The Triple Helix Model

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Triple Helix Group

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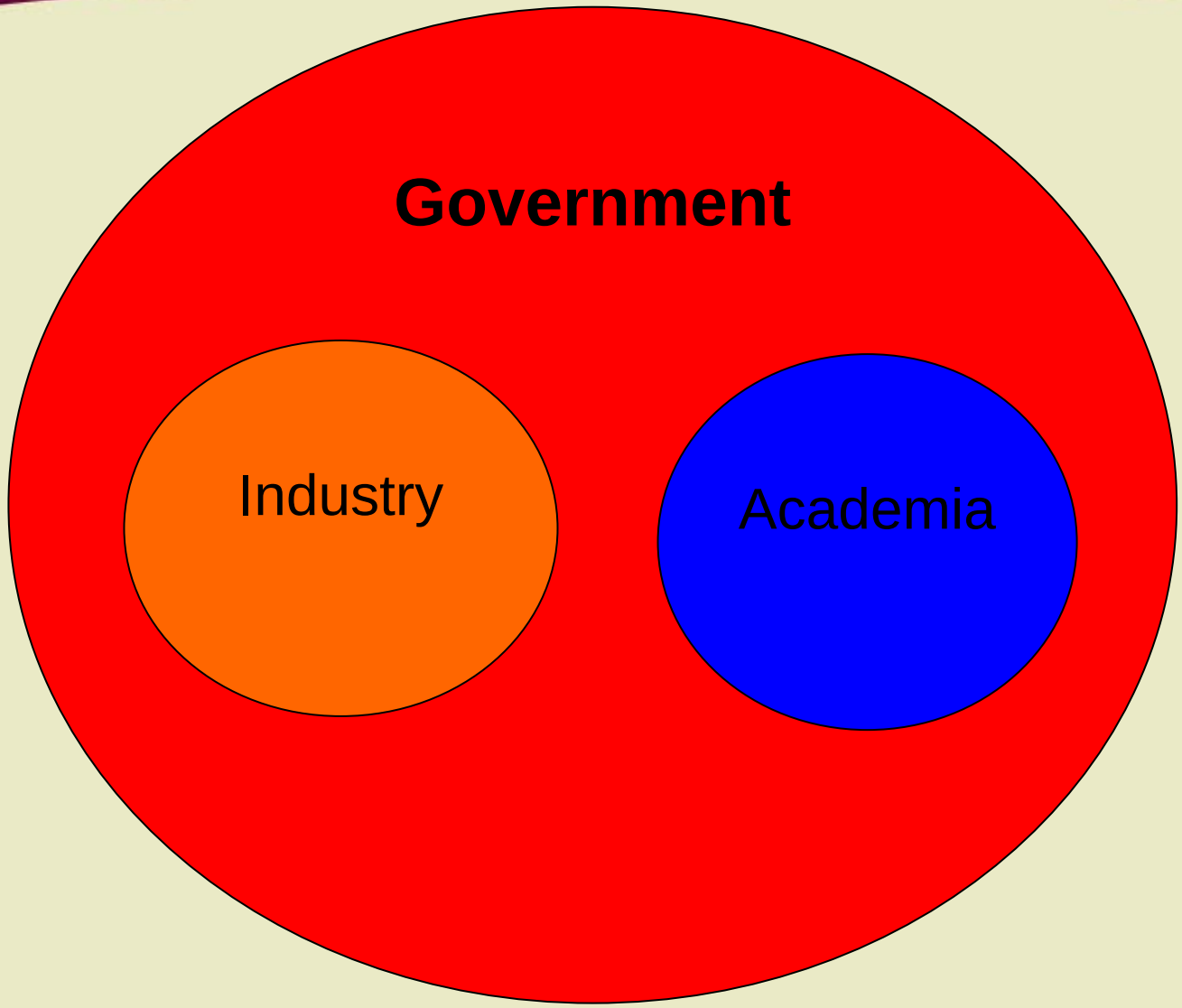
Triple Helix Thesis

- University Plays leading role in Knowledge-based Society: shift from secondary to primary institutional sphere
- From Separate or Dominant to Overlapping Institutional Spheres
- Taking the role of the other e.g., university forming firms; government as venture capitalist; industry raising training to higher levels

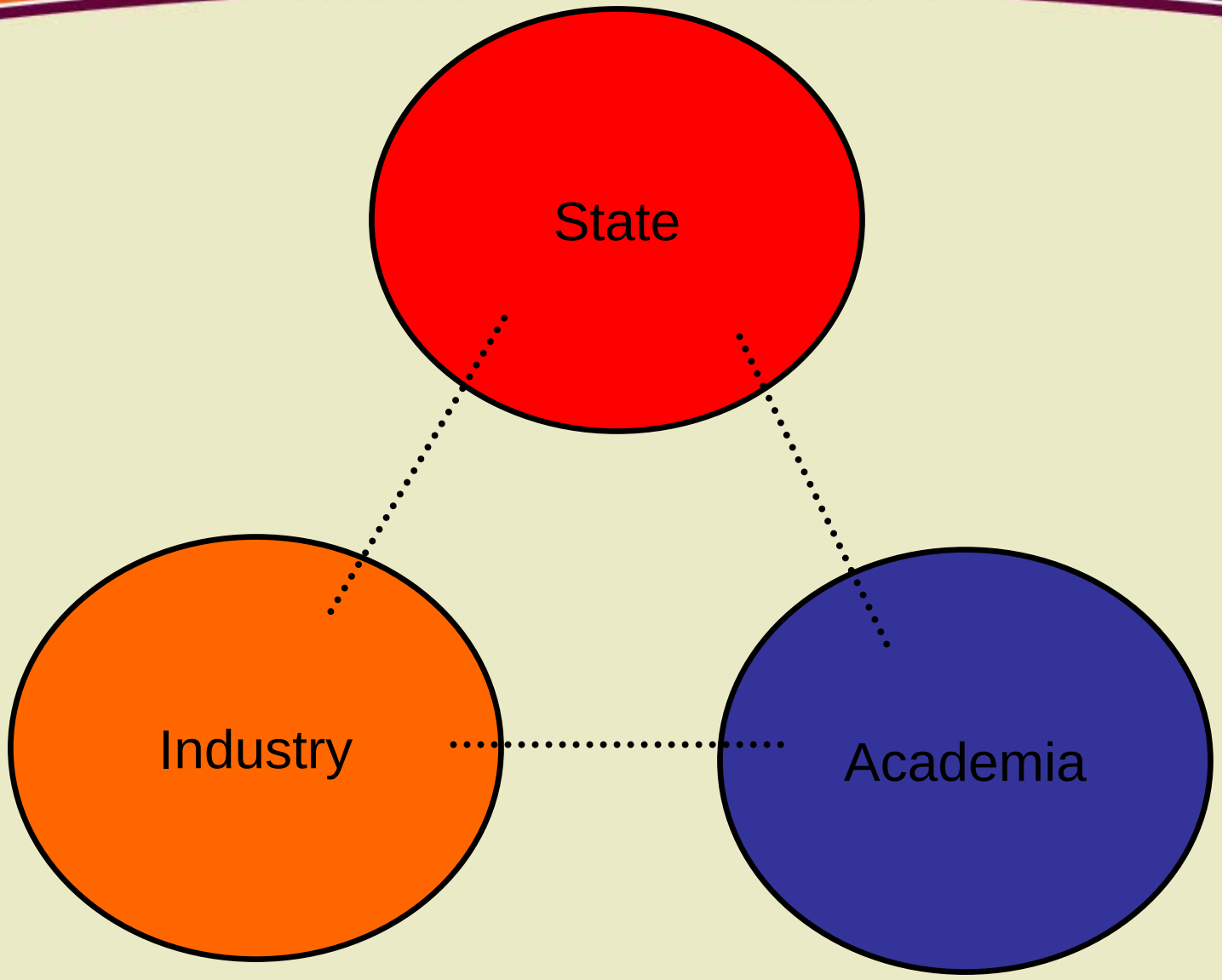
Statist Model



Statist Model: Inclusive Spheres

- Government dominates other spheres
- Top-down bureaucratic co-ordination
- Large project mentality
- Industry: national champions
- University: primarily teaching institution

Laissez-Faire Model

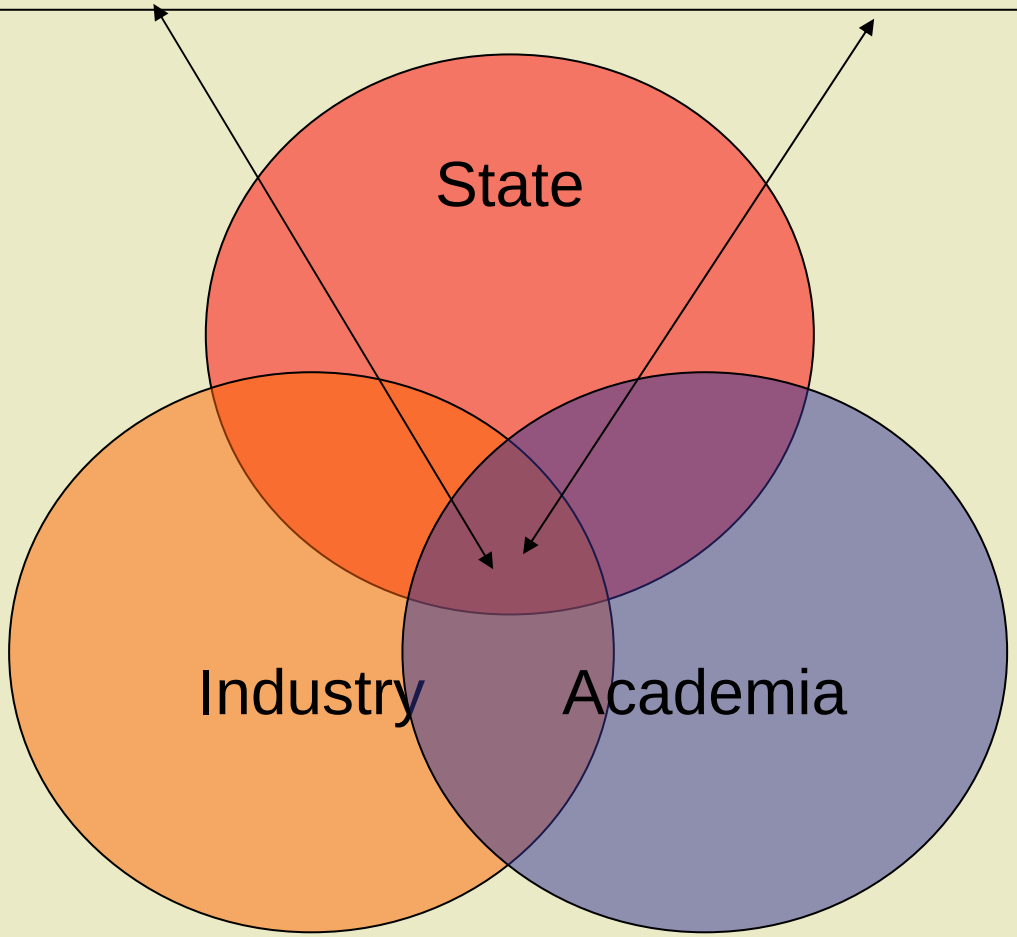


Laissez-Faire Model: Separate Spheres

- University: basic research and human resource provider
- Industry: Firms linked by market
- Government: limited to addressing market failures
- Individualistic mentality; heroic entrepreneur
- Interface Units Across strong boundaries

Triple Helix Model

Innovation Stimulated *at the Focal Point*



Academic Revolutions

- First academic revolution
- Second academic revolution

- Teaching University->Research University-> Entrepreneurial University

Embodies and Extends Ivory Tower and Humboldtian models

Origins of Triple Helix Model

US Second World War Triple Helix

Post-War Endless Frontier

1980's Bayh-Dole Regime-> Endless Transition

Linear Model->Assisted Linear Model->Non-Linear Model

Regional Innovation Organizer (RIO)

- Regional Authority: governmental or quasi-governmental
- takes the lead in creating a consensus space bringing together triple helix actors
- Cases:

  New England Council

  Joint Venture Silicon Valley

Knowledge Space

- Universities and Research Institutes
- Underutilized Potential
- Research Projects with economic and social relevance

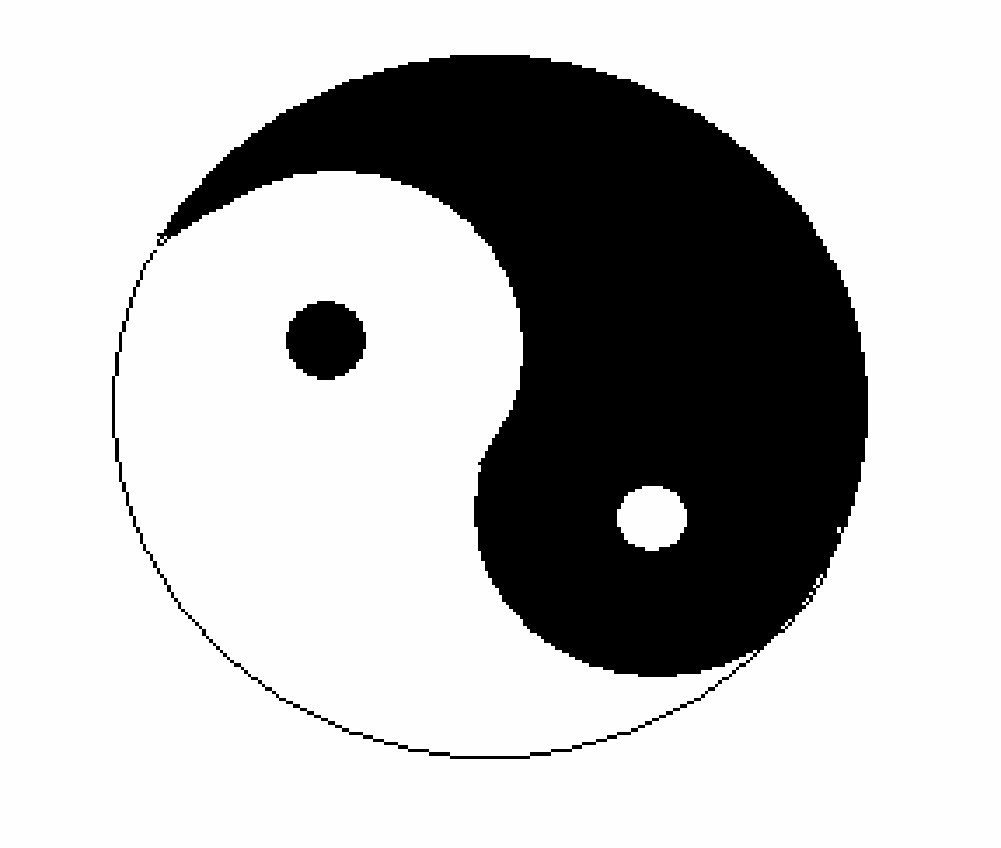
Consensus Space

- Fora to Generate Ideas and Strategies
- Triple Helix Meeting Place
- e.g. New England Council; Niteroi Technopole; Amsterdam Knowledge Circle

Innovation Space

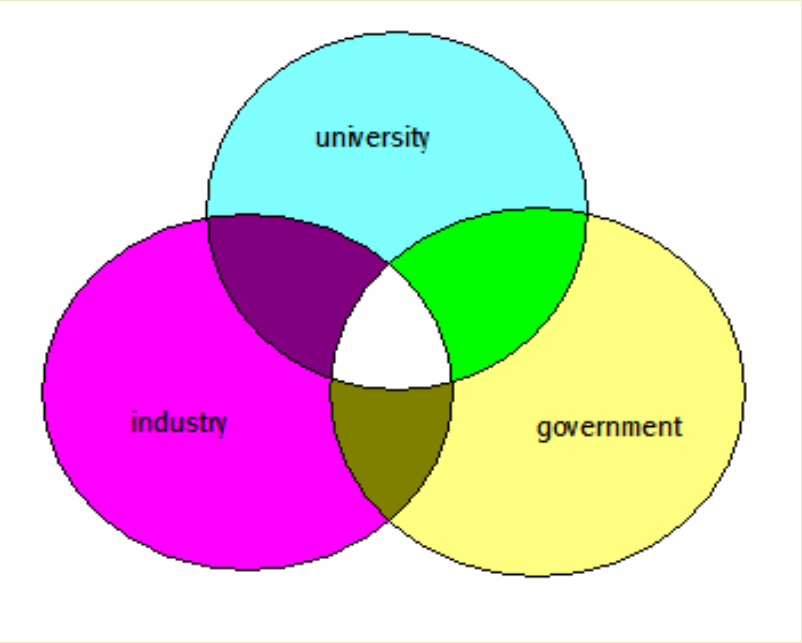
- Regional Innovation Organizer (RIO)
- Organizational Experiments
- Invention of Venture Capital Firm

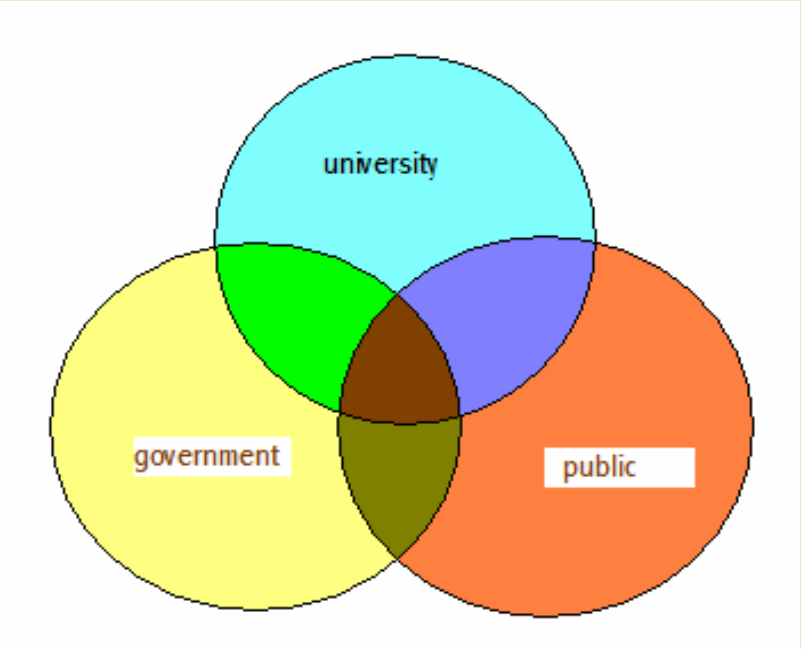
Yin-Yang Taiji in Ancient China



Triple Helix Twins:

Innovation and Sustainability





Triple Helix Since 1990

- **University-Industry Conferences**

  1991 Acquafredda NATO Science Meeting

  1992 CIT, UNAM Mexico

  1994 SUNY Purchase, New York

- **International Triple Helix Conferences**

  1996 Amsterdam Conceptual Framework

  1998 New York Future Location of Research

  2000 Rio de Janeiro Incubation

  2002 Copenhagen European Policy Model

  2005 Turin Knowledge Capitalization

  2006 Addis Ababa Universities and Development

  2006 Bristol Triple Helix and Development

6th International Triple Helix Conference

“Varieties of Entrepreneurial Universities"

Singapore: 18–19 May 2007

Researchers and practitioners interested in University-Government-Industry interactions

www.triplehelix6.com

First Annual

Triple Helix Summit

February 12 – 13, 2007

University of Hawaii • East West Center • Hawaii Imin International Conference Center • Honolulu, Hawaii