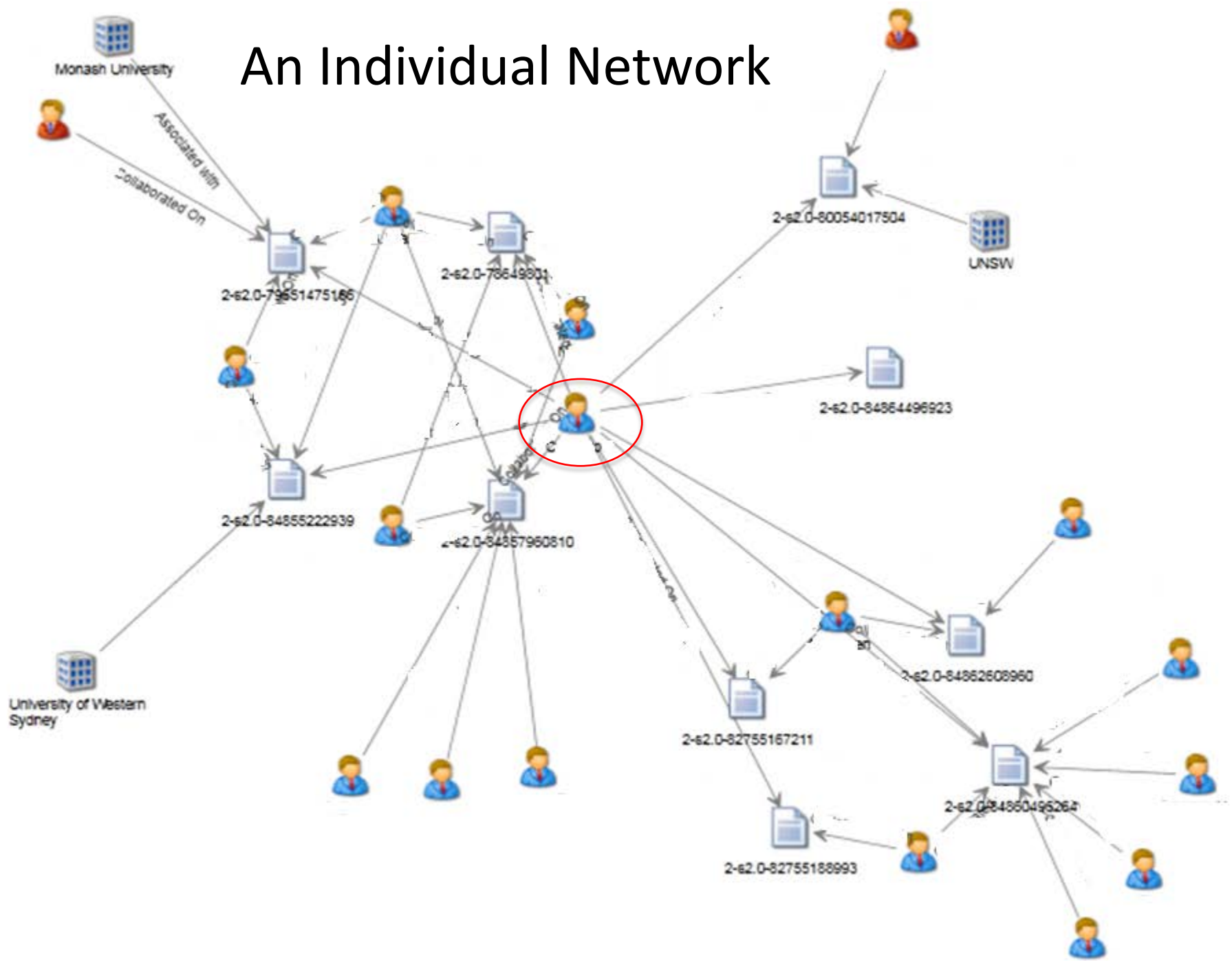


Degrees represent the number of links between institutions

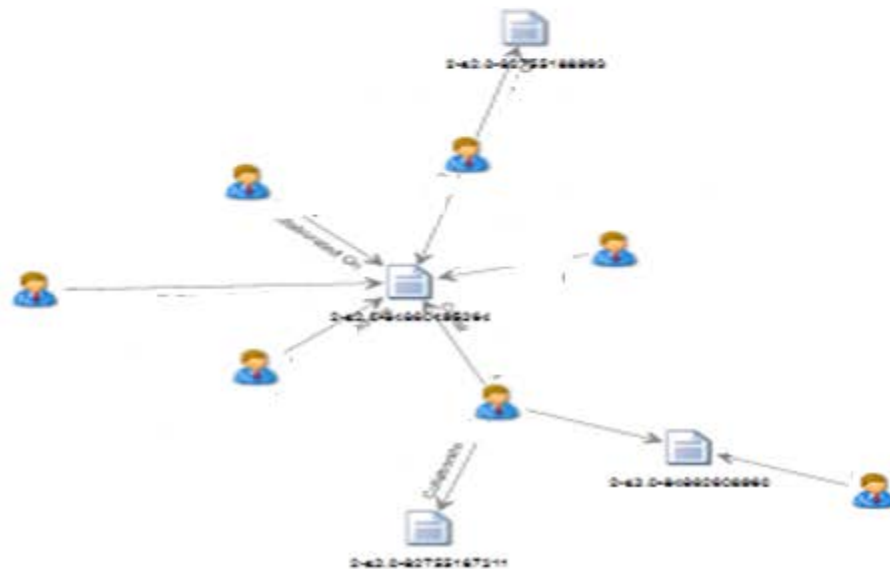
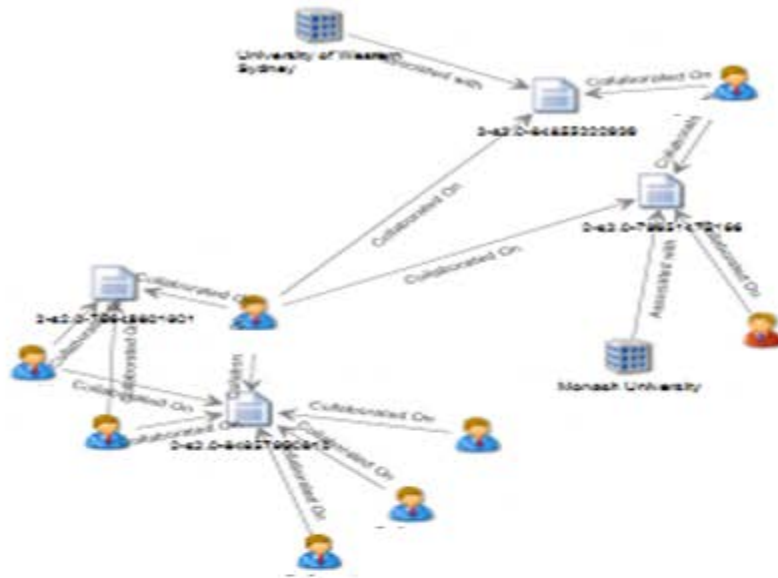
[Interactive Map of Collaborations](#)



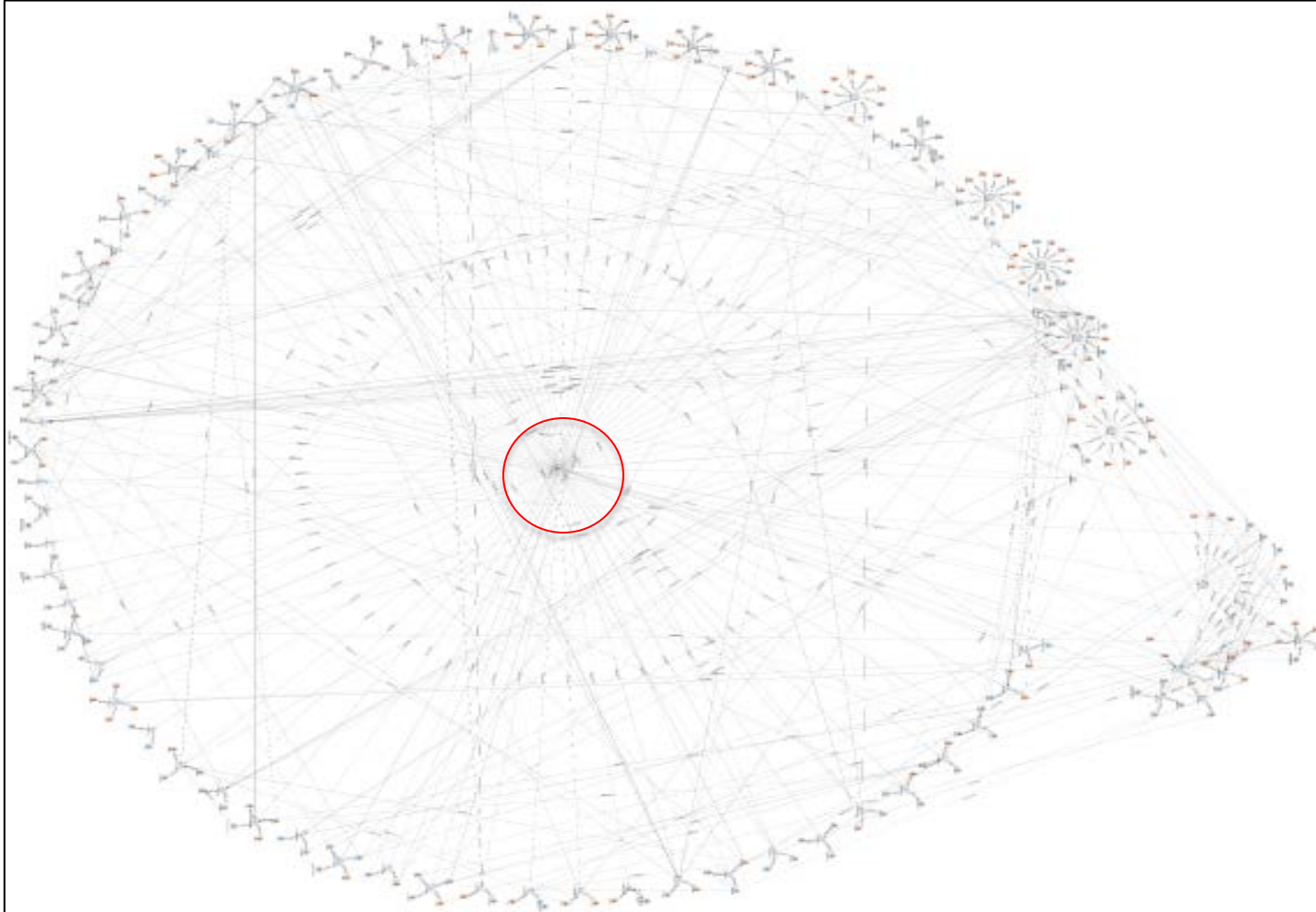
An Individual Network



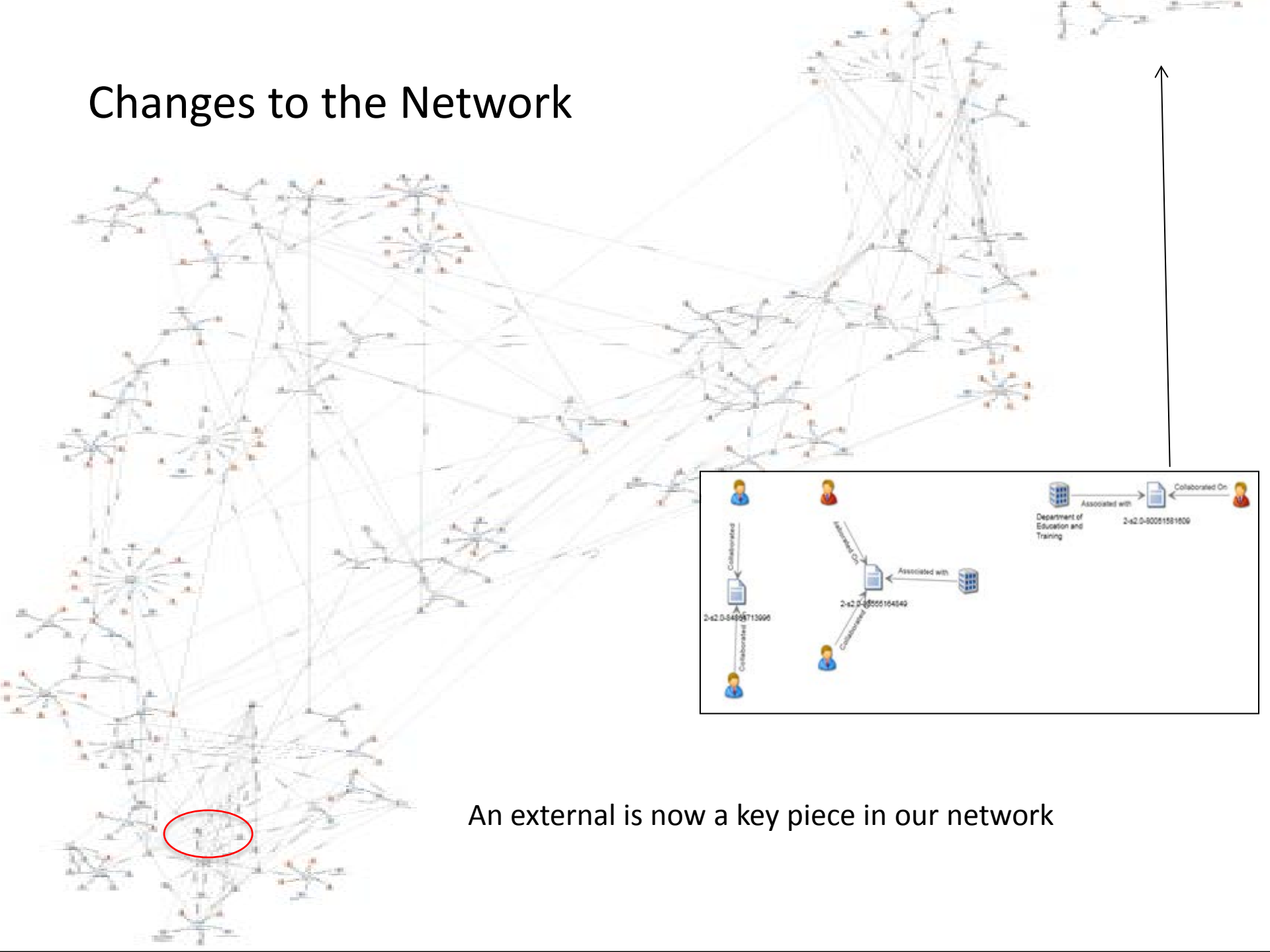
Changes to the Network



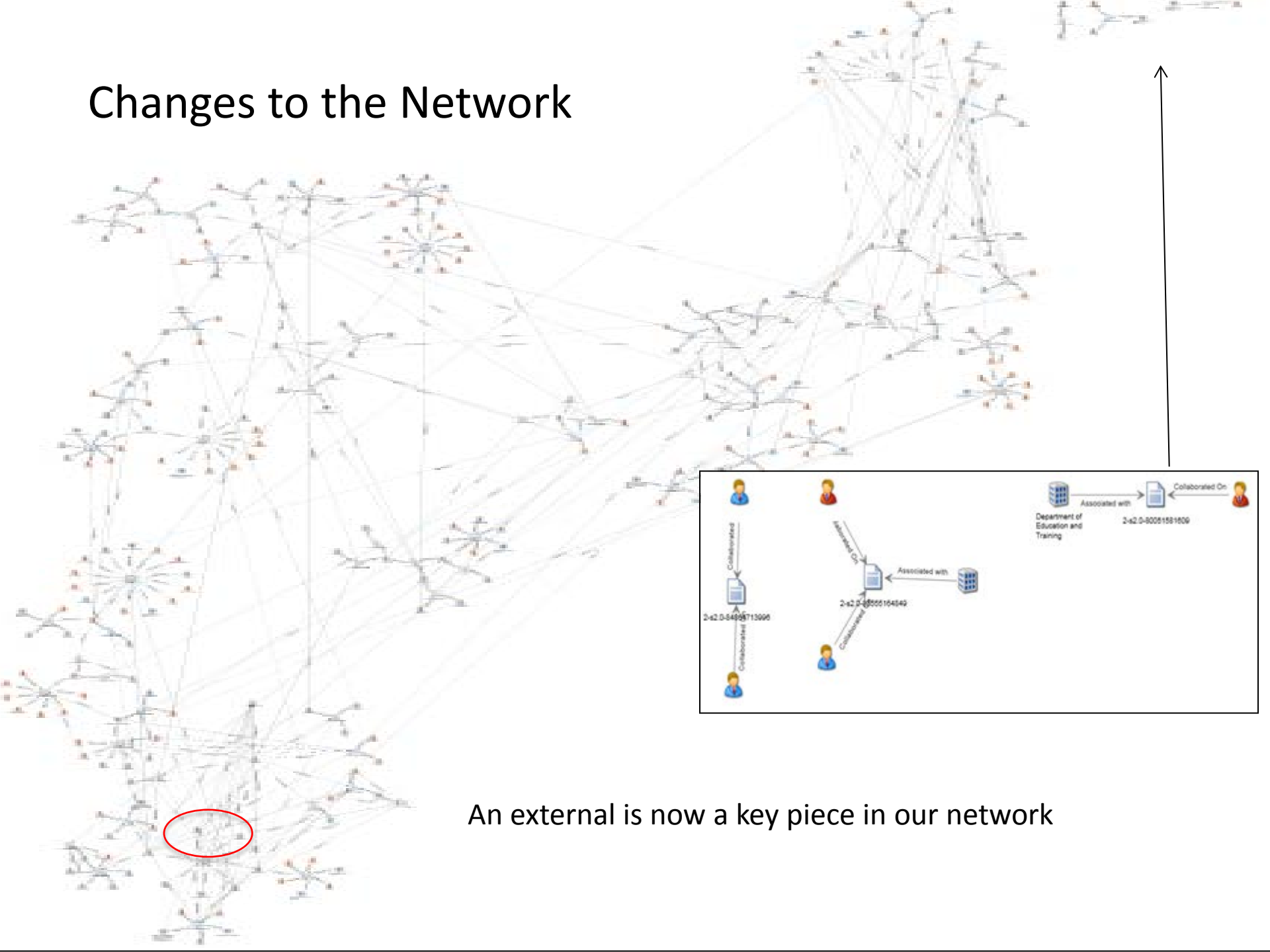
Highly collaborative academic



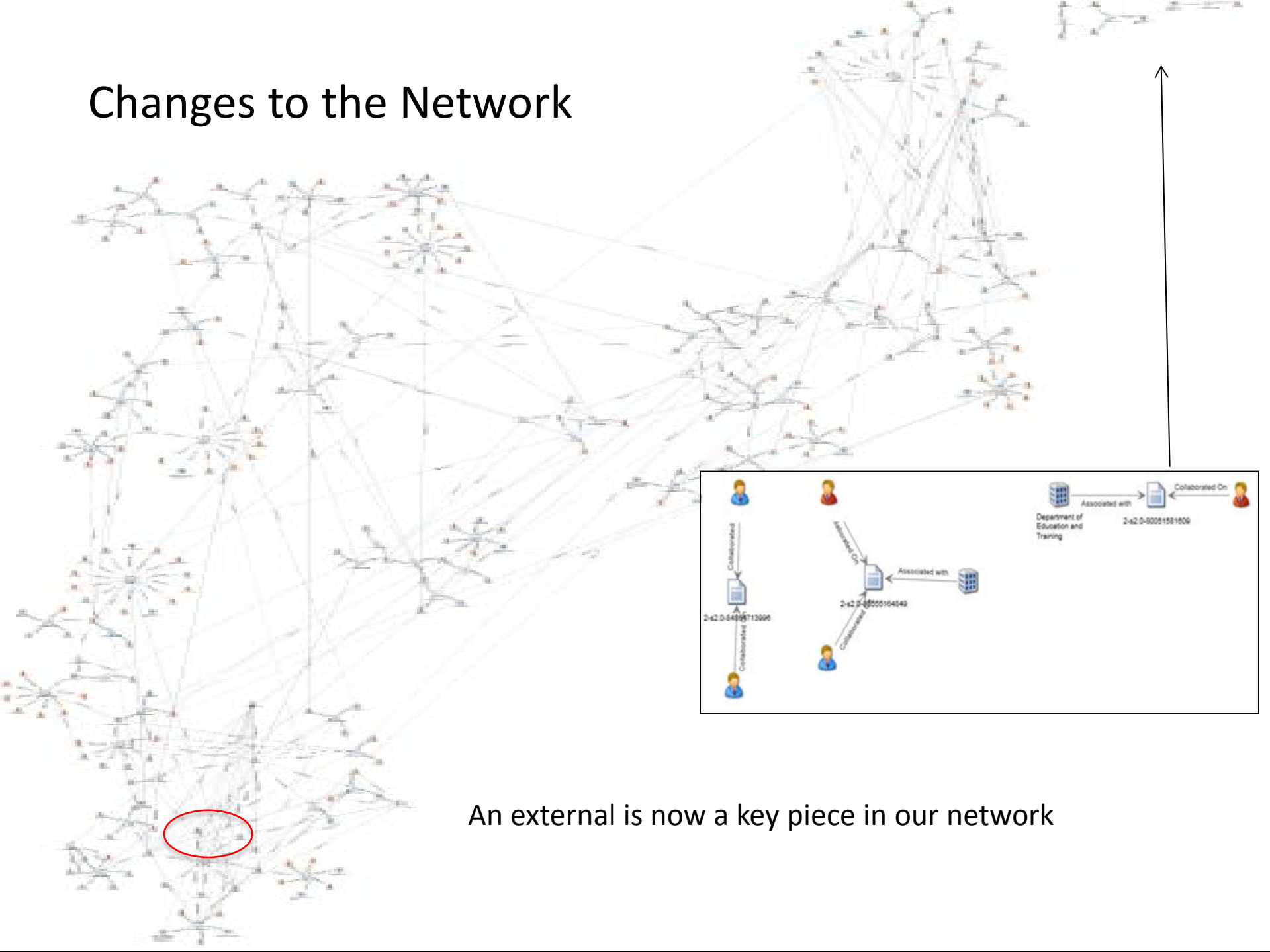
Changes to the Network



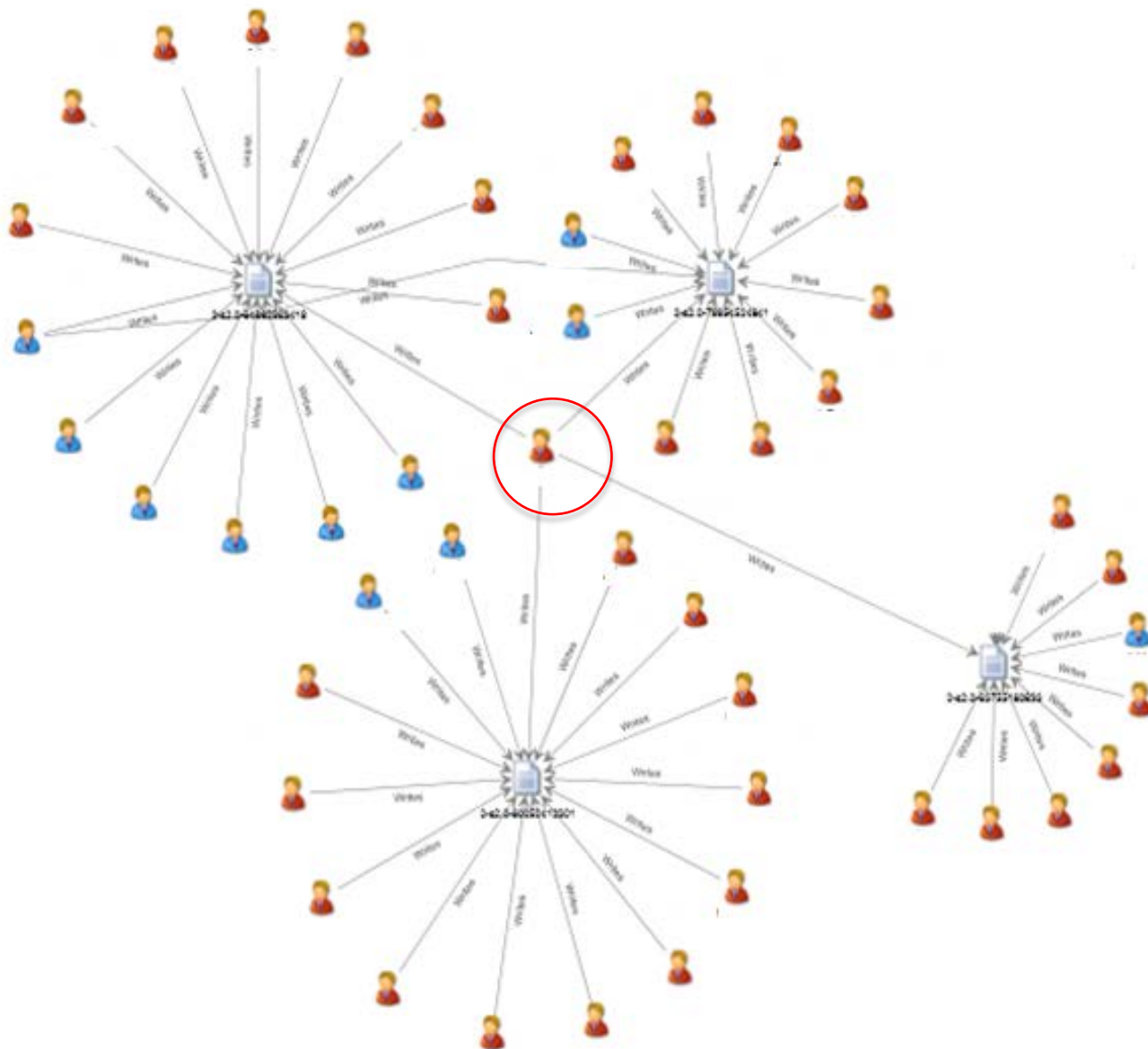
An external is now a key piece in our network



Changes to the Network



An external is now a key piece in our network



Summary Counts

Academic	Collaborations (people)	Number of Papers	Internal Academics	External Academics	Institutions
Researcher 1	208	76	98	110	41
Researcher 2	16	10	13	3	4
Researcher 3	43	17	30	13	9
Researcher 4	59	27	8	51	19
Researcher 5	17	4	0	17	8
Researcher 6	18	7	6	12	8
Researcher 7	5	3	0	5	2
Researcher 8	39	20	17	22	8

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
- Institutional Synergies
- Information as an Asset





Thank you

For further Information

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