RUTGERS UNIVERSITY
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Generating Reliable Collaboration Data:

A Proof-of-Concept Project Using Research Administration Data

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Senior Data Analyst, Data, Analytics & Business Intelligence

2024 Research Analytics Summit

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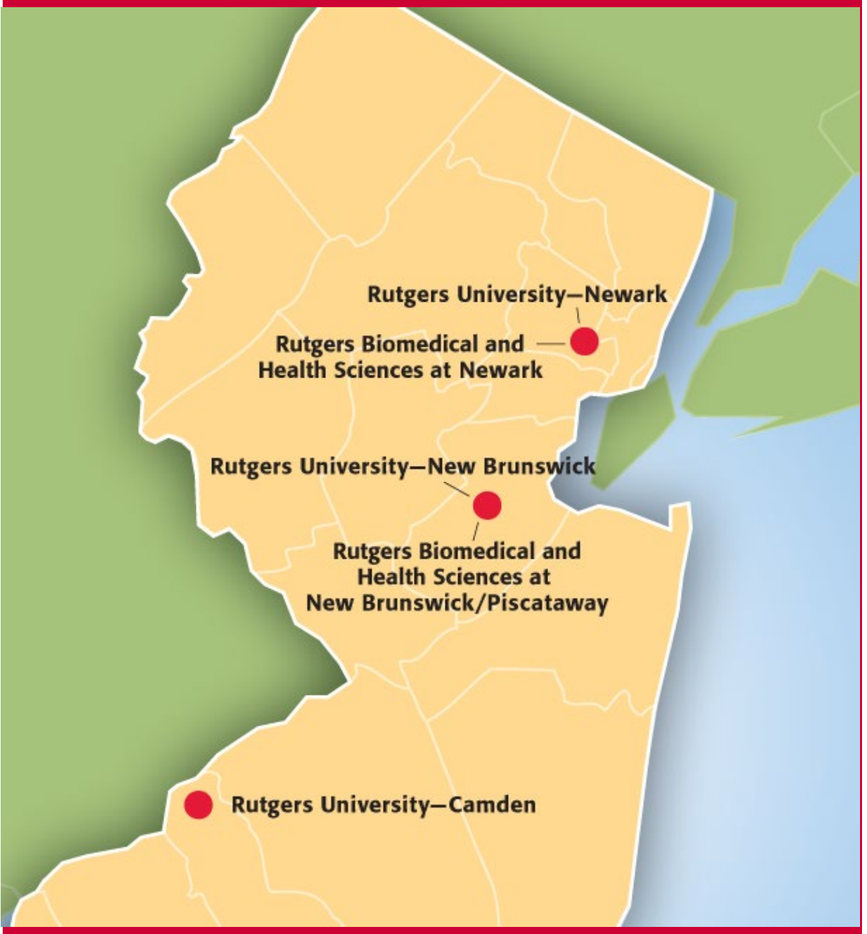
THE STATE UNIVERSITY OF NEW JERSEY



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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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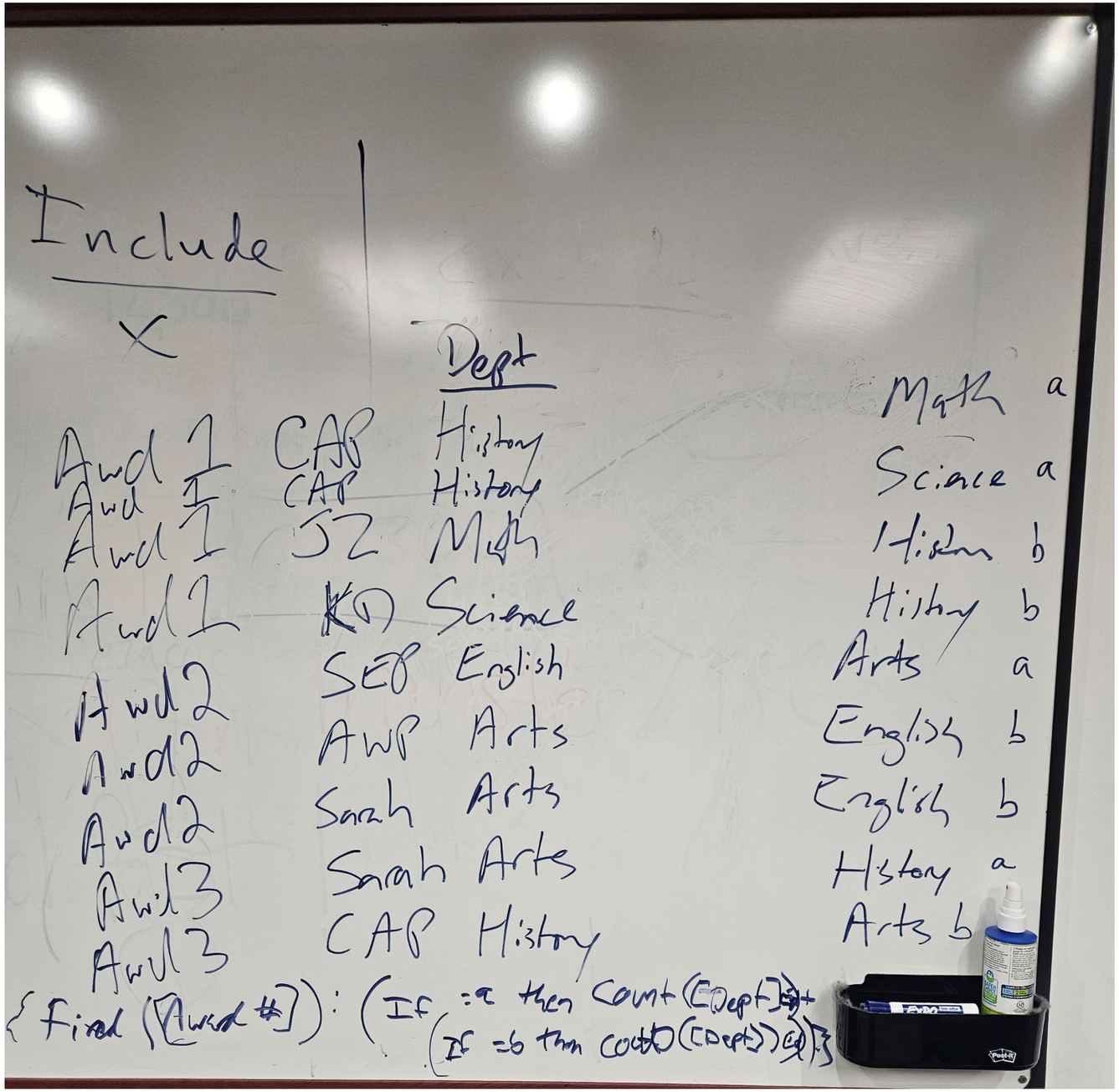
Project Context

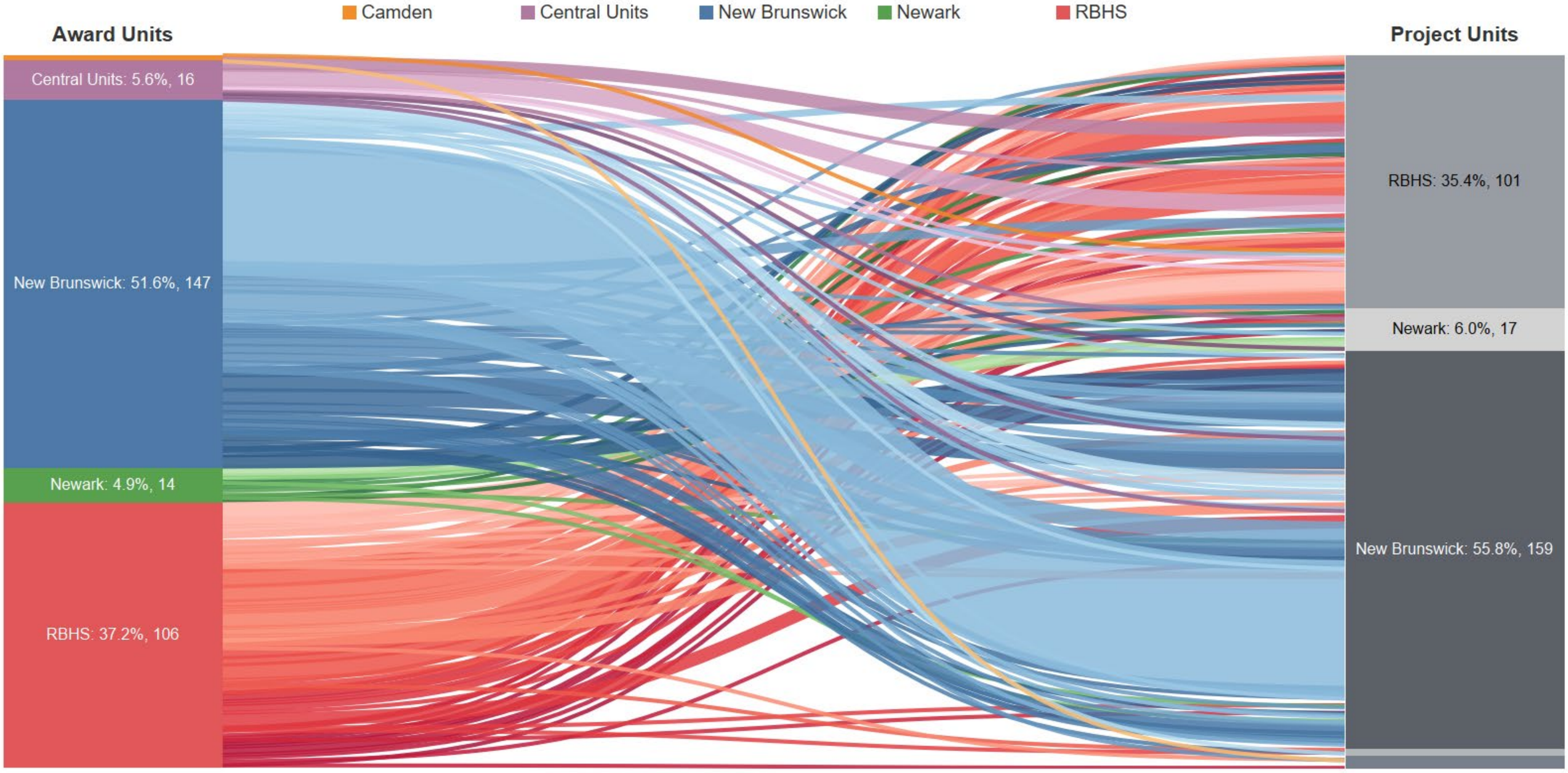
Request: Count collaborations across the university to identify potential areas for cluster hiring.

Brainstorming

What even is this?



FY 2023 Collaborations Between Different Departments Within a Single ORACLE Award

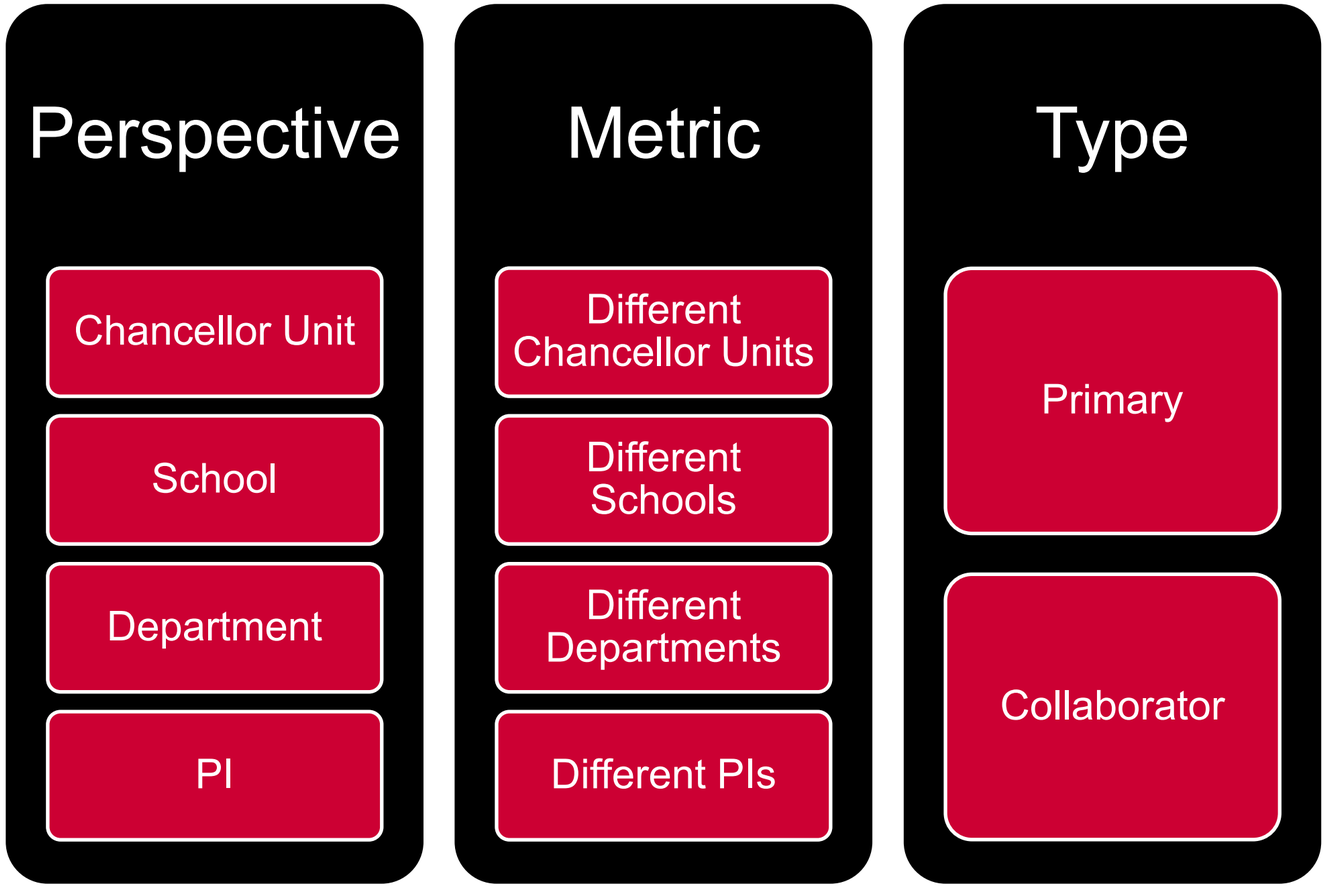


*A collaboration is defined as a Project PI's department being different than the Award PI's department. Each different Project PI department is counted only once per Award. A given Award can have zero, one or more collaborations. Awards with zero collaborations are excluded from this report.

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



Viable and Available Data

Sponsored Award Expenditure Data

Financial System

Human Subject Protocols

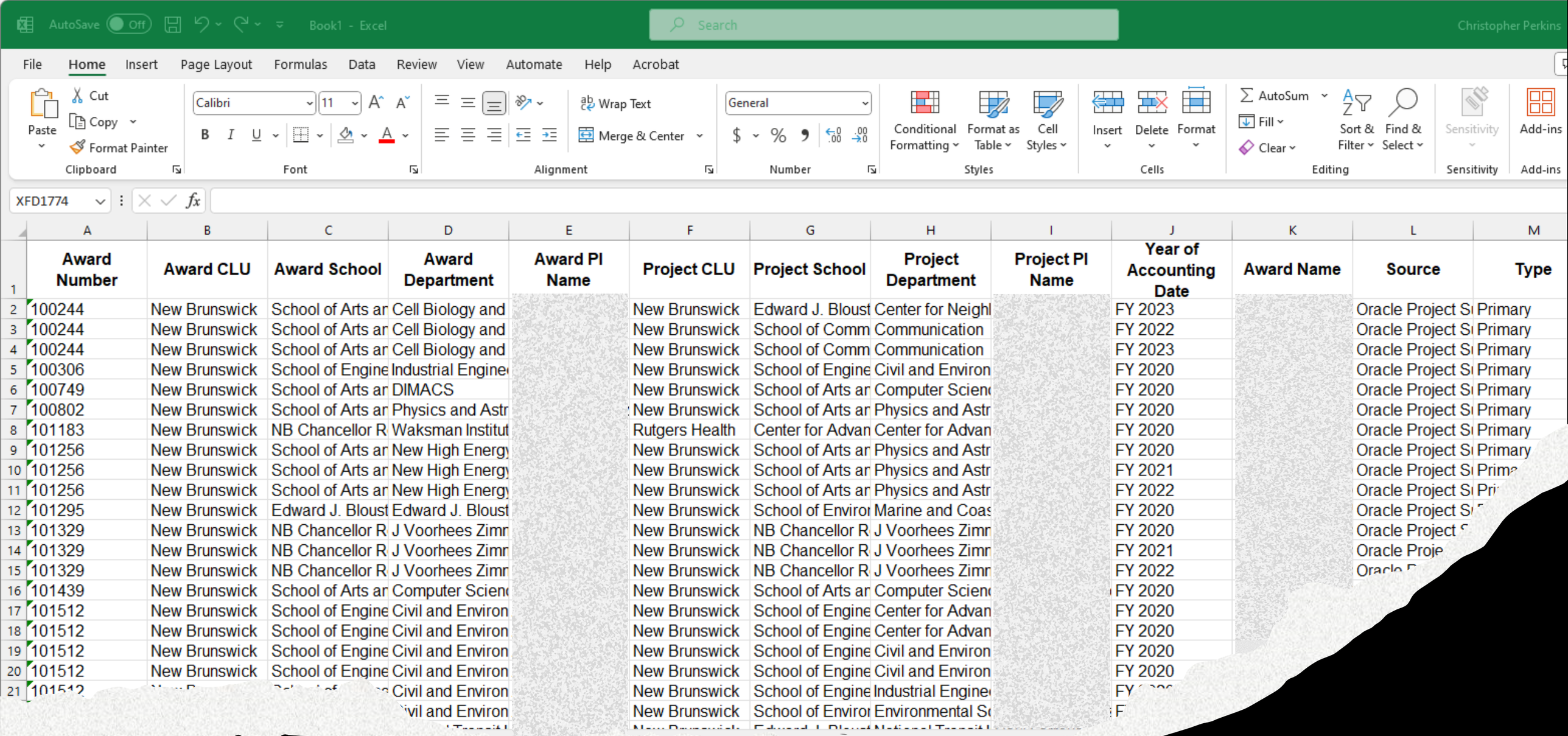
eIRB

Publications

Research With Rutgers

Data Structure

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



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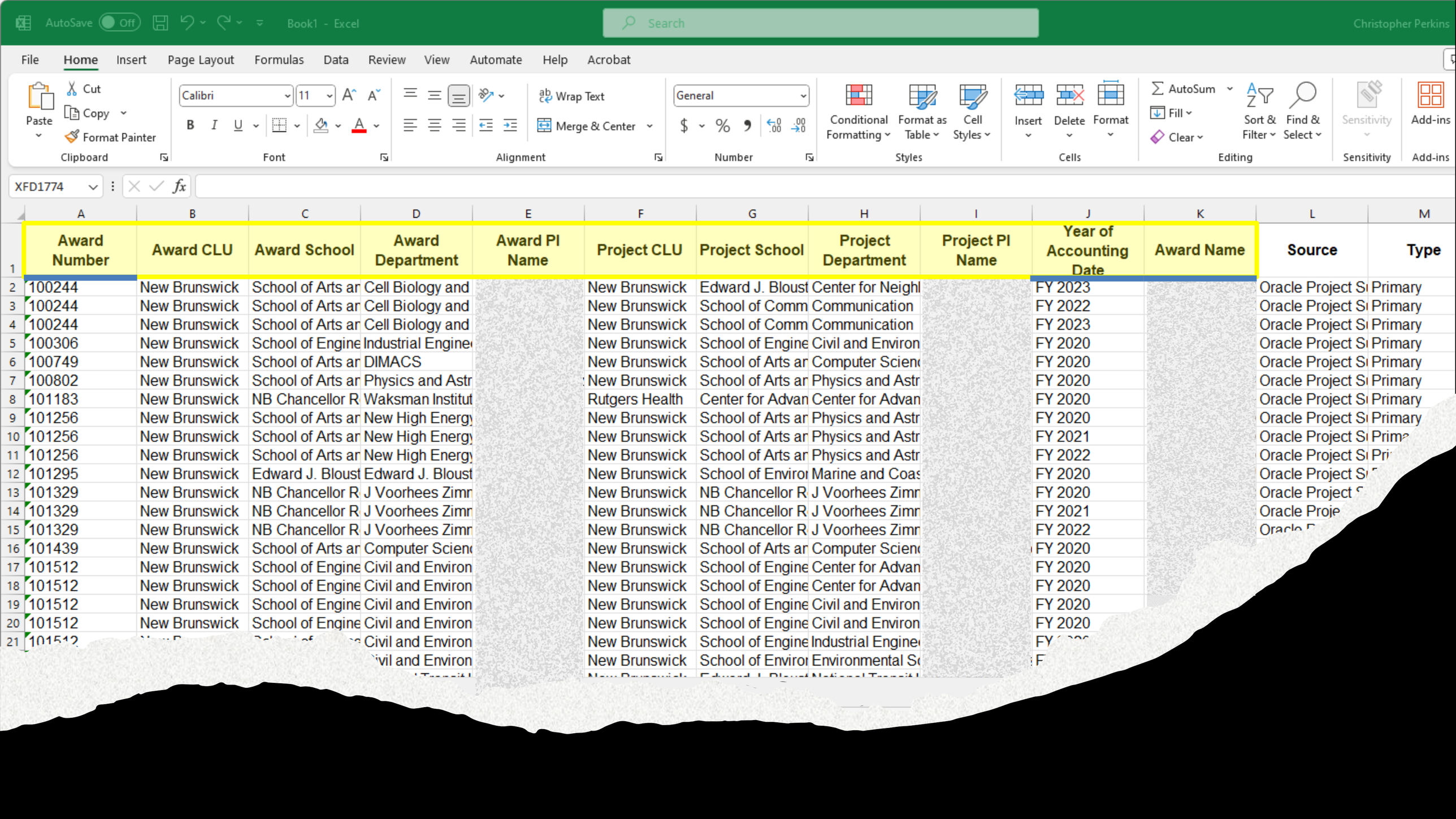

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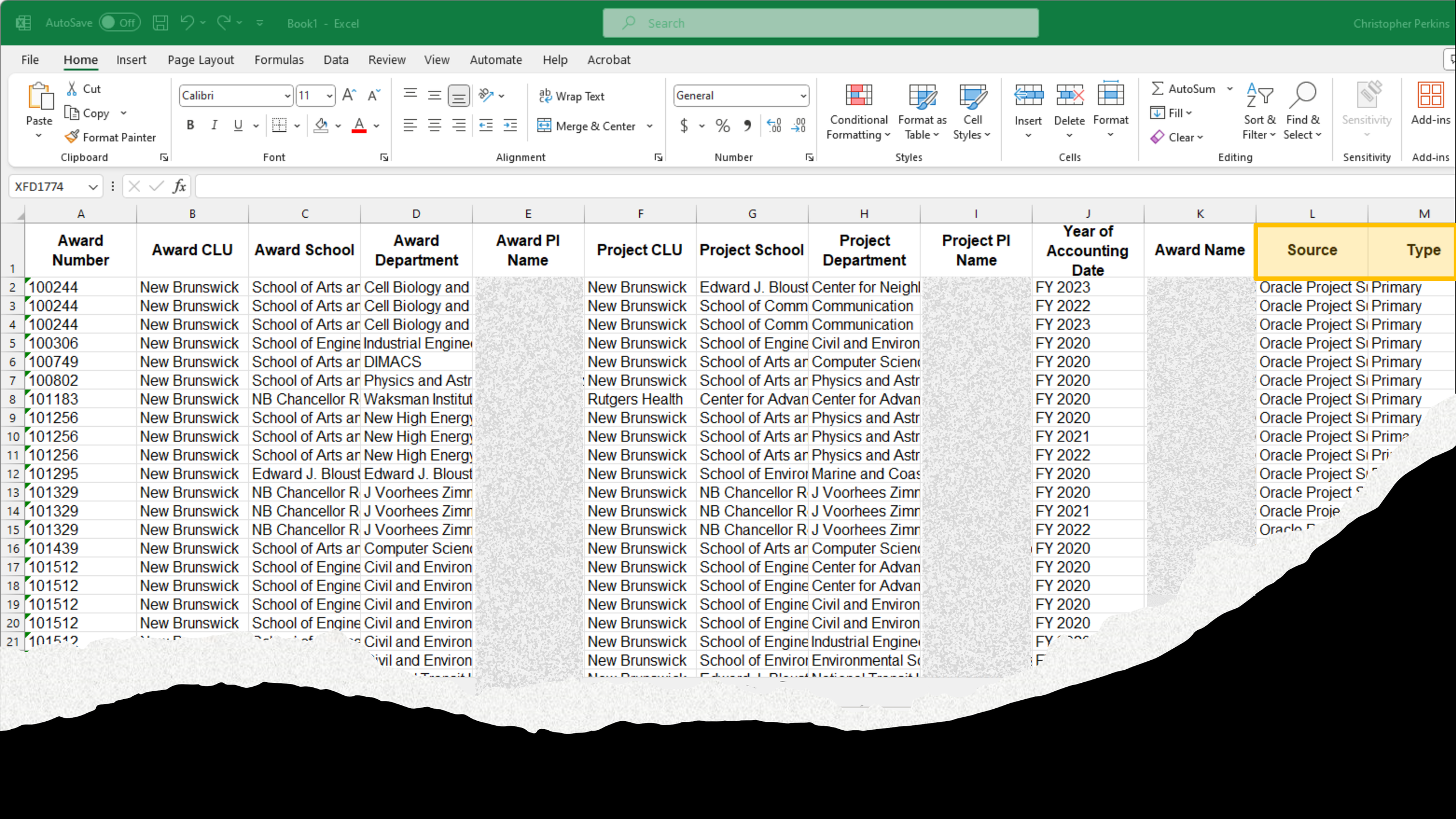

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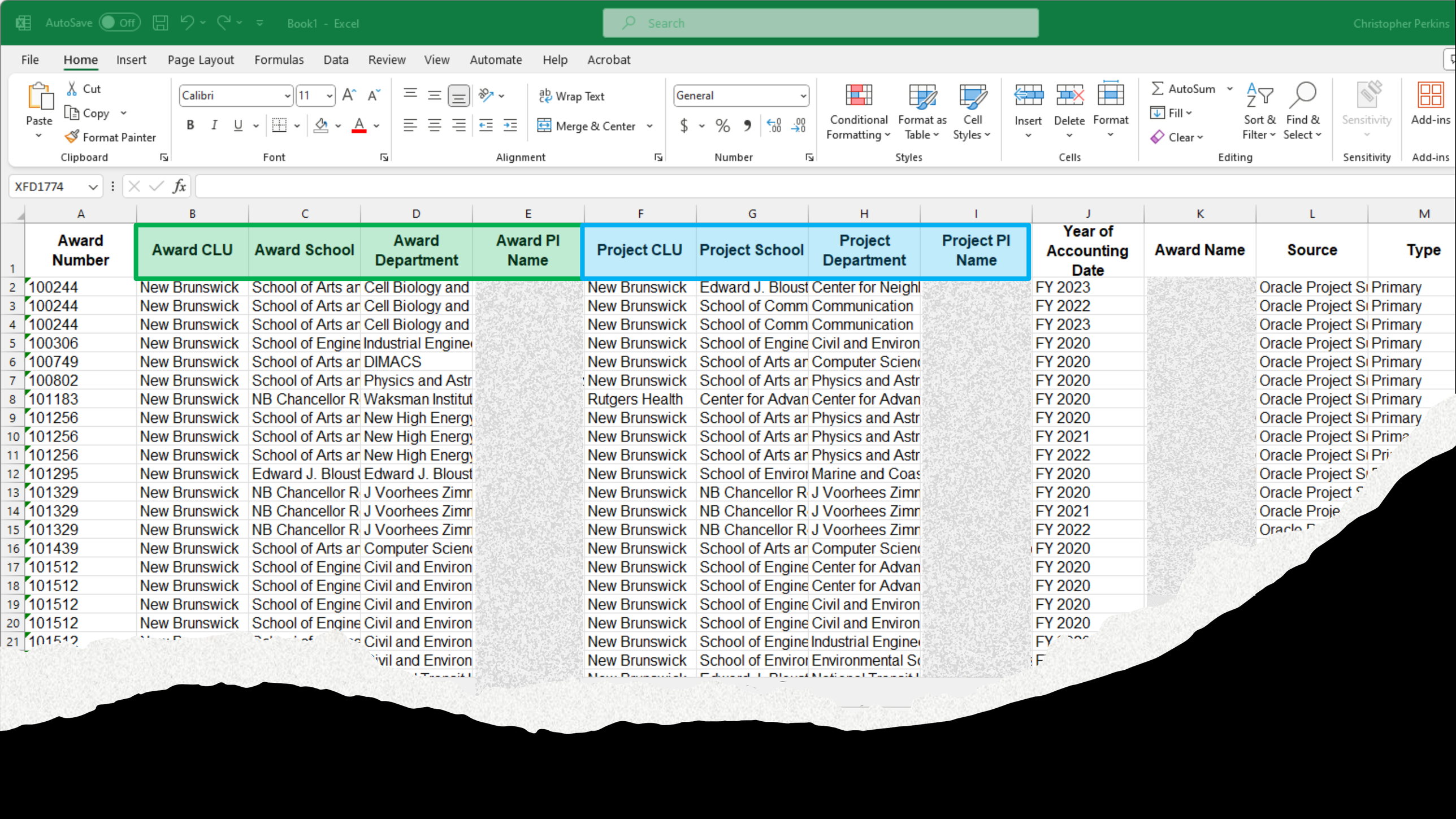

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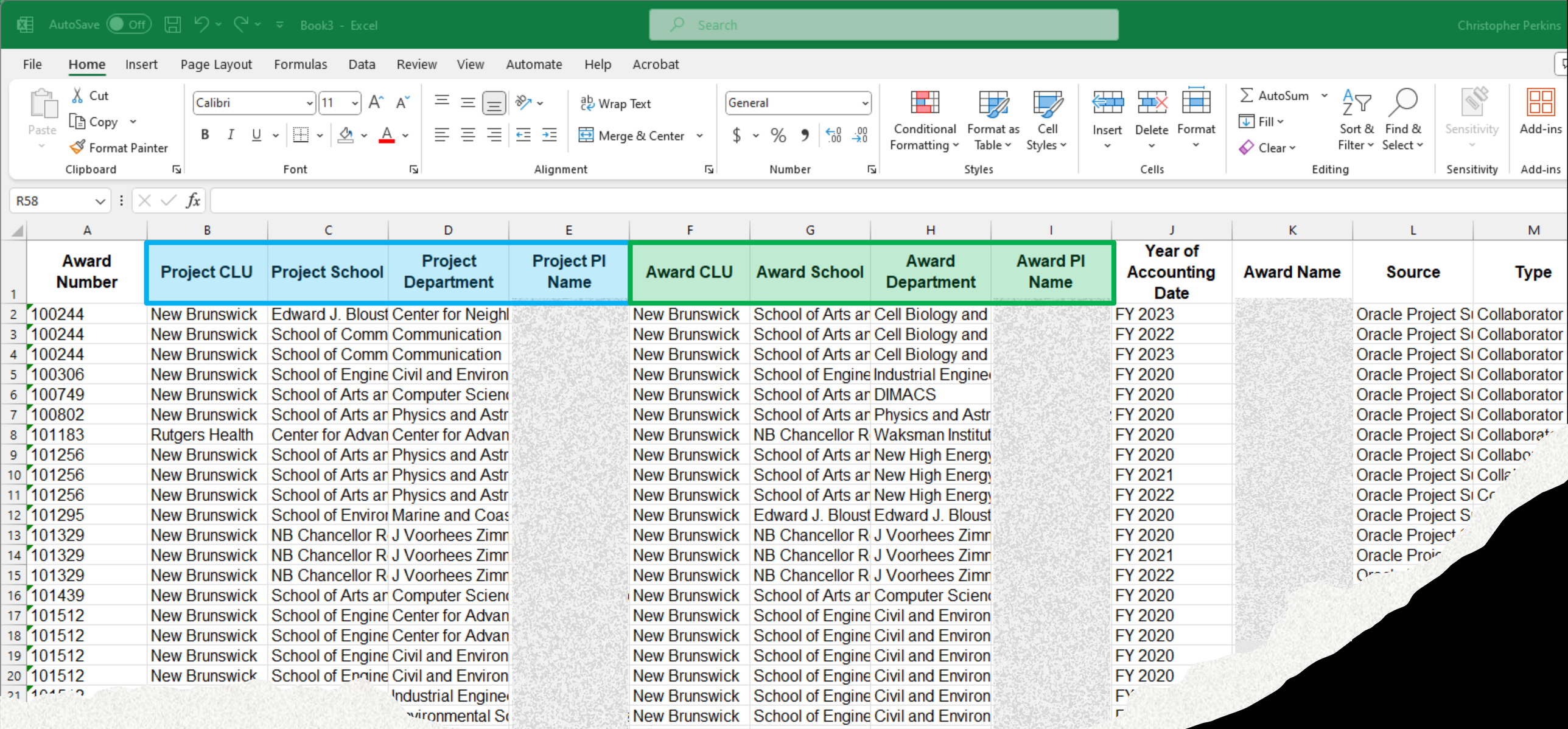

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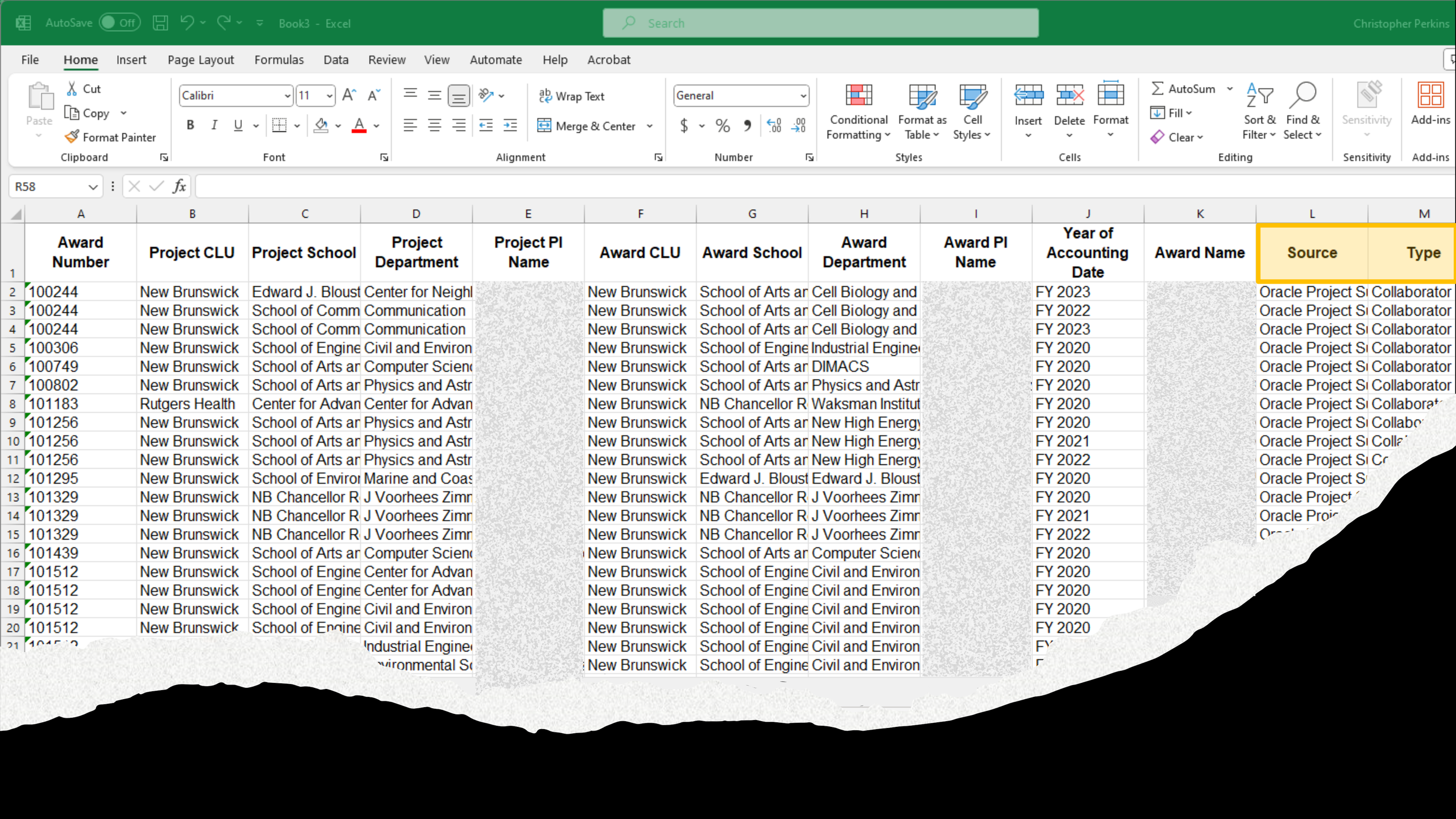

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21				Industrial Engine		New Brunswick	School of Engine	Civil and Environ		FY			
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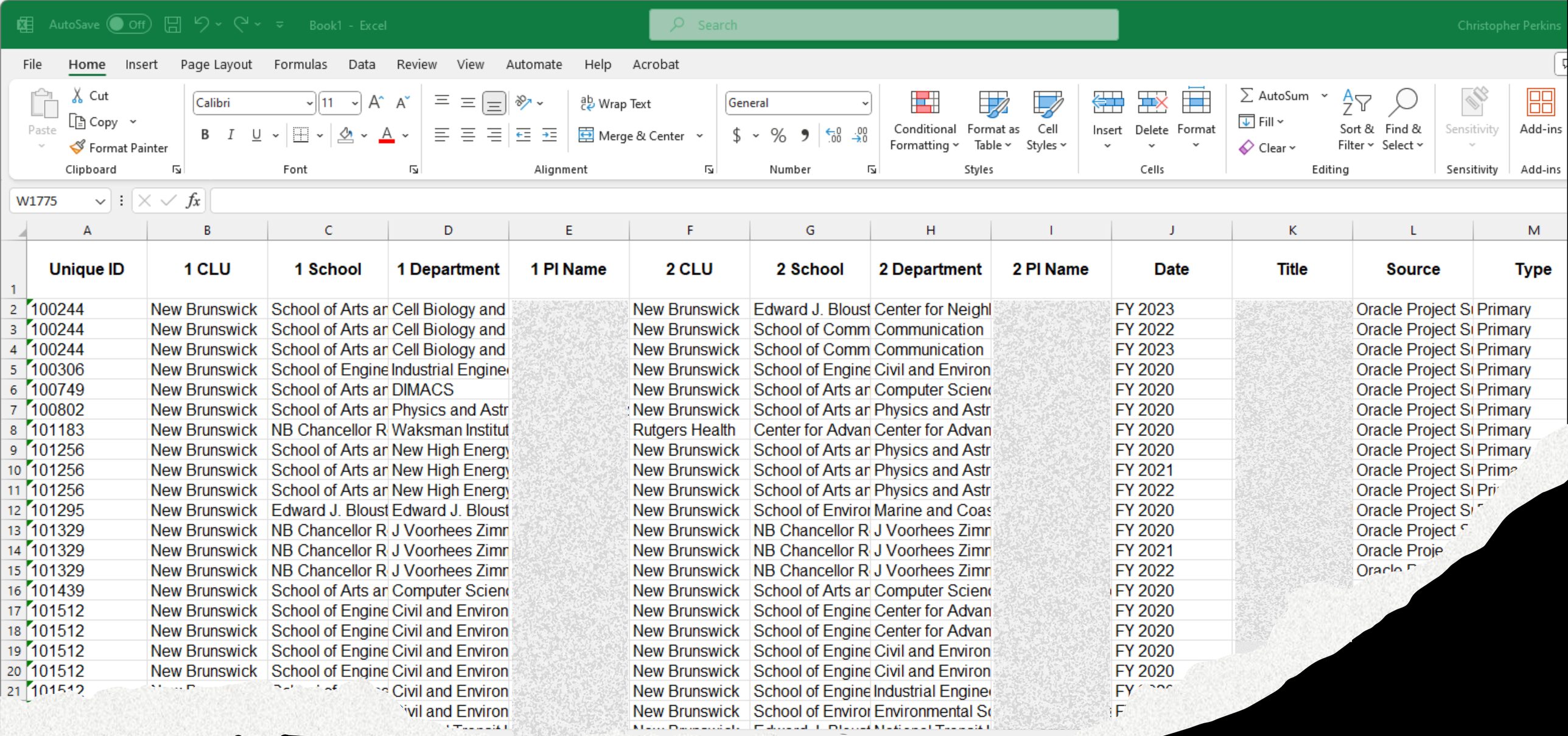

AutoSave Off Book1 - Excel Search Christopher Perkins

File Home Insert Page Layout Formulas Data Review View Automate Help Acrobat

Cut Copy Format Painter Paste Clipboard
Calibri 11 Font
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General Number
Conditional Formatting Format as Table Cell Styles Styles
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	A	B	C	D	E	F	G	H	I	J	K	L	M
1	Unique ID	1 CLU	1 School	1 Department	1 PI Name	2 CLU	2 School	2 Department	2 PI Name	Date	Title	Source	Type
2	100244	New Brunswick	School of Arts ar	Cell Biology and		New Brunswick	Edward J. Bloust	Center for Neighl		FY 2023		Oracle Project Si	Primary
3	100244	New Brunswick	School of Arts ar	Cell Biology and		New Brunswick	School of Comm	Communication		FY 2022		Oracle Project Si	Primary
4	100244	New Brunswick	School of Arts ar	Cell Biology and		New Brunswick	School of Comm	Communication		FY 2023		Oracle Project Si	Primary
5	100306	New Brunswick	School of Engine	Industrial Engine		New Brunswick	School of Engine	Civil and Environ		FY 2020		Oracle Project Si	Primary
6	100749	New Brunswick	School of Arts ar	DIMACS		New Brunswick	School of Arts ar	Computer Scien		FY 2020		Oracle Project Si	Primary
7	100802	New Brunswick	School of Arts ar	Physics and Astr		New Brunswick	School of Arts ar	Physics and Astr		FY 2020		Oracle Project Si	Primary
8	101183	New Brunswick	NB Chancellor R	Waksman Institut		Rutgers Health	Center for Advan	Center for Advan		FY 2020		Oracle Project Si	Primary
9	101256	New Brunswick	School of Arts ar	New High Energy		New Brunswick	School of Arts ar	Physics and Astr		FY 2020		Oracle Project Si	Primary
10	101256	New Brunswick	School of Arts ar	New High Energy		New Brunswick	School of Arts ar	Physics and Astr		FY 2021		Oracle Project Si	Prima
11	101256	New Brunswick	School of Arts ar	New High Energy		New Brunswick	School of Arts ar	Physics and Astr		FY 2022		Oracle Project Si	Pri
12	101295	New Brunswick	Edward J. Bloust	Edward J. Bloust		New Brunswick	School of Enviro	Marine and Coas		FY 2020		Oracle Project Si	
13	101329	New Brunswick	NB Chancellor R	J Voorhees Zimr		New Brunswick	NB Chancellor R	J Voorhees Zimr		FY 2020		Oracle Project	
14	101329	New Brunswick	NB Chancellor R	J Voorhees Zimr		New Brunswick	NB Chancellor R	J Voorhees Zimr		FY 2021		Oracle Proje	
15	101329	New Brunswick	NB Chancellor R	J Voorhees Zimr		New Brunswick	NB Chancellor R	J Voorhees Zimr		FY 2022		Oracle P	
16	101439	New Brunswick	School of Arts ar	Computer Scien		New Brunswick	School of Arts ar	Computer Scien		FY 2020			
17	101512	New Brunswick	School of Engine	Civil and Environ		New Brunswick	School of Engine	Center for Advan		FY 2020			
18	101512	New Brunswick	School of Engine	Civil and Environ		New Brunswick	School of Engine	Center for Advan		FY 2020			
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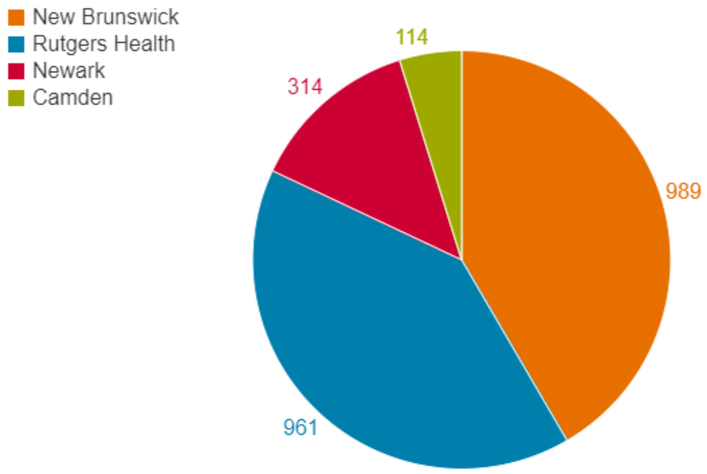
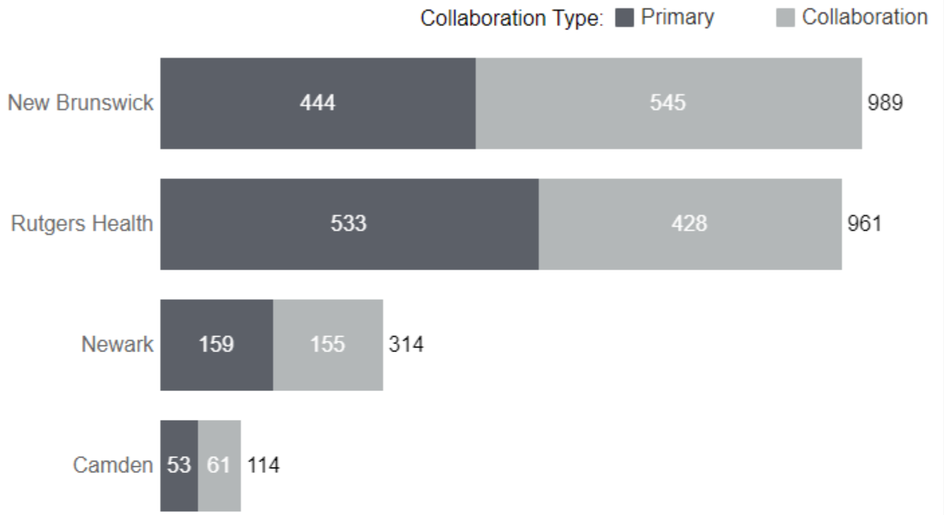
21	101512			Civil and Environ		New Brunswick	School of Engine	Industrial Engine		FY			
				ivil and Environ		New Brunswick	School of Enviro	Environmental Sc		F			

Chancellor Unit Collaborations | School Collaborations | Department Collaborations | PI Collaborations | Year Over Year

Chancellor Unit Collaborations

Collaborations Between Different **Chancellor Units**





Collaborations between different:
Chancellor Units

Year of Collaboration
- [x] (All)
- [x] FY 2020
- [x] FY 2021
- [x] FY 2022
- [x] FY 2023

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

School
(All)

Department
(All)

PI Name
(All)

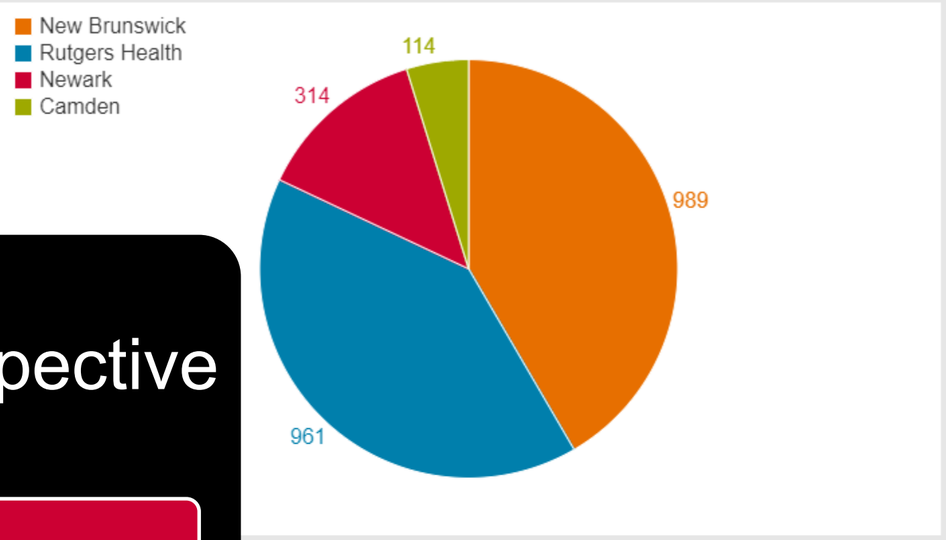
Sources of Data
- [x] (All)
- [x] eIRB
- [x] Oracle Project ...
- [x] Research With ...

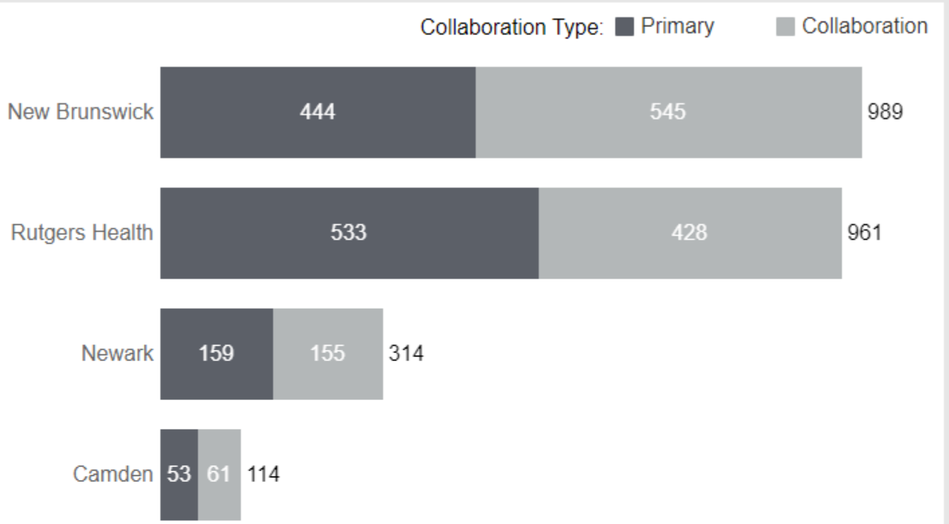
1 Clu	2 Clu	Primary	Collaboration	Total
New Brunswick	Camden	15	25	40
	Newark	69	70	139
	Rutgers Health	360	450	810
Rutgers Health	Camden	17	8	25
	New Brunswick	450	360	810
	Newark	66	60	126
Newark	Camden	29	20	49
	New Brunswick	70	69	139
	Rutgers Health	60	66	126
Camden	New Brunswick	25	15	40
	Newark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

Chancellor Unit Collaborations | School Collaborations | Department Collaborations | PI Collaborations | Year Over Year

Chancellor Unit Collaborations

Collaborations Between Different **Chancellor Units**





Collaborations between different:
Chancellor Units

Year of Collaboration
- [x] (All)
- [x] FY 2020
- [x] FY 2021
- [x] FY 2022
- [x] FY 2023

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

School
(All)

Department
(All)

PI Name
(All)

Sources of Data
- [x] (All)
- [x] eIRB
- [x] Oracle Project ...
- [x] Research With ...

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	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

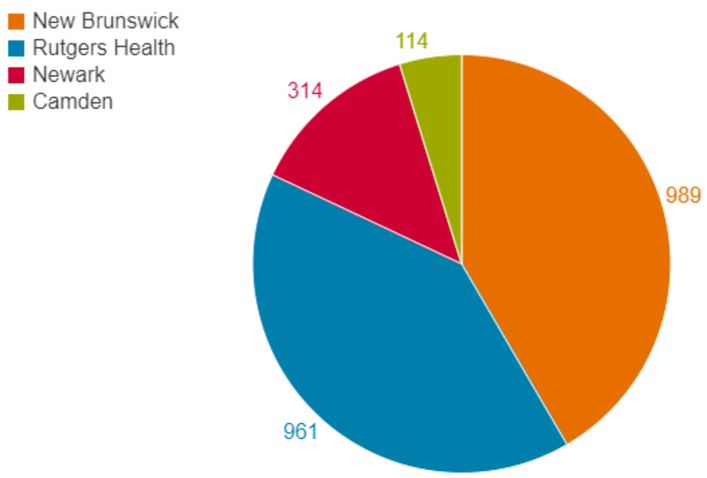
Perspective

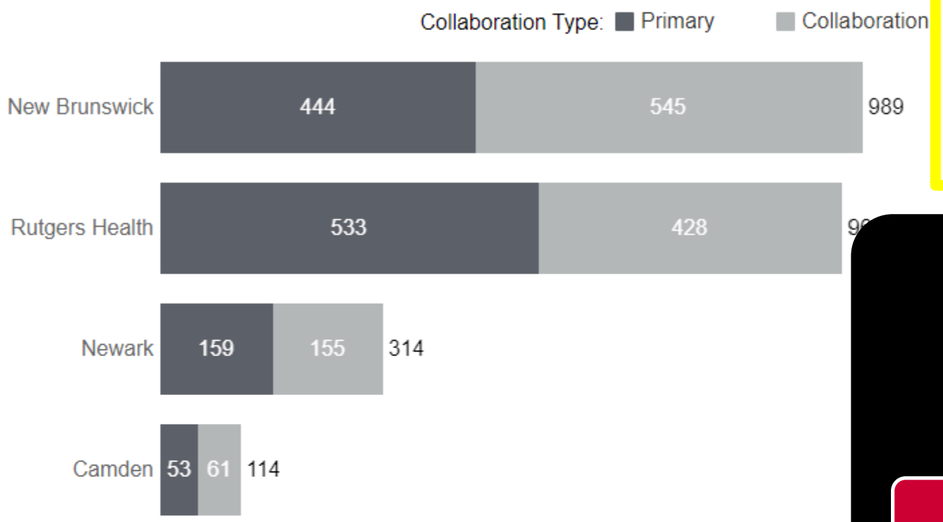
- Chancellor Unit
- School
- Department
- PI

Chancellor Unit Collaborations | School Collaborations | Department Collaborations | PI Collaborations | Year Over Year

Chancellor Unit Collaborations

Collaborations Between Different **Chancellor Units**





Collaborations between different:

Chancellor Units

- Chancellor Units
- Schools
- Departments
- PIs

FY 2022

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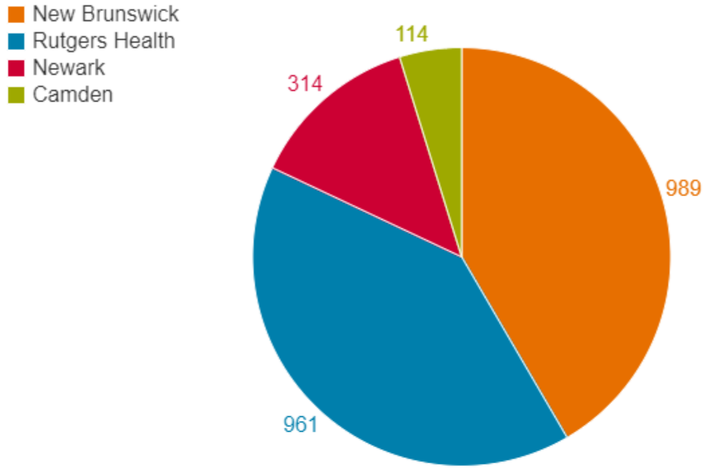
	Rutgers Health	360	450	810
Rutgers Health	Camden	17	8	25
	New Brunswick	450	360	810
	Newark	66	60	126
Newark	Camden	29	20	49
	New Brunswick	70	69	139
	Rutgers Health	60	66	126
Camden	New Brunswick	25	15	40
	Newark	20	29	49
	Rutgers Health	8	17	25

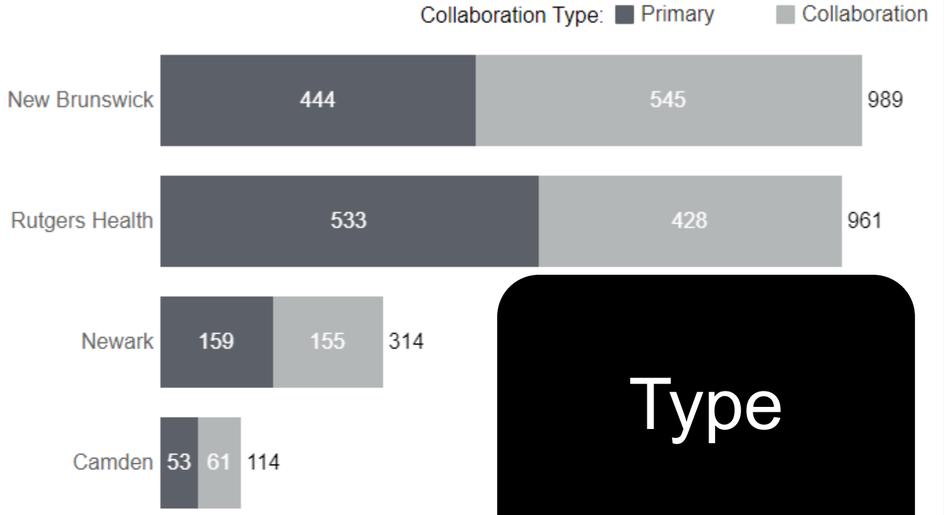
Metric

- Different Chancellor Units
- Different Schools
- Different Departments
- Different PIs

Chancellor Unit Collaborations

Collaborations Between Different **Chancellor Units**





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	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

Type

Primary

Collaborator

Collaborations between different:
Chancellor Units

Year of Collaboration
- [x] (All)
- [x] FY 2020
- [x] FY 2021
- [x] FY 2022
- [x] FY 2023

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

School
(All)

Department
(All)

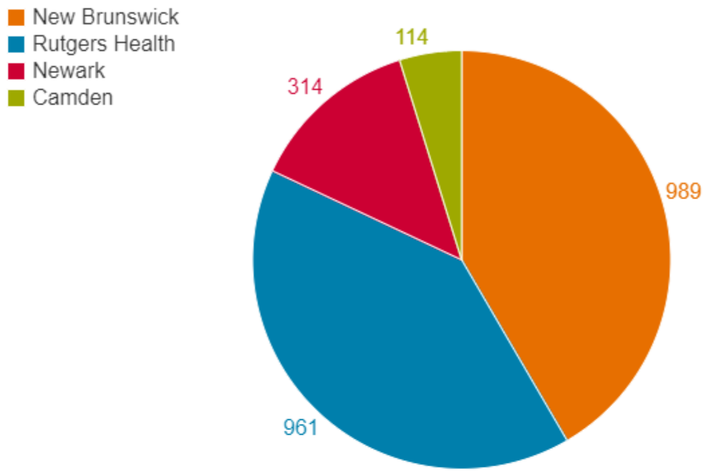
PI Name
(All)

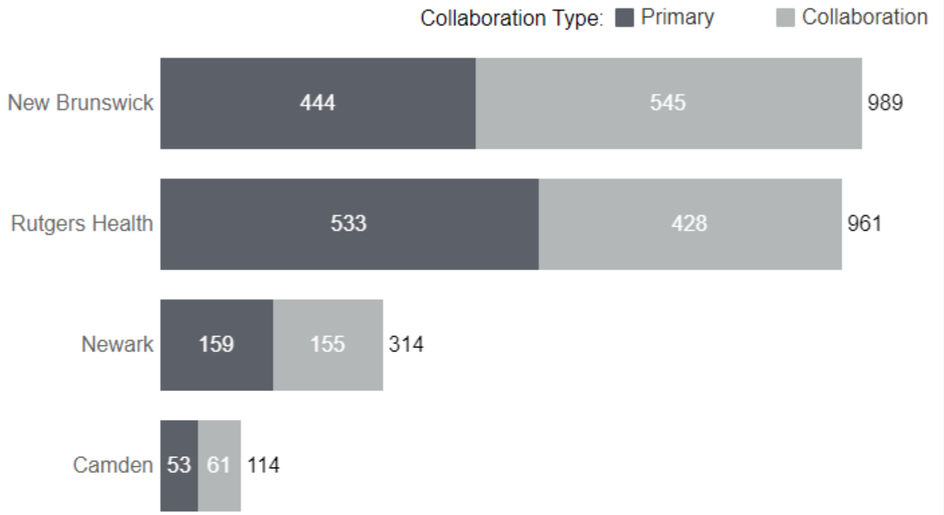
Sources of Data
- [x] (All)
- [x] eIRB
- [x] Oracle Project ...
- [x] Research With ...

Chancellor Unit Collaborations | School Collaborations | Department Collaborations | PI Collaborations | Year Over Year

Chancellor Unit Collaborations

Collaborations Between Different **Chancellor Units**





Collaborations between different:
Chancellor Units

Year of Collaboration
- [x] (All)
- [x] FY 2020
- [x] FY 2021
- [x] FY 2022
- [x] FY 2023

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

School
(All)

Department
(All)

PI Name
(All)

Sources of Data
- [x] (All)
- [x] eIRB
- [x] Oracle Project ...
- [x] Research With ...

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	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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Julia Zappi – jzappi@rutgers.edu

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