



Valuing Public Goods in a Populist World

Project Summary



- **Coordinator**

- University of Innsbruck (Austria)

- **Project Partners**

- Copenhagen Business School (Denmark)
 - WU Vienna (Austria)
 - Kozminski University (Poland)
 - Sabanci University (Turkey)
 - University of Graz (Austria)
 - LUISS Guido Carli (Italy)
 - Auckland University of Technology (New Zealand)
 - IN-JET APS (Denmark)



- **Context**

- Nations create socio-economic wealth for their citizens by ***ensuring access to public goods***, which are nonexcludable and non-rivalrous benefits for society.
- Countries are the primary providers of these goods, but ***private firms, NGOs, politicians, and the media*** also play a role.
- Institutions and the ***rule of law are crucial in correcting misallocations*** through subsidies, taxes, regulations, and monopolies.
- Populist politics ***exacerbate inequities by forming in-groups and out-groups***, interfering with the creation and distribution of public goods.

- **Project Goal**

- Analyze ***the interplay of the rule of law, populism, and societal networks in shaping the creation and equitable distribution of public goods.***



- **Objectives**

- Analyze the ***role of societal networks*** in misappropriating public goods.
- Increase ***transparency in governance institutions*** managing public goods.
- Promote ***civic engagement to enhance institutional legitimacy***.

- **Methodology**

- *Key research areas:* ***Mapping societal networks*** to understand their structure and how the rule of law and populist politics influence the distribution of public goods.
- *Data collection:* Data on societal networks, along with metrics on ***biodiversity***, ***public infrastructure***, ***free press***, and ***education***, to analyze public goods.
- *Innovative concept:* Introduce ***networked populism*** to explore how populist actors influence societal outcomes through their network positions.



Identifying Network Ties

Data Sources



- News Reports

- Raw news reports from Factiva
- 100 million news articles
- 500 GB to 1 TB data size
- Coverage: Austria, Belgium, Bulgaria, Denmark, Hungary, Ireland, Lithuania, Poland, Portugal
- Time: 2004/2008 to 2024

- Social Media Data

- Requests for API access (X, Meta)
- Existing datasets (e.g., Twitter)
- 2 billion social media posts
- 2 TB data size

- Corporate Data

- Annual reports and earnings calls from CapitalIQ and Refinitiv
- Subsidiary data from Orbis
- Management data from BoardEx
- 40 GB data size



Identifying Network Ties

Machine Learning Pipeline



- **Goal:** Identify key people, organizations, and institutions in documents.
- **Approach:**
 - Uses AI to scan large volumes of multilingual text (like news articles or reports)
 - Detects and labels entities (e.g., "European Central Bank," "Angela Merkel")
 - Smart text segmentation helps improve accuracy in complex or ambiguous contexts
 - Grouping sentences or paragraphs based on their meaning and thematic content
- **Outcome:** A comprehensive list of important actors found in the text



- **Goal:** Understand how the identified entities are connected
- **Approach:**
 - Analyzes text to find who is linked to whom, and how (e.g., partnerships, ownership)
 - Uses structured AI prompts and validation to reduce errors and improve reliability
 - Clear instructions that include examples and standard output formats
 - Supports multiple languages and adapts to different business or policy domains
- **Outcome:** Verified relationship links between people and organizations



- **Goal:** Turn findings into a structured, analyzable format
- **Approach:**
 - Outputs standardized graphs that map entities and their relationships over time
 - Compatible with visualization and analysis tools (e.g., Neo4j, GraphDB)
 - Designed to support trend analysis and integration with external databases
- **Outcome:** A dynamic knowledge network you can explore and analyze

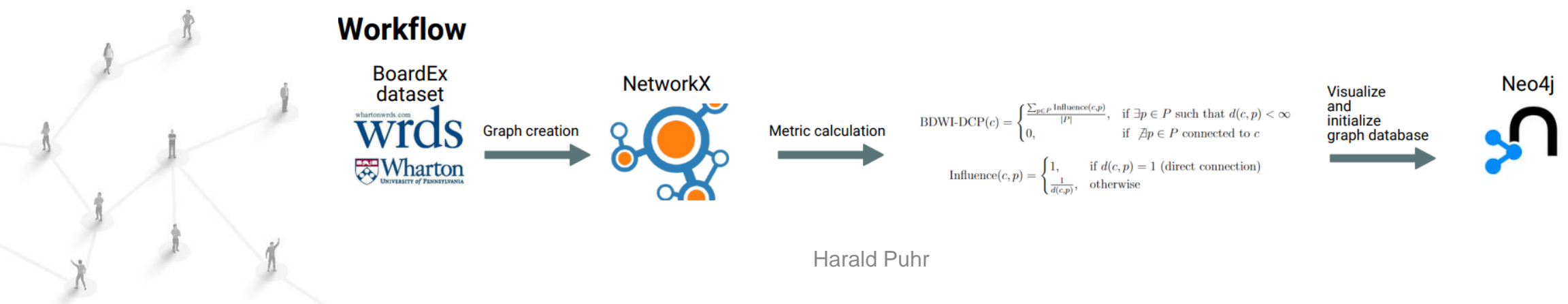


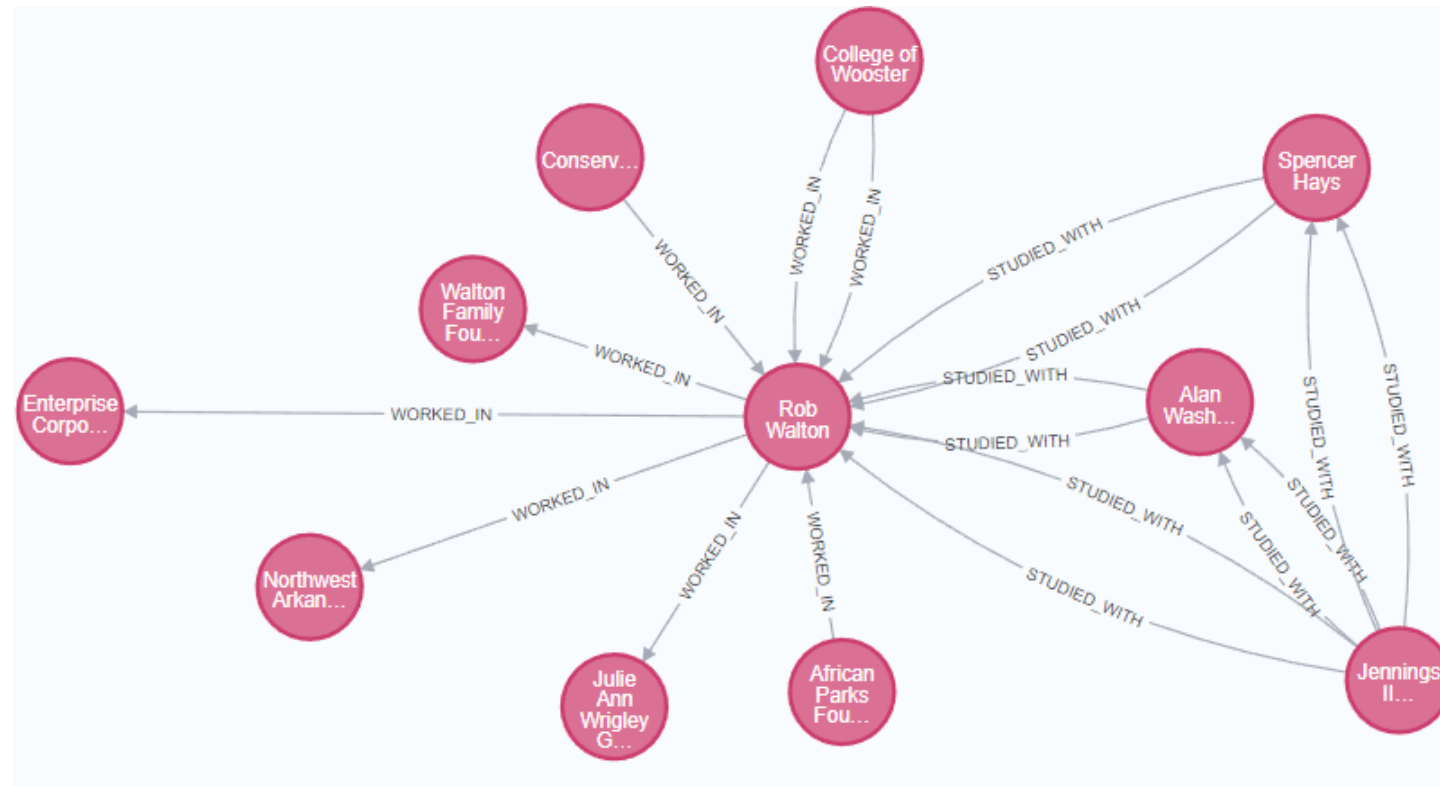
Identifying Network Ties

A Simple Example



- Research project by Dario Jugo
 - WU Vienna and TU Vienna
 - eXplore! Big Data Initiative
- Measure political connectedness based on board connections
- Use data from BoardEx to identify ties between board members and politicians (e.g., work, education)
- BoardEx dataset consists of person and company data
- Transform raw tabular data into a graph network where each node is either a person or a company
- Create person-person and person-company relationships
- Calculate the final score based on the proposed metric







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THANK YOU



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