



Session 2: Interaction between Technological Innovation and Policy

Theme 1: Best Practices in Innovation Policy

Linear Model of Innovation (Classic)





- Policy → Vannevar Bush, 1945
 - After WWII, US needs to do basic research
 - HR pipeline trained scientists
 - Grants & scholarships
- source: Arnold & Bell 2001



Newer Approaches to Innovation

Closed Innovation Model



Major Components of a National Innovation System

Framework Conditions

- Financial environment
- Taxation and incentives

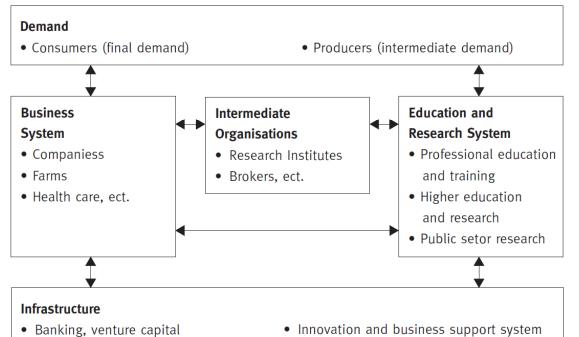
• IPR and information system

- Propensity to innovation and entrepreneurship
- Trust
- Mobility

· Standards and norms

Education, literacy

alternative market ideas corporate limit corporate limit other industry markets extern technologies Present



- Open Innovation → Utilizing external licenses/patents.
 - In Japan?
- Innovation Systems
 - Network flow of tech, info
 - interactions between actors people, enterprises, institutions

Open Innovation Model

- Nation, Region, Sector…
- Innovation Networks
 - E.g. Clusters
- Different Lens ⇔ Different Policies



Question

- What are the best practices in innovation policy around the world?
 - Why?

Examples from the EU and US?

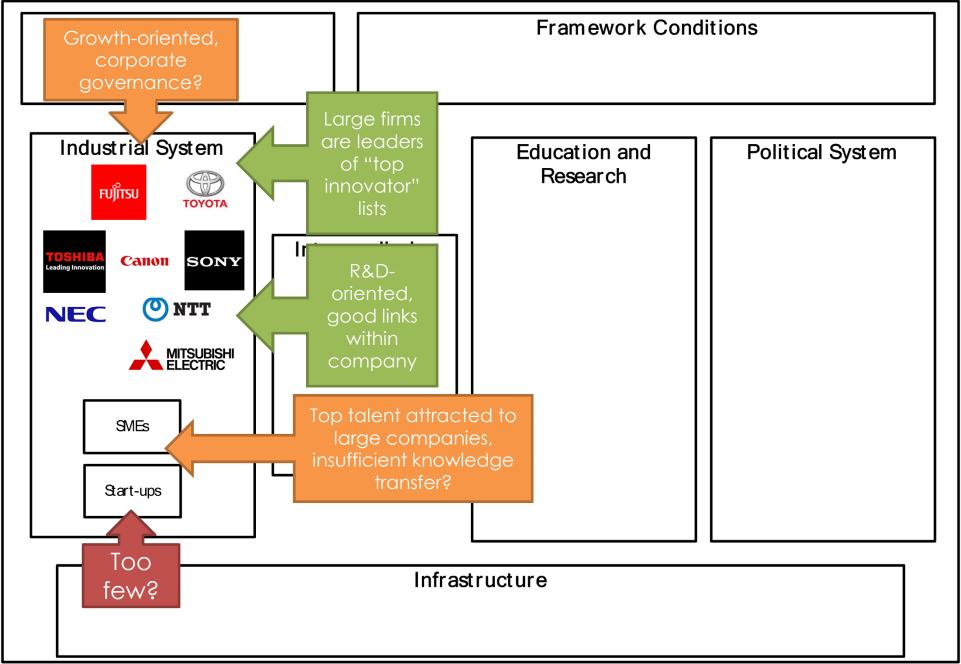


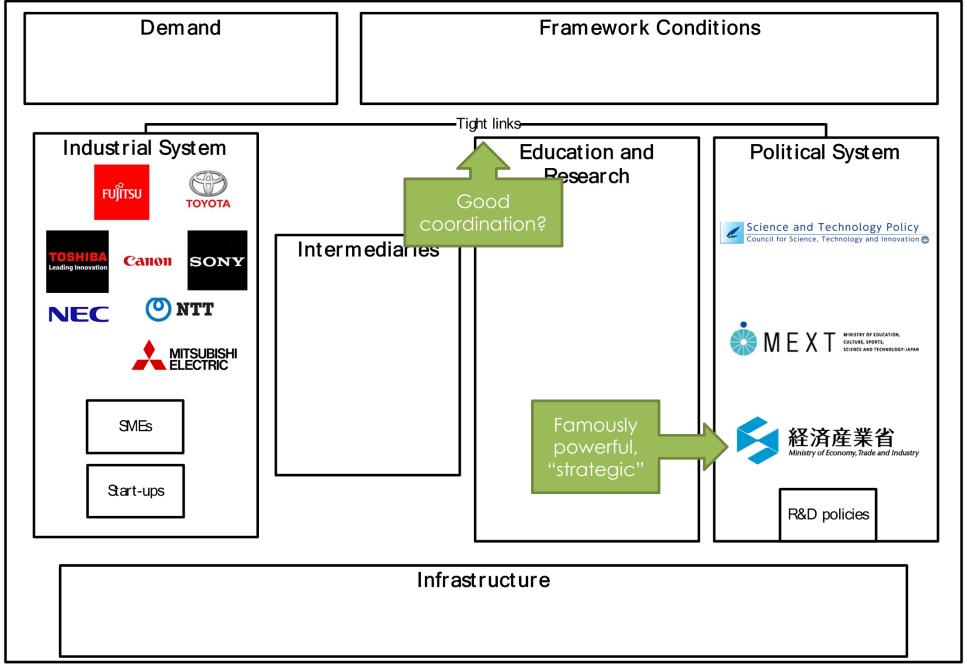


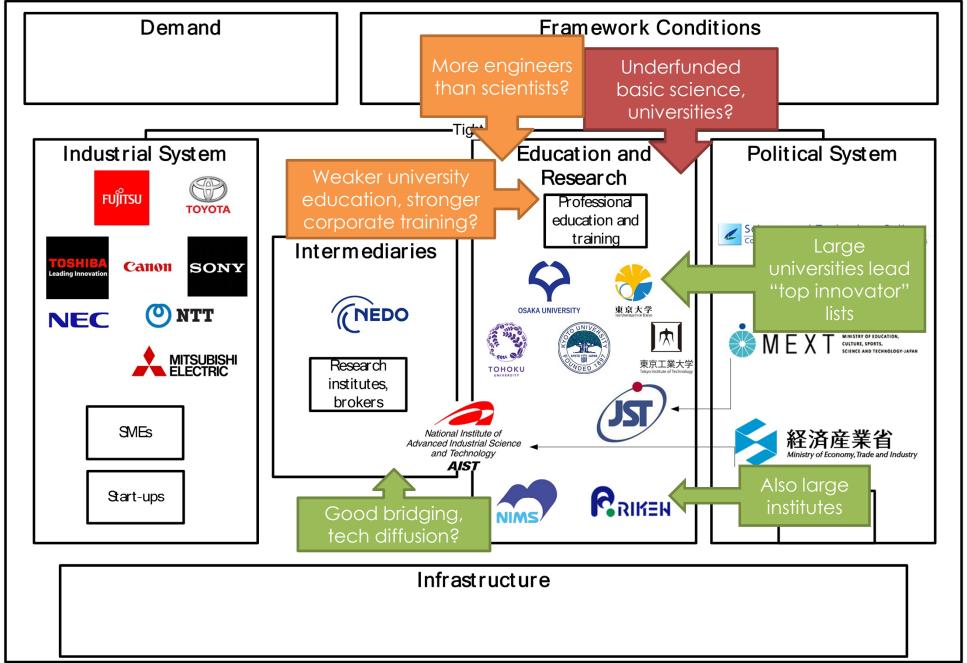
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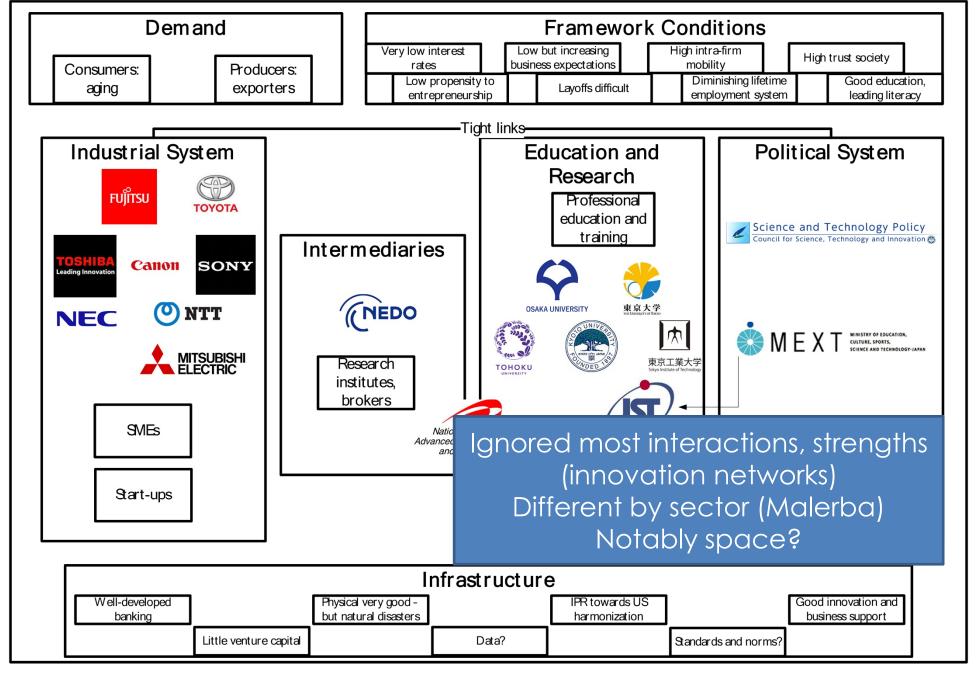
Theme 2: Innovation in Japan

Framework Conditions **Demand Education and** Political System Industrial System Naively try to fill in for Japanese NIS Sources Freeman 1987 Nelson 1993 European Commission 2008 Reuters "most innovative" 2016 METI, MEXT interviews 2017 Lecture notes 2016 Subjective impressions... Infrastructure











Questions



- What are the most important characteristics of innovation in Japan?
 - Of innovation policy?
 - Actors, policies, initiatives? Best practices?
 - Role of industrial policy & finance?
- Same question, in the space sector?