USPTO PatentsView Project

PatentsView Workshop
Washington DC, October 6, 2017

Comments

By

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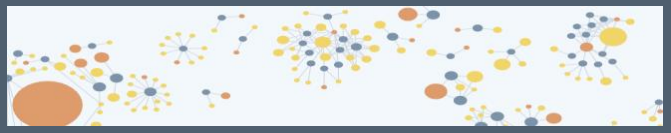

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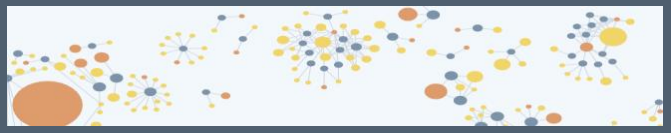
WHY IS THE PATENTSVIEW PROJECT RELEVANT?

- Skew -> Disproportionate contributions from innovative firms to jobs and productivity growth
- Timely indicators -> Policy relevant
- Geographic detail -> Actionable at local level
  -> comparable benchmarks
- Information content -> Phenomenal



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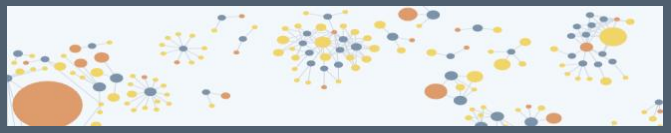
- Information content -> Phenomenal
- PatentsView makes data easily accessible!



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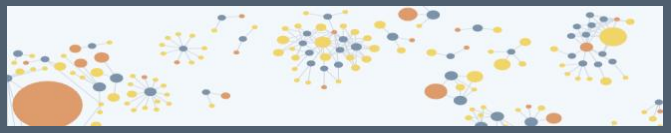
The Website and Tool

- Data <- lots of data
- Visuals <- lots of analytics
- Methods and Sources
- Very clean and intuitive



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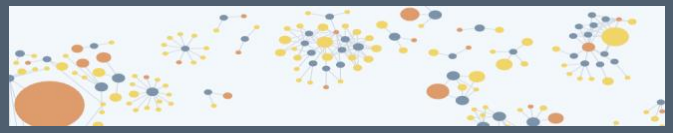
The Website and Tool

- Data
- Visuals
- Methods and Sources
- Very clean and intuitive
- Ambitious: Expanding!



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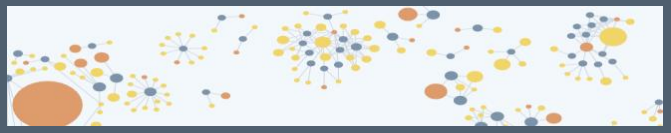
How we use the data

- USPTO/Census project
  - Patents/inventors/firms
  - Products: BDS-IF (aggregates)
  - New statistics jointly published?
- Research
  - Household innovations (unassigned)
  - Impact of innovation on jobs/productivity
    - Declining dynamism?
  - Changing nature of innovation:
    - Young/Large
    - Radical/incremental



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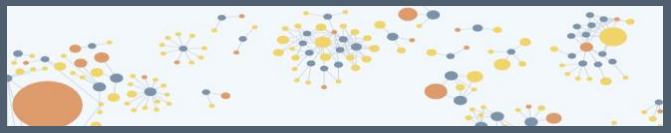
Going Beyond: Understanding innovation

- Other relevant indicators of impact
  - Novelty, Radical, generality, relative citations (within field)
- More on aggregates
  - expand relationship beyond top 100 cited patents
  - Expand concepts beyond simple citations to identify technological trajectories (time series view/relationships view)
    - who are top players in a particular field
    - are they collocated (externalities)
    - what are the radical inventions in a field/most cited -> understanding the innovation process within a technological trajectory
    - relevant “bridge” patents
    - full distributions of NBER/CPC classes
    - Most relevant new trajectories (nascent new technologies?)



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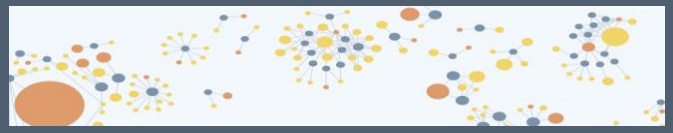
Going Beyond: Understanding innovation

- More on aggregate trend comparisons
  - Ability to drill down (e.g. tech field composition, top assignees/inventors, most cited patents,)
  - Understanding knowledge content: Team size over time by technology class
  - Team characteristics? Experience/gender/race/age
  - Firm size/age/industry distribution
- Assigned/unassigned/reassigned
- Some might require collaboration!



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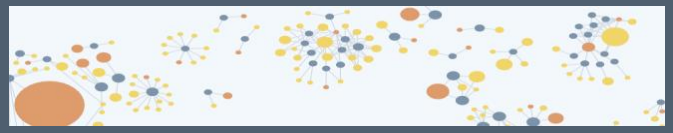
Highlighting Strengths Again

- Skew -> More detail on important firms in the context of technological trajectories
- Timeliness -> Amazing job
- Geographic detail

  -> allow exploration beyond top cited/inventors/assignees
- Potential -> We want more!



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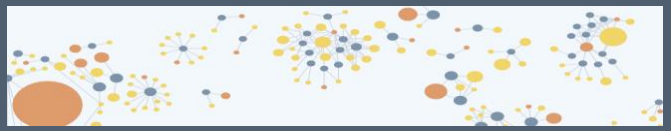
Other things

- Methods and sources is very limited (one page)
  - I would like to see papers for disambiguation methods
  - How we deal with truncation when looking at highly cited patents (within year?)
  - Important as you think about expanding
- Ability to create dynamic videos (see Stern's Cartography Project)



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Very cool!