

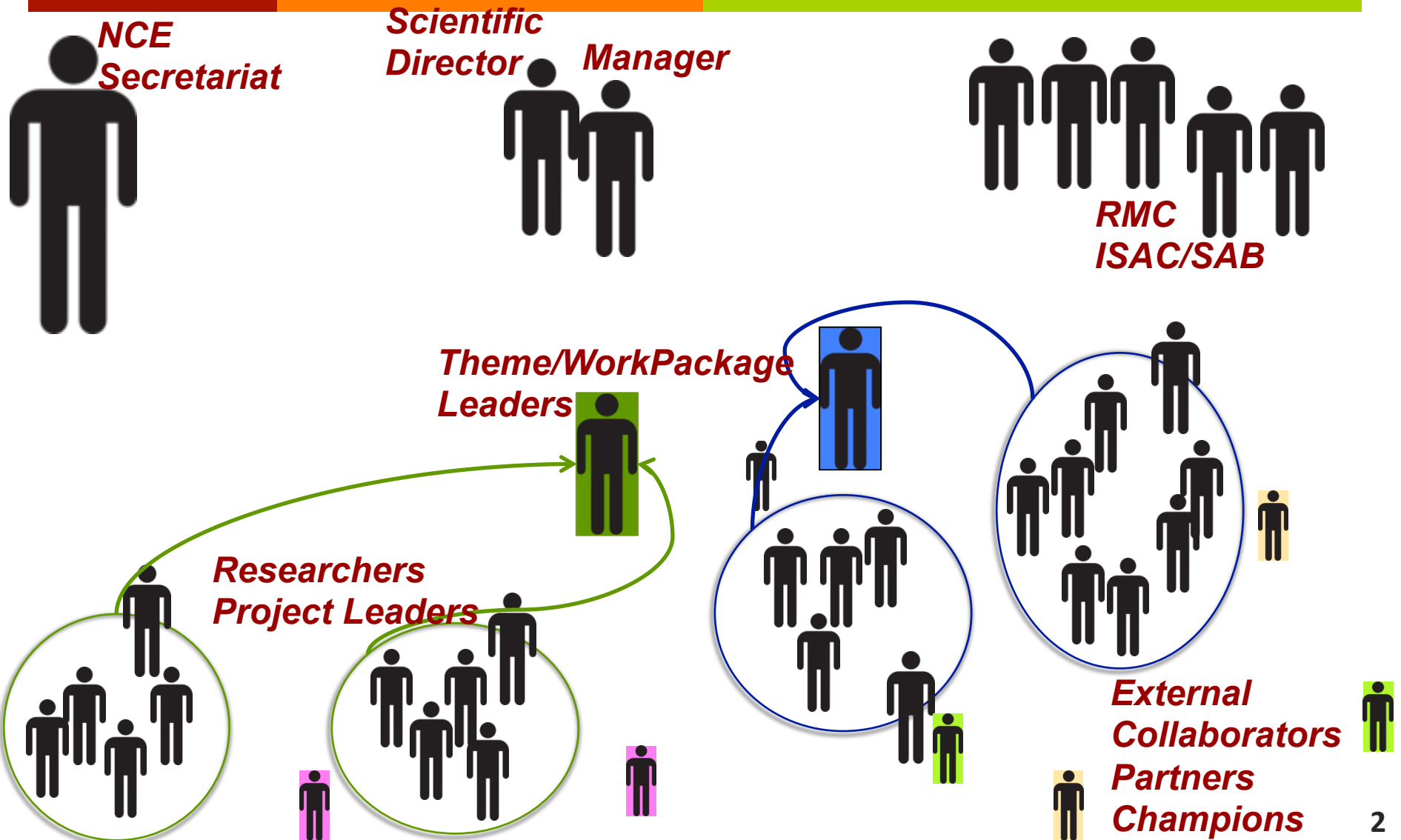


A Platform for Managing
Networked Interdisciplinary Research

Eleni Stroulia (University of Alberta)

stroulia@ualberta.ca

The Forum What does it do for me?



The Forum

What does it do for me?




For Researchers

- Interactive profile (served to external web sites)
- CCV maintenance
- Expertise finding through flexible faceted search
- Easy reporting
- Communication and Collaboration
 - mailing lists
 - wikis

Logging In

forum.glyconet.ca/index.php?title=Special:UserLogin&action=submitlogin&type=login

 Search...

Login

There is no user by the name of **eleni**. If you are an HQP and do not have an account, please ask your supervisor to create one for you.

You must have cookies enabled to log in to GlycoNet Forum.

Your login ID is a concatenation of your first and last names: **First.Last** (case sensitive) If you have forgotten your password please enter your login and ID and request a new random password to be sent to the email address associated with your Forum account.

Username:

Password:

☐ Remember my login on this computer


GlycoNet

Projects People Themes

Main Page

[GlycoNet Website](#) [Support](#)

Icons by [Iconic](#) & [Glyphicons](#).

 Powered By MediaWiki

If you do remember your password, leave it empty and a new temporary password will be sent to you.

Sometimes it get caught by the Spam filter (so see in there if you do not receive it within 15minutes)

Researcher Profiles

The profile data is always up to date.
The appearance is the same for logged in and anonymous visitors BUT logged in members have access to more data (based on their credentials).

GlycoNet Search...

People
Add Member
Edit Roles
Edit Relations

Products
Manage Products
Add/Edit Contribution
Add/Edit Multimedia
Review Duplicates

Other
Upload File
Logos/Templates
Other Tools

GlycoNet My Profile Manager My Mailing Lists My Reports

Todd Lowary Actions ▼

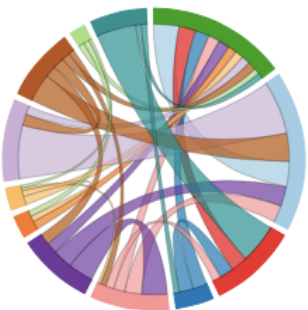
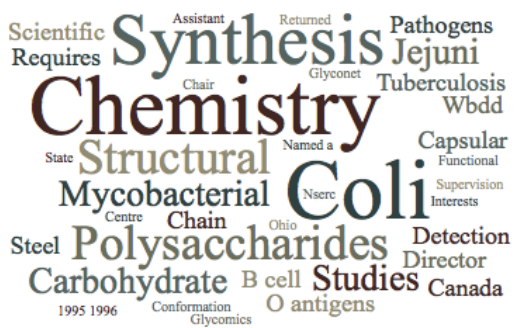
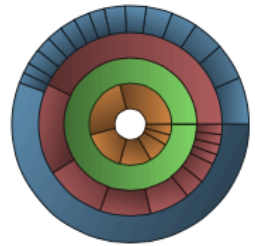
Bio Relations Dashboard Visualizations Data Quality Checks

Todd Lowary
Scientific Director
Chemistry
University of Alberta

Email: tlowary@ualberta.ca
Nationality: Canadian
Gender: Male
Website: www.chem.ualberta.ca
Phone Number: 780-492-1861

Profile

Todd L. Lowary received his B.A. in Chemistry from the University of Montana in 1988 and his Ph.D. in Organic Chemistry under the supervision of Professor Ole Hindsgaul at the University of Alberta in 1993. Subsequent postdoctoral research appointments were with Professor David R. Bundle at the University of Alberta (1993–1995), and Dr. Morten Meldal at the Carlsberg Laboratory in Copenhagen, Denmark (1995–1996). In 1996, he took a position in the Department of Chemistry at The Ohio State University as an Assistant Professor and in 2002 was promoted to Associate Professor with tenure. He returned to the University of Alberta in 2003, where he currently is a Professor in the Department of Chemistry. Group research interests are focused in the areas of carbohydrate chemistry and biochemistry, in particular as these fields relate to bacterial glycans. For several years, the group has carried out studies on the synthesis, conformation and biochemistry of furanoside-containing glycans from mycobacteria, including *Mycobacterium tuberculosis*, the organism that causes tuberculosis. More recently, work has focused on a program on synthesizing glycans from *Campylobacter jejuni*, a gut pathogen that produces carbohydrates with a wide degree of structural diversity. Recognitions include an EWR Steacie Memorial Fellowship and the Bernard Belleau Award from the Canadian Society for Chemistry (CSC). In 2011 he and four colleagues were co-recipients of the Brockhouse Canada Prize for Interdisciplinary Research in Science and Engineering from NSERC.

Legend

- Year
- Project
- University
- Co-authorship

Add Member

Edit Roles

Edit Relations

- Manage Products
- Add/Edit Contribution
- Add/Edit Multimedia
- Review Duplicates

Upload File

Logos/Templates

Other Tools

Christopher Cairo

Actions ▼

Projects

Relations

Dashboard

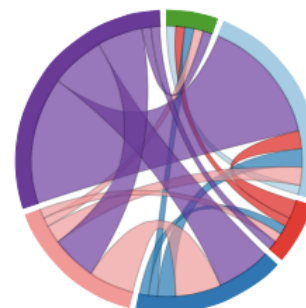
Visualizations

Data Quality Checks



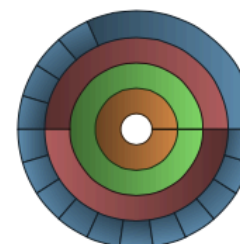
Associate Professor
Chemistry
University of Alberta

Email ccairo@ualberta.ca
Website www.chem.ualberta.ca



Profile

The Cairo research group studies the function of glycoproteins and glycolipids important in cancer and immunity. Research projects are at the chemistry-biology interface with major projects targeting the design of inhibitors for the human sialidase enzymes, the function of human milk oligosaccharides, the recognition of carbohydrate antigens in immune response, and bioconjugate labelling strategies for glycolipids and glycoproteins. The group's development of selective inhibitors for human sialidase enzymes may lead to new strategies for cancer therapeutics. Chris is originally from New York, where he obtained a BSc in Chemistry from the State University of New York (SUNY) Albany. He went on to graduate studies at the University of Wisconsin-Madison, in the group of Prof. Laura L. Kiessling where he worked on multivalent carbohydrate-protein interactions. Chris went on to an NIH-funded Postdoctoral fellowship with Prof. David E. Golan at Harvard Medical School where he studied the regulation of integrin adhesion proteins. Chris joined the University of Alberta in 2006 as an Assistant Professor of Chemistry, and was promoted to Associate Professor in 2012. He is a principal investigator in the Alberta Glycomics Centre (formerly the Alberta Ingenuity Centre for Carbohydrate Science, AICCS), and is a member of the Consortium for Functional Glycomics (CFG). Chris is a co-author on more than 50 publications, and is currently funded by NSERC and the Alberta Glycomics Centre. He has previously mentored 12 graduate and 10 undergraduate research students.



Legend

 Year
 Project
 University
 Co-authorship



Profile

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Logos/Templates

Other Tools

GlycoNet

My Profile

My Projects

My Mailing Lists

My Reports

Christopher Cairo

Actions

Bio


Projects

Relations

Dashboard

Visualizations

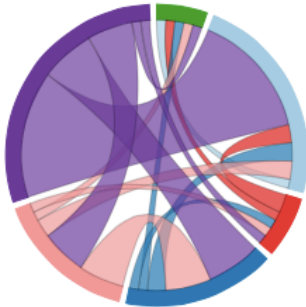
Data Quality Checks

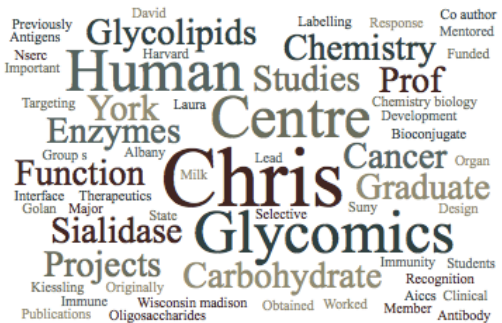


Christopher Cairo

Associate Professor
Chemistry
University of Alberta

Email: ccairo@ualberta.ca
Website: www.chem.ualberta.ca





Profile

The Cairo research group studies the function of glycoproteins and glycolipids important in cancer and immunity. Research projects are at the chemistry-biology interface with major projects targeting

Showing 1 to 10 of 118 entries

Previous

1

2

3

4

5

...

12

Next

Download CCV

Edit Profile


8

Adding New HQP

<

>

☐



People

Add Member

Edit Roles

Edit Relations

Products

Manage Products

Add/Edit Contribution

Add/Edit Multimedia

Review Duplicates

Other

Upload File

Logos/Templates

Other Tools

Add Member

Adding a member to the forum will allow them to access content relevant to the user roles and projects which are selected below. By selecting projects, the user will be automatically added to the projects on the forum, and subscribed to the project mailing lists. The new user's email must be provided as it will be used to send a randomly generated password to the user. After pressing the 'Submit Request' button, an administrator will be able to accept the request. If there is a problem in the request (ie. there was an obvious typo in the name), then you may be contacted by the administrator about the request.

First Name: *

Last Name: *

Email: *

Roles: *

☐ Associate Scientific Director

☐ BOD Chair

☐ Board of Directors

☐ Collaborator

☐ External

☐ Government

☐ HQP / Trainee

☐ Network Investigator

☐ Scientific Director

Associated Projects:

☐ AM-1

☐ AM-2

☐ AM-3

☐ AM-4

☐ AM-5

☐ AM-6

☐ AM-7

☐ CD-1

☐ CD-2

☐ CD-3

☐ DO-1

☐ DO-2

☐ RG-1

☐ RG-2

☐ RG-3

☐ RG-4

☐ RG-5

☐ TP-1

☐ TP-2

☐ TP-3

☐ TP-4

Institution:

University of Alberta

▼

Department:

Chemistry

▼

HQP Academic Status:

Other

⌵

Candidate?:

☒ No

☐ Yes

Submit Request

Managing Research Outputs

(Overview)

Data in standard formats can be ingested
Bibtex, DOI, CCV

Through this overview, **HQP and Researchers**

1. import all their products

People

- Add Member
- Edit Roles
- Edit Relations

Products

- Manage Products**
- Add/Edit Contribution
- Add/Edit Multimedia
- Review Duplicates

Other

- Upload File
- Logos/Templates
- Other Tools

Product Management

This page is used to manage all of your products. Products will show up in this list if one of the following conditions is true.

- You are listed as being one of the authors
- One of your HQP is listed as being one of the authors (only applicable to Supervisors)
- You were the person that created the product

Products which are listed as being 'Private' will not show up anywhere else on the forum except for on this page. To 'release' the product to the rest of the Forum, then uncheck the 'Private' checkbox. Once all of your changes are done, make sure to press the 'Save All' button.

Buttons: Add Product, Add From DOI, Upload CCV, Import BibTeX

Actions: Save All (0), Delete All Private (0)

Search:

Other		Product Information					
	Edit	Private	Date	Category	Type	Title	Authors
<input type="checkbox"/>		<input type="checkbox"/>	2014-12-01	Publication	Journal Paper	Application of Bacteriophage Cell Bindin...	Arutyunov D, Singh U, A El-Hawiet, Seck...
<input type="checkbox"/>		<input type="checkbox"/>	2014-08-01	Publication	Conference P...	Structural Studies of a Novel Sugar Nuc...	Sanders DAR, Dalrymple, SA, Poulin, MB...
<input type="checkbox"/>		<input type="checkbox"/>	2014-08-01	Publication	Journal Paper	Clinical validation of 'donor-specific' anti...	Mylvaganam Jeyakanthan, Meloncelli PJ,...
<input type="checkbox"/>		<input type="checkbox"/>	2014-01-01	Publication	Journal Paper	Specificity of a UDP-GalNAc pyranose-fu...	Poulin MB, Shi Y, Protsko Carla, Dalrympl...
<input type="checkbox"/>		<input type="checkbox"/>	2013-05-01	Publication	Conference P...	Structure and biosynthesis of a novel gl...	LM Willis, Stupak J, Richards MR, Todd L...
<input type="checkbox"/>		<input type="checkbox"/>	2013-05-01	Publication	Journal Paper	Conserved glycolipid termini in capsular...	LM Willis, Stupak J, Richards MR, Todd L...
<input type="checkbox"/>		<input type="checkbox"/>	2012-12-01	Publication	Journal Paper	Carbohydrate-Lipid Interactions. Affiniti...	L Liu, Yu Bai, N Sun, Li Xia, Todd Lowary...
<input type="checkbox"/>		<input type="checkbox"/>	2012-11-01	Publication	Journal Paper	Domain organization of the polymerizin...	LK Greenfield, Richards MR, Evguenii Vin...
<input type="checkbox"/>		<input type="checkbox"/>	2012-10-01	Publication	Journal Paper	Biosynthesis of the polymannose lipopol...	LK Greenfield, Richards MR, J Li, Warren...
<input type="checkbox"/>		<input type="checkbox"/>	2012-08-01	Publication	Journal Paper	Tetrameric structure of the Gift2 galact...	Wheatley RW, Zheng RB, Richards MR, T...

Managing Research Outputs

(Overview)

Data in standard formats can be ingested
Bibtex, DOI, CCV

Through this overview, **HQP and Researchers**

1. inspect all their products,
2. associate them with the right projects,
3. examine the names of the listed coauthors,
4. click-through to edit the details



















Product Management

This page is used to manage all of your products. Products will show up in this

- You are listed as being one of the authors
- One of your HQP is listed as being one of the authors (only applicable to S...
- You were the person that created the product

Products which are listed as being 'Private' will not show up anywhere else on the 'Private' checkbox. Once all of your changes are done, make sure to press

Search:

Other		Product Information					
	Edit	Private	Date	Category	Type	Title	Authors
<input type="checkbox"/>	 	<input type="checkbox"/>	2014-12-01	Publication	Journal Paper	Application of Bacteriophage Cell Bindin...	Arutyunov D, Singh U, A El-Hawiet, Seck...
<input type="checkbox"/>	 	<input type="checkbox"/>	2014-08-01	Publication	Conference P...	Structural Studies of a Novel Sugar Nuc...	Sanders DAR, Dalrymple, SA, Poulin, MB...
<input type="checkbox"/>	 	<input type="checkbox"/>	2014-08-01	Publication	Journal Paper	Clinical validation of 'donor-specific' anti...	Mylvaganam Jeyakanthan, Meloncelli PJ,...
<input type="checkbox"/>	 	<input type="checkbox"/>	2014-01-01	Publication	Journal Paper	Specificity of a UDP-GalNAc pyranose-fu...	Poulin MB, Shi Y, Protsko Carla, Dalrympl...
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<input type="checkbox"/>	 	<input type="checkbox"/>	2013-05-01	Publication	Journal Paper	Conserved glycolipid termini in capsular...	LM Willis, Stupak J, Richards MR, Todd L...
<input type="checkbox"/>	 	<input type="checkbox"/>	2012-12-01	Publication	Journal Paper	Carbohydrate-Lipid Interactions. Affiniti...	L Liu, Yu Bai, N Sun, Li Xia, Todd Lowary...
<input type="checkbox"/>	 	<input type="checkbox"/>	2012-11-01	Publication	Journal Paper	Domain organization of the polymerizin...	L K Greenfield, Richards MR, Evgenii Vin...
<input type="checkbox"/>	 	<input type="checkbox"/>	2014-01-01	Publication	Proceedings Paper	PhyDSL: A Code-generation Environment for 2...	Victor Guana, Eleni Stroulia

Managing Research Outputs

(Detailed View)

Application of Bacteriophage Cell Binding Proteins for the Detection of Mycobacteria

Title: Application of Bacteriophage Cell Binding Proteins for the

Authors

Current authors

- Arutyunov D
- Singh U
- A El-Hawiet
- Seckler HDS
- S Nikjah
- Maju Joe
- Yu Bai
- Todd Lowary
- John Klassen
- Evoy S

Search/Add authors: ?

- Cheng
- A Baergen
- A Brunkan-Lamontagne
- A Feurtado
- A Folkl
- A Giberson
- A Goldson
- A H
- A Johannis
- A Leney

Description

Information

Category: Publication

Type: Journal Paper

Visibility: Public

Public: Everyone including guests to the Forum
Forum: Only Forum members will be able to see

Adding Products

General information (for all product types) includes

1. title,
2. description,
3. coauthors.

Only one coauthor has to enter each product.

Configurable categories and (sub)types of products

Every product is associated with

1. its visibility scope (public, Forum, private)
2. its refereed status
3. Its associated projects
4. the date it was made available

Managing Research Outputs

(Detailed View)

Information

Category: Publication

Type: Journal Paper

Visibility: Public
• Public: Everyone including guests to the Forum will be able to view this product.
• Forum: Only Forum members will be able to view this product.

Status: Published

Date: 2014-12-01

Journal: Bacteriophage

Volume: e960346

Issue:

Page Range: 1-9

Publisher:

Editors:

ISBN:

ISSN:

DOI:

URL:

Peer Reviewed: ☒ Yes ☐ No

Adding Products

Each product category (and its types) is associated with additional fields relevant to the specific type

Each product can be associated with the projects that contributed to its production.

RBAC further governs visibility within the Forum

Related Projects

Other: ☐ **Current Projects**

Search...

☐ AM-1

☐ AM-2

Save Public

Researchers' Reports

Review Indicators

The screenshot shows the GlycoNet website interface. The top navigation bar includes the GlycoNet logo, a search bar, and a user profile dropdown. The left sidebar contains links for 'People' (Add Member, Edit Roles, Edit Relations), 'Products' (Manage Products, Add/Edit Contribution, Add/Edit Multimedia, Review Duplicates), and 'Other' (Upload File, Logos/Templates, Other Tools). The main content area displays the 'My Profile' page with tabs for Bio, Projects, Relations, Dashboard, Visualizations, and Data Quality Checks. The 'Dashboard' tab is active, showing 'Top Research Outcomes' and a 'Dashboard' section with a table of performance indicators.

Top Research Outcomes
You have not entered any *Top Research Outcomes* yet
[Edit Top Research Outcomes](#)

Dashboard

Projects	HQP	Activities	Artifacts	Awards	Presentations	Press	Publications	Multimedia	Contributions
Total:	0	0	0	0	0	0	0	0	\$0
AM-6	0	0	0	0	0	0	0	0	\$0
CD-2	0	0	0	0	0	0	0	0	\$0
Total:	0	0	0	0	0	0	0	0	\$0

[Manage Products](#)

The “Productivity Overview” Dashboard of the Researcher’s (Project’s) report summarizes products, funding, HQP, awards, etc.

In effect, it provides a complete overview of the “performance indicators” tracked.

Researchers' Reports

Textual Report Information

Open-ended Questions
require Textual Answers

They are based on tri-council
criteria.

The screenshot shows the GlycoNet website interface. The browser address bar displays the URL: `forum.glyconet.ca/index.php/Special:Report?report=Translation`. The website header includes the GlycoNet logo and a search bar. The navigation menu on the left is organized into three categories: **People** (Add Member, Edit Roles, Edit Relations), **Products** (Manage Products, Add/Edit Contribution, Add/Edit Multimedia, Review Duplicates), and **Other** (Upload File, Logos/Templates, Other Tools). The main navigation bar shows 'GlycoNet', 'My Profile', 'projects', 'My Mailing Lists', and 'My Reports'. Below this, a sub-menu indicates 'Catalyst' and 'Translational'. The 'My Reports' section is active, displaying a list of report sections: Instructions, Description, Budget, Milestones, Partner Letters, NI CCVs, Commercialization, Review, and Submit. The 'Instructions' section is expanded, showing a list of required documents for a complete application: 1. Project Description and References, 2. Figures/Schemes (a single PDF file), 3. Budget (a single Excel file), 4. Budget Justification, 5. Proposed Milestones (a single Excel File), 6. Letters of Support from Partners (as separate PDF Files, as separate PDF Files, Phase I, not required but encouraged; Phase II required), 7. CCV (CIHR Academic Format) for each Network Investigator (as separate PDF files), and 8. Commercialisation plan provided by the Technology Transfer Office of the Project Leader's Institution (a single PDF file). The deadline is stated as 'Midnight PST Sunday, September 13, 2015'. A note specifies that 'Protected Intellectual Property related to the project is required for both Phase I and Phase II applications.' The sidebar also includes an 'Options' section with checkboxes for 'Full-Window Mode' and 'Autosave' (set to 'On'), and a 'Backup' link.

Instructions

A complete application consists of:

1. Project Description and References
2. Figures/Schemes (a single PDF file)
3. Budget (a single Excel file)
4. Budget Justification
5. Proposed Milestones (a single Excel File)
6. Letters of Support from Partners (as separate PDF Files, as separate PDF Files, Phase I, not required but encouraged; Phase II required)
7. CCV (CIHR Academic Format) for each Network Investigator (as separate PDF files)
8. Commercialisation plan provided by the Technology Transfer Office of the Project Leader's Institution (a single PDF file).

Deadline: Midnight PST Sunday, September 13, 2015

Note: Protected Intellectual Property related to the project is required for both Phase I and Phase II applications.

Options

Full-Window Mode: ☐

Autosave: ☒ On ☐ Off

Backup

For Project and Theme Leaders

- High-quality data from the people in the best position to give it
 - Information is entered once and flows “upwards”
 - Text entries are cross-referenced (with embedded links) with individuals, projects and products
- Leads and researchers collaborate on the reporting process

For Evaluators (RMC and ISAC)

- Access to concise PDF documents and corresponding online materials
- Configurable evaluation forms
 - Open-ended comments
 - Ranking
 - Menu choices
- Online discussion among reviewers
- Feedback management
- ➔ Effective, efficient (and auditable) review and assessment

For the Scientific Director and Network Manager

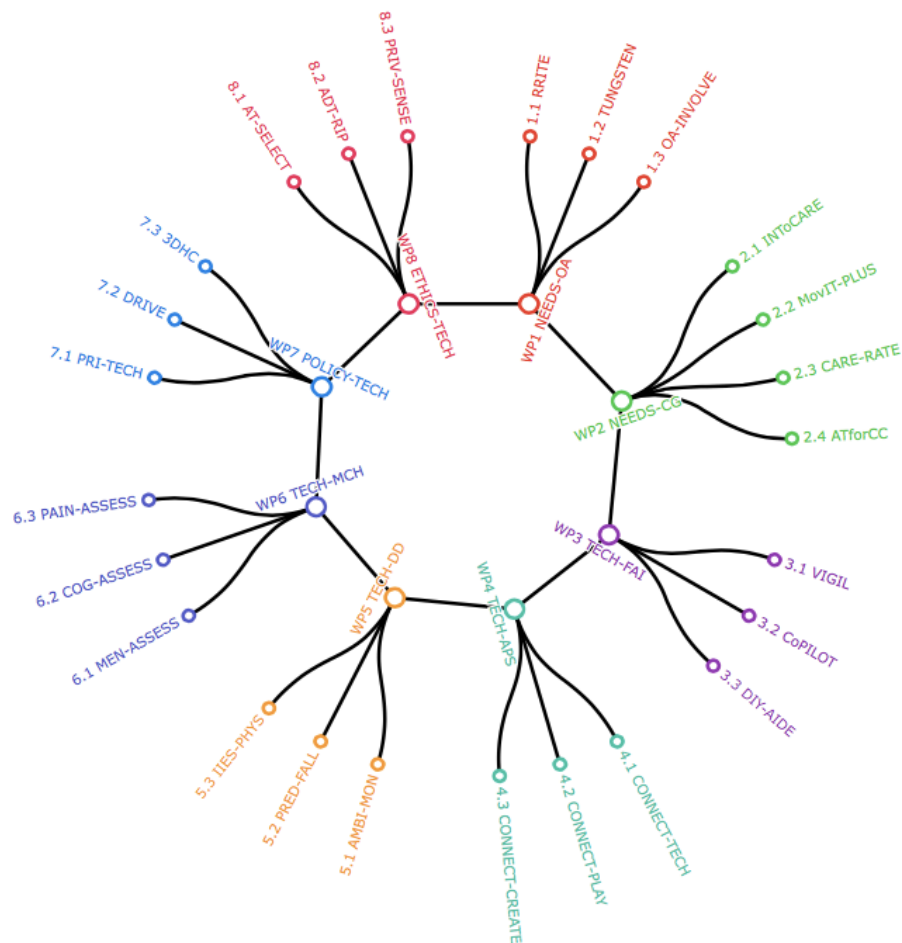
- Analyses (Tabular Reports) and Interactive Visualizations
 - Research output relative to human resources
 - Research output relative to funding
 - Connectivity and cohesion
- Polls and Surveys
 - “Taking the community’s pulse”
- Communications
 - Mailing lists for internal and external communities
 - “Nuggets” for media stories

Aggregate tables of reports+reviews are produced

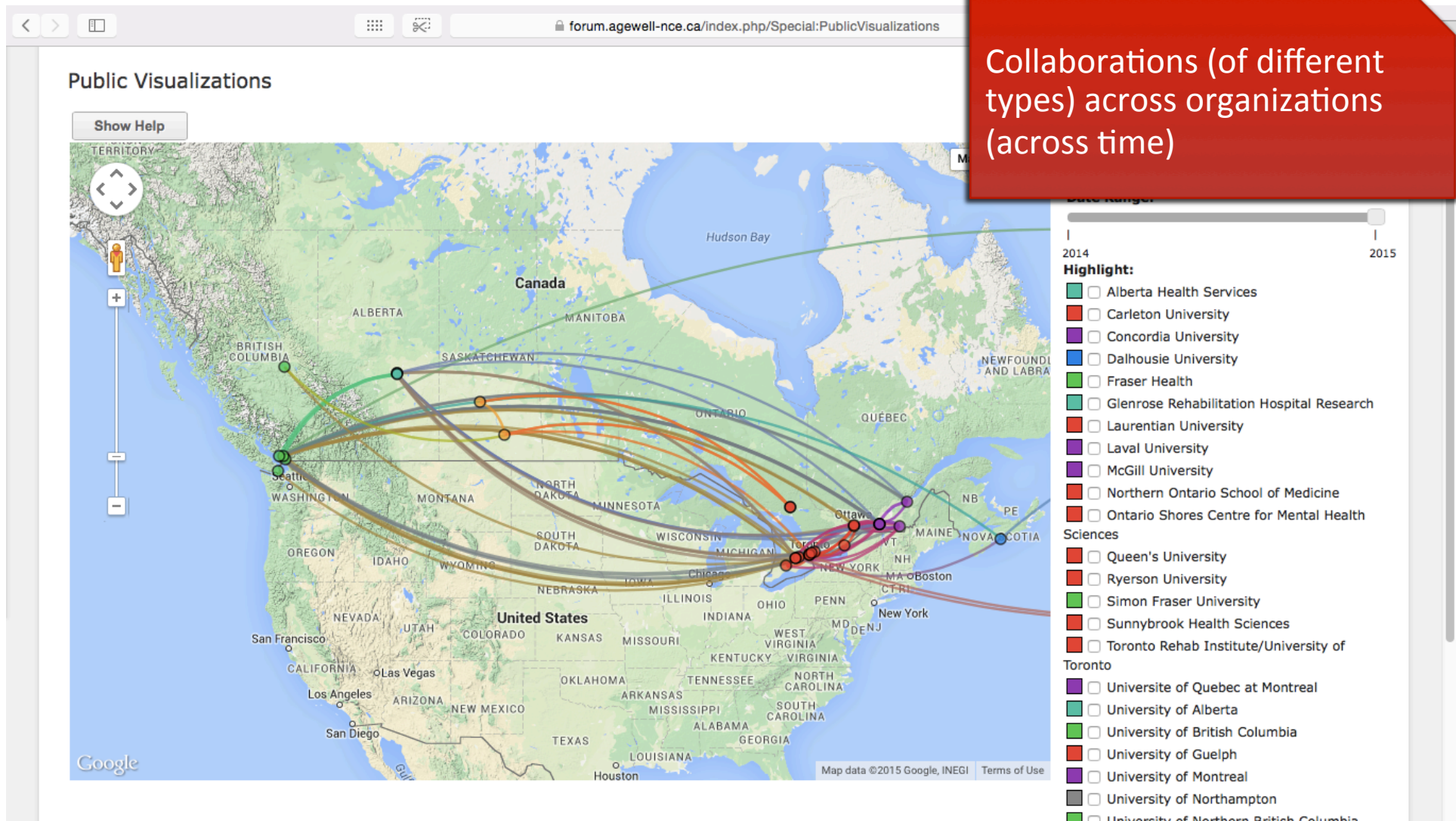
Comparing the productivity indicators of multiple researchers...

NCE Conceptual Organization

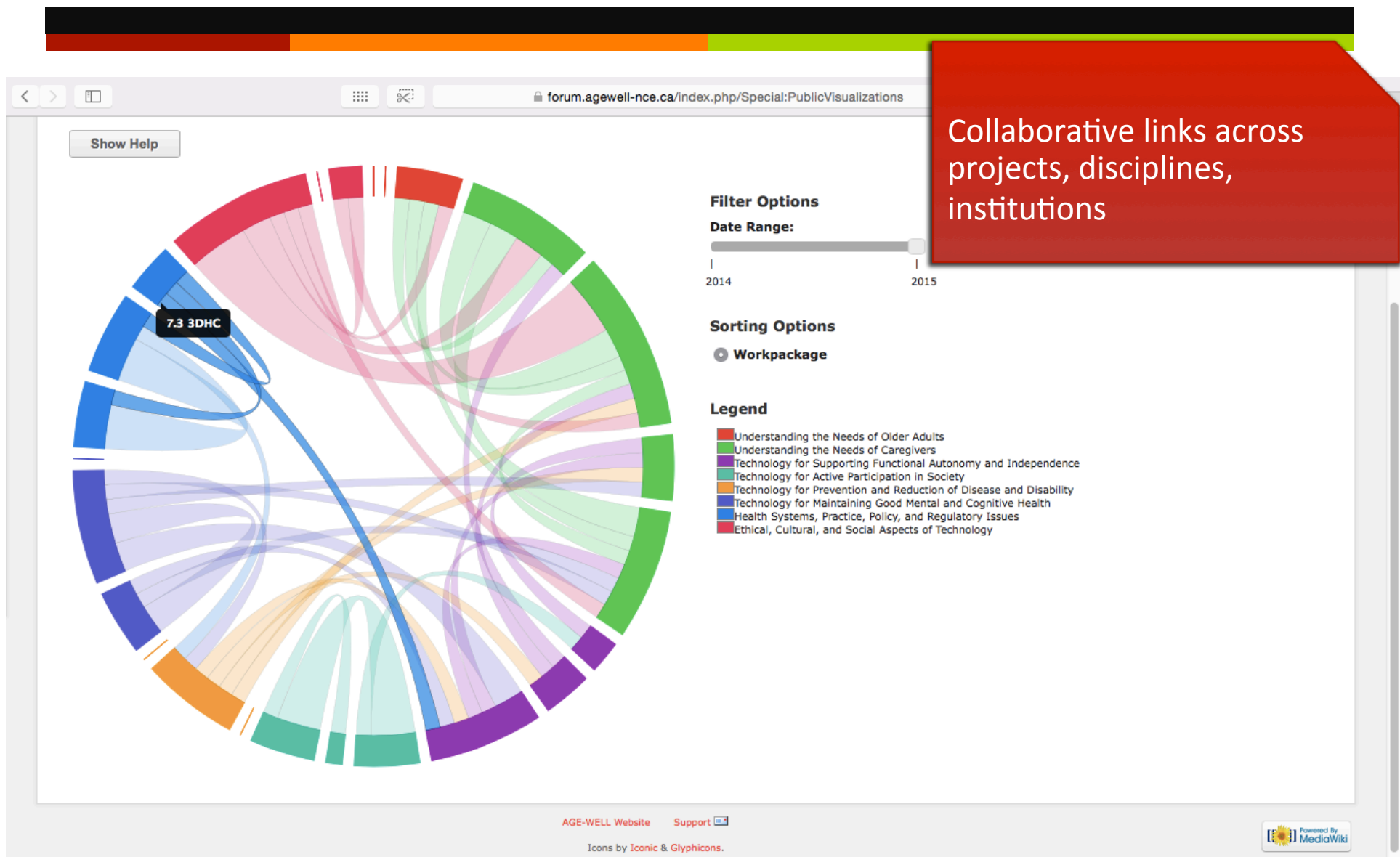
The network thematic organization



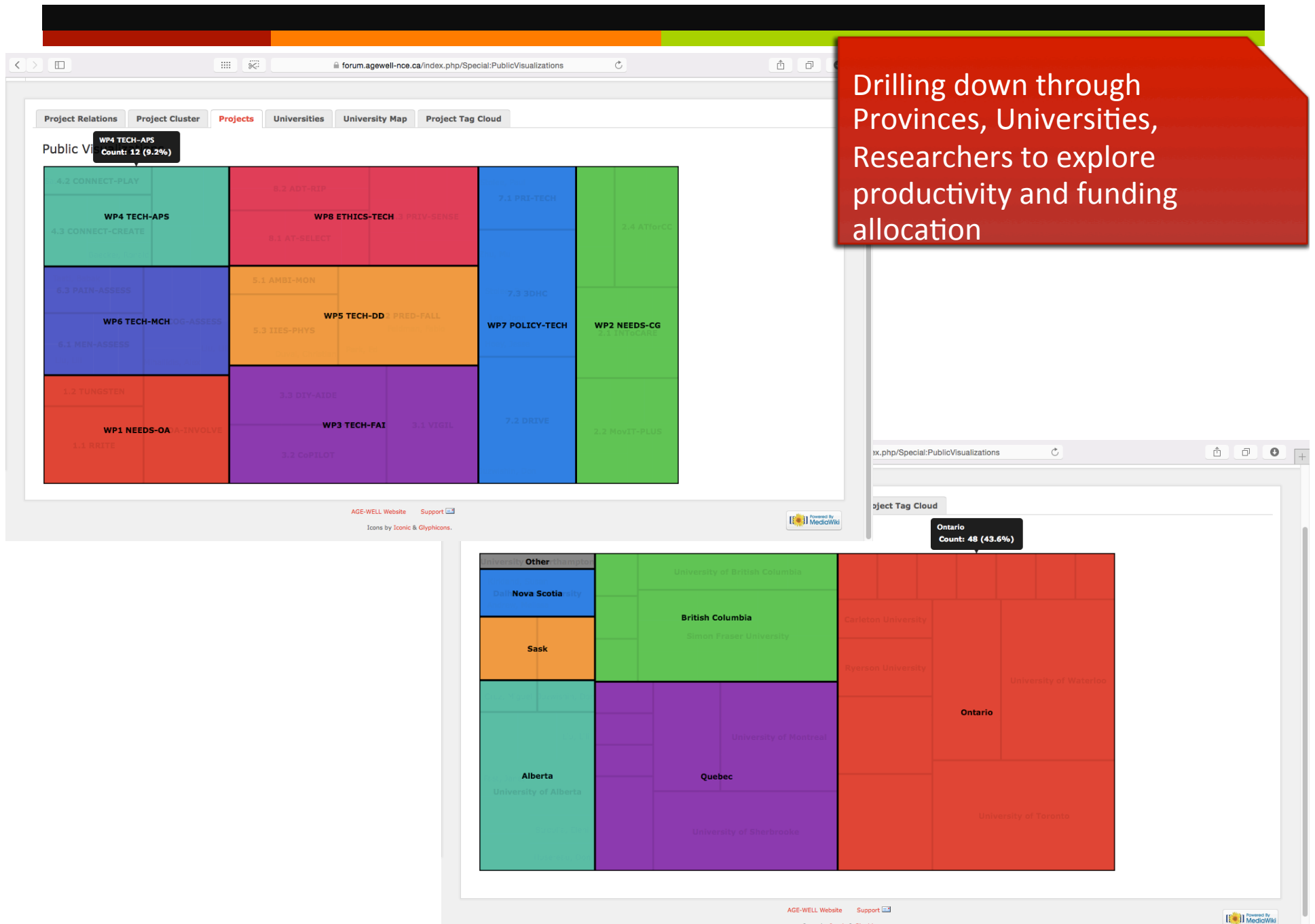
The NCE Geography



Connections



Relative Indicators



For the NCE Secretariat

- High-quality NCE tables
 - Always available and up to date
 - “good” data – sanity checks (incl. duplicate detection)
identify problems

Reports: NCE Tables

The NCE Reports are always up to date
More reports (beyond the NCE required ones) have been developed

[Inactive Users](#) [NCE](#) [RMC Meeting](#) [Reporting Stats](#) [Visualizations](#) [Empty Emails](#) [Impersonate](#) [Duplicates](#) [Project Evolution](#)

[2014-2015](#) [2015](#) [2014](#)

Evaluation Tables: NCE

Jan2014-Mar2015

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4 NCE tables

- 2.1 Table 2.1: Contributions
- 2.2 Table 2.2: Contributions by Projects
- 4.1 Table 4: Number of Graduate Students Working on Network Research
- 4.2a Table 4.2a: HQP Breakdown by University
- 4.2b Table 4.2b: HQP Breakdown by Project
- 4.3 Table 4.3: NI Breakdown by University
- 4.4 Table 5: Post Network employment of graduate students
- 4.5 Table 6: Dissemination of Network Research Results and Collaborations
- 4.6 Table 7: Publications list
- 4.7 Table 8: Project Budget Requests

[Privacy policy](#) [About AGE-WELL Forum](#) [Disclaimers](#) [Support](#)

Icons by [Iconic & Glyphicons](#).



Some Notes on System Engineering

- Service-Oriented Architecture
- Development process
 - version control
 - continuous deployment
 - Development on a sandbox with fake data (development team)
 - Testing on a sandbox with actual data (chosen users)
 - Deployment on the production system
 - testing with standard sequences
- Quality control
 - access-control auditing

In Conclusion

➤ The Forum

- addresses the needs of most stakeholders
- is extendible and easy to integrate with external systems