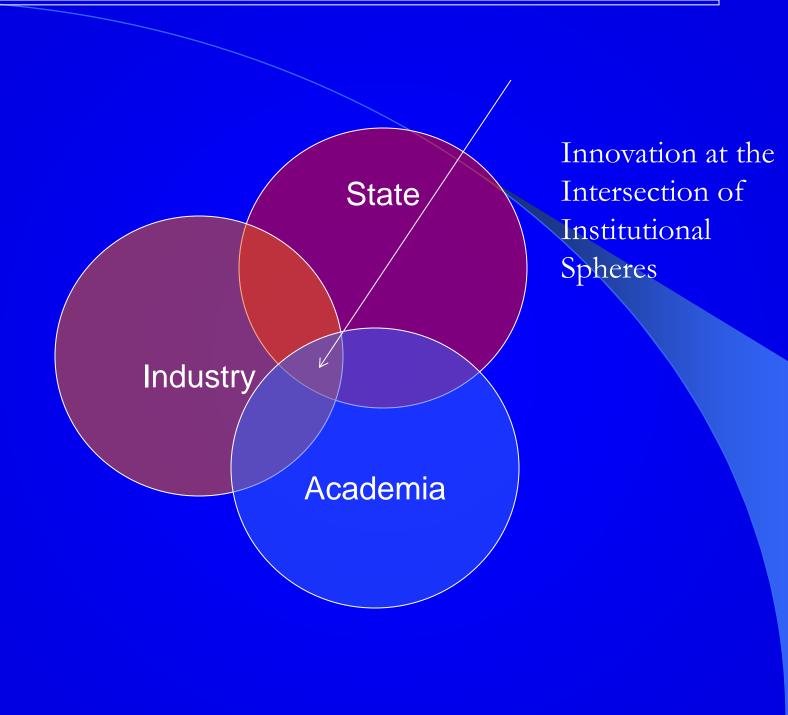
# "Innovation in Innovation" Moving Beyond Boundaries to Triple Helix Hybrid Spaces

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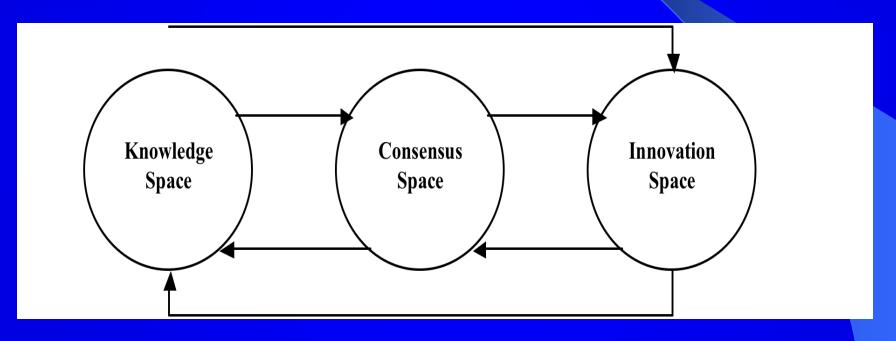


#### **Triple Helix Thesis**

- Polyvalent Knowledge: multiple simultaneous characteristics e.g. publishable and patentable
- University plays leading role in Knowledge-based Society: shift from secondary to primary institutional sphere; 2<sup>nd</sup> Academic Revolution
- "Taking the role of the other" Raised from Individual Level (Mead, 1934) to Institutional Level e.g., university firm formation; public venture capital; industry "universities"

#### Triple Helix Spaces

• Linking knowledge, innovation, governance and leadership



Regional Innovation Organizer

#### A semi-conductor model

- From Boundary Work (Gieryn, 1983), a defensive Model to "Boundary Play" (Etzkowitz and Champenois, 2013) with:
  - Boundary Regulation: Douane
  - Crossing Assistance: Passeur
- Resource scarcity as stimulant to boundary crossing
- Circulation among the helices and multiple roles e.g. "Dual Life" persons

#### Newcastle Professors of Practice (PoP)

- From US 1/5<sup>th</sup> Rule to European ½ Uni-Ind Roles
- UK Experiment: Turns PoP model "on its head" from teaching to research
  - Forward linear: faculty entrepreneurs moving ½ time to Industry
  - Reverse linear: Industry entrepreneurs (PhDs) moving ½ time to University



## Can a teaching university be an entrepreneurial university?

- Oregon Shakespeare Festival (OSF)-> theatre cluster
- Ashland, Oregon transition from industrial to arts and humanities town
- Research Uni capitalizes new knowledge; teaching Uni redistributes old knowledge
- Academic entrepreneurship-> civic entrepreneurship-> culturalentrepreneurship> business entrepreneurship

### An Innovation Response to the Economic Crisis?

- 1930's Depression : Underutilized Industrial Capacity
- 2<sup>nd</sup> Great Depression: Underutilized Intellectual Capacity
- CIRM (California Institute of Regenerative
- Medicine) Model: \$3 billion 10 year bond funds= S&T as Infrastructure "roads and bridges" of the Knowledge Age

#### The Paradox of Success

Stanford's Underutilized Entrepreneurial Potential

- OTL Focus on Serial Entrepreneurs
- Many academic inventors under-supported
- "If its not broken don't fix it" fallacy
- We say: "If its doing well; make it better"
- AUTM Report: 7 Stanford Start-ups per annum
- Start X Student Government Accelerator: 12
   Start-ups per academic quarter since 2010
- Persisting "wet lab" incubator Gap: StartX Med

### Triple Helix Association www.triplehelixassociation.org

- International Conference Series, from 1996
   Amsterdam, New York, Rio-de Janeiro, Singapore +
- TH XI 8-10 July 2013 London: The Triple Helix and Open Innovation: Twins or Rivals
- THXII 2014 Tomsk, Russia
- Helice: Quarterly Newsletter and Magazine
- Triple Helix: A Journal of University-Industry-Innovation and Entrepreneurship, Springer, 2014
   Launch, Open Access, Inaugural Issue "Innovation's Future" Abstracts in UN Languages+Portuguese