How to Use “Excel Power View” for Institutional Effectiveness

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About Our Office

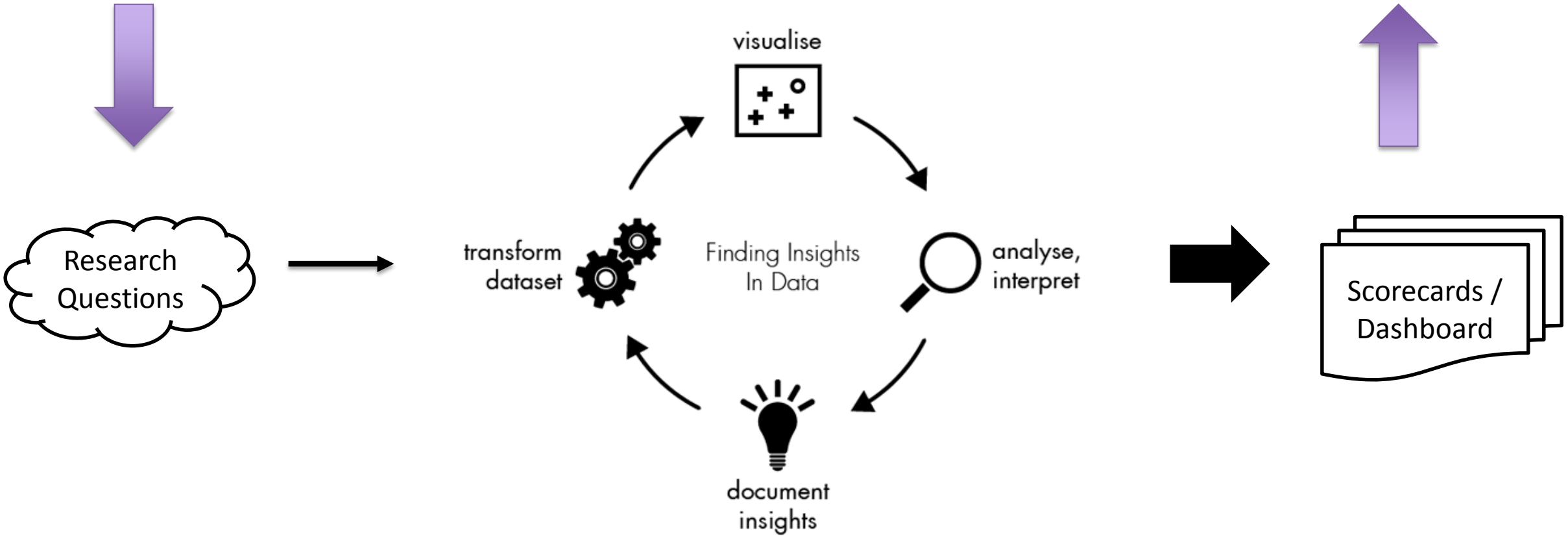
- Campus Enrollment approx. 8500
- Institutional Planning, Assessment & Research (IPAR) reports to AVP of Academic Affairs
- Data Service Team reports to Information Technology Services (ITS)

Institutional Context

- Increased attention to data that supports institutional assessment and planning
- Need for quick exploration of large amount of complex data from disparate data sources
- Limited resources to adopt a comprehensive BI tool
- Institutional access to Microsoft products
- Well-established collaborative relationship between IR and IT Data Service functions

How To PV for IE

Institutional Strategic Planning, Implementation & Assessment



Source: http://datajournalismhandbook.org/1.0/en/understanding_data_7.html

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Microsoft loves POWER!

PowerShell
PowerPivot
Power Query
Power BI
Power View
…

What is Power View?

- New visualization functionality for Excel: charting, graphing, mapping, and more
- An extension of the “Data Model” used for PowerPivot
- Office Professional Plus 2013 includes Power View (for the desktop)
- Certain flavors of Office 365 (“Office in the Cloud”) support online presentation of Power View

Helpful Skill Set vis-à-vis Power View

At WSU, our team is:

- Familiar with SQL programming
- Familiar with institutional data sources
- Comfortable with readily available Microsoft technologies: Excel, SQL, SharePoint, Office 365

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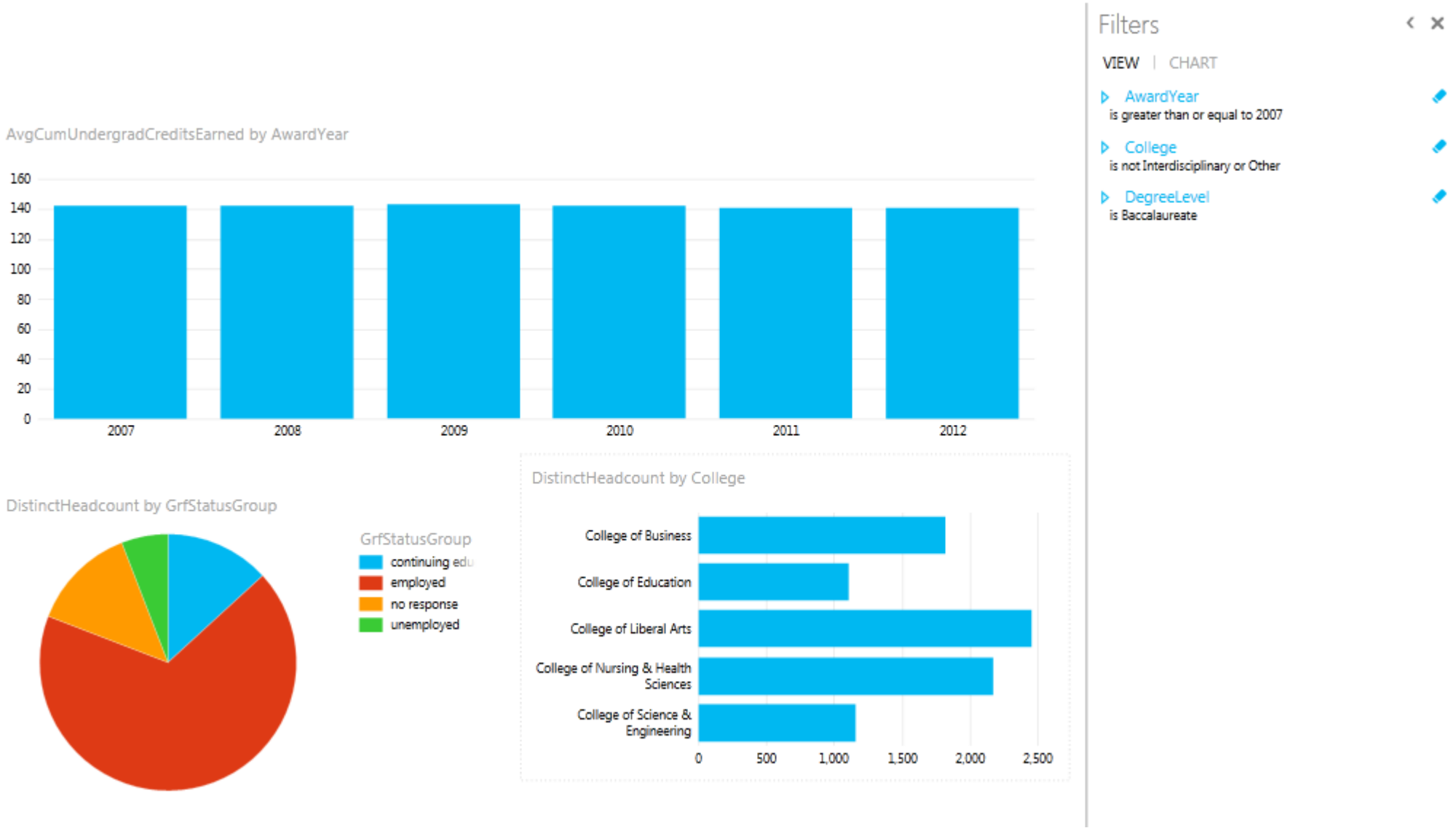
Demo: Power View Setup

Effective Data Exploration with PV

- Critical to start with a general question
- Learn basic visualization procedures (basically, drag, click, more clicking….)
- Creative about continuous variables (e.g., GPA, credit hours earned, etc.)
- Can use filters to “clean” data
- Use pie charts for a quick comparison
- Take time for exploration before sharing with a broader audience

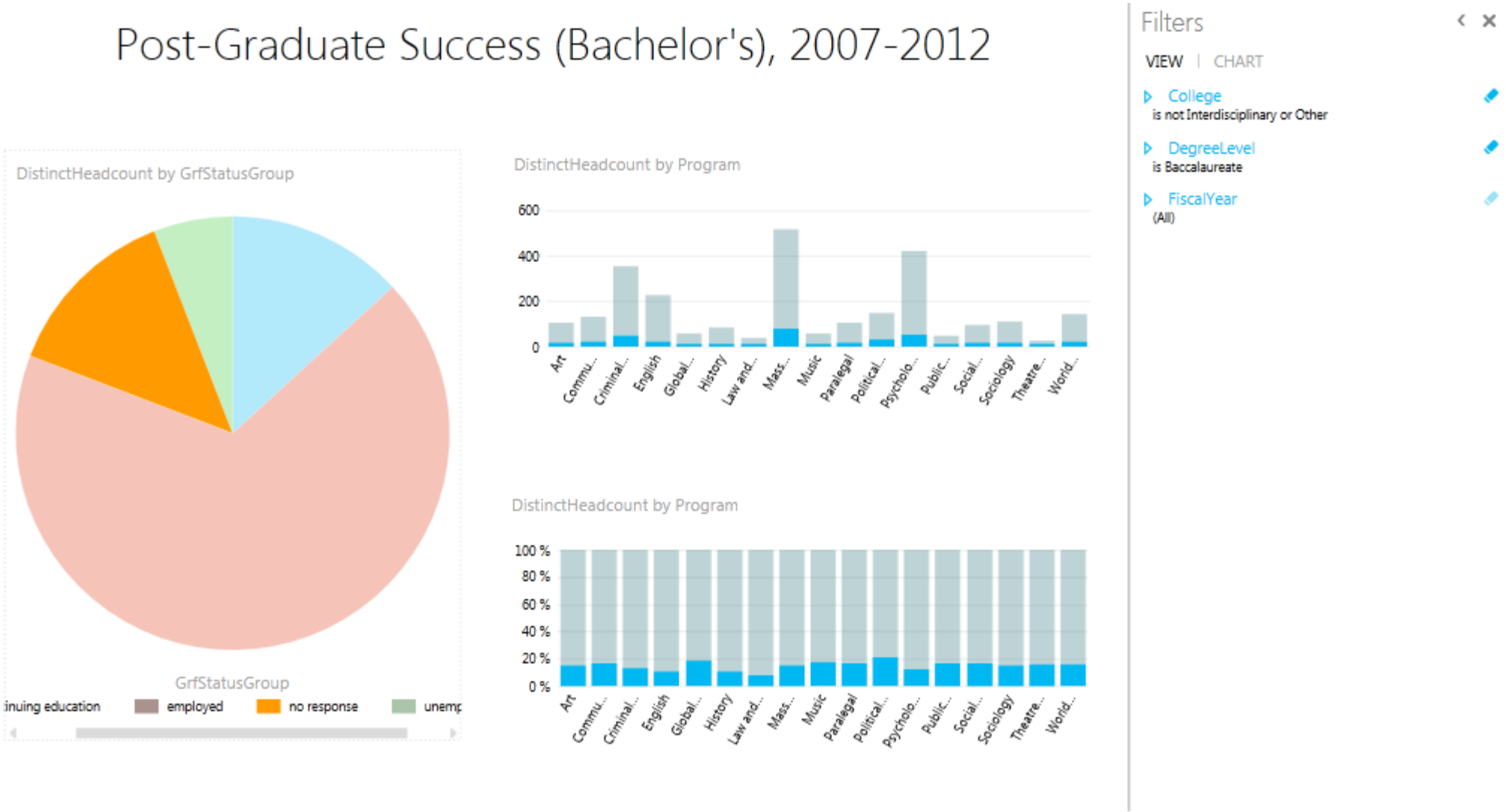
Demo: Cumulative Credit Hours by College/Program and Post-Grad Status 1.



Demo: Cumulative Credit Hours by College/Program and Post-Grad Status 2.

Demo: Cumulative Credit Hours by College/Program and Post-Grad Status 3.

Demo: No Response by Program (Liberal Arts)



Advantages and Challenges

Advantages

- Quicker and more flexible data exploration
- Intuitive
- Portable
- No new software purchase needed

Challenges

- Needs IT infrastructural capacity for optimal use
- Needs technical assistance for optimal use
- If careless or uninformed, one can draw wrong conclusion

Thank you!

Questions and Comments?

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