# Results & Findings in NVivo and NVivo Workshop

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Senior Capstone for Criminology

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Northeastern University
*NULab for Texts, Maps, and Networks*

*Feel free to ask questions at any point during the presentation!*

# Workshop Agenda

- Group discussion
- Workshop objectives
- Results/Findings in NVivo
- NVivo work period & questions

Slides & handouts at **https://bit.ly/diti-fall2020-singer**

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# **Group Discussion**

In your experiences with NVivo so far, what are some of the **strengths** and **weaknesses** of the software? Have there been any **difficulties** using NVivo?

Would anyone like to share how they have been organizing their data?

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# Workshop Objectives

- Understand how to use and analyze results in NVivo
- Continue working with NVivo in class with the opportunity to ask questions
- Discuss your organization (nodes, annotations, cases, etc.) with your classmates to understand different methods of using NVivo

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# Results in NVivo for Literature Review

- Last time we focused on creating nodes for concepts and theories, but we can also use NVivo to look at study findings for our literature review.

- We can look at results using similar coding methods we used before when coding for concepts and theories.

- We can also use what NVivo calls "relationships" to create maps and a new code based on bilateral connections.

- Finally, we can also use framework matrices to create a handy spreadsheet-like output.

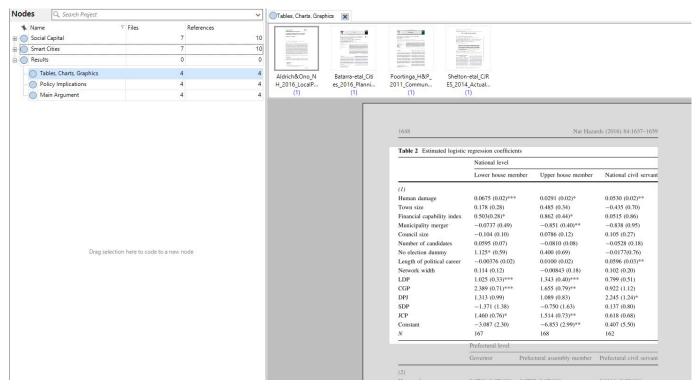*Feel free to ask questions at any point during the presentation!*

# Results via Coding

- This can be done using regular coding nodes:
- Create a "Results" node and code results from studies appropriately.
  - This can then be visualized via clusters and queries.
- If it is a more quantitative study, you can code tables and graphs using region coding.
- Remember that codes are flexible and you apply different creative solutions to analysis.

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# Graphics & Tables Coding Example

**Nodes**

Search Project

| Name | Files | References |
|---|---|---|
| Social Capital | 7 | 10 |
| Smart Cities | 7 | 10 |
| Results | 0 | 0 |
| Tables, Charts, Graphics | 4 | 4 |
| Policy Implications | 4 | 4 |
| Main Argument | 4 | 4 |

**Tables, Charts, Graphics**

Aldrich&Ono_N H_2016_LocalP... (1)
Batarra-etal_Citi es_2016_Planni... (1)
Poortinga_H&P_ 2011_Commun... (1)
Shelton-etal_CJR ES_2014_Actual... (1)

Drag selection here to code to a new node

1648
Nat Hazards (2016) 84:1637–1659

**Table 2** Estimated logistic regression coefficients

| | National level | | |
|---|---|---|---|
| | Lower house member | Upper house member | National civil servant |
| *(1)* | | | |
| Human damage | 0.0675 (0.02)*** | 0.0291 (0.02)* | 0.0530 (0.02)** |
| Town size | 0.178 (0.28) | 0.485 (0.34) | −0.435 (0.70) |
| Financial capability index | 0.503(0.28)* | 0.862 (0.44)* | 0.0515 (0.86) |
| Municipality merger | −0.0737 (0.49) | −0.851 (0.40)** | −0.838 (0.95) |
| Council size | −0.104 (0.10) | 0.0786 (0.12) | 0.105 (0.27) |
| Number of candidates | 0.0595 (0.07) | −0.0810 (0.08) | −0.0528 (0.18) |
| No election dummy | 1.125* (0.59) | 0.400 (0.69) | −0.0177(0.76) |
| Length of political career | −0.00376 (0.02) | 0.0100 (0.02) | 0.0596 (0.03)** |
| Network width | 0.114 (0.12) | −0.00843 (0.18) | 0.102 (0.20) |
| LDP | 1.025 (0.33)*** | 1.343 (0.40)*** | 0.799 (0.51) |
| CGP | 2.389 (0.71)*** | 1.655 (0.79)** | 0.922 (1.12) |
| DPJ | 1.313 (0.99) | 1.089 (0.83) | 2.245 (1.24)* |
| SDP | −1.371 (1.38) | −0.750 (1.63) | 0.137 (0.80) |
| JCP | 1.460 (0.76)* | 1.514 (0.73)** | 0.618 (0.68) |
| Constant | −3.087 (2.30) | −6.853 (2.99)** | 0.407 (5.50) |
| *N* | 167 | 168 | 162 |

| | Prefectural level | | |
|---|---|---|---|
| | Governor | Prefectural assembly member | Prefectural civil servant |
| *(2)* | | | |

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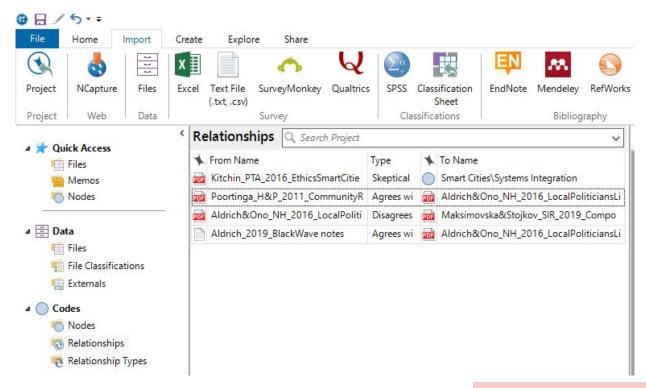
# Results via Relationships

- Relationships are an alternative method of drawing a map of connections between authors, or connections.
- "Relationships" are found under nodes sidebar.
  - First we need to create a relationship "type"
    - These can be associative, one-way, and symmetrical.
  - Then we can code a relationship between files, codes, etc.
- Relationships can be useful cognitively and visually to map results and connections between authors.
- Relationships are also codes!

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# Relationships Example

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# Results via Framework Matrices

- A Framework Matrix is a customizable spreadsheet output that can help visualize multiple codes.
- We can code things like concepts and theories, but we can also code for main arguments and conclusions.
- Framework Matrix is found under "notes" on the left toolbar or under "create" in the top toolbar.
  - Then we need to create a name and designate rows and columns
  - For our purposes, our rows are files (cases) and columns are nodes
  - Then we click on 'Auto-Summarize'

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# Framework Matrix Example

| Example Matrix ✖ | A : Main Argument | B : Policy Implications |
|---|---|---|
| 1 : Aldrich | "Governance mechanisms - the linking social ties between communities and decision makers in Tokyo - were critical. An area supported by more powerful politicians found itself recovering more quickly than similarly damaged and equipped areas with fewer champions." (72) | "Japan and other nations regularly facing disasters should reallocate their budgets toward community-friendly physical and social infrastructure to reconstruct and strengthen social ties. Local and national decision makers should also do all they can to provide psychosocial support during and after the emergency." (189) |
| 2 : Aldrich&Ono | our research has shown that these council members play important "bridging" functions, especially during and after a major crisis. While the municipality mergers may not necessarily decrease the meeting frequency of individual council members with other political actors at the time of facing a serious disaster, the reduction in the number of council members may slow down not only the response to disaster, but also the recovery from disaster. | We therefore need to pay more attention to the roles played by individual council members and their activities in order to further the consideration of ways to recover communities from disaster in an effective manner. |
| 3 : Kitchin | The consequence of the emerging data deluge is that data-informed urbanism is increasingly being complemented and replaced by data-driven urbanism (the mode of production of smart cities) and this is changing how we know, plan and govern cities, both within particular domains (e.g. transport, environment, lighting, waste management, etc.) and across them | Researchers need to consider the ethical implications of their work with respect to privacy harms, notice and consent, and the uses to which their research is being deployed. Beyond complying with relevant laws and institutional research board requirements, analysts have a duty of care to their fellow citizens not to expose them to harm through their analysis. |
| 4 : Shelton-etal | Even if one were to accept the smart city as a more rational, scientific and depoliticised way of understanding and intervening in the city, it is important to note that the smart city as it has largely been envisioned and critiqued bares little resemblance to the reality of how urban planning and governance is changing in the era of big data | While we remain critical of the smart city model, both as it is offered up by large technology corporations and as it has actually been implemented in cities like Louisville and Philadelphia, we also highlight the alternative possibilities opened up by these new forms of data-driven governance. However, it is only through a grounding of our analysis in the actually existing cities, territories and relationalities where these policies are being constructed and implemented that we can understand both the promise and the peril of the smart city model |

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# **Your Turn**

Using the data and documents that you have been gathering for your literature review, continue:

- Inputting the documents
- Creating nodes/cases
- Coding the documents
- Visualizing your codes

Please ask questions of us, we are here to help!

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# Suggested NVivo Reading/Resources

- Bandara, Wasana. "Using NVivo as a Research Management Tool: A Case Narrative." in A. Ruth (Ed.) *Quality and Impact of Qualitative Research*, 2006, pp. 6–19.
- Bazeley, Patricia. Q*ualitative Data Analysis with Nvivo*. SAGE, 2013.
- di Gregorio, Silvana. "Using Nvivo for Your Literature Review." Paper Presented at Strategies in Qualitative Research: Issues and Results from Analysis Using QSR NVivo Conference, 2000.
- Roth, J. J. Using NVivo to Organize Literature Reviews. 2012.

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# Thank you!

If you have any questions, contact DITI at nulab.info@gmail.com

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Slides, handouts, and data available at **https://bit.ly/diti-fall2020-singer**

Schedule an appointment with us! **https://calendly.com/diti-nu**

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