



Generating Reliable Collaboration Data:

A Proof-of-Concept Project Using Research Administration Data

Christopher Perkins

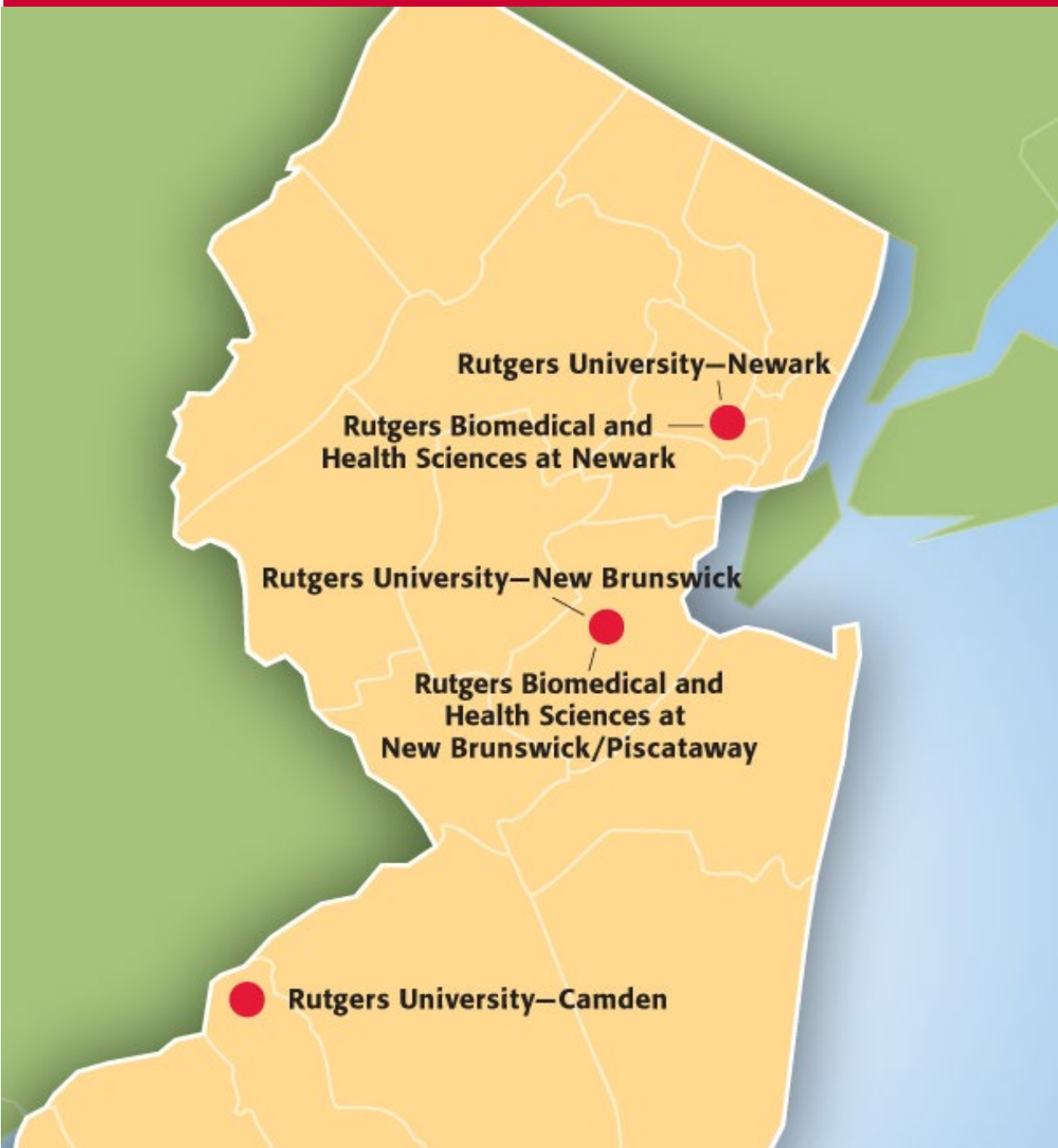
Director, Data, Analytics & Business Intelligence

Julia Zappi

Senior Data Analyst, Data, Analytics & Business Intelligence



RUTGERS
THE STATE UNIVERSITY
OF NEW JERSEY



LEADER IN THE STATE

- First in New Jersey and 64th nationally on *Forbes*' list of 500 best large employers in America
- 6,000+ acres across New Jersey
- 900+ buildings spanning 30 million+ square feet
- 300+ research centers and institutions
- 29 decanal units
- 40+ research cores

INCLUSIVE AND DIVERSE

- Among the most ethnically diverse campuses in the nation and Big Ten
- 67,620 students representing all 50 states and over 120 countries
- 23,600+ full- and part-time faculty, full- and part-time staff, and international scholars

RESEARCH UNIVERSITY

- \$900+ million in sponsored awards funding annually
- \$12M in licensing revenue annually
- ~4,000+ sponsored awards annually
- ~1,600 PIs receiving awards annually
- 1,197 active issued worldwide patents
- 100+ active startups

Data, Analytics & Business Intelligence



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Kat Demarco
Data Analyst

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Project Context

Request: Count collaborations across the university to identify potential areas for cluster hiring.

Brainstorming

What even is this?

Include

X

Awd 1	CAP	History
Awd 1	CAP	History
Awd 1	SZ	Math
Awd 1	KD	Science
Awd 2	SEP	English
Awd 2	AWP	Arts
Awd 2	Sarah	Arts
Awd 3	Sarah	Arts
Awd 3	CAP	History

Dept

Math	a
Science	a
History	b
History	b
Arts	a
English	b
English	b
History	a
Arts	b

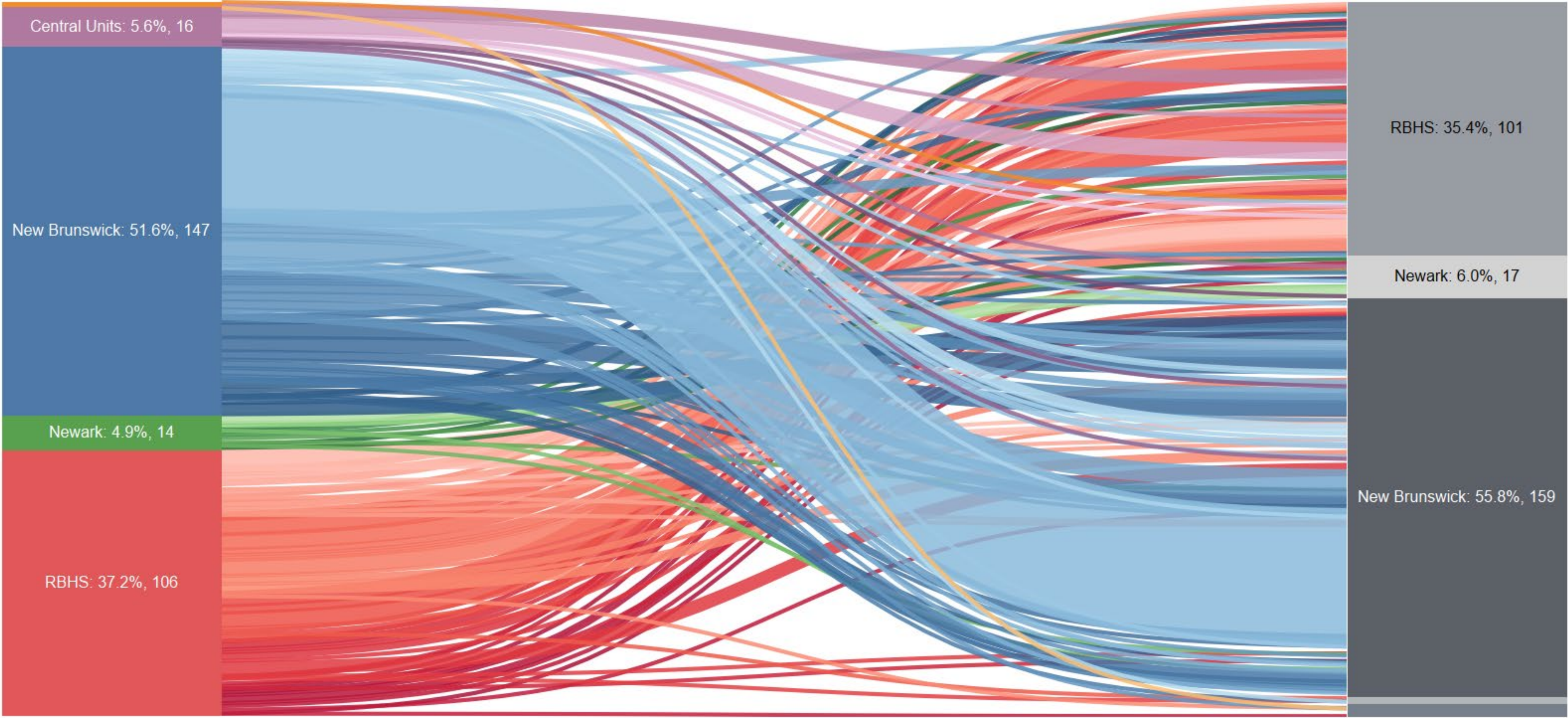
{ Fixed (Award #) : (If =a then Count (Dept)) + (If =b then Count (Dept))) }

FY 2023 Collaborations Between Different Departments Within a Single ORACLE Award

Camden Central Units New Brunswick Newark RBHS

Award Units

Project Units

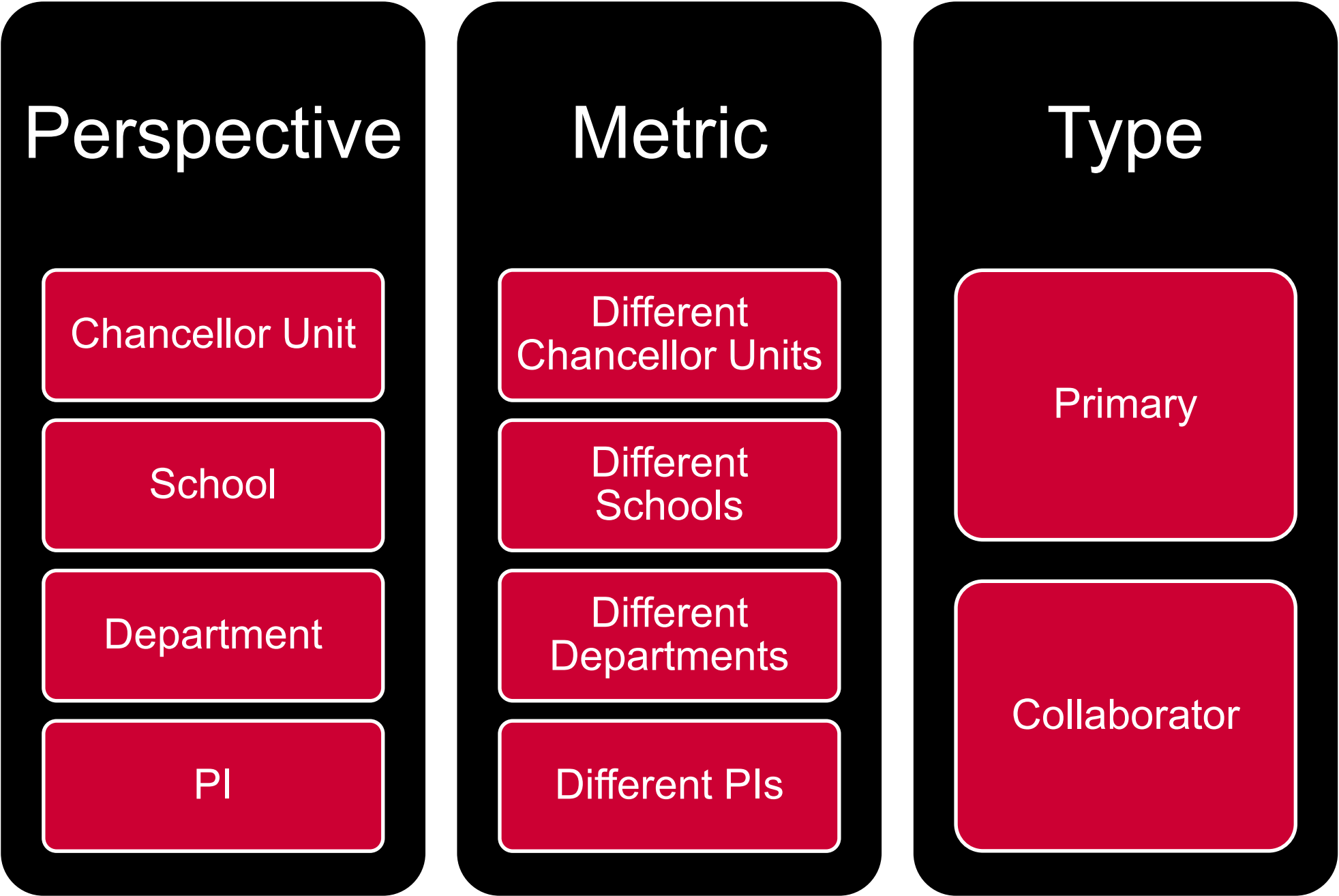


*A collaboration is defined as a Project PI's department being different than the Award PI's department. Each different Project PI department is counted only once per Award. A given Award can have zero, one or more collaborations. Awards with zero collaborations are excluded from this report.

Defining Key Metrics

- 1 Standardizing unit definitions
- 2 Identifying collaboration projects by source
- 3 Differentiate levels of collaboration
- 4 Identify dates for change over time evaluations

Defining & Counting Collaborations



Viabile and Available Data



Sponsored Award
Expenditure Data

Financial System



Human Subject Protocols

eIRB



Publications

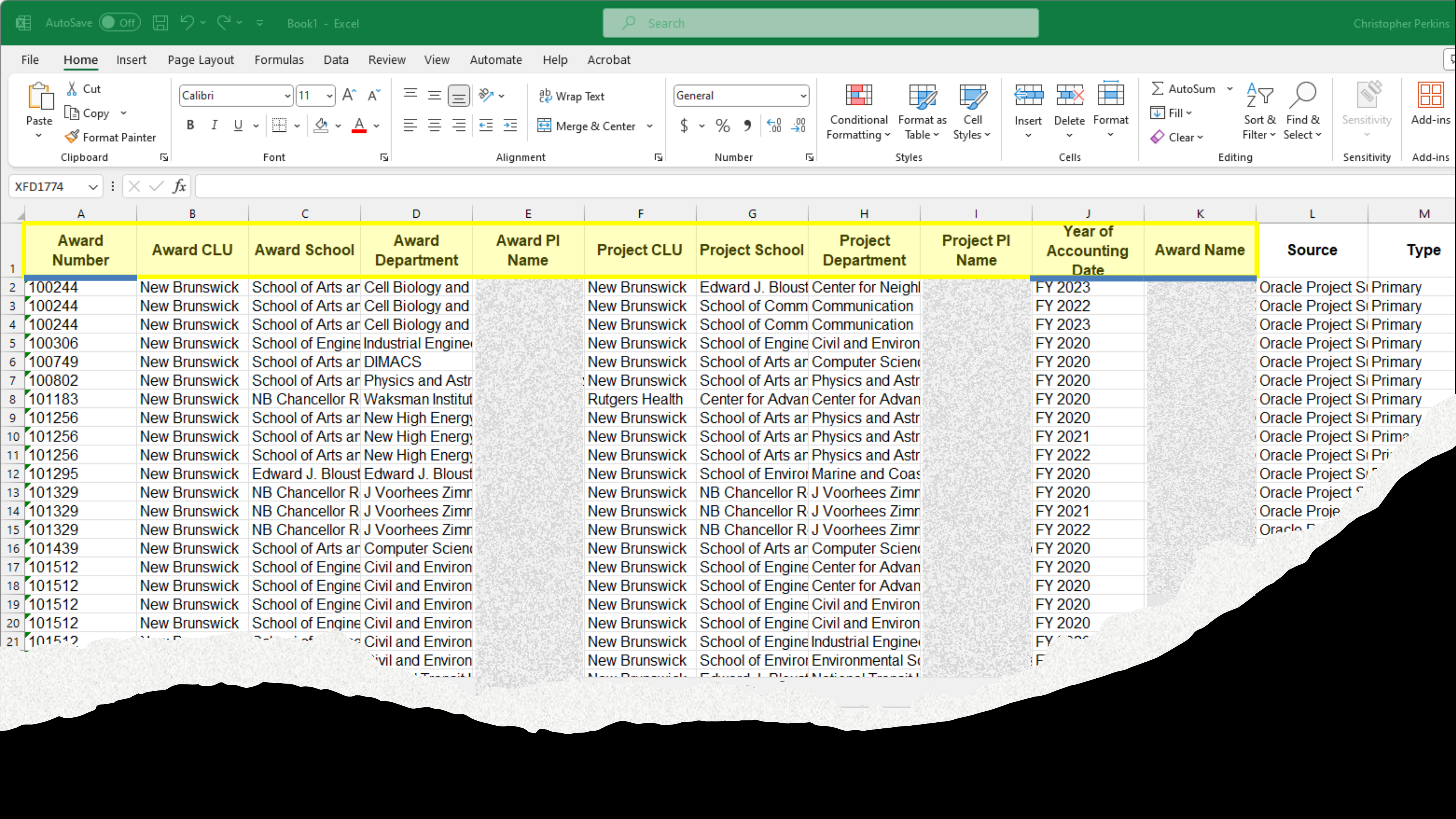
Research With Rutgers

Data Structure

- 1 Simple but expandable
- 2 Scalable
- 3 Ready for interactive dashboards

The image shows two icons from the Microsoft Excel ribbon. On the left is the 'Sensitivity' icon, which consists of a square with a diagonal line and a small square in the top right corner. Below it is the text 'Sensitivity' and a small downward-pointing arrow. On the right is the 'Add-ins' icon, which consists of a square divided into four smaller squares. Below it is the text 'Add-ins'.

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Award Number	Award CLU	Award School	Award Department	Award PI Name	Project CLU	Project School	Project Department	Project PI Name	Year of Accounting Date	Award Name	Source	Type
2	100244	New Brunswick	School of Arts and Sciences	Cell Biology and Physiology	Edward J. Bloustein	New Brunswick	Edward J. Bloustein	Center for Neighborhood Development		FY 2023	Oracle Project Support		Primary
3	100244	New Brunswick	School of Arts and Sciences	Cell Biology and Physiology		New Brunswick	School of Communication	Communication		FY 2022			Primary
4	100244	New Brunswick	School of Arts and Sciences	Cell Biology and Physiology		New Brunswick	School of Communication	Communication		FY 2023			Primary
5	100306	New Brunswick	School of Engineering	Industrial Engineering		New Brunswick	School of Engineering	Civil and Environmental		FY 2020			Primary
6	100749	New Brunswick	School of Arts and Sciences	DIMACS		New Brunswick	School of Arts and Sciences	Computer Science		FY 2020			Primary
7	100802	New Brunswick	School of Arts and Sciences	Physics and Astronomy		New Brunswick	School of Arts and Sciences	Physics and Astronomy		FY 2020			Primary
8	101183	New Brunswick	NB Chancellor's Research	Waksman Institute		Rutgers Health	Center for Advanced Research	Center for Advanced Research		FY 2020			Primary
9	101256	New Brunswick	School of Arts and Sciences	New High Energy Physics		New Brunswick	School of Arts and Sciences	Physics and Astronomy		FY 2020			Primary
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12	101295	New Brunswick	Edward J. Bloustein	Edward J. Bloustein		New Brunswick	School of Environmental and Marine Sciences	Marine and Coastal Sciences		FY 2020			Primary
13	101329	New Brunswick	NB Chancellor's Research	J. Voorhees Zimmerman		New Brunswick	NB Chancellor's Research	J. Voorhees Zimmerman		FY 2020			Primary
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16	101439	New Brunswick	School of Arts and Sciences	Computer Science		New Brunswick	School of Arts and Sciences	Computer Science		FY 2020			Primary
17	101512	New Brunswick	School of Engineering	Civil and Environmental		New Brunswick	School of Engineering	Center for Advanced Research		FY 2020			Primary
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20	101512	New Brunswick	School of Engineering	Civil and Environmental		New Brunswick	School of Engineering	Civil and Environmental		FY 2020			Primary
21	101512	New Brunswick	School of Engineering	Civil and Environmental		New Brunswick	School of Engineering	Industrial Engineering		FY 2020			Primary
							New Brunswick	School of Environmental and Marine Sciences	Environmental Sciences			FY 2020	
						New Brunswick	Edward J. Bloustein	National Transportation		FY 2020		Primary	



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PasteCutCopyFormat PainterClipboard

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BBIUFont

AlignmentMerge & Center

GeneralNumber

Conditional FormattingFormat as TableCell Styles

InsertDeleteFormatCells

AutoSumFillClearEditing

Sort & FilterFind & SelectSensitivityAdd-ins

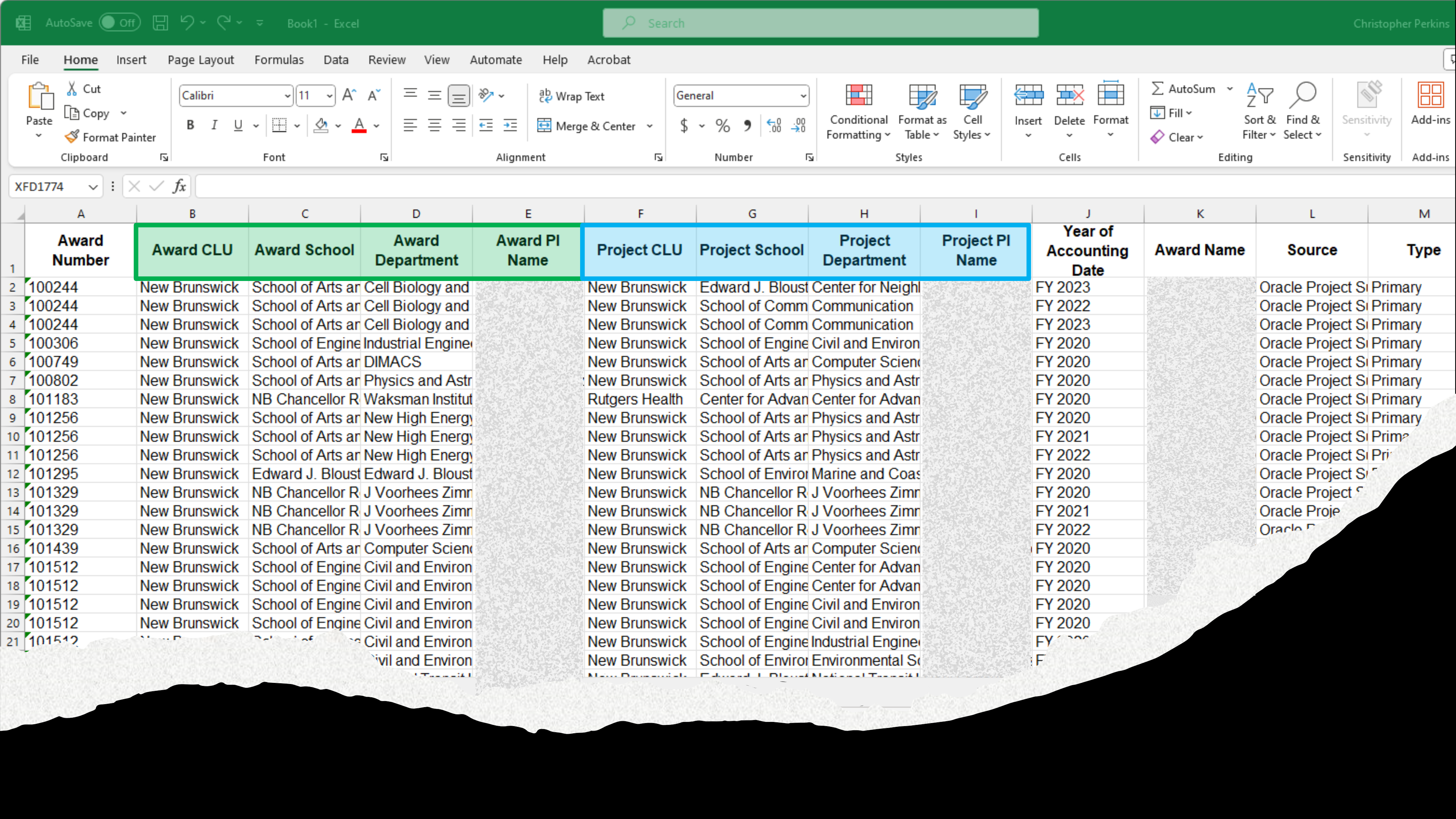
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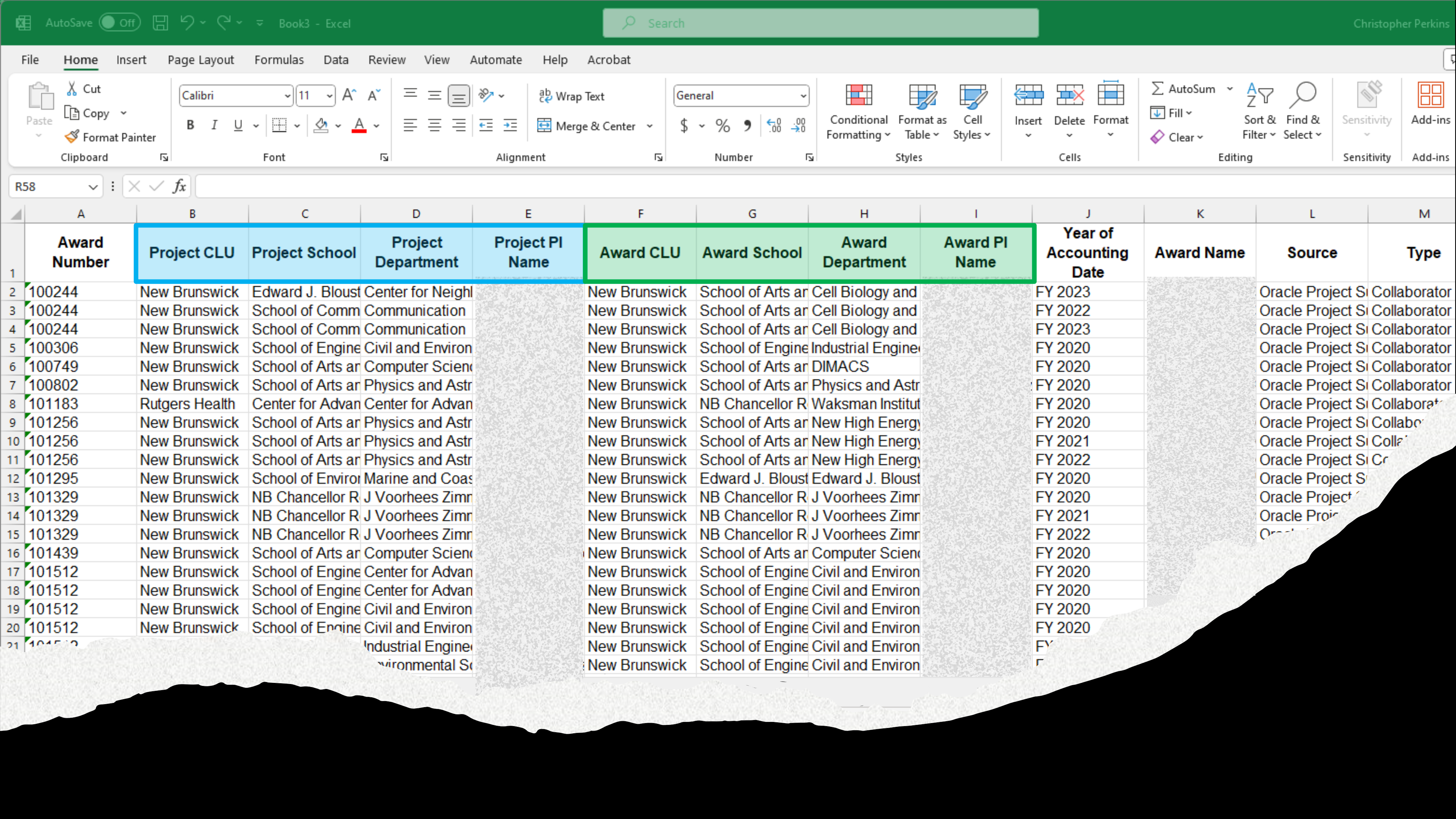
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21	101512	New Brunswick	School of Engineering	Civil and Environmental Engineering		New Brunswick	School of Engineering	Industrial Engineering		FY 2020		Oracle Project Support	Primary

	
Sensitivity	Add-ins
Sensitivity	Add-ins

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						New Brunswick	School of Environmental and Life Sciences	Environmental Sciences		FY 2020		Oracle Project Support	Primary

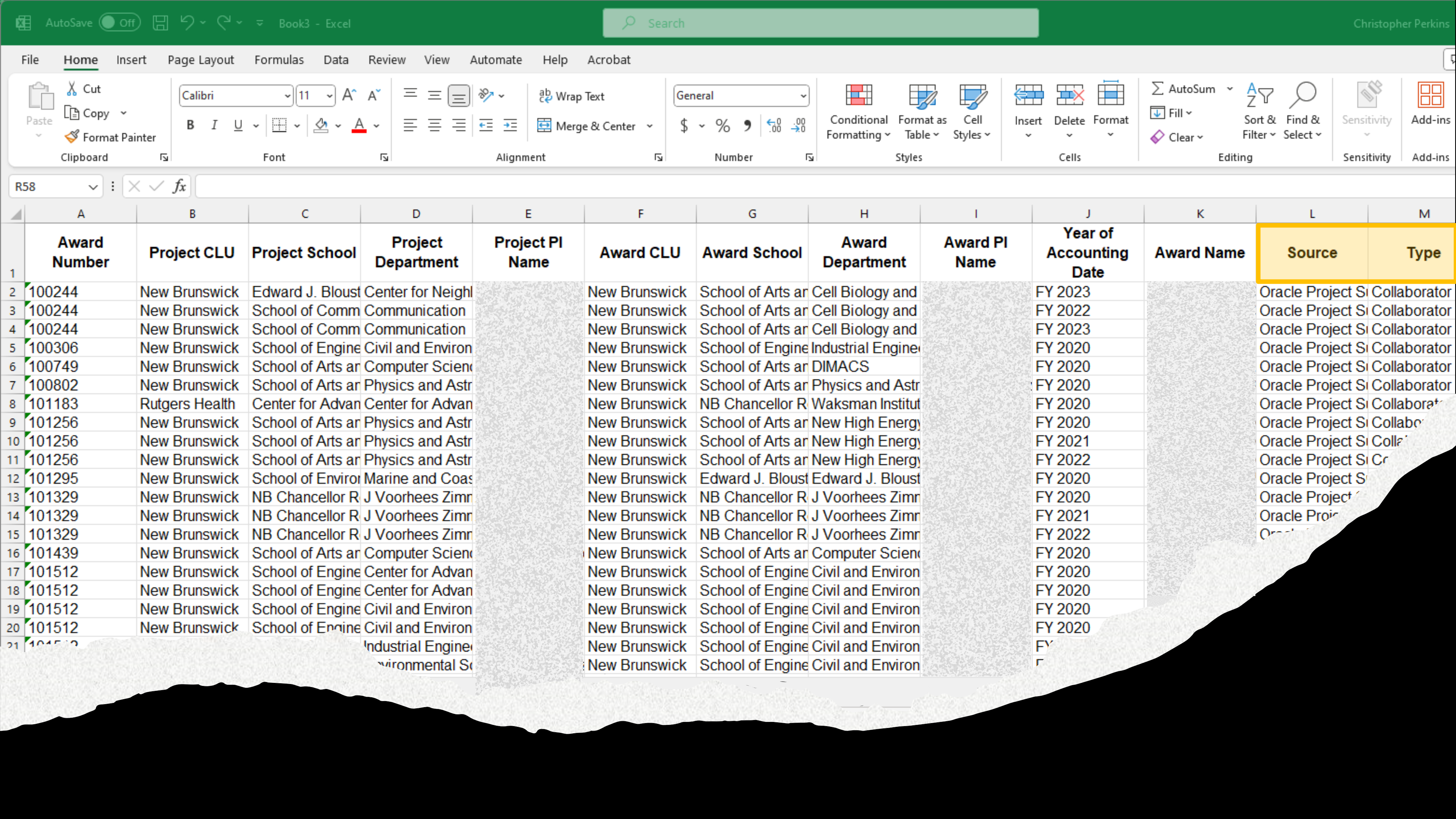


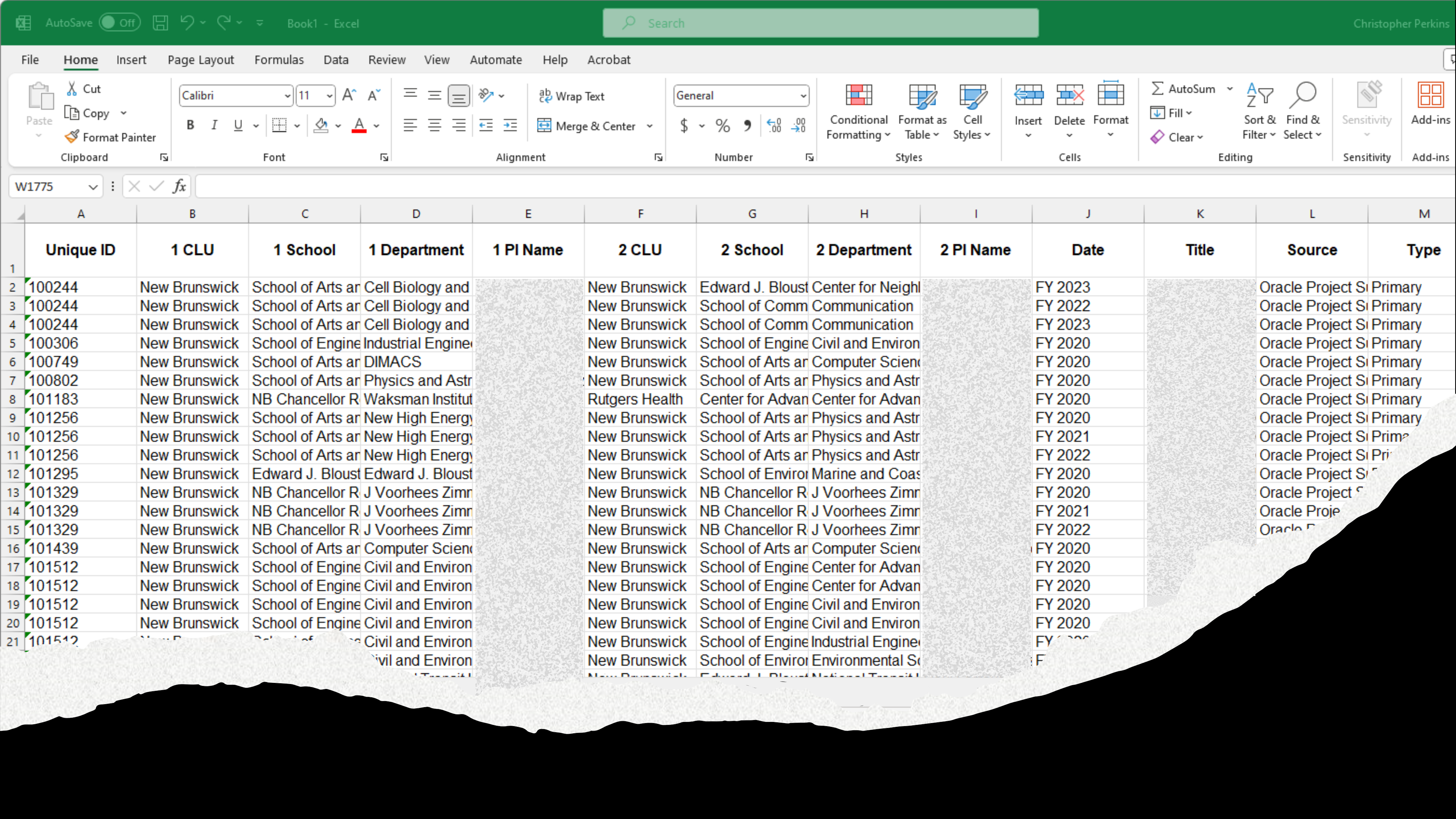
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8	101183	Rutgers Health	Center for Advan	Center for Advan		New Brunswick	NB Chancellor R	Waksman Institut		FY 2020		Oracle Project Si	Collaborat
9	101256	New Brunswick	School of Arts ar	Physics and Astr		New Brunswick	School of Arts ar	New High Energy		FY 2020		Oracle Project Si	Collabo
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12	101295	New Brunswick	School of Enviror	Marine and Coas		New Brunswick	Edward J. Bloust	Edward J. Bloust		FY 2020		Oracle Project S	
13	101329	New Brunswick	NB Chancellor R	J Voorhees Zimr		New Brunswick	NB Chancellor R	J Voorhees Zimr		FY 2020		Oracle Project	
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				Environmental Sc		New Brunswick	School of Engine	Civil and Environ		F			





Chancellor Unit Collaborations

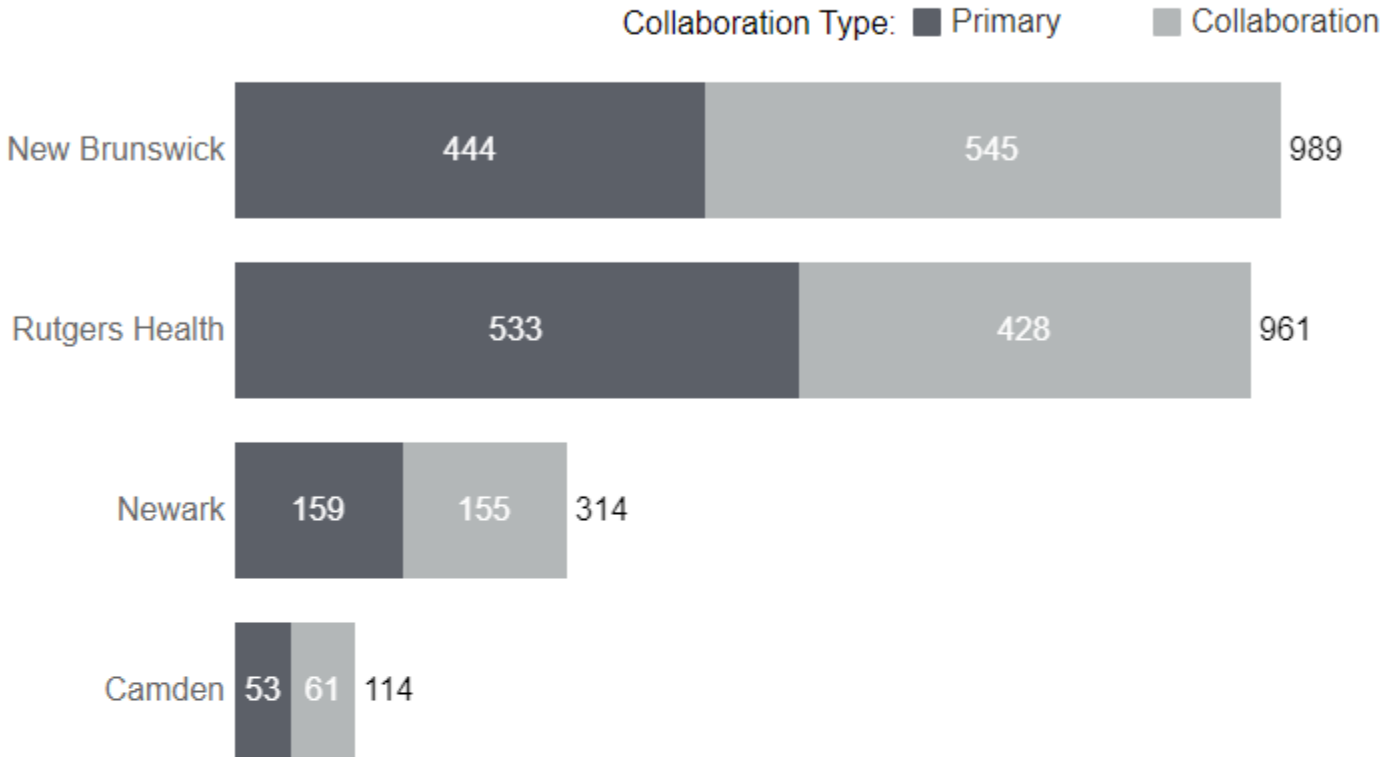
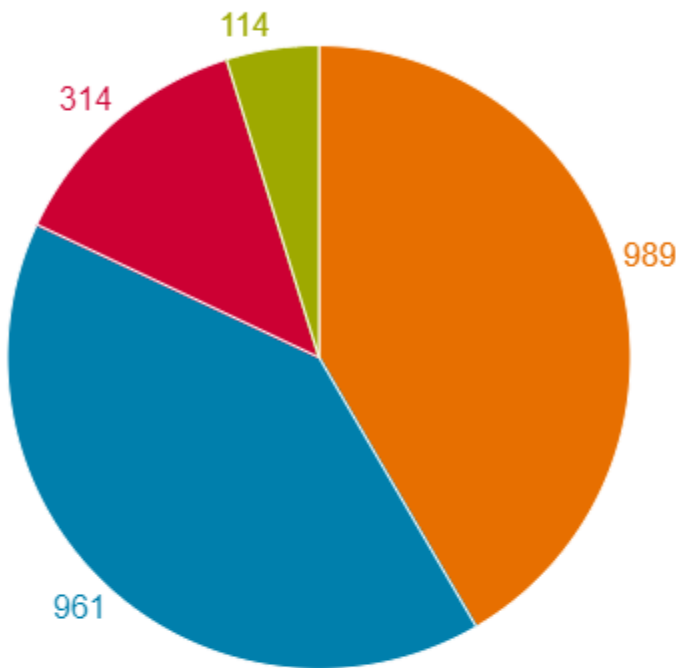
Collaborations Between Different Chancellor Units

- New Brunswick

Rutgers Health

Newark

Camden



Collaborations between different: Chancellor Units

- Year of Collaboration
- ☒ (All)
- ☒ FY 2020
- ☒ FY 2021
- ☒ FY 2022
- ☒ FY 2023

- Chancellor Unit
- ☒ (All)
- ☐ Camden
- ☐ New Brunswick
- ☐ Newark
- ☐ Rutgers Health

School (All)

Department (All)

PI Name (All)

- Sources of Data
- ☒ (All)
- ☒ eIRB
- ☒ Oracle Project ...
- ☒ Research With ...

1 Clu	2 Clu	Primary	Collaboration	Total
New Brunswick	Camden	15	25	40
	Newark	69	70	139
	Rutgers Health	360	450	810
Rutgers Health	Camden	17	8	25
	New Brunswick	450	360	810
	Newark	66	60	126
Newark	Camden	29	20	49
	New Brunswick	70	69	139
	Rutgers Health	60	66	126
Camden	New Brunswick	25	15	40
	Newark	20	29	49
	Rutgers Health	8	17	25

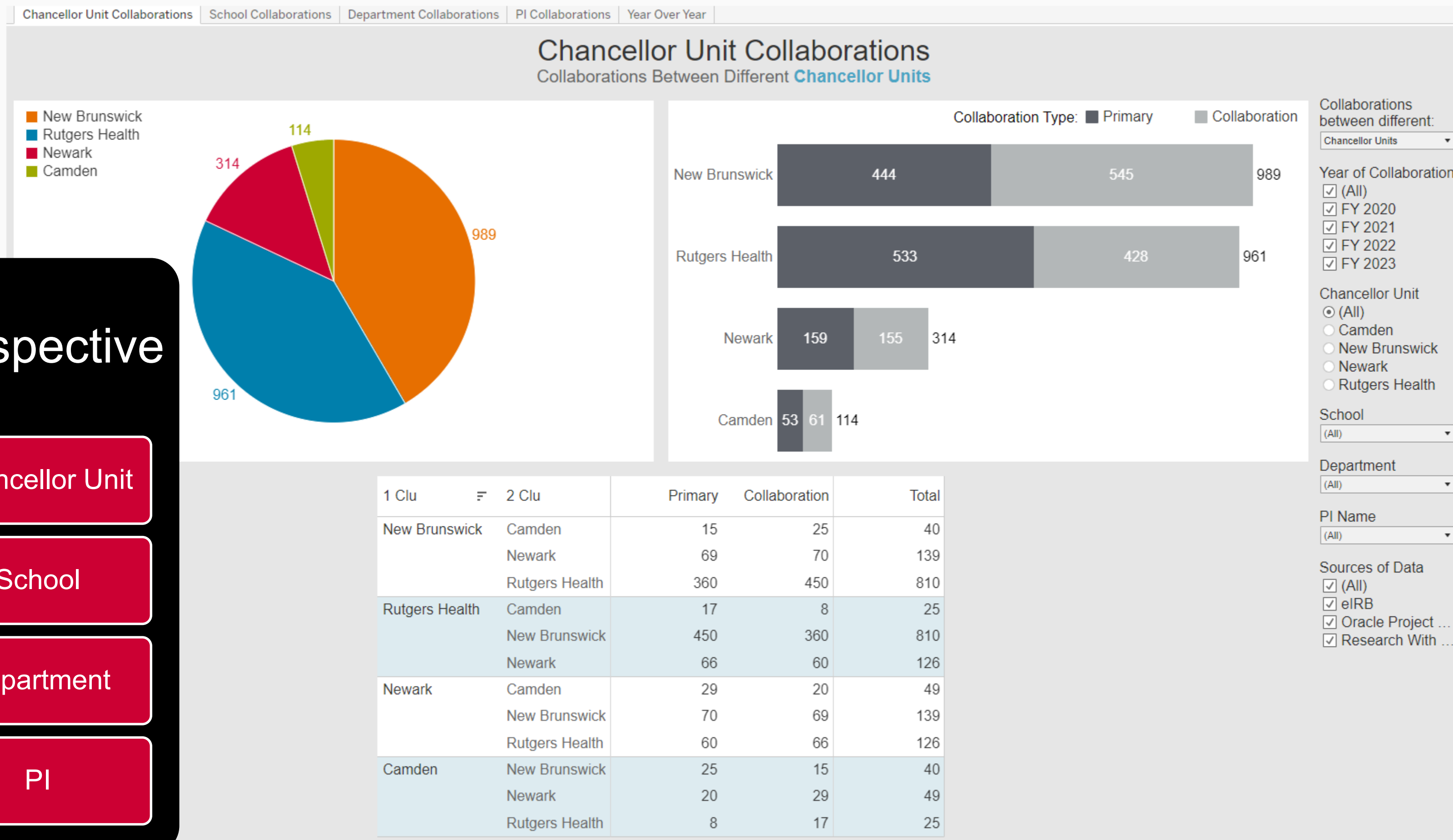
Perspective

Chancellor Unit

School

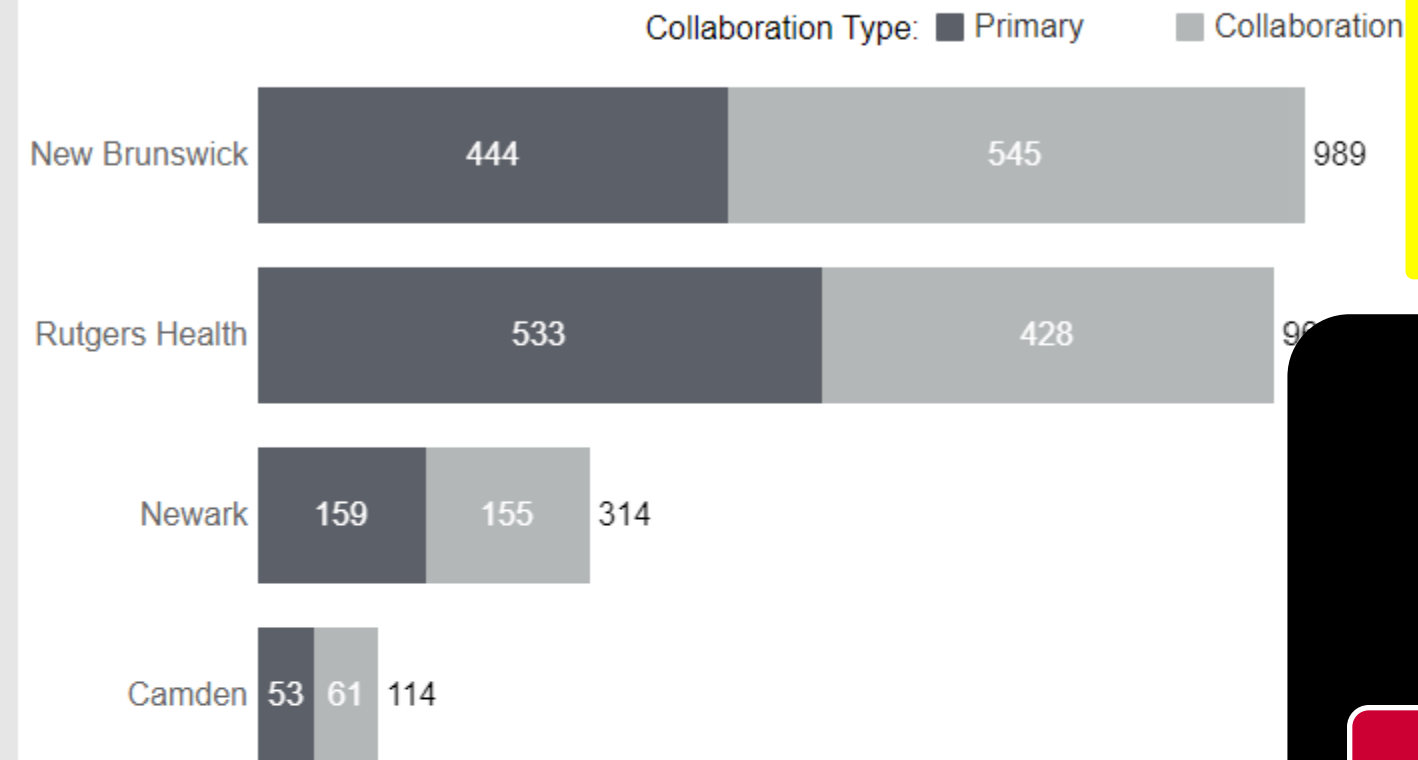
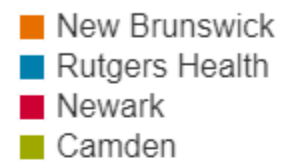
Department

PI



Chancellor Unit Collaborations

Collaborations Between Different Chancellor Units



Collaborations between different:

Chancellor Units

Chancellor Units

Schools

Departments

PLs

☐ FY 2021

☒ FY 2022

1 Clu	2 Clu	Primary	Collaboration	Total
New Brunswick	Camden	15	25	40
	Newark	69	70	139
	Rutgers Health	360	450	810
Rutgers Health	Camden	17	8	25
	New Brunswick	450	360	810
	Newark	66	60	126
Newark	Camden	29	20	49
	New Brunswick	70	69	139
	Rutgers Health	60	66	126
Camden	New Brunswick	25	15	40
	Newark	20	29	49
	Rutgers Health	8	17	25

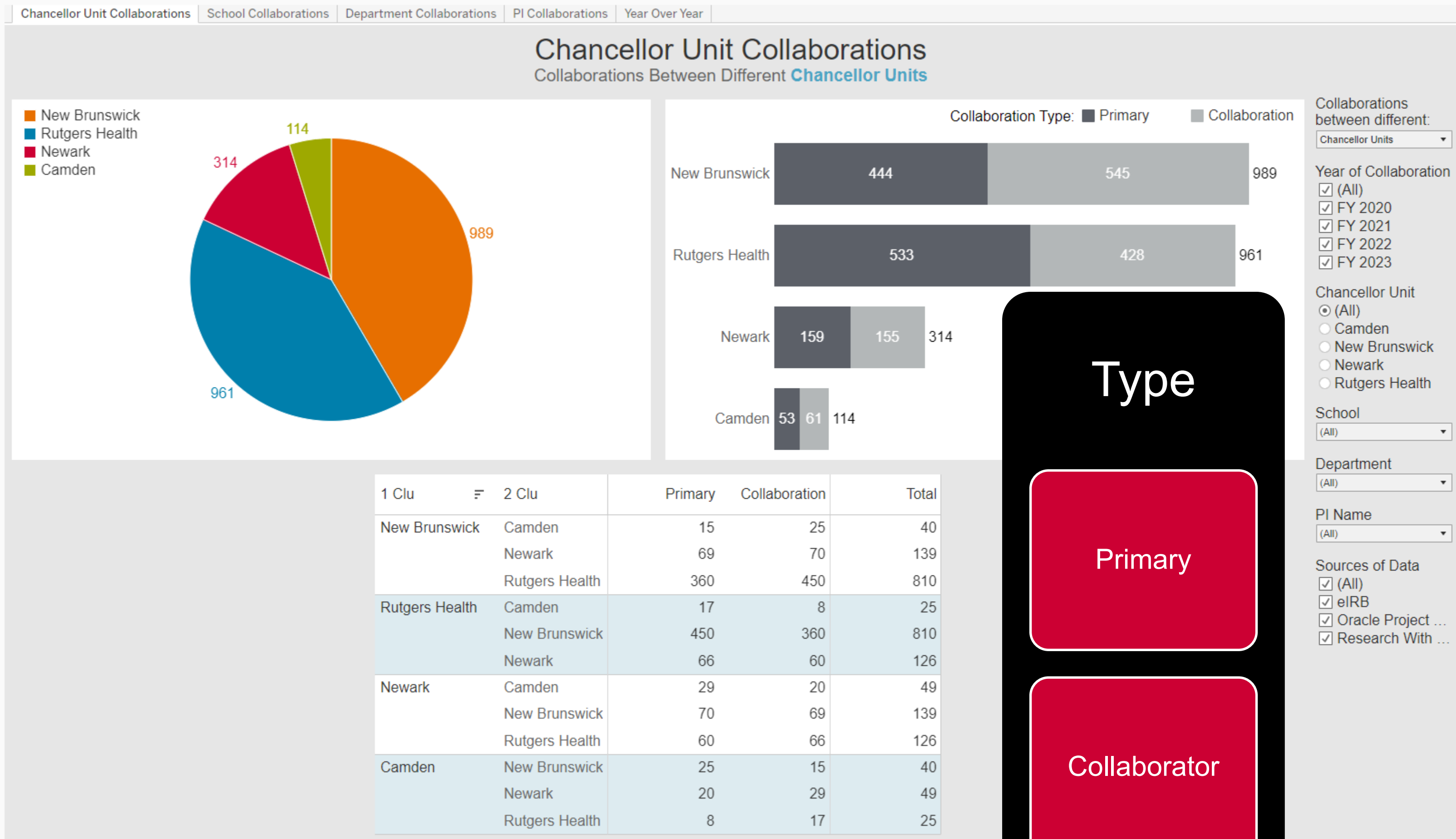
Metric

Different Chancellor Units

Different Schools

Different Departments

Different PIs



Collaborations between different: Chancellor Units

Year of Collaboration
☒ (All)
☒ FY 2020
☒ FY 2021
☒ FY 2022
☒ FY 2023

Chancellor Unit
☒ (All)
☐ Camden
☐ New Brunswick
☐ Newark
☐ Rutgers Health

School
(All)

Department
(All)

PI Name
(All)

Sources of Data
☒ (All)
☒ eIRB
☒ Oracle Project ...
☒ Research With ...

Type

Primary

Collaborator

Chancellor Unit Collaborations

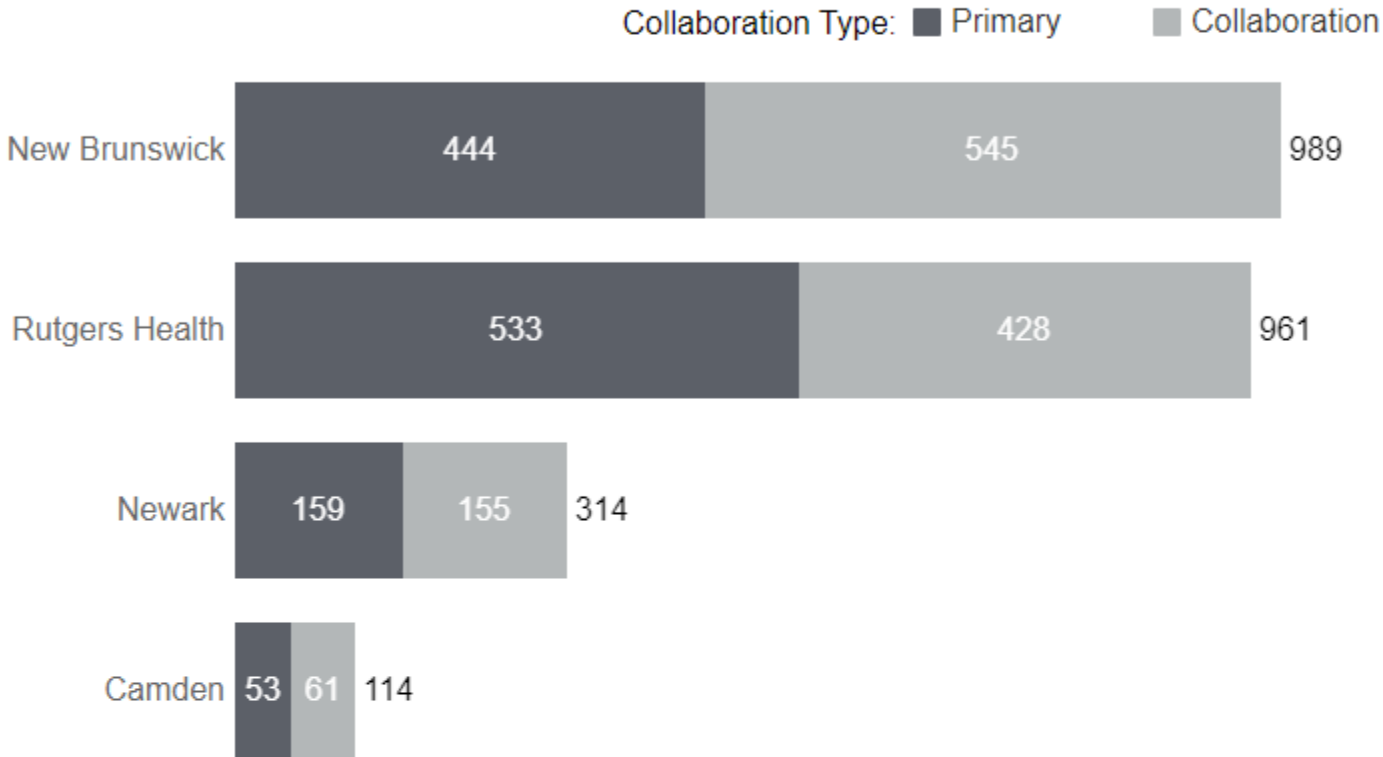
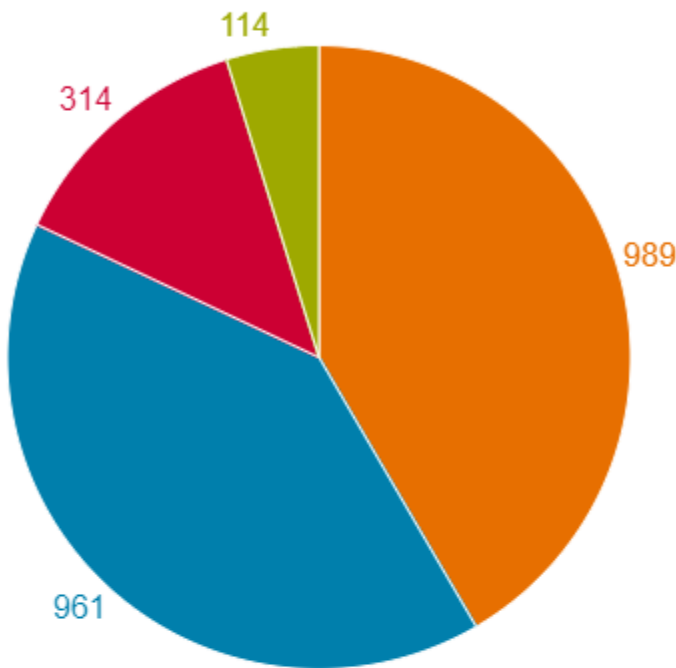
Collaborations Between Different Chancellor Units

- New Brunswick

Rutgers Health

Newark

Camden



Collaborations between different: Chancellor Units

- Year of Collaboration
- ☒ (All)
- ☒ FY 2020
- ☒ FY 2021
- ☒ FY 2022
- ☒ FY 2023

- Chancellor Unit
- ☒ (All)
- ☐ Camden
- ☐ New Brunswick
- ☐ Newark
- ☐ Rutgers Health

School (All)

Department (All)

PI Name (All)

- Sources of Data
- ☒ (All)
- ☒ eIRB
- ☒ Oracle Project ...
- ☒ Research With ...

1 Clu	2 Clu	Primary	Collaboration	Total
New Brunswick	Camden	15	25	40
	Newark	69	70	139
	Rutgers Health	360	450	810
Rutgers Health	Camden	17	8	25
	New Brunswick	450	360	810
	Newark	66	60	126
Newark	Camden	29	20	49
	New Brunswick	70	69	139
	Rutgers Health	60	66	126
Camden	New Brunswick	25	15	40
	Newark	20	29	49
	Rutgers Health	8	17	25

Limitations and Next Steps

- There are more ways for people to collaborate on grants
- How does Effort Reporting factor in?
- Expenditures on grants can occur after the project is completed
- What happens when a researcher changes units?
- Underrepresentation in sources used
- MORE DATA
 - Office for Research data (IACUC protocols, Inventions, Patents, Licenses)
 - Academic data from Institutional Research
- Streamline the data setup process using Tableau Prep
- Incorporate fields of study
- Account for projects/outputs that do not have collaborations –
X% of Department Y's activities have collaborators

Questions?

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