

# Ships in the Canadian Arctic

## Answering the Question of Who

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### Research Questions & Purpose

#### Research questions:

- Who is involved in and/or concerned with vessel activities in the Canadian Arctic? What are their interests, roles, and responsibilities?
- What areas of interest are receiving the most attention? What areas are receiving the least?
- How can the stakeholder environment be visualized to increase awareness and understanding?

#### Purpose:

- Highlight where collaborations could be fostered for more efficient work (research, policy development, enforcement, etc.)
- Identify the areas of interest that are not receiving sufficient attention to be addressed

### Methodology

1. Identify stakeholders
2. Analyze stakeholders

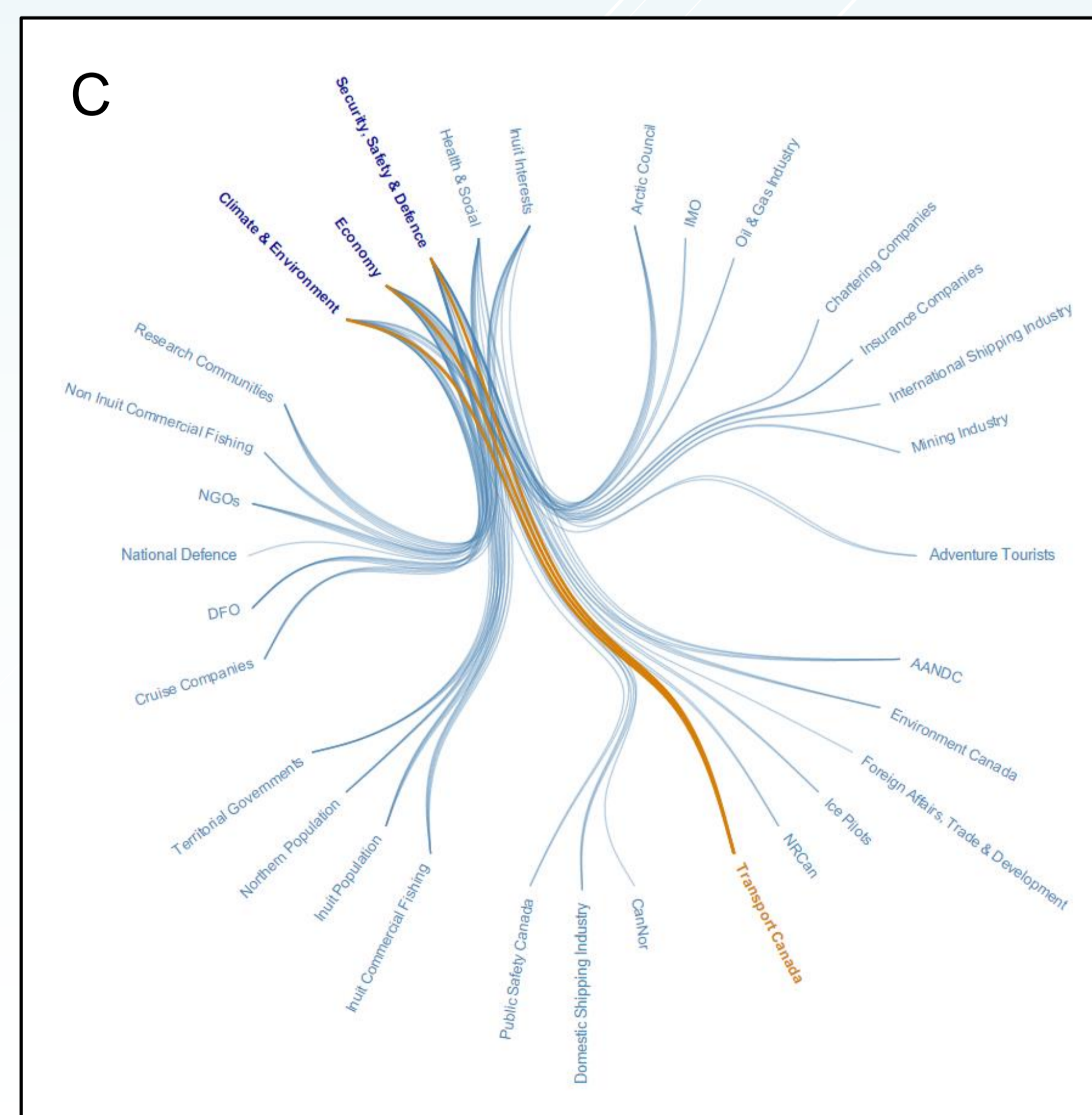
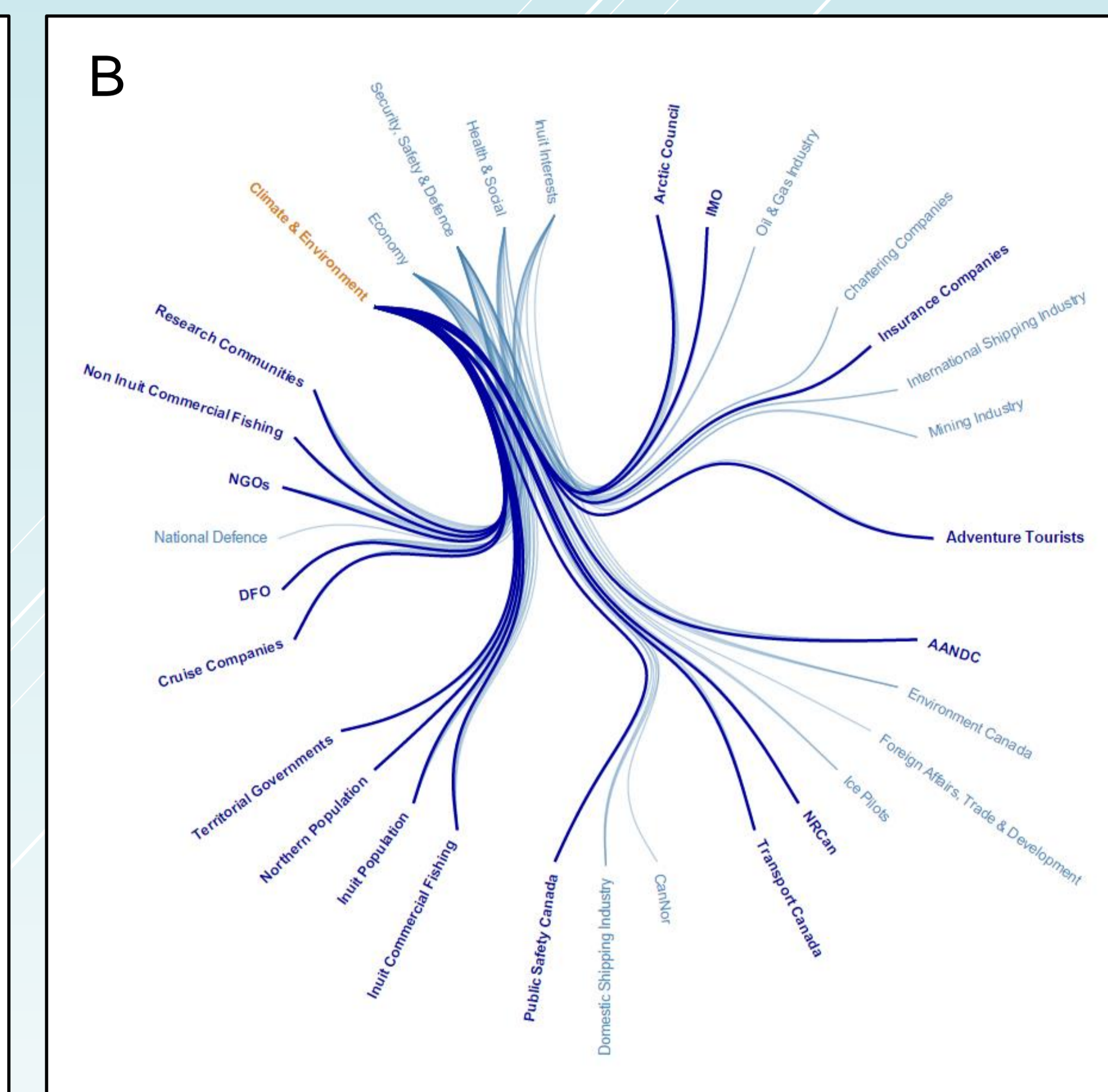
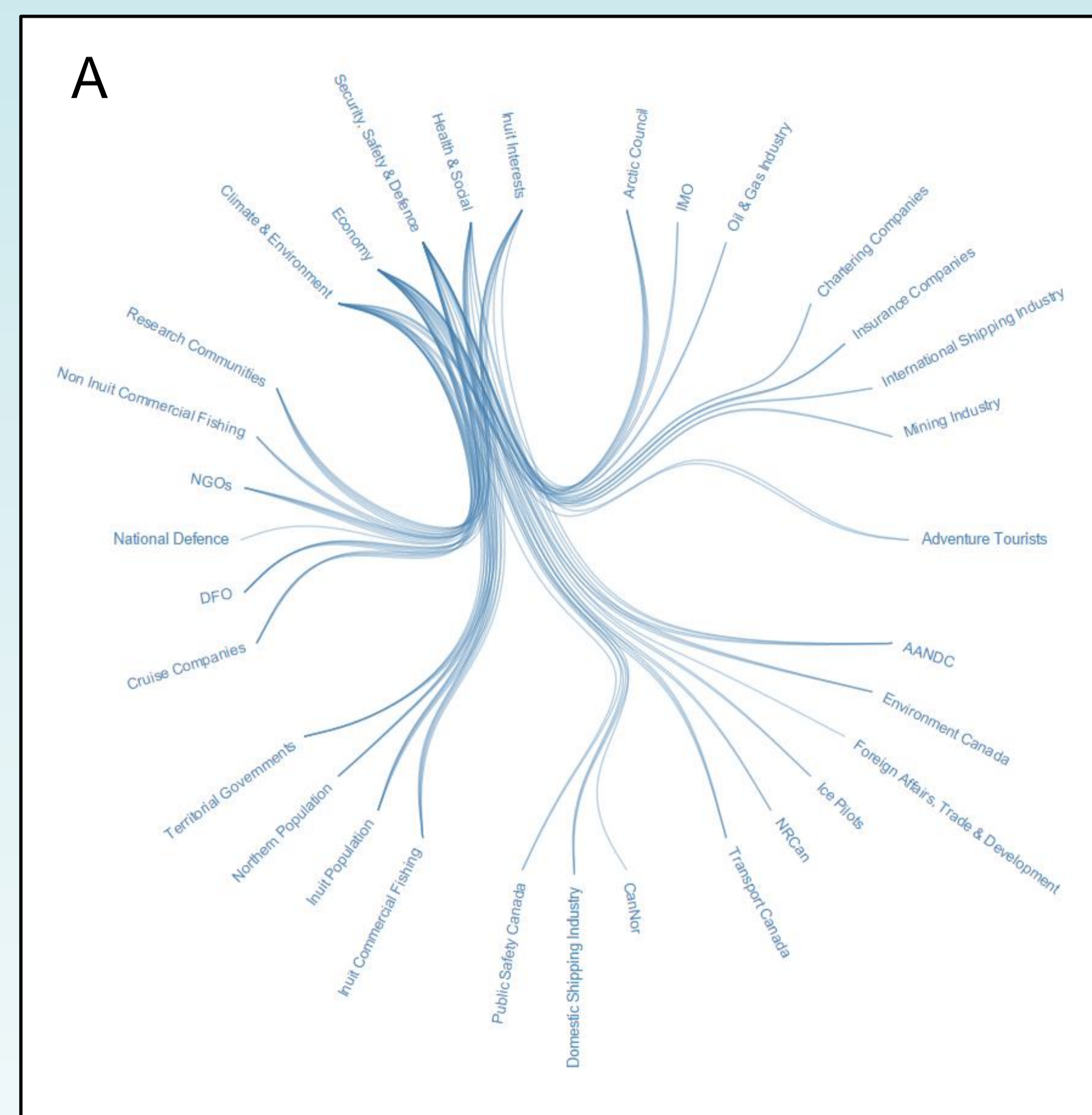
Websites, literature (reports, journal articles, etc.), conferences and networking events, interviews  
Scales: international, national, local

- Interests:
- i. Climate & Environment: pollution and response; environmental protection; sustainable development
  - ii. Economics: business development; cost-efficiency; trade; sustainable development
  - iii. Safety, Security & Defence: search and rescue; safety of navigation
  - iv. Health & Social: the health, happiness, and well-being of societies; sustainable development
  - v. Inuit interests: maintaining culture, language, and traditional activities

3. Develop an interactive tool using D3.js for visualizing the relationships between stakeholders

### Preliminary Results

STAKEHOLDER GROUP	Climate & Environment	Economics	Safety, Security & Defence	Health & Social	Inuit Interests
1. Aboriginal Affairs and Northern Development Canada (AANDC)	X	X		X	X
2. Adventure tourists	X		X		
3. Arctic Council	X	X	X	X	X
4. Canadian Northern Economic Development Agency (CanNor)		X			
5. Chartering companies		X	X		
6. Cruise industry	X	X	X		X
7. Domestic shipping industry		X	X	X	
8. Environment Canada	X	X	X	X	
9. Fisheries and Oceans Canada (DFO)	X	X	X		
10. Foreign Affairs, Trade and Development		X			
11. Ice Pilots	X	X	X		
12. Insurance companies	X	X	X		
13. International Maritime Organization (IMO)	X		X		
14. International shipping industry		X	X		
15. Inuit commercial fisheries	X	X	X	X	X
16. Inuit population	X	X	X	X	X
17. Mining industry	X	X	X	X	X
18. National Defence			X		X
19. Natural Resources Canada (NRCan)	X	X			
20. Non-governmental organizations (NGOs)	X	X	X	X	X
21. Non-Inuit commercial fisheries	X	X	X		
22. Northern population	X	X	X	X	
23. Oil & Gas industry	X	X	X	X	X
24. Public Safety Canada	X		X		
25. Research community	X	X	X	X	X
26. Territorial Governments	X	X	X	X	X
27. Transport Canada	X	X	X		
<b>Total</b>	<b>21</b>	<b>22</b>	<b>23</b>	<b>12</b>	<b>11</b>



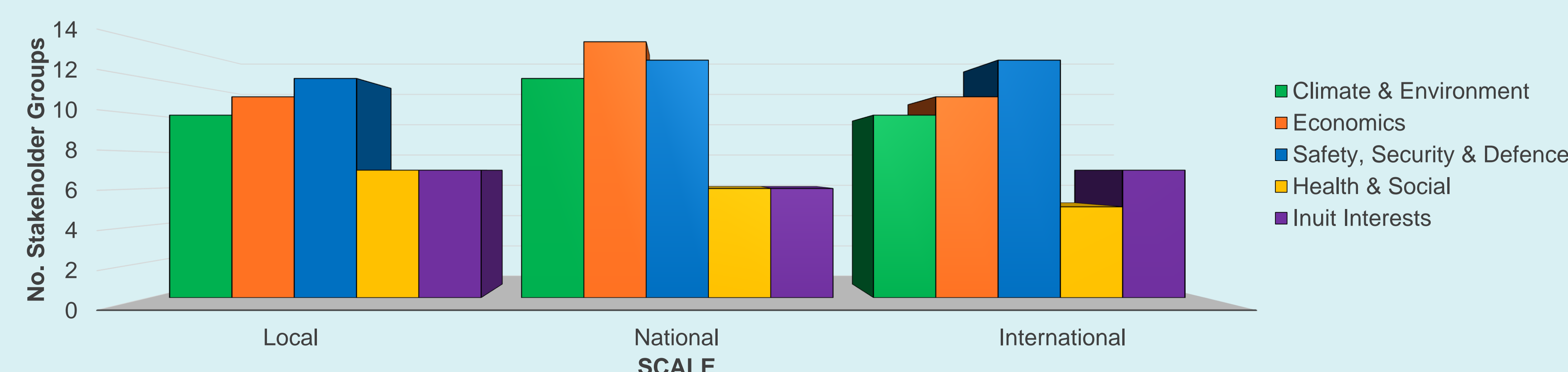
#### Stakeholder Visualization Tool

A) The visualization tool: stakeholders are grouped based on the scale(s) at which they operate (international only, international and national, national only, national and local, local only, international and local, and all scales).

B) When your cursor is over an interest (source node) it is highlighted orange, and all stakeholders with that interest (target nodes) are highlighted dark blue.

C) When your cursor is over a stakeholder (source node) it is highlighted dark blue, and their interests (target nodes) are highlighted orange.

### Stakeholder Analysis



### Next Steps for the Visualization Tool

- Add stakeholder descriptions as call-outs
- Add links to stakeholder websites and information pages
- Publish visualization tool online for public use
- Continuous stakeholder engagement in order to:
  - Update stakeholder information
  - Improve functionality of the tool
  - Facilitate collaborations

### Acknowledgements

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