

## Thesis Draft Outline

1/25/21

First draft outline

Major Studio 2 / Thesis

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Topic:

I am visualizing entrepreneurial ecosystems by geographic cluster because I want to better predict where, how, and why new clusters may emerge in order to help policy makers, investors, and entrepreneurs with allocating resources, growing the economy, and creating meaningful work.

### **Mapping Future Entrepreneurial Ecosystems by Geographic Cluster**

1. Abstract
2. Table of Contents
3. Introduction
4. Background (Who and When)
  - a. The History of Entrepreneurship
    - i. Historical communities and the Entrepreneur
      1. Ancient Days of Trading and other historical communities.
      2. Whaling Industry as a model for venture ecosystems.
  - b. Seekers and Solvers within the Entrepreneurial Ecosystem
    - i. The Entrepreneurs - The Solvers
      1. By Age
      2. By Gender/Sex
      3. By Culture/Geography
    - ii. The Investors - The Seekers
      1. Traditional VCs and LPs
      2. Social Impact VCs and LPs
      3. Accelerators, Incubators, Venture Studios
      4. Government grants and contracts
    - iii. The Policy Makers
      1. Innovation and Economic Offices of Government
    - iv. The Entrepreneurial Researchers
      1. In academia and public
    - v. The Academic Institution and Commercialization Offices
      1. Innovation Labs

2. Commercialization Offices
5. Geographies of Opportunity (Where + How)
  - a. The Causes and Conditions
    1. Psychological Traits of the Entrepreneur
      - a. An Equity mindset model
      - b. A Risk mindset model
      - c. An opportunity mindset model
    2. Innovative Technologies and the IP Wars
      - a. IP filings by geography and Area
    3. Resource Flows
      - a. Academia, Labs, Accelerators, Incubators
      - b. LPs and the Rise of the Family Office
    4. Impact of Covid-19
      - a. Macro and Micro Economics
      - b. Pre versus post analysis by location
6. Data and Methodology (What, How, Why)
  - a. DataStructures - TBD
    - i. Graph Database, possibly ArangoDB or Graph QL?
    - ii. AWS-suite, S3, etc.
  - b. Statistical Methods
    - i. More Research is needed here for forecasting and analysis.
  - c. Geographic Clusters around the world by coordinate (More research needed here for APIs)
    - i. Silicon Valley
    - ii. UK
    - iii. Shenzhen
    - iv. Beijing
    - v. Tel Aviv
    - vi. New York
    - vii. Canada
  - d. Journals of Entrepreneurship
  - e. Public Datasets and APIs
  - f. First Hand Interviews
7. Tools for Visualizing
  - a. Vue.js, QGIS, D3.js, (possibly Nuxt), Node.js ,AWS, etc.
8. Future Ecosystem Mapping
  - a. Predicting future locations, Where to look next, Where to go from here?
9. Conclusion
10. Appendix
11. Sources / Bibliography