



Life Science Park as Cluster Development Tool: The ICICI  
Knowledge Park as a Model

Hanseatic India Colloquium  
Healthcare, Biotechnology & Pharmaceutical sciences  
Hamburg, November 14, 2008

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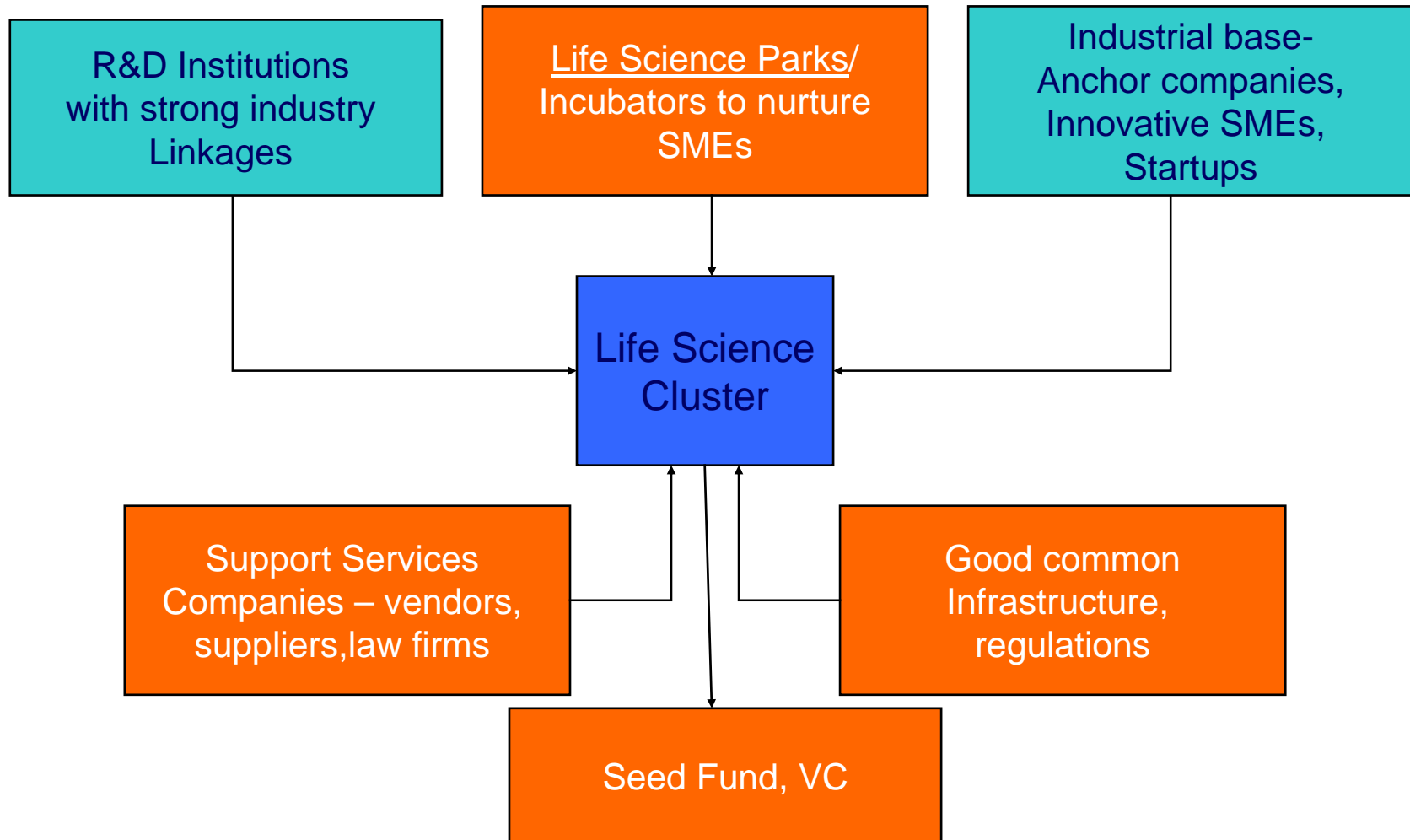


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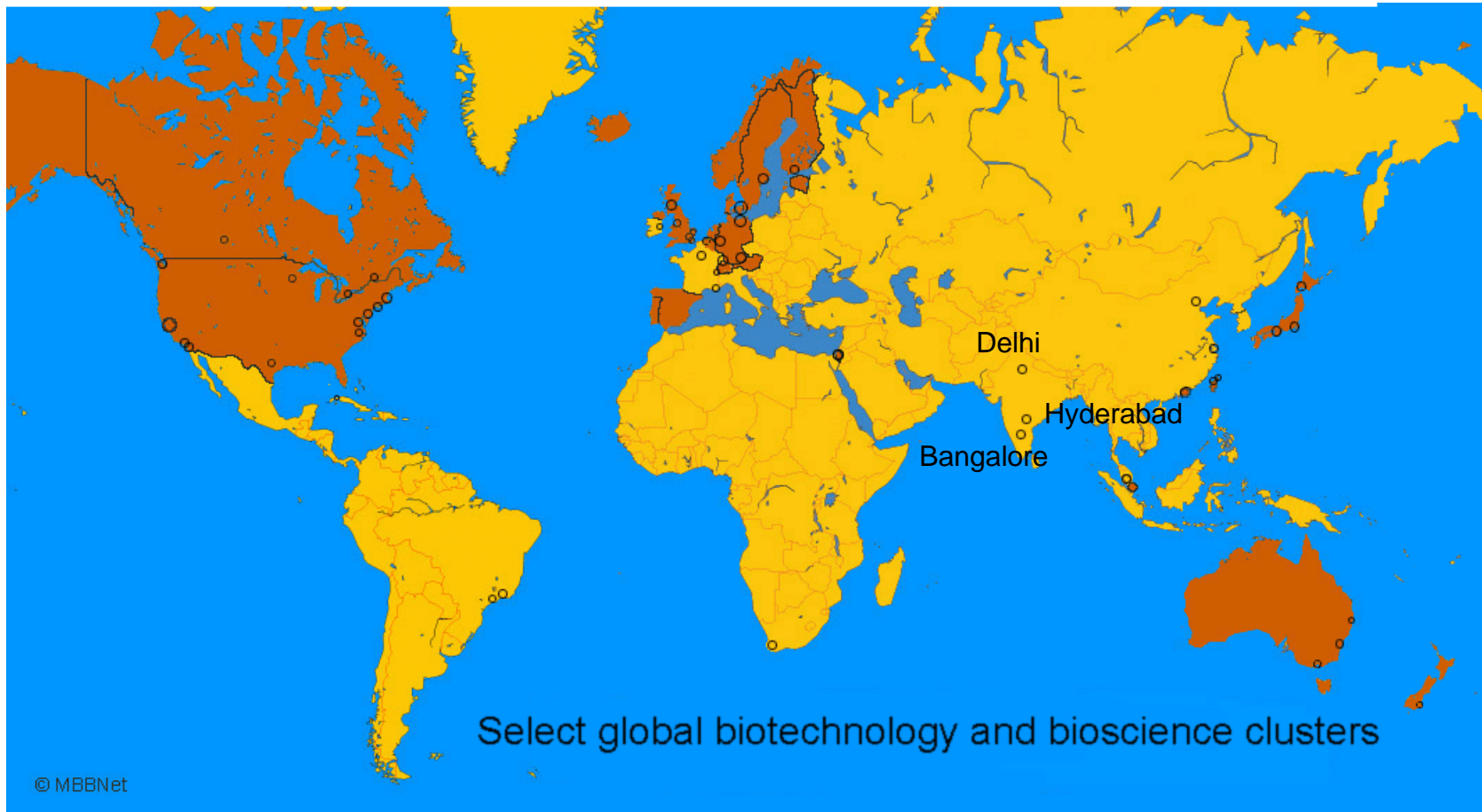
## What is a Cluster ?

- *A geographically proximate group of companies and associated institutions in a particular field linked by commonalities and complementarities*
  - Where, value of the system as a whole is greater than the sum of its parts
- It is observed worldwide that innovation driven companies thrive better in clusters

# Elements of Life Science Cluster



# World Clusters



Minnesota Biomedical and Bioscience Network report on leading life science clusters, 2004-05

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# Observations

- Clusters can develop organically due to a local strong impetus but are usually seeded or induced by the government and then evolve organically
- Needs long term planning
  - Takes decades to mature

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# National Biotechnology Development Policy

- **Goals**

- Establish an Ecosystem of Innovation
- Develop Quality Human Resource & Infrastructure
- Promote R&D in Small and Medium Enterprises

- **Specific Initiatives**

- Industry Partnership programme for Advanced Technologies
- Expansion of Small Business Innovation Research scheme

- **Encouraging PPP**

- **Enabling public institutions to work with industry**

- **Access to infrastructure, major equipments**

- **Establishment of Biotech Parks & Incubators**

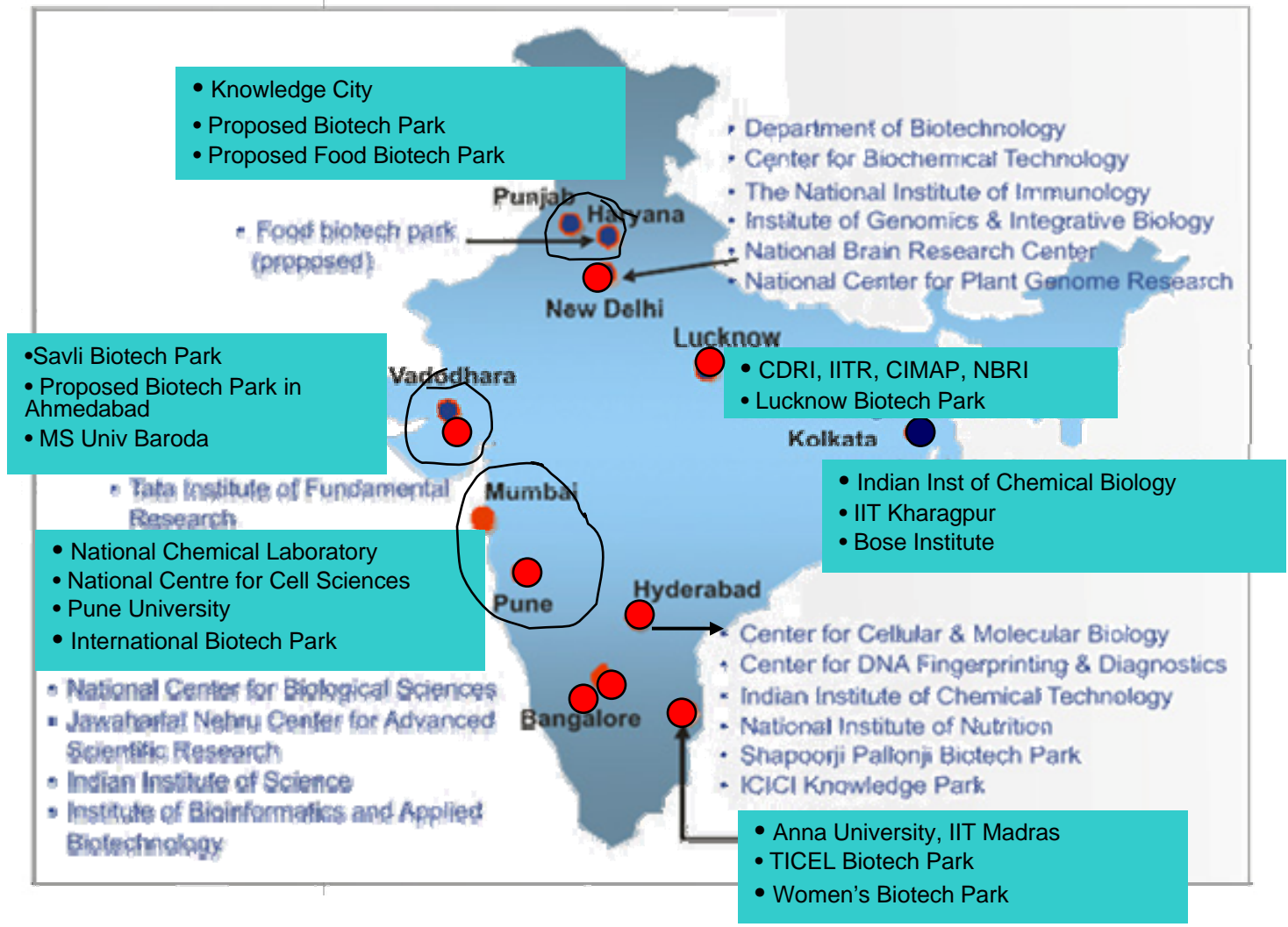
- Initiatives for technology transfer & IPR

- International collaborations

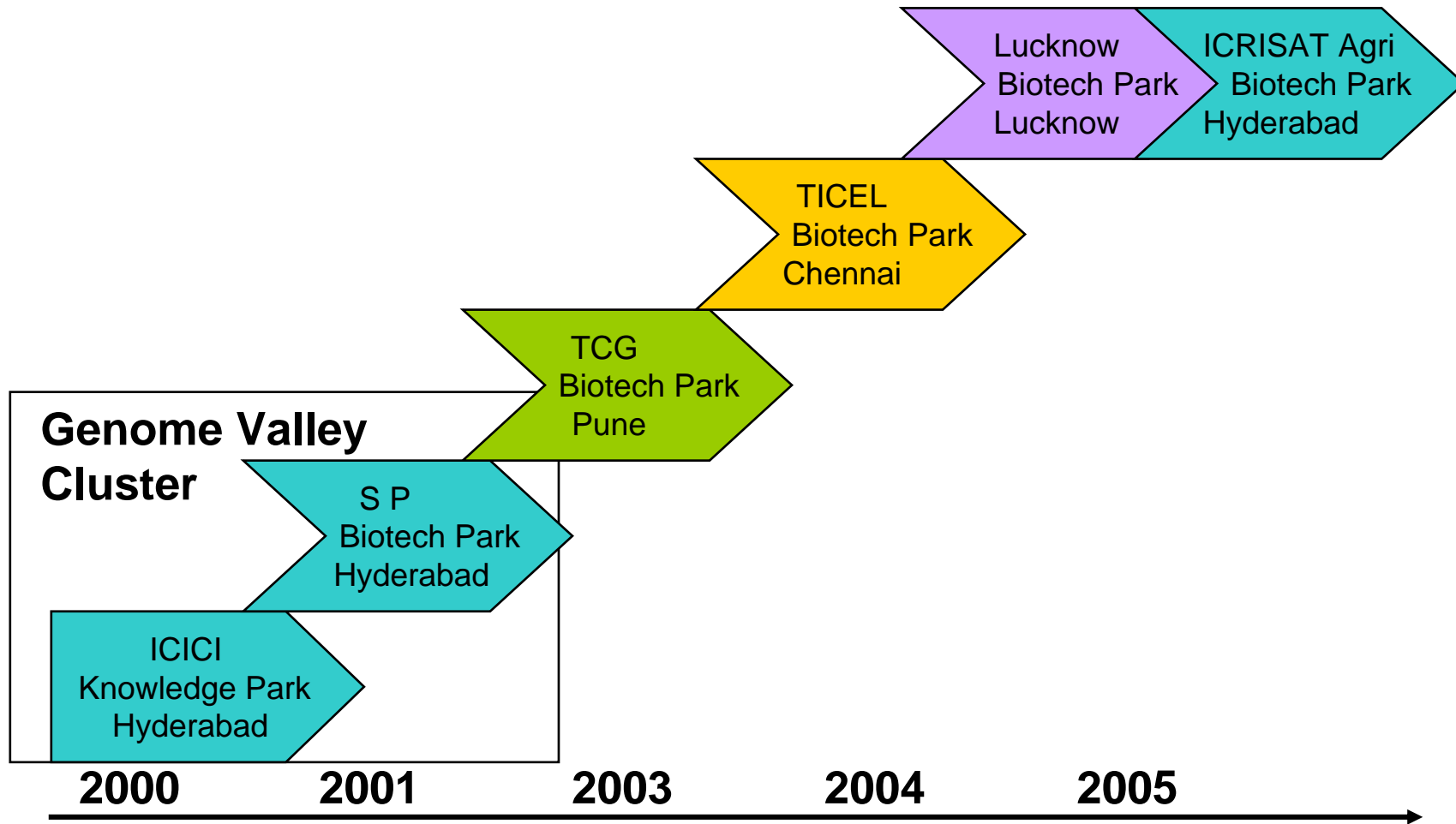
- Social sector priorities

*Inducing  
Cluster  
formation*

# Indian Life Science Clusters

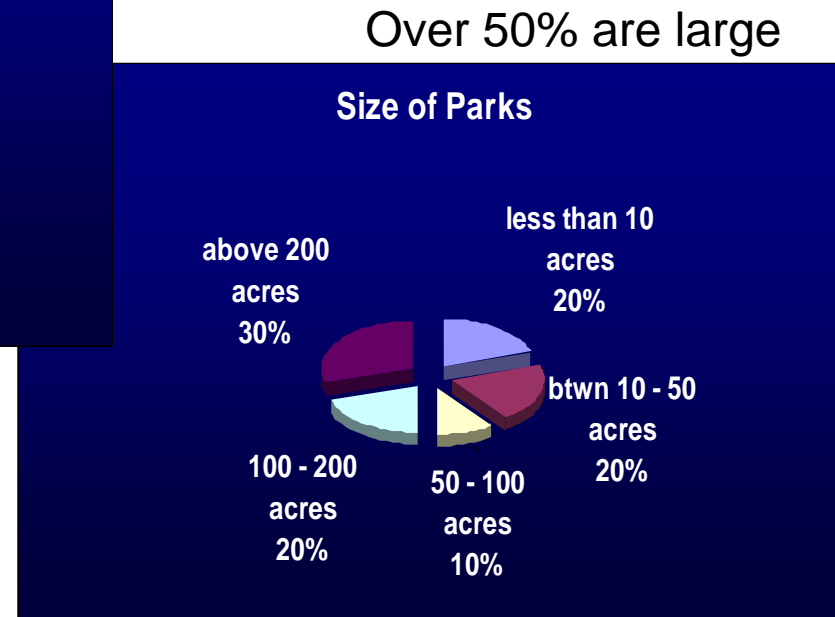
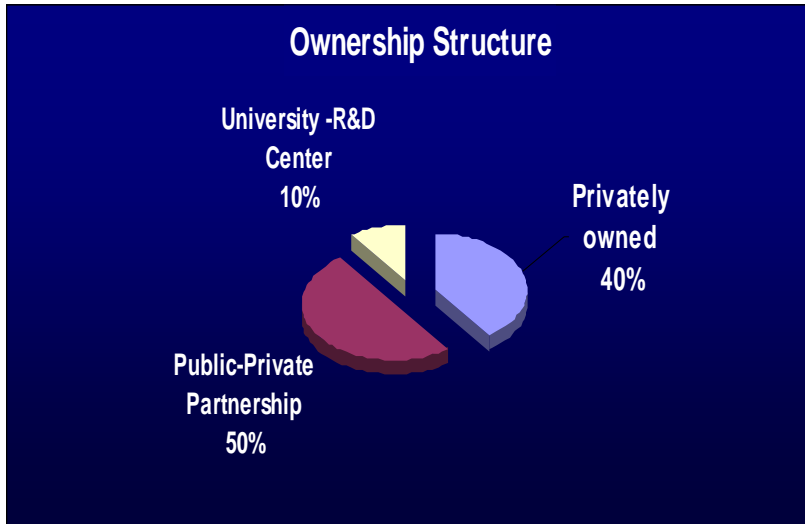


# Life Science Parks Key to Cluster Development



# Features of Indian Life Science Parks

Strong Private Sector participation; not university driven



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# ICICI Knowledge Park ...1

- First Wet Lab Research Park in India
  - Operational in June 2000
- Hub of the “Genome Valley” Cluster in Hyderabad
- Partnership between ICICI Bank & the State Government of Andhra Pradesh
  - ICICI Bank : investment, management, operations, marketing, growth strategy
  - GoAP : land, policy, regulatory support, common infrastructure, tax incentives, single window clearance etc.
- Not-for-Profit Company

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## ICICI Knowledge Park ...2

- Mission: To create a world-class centre for leading-edge business-driven research
- Objective: To encourage and nurture an environment for innovation by developing an innovation cluster
- Focus areas: biotechnology, pharmaceuticals, chemistry, new materials, energy

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# Innovation Ecosystem of Genome Valley

- 600 sq. km in three administrative blocks around Hyderabad designated for life sciences growth - Genome Valley
- Life Sciences R&D institutions
  - CCMB, IICT, CDFD, NIN, ICRISAT, Univ of Hyderabad etc.
- Biopharma Companies
  - Shantha Biotechnics, Indian Immunologicals, Bharat Biotech, Biological Evans, Krebs Biochemicals, Ocimum Biosolutions, Dr. Reddy's Laboratories etc.
- Contract Research Organisations
  - Vimta labs, Suven Life Sciences, GVK Biosciences etc.
- Hospitals, clinicians involved in R&D and clinical research
- Dedicated biotech fund - APIDC Venture Capital
- Life Science Parks/ Incubators

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## Catering to Varied Needs

- Multi-tenanted modular wet laboratories on lease
  - To encourage R&D in SMEs
  - Convenient landing space for foreign companies
- Developed land for custom-built research centres
  - To nurture anchor companies
- Incubation Centre
  - Mentoring platform for startups

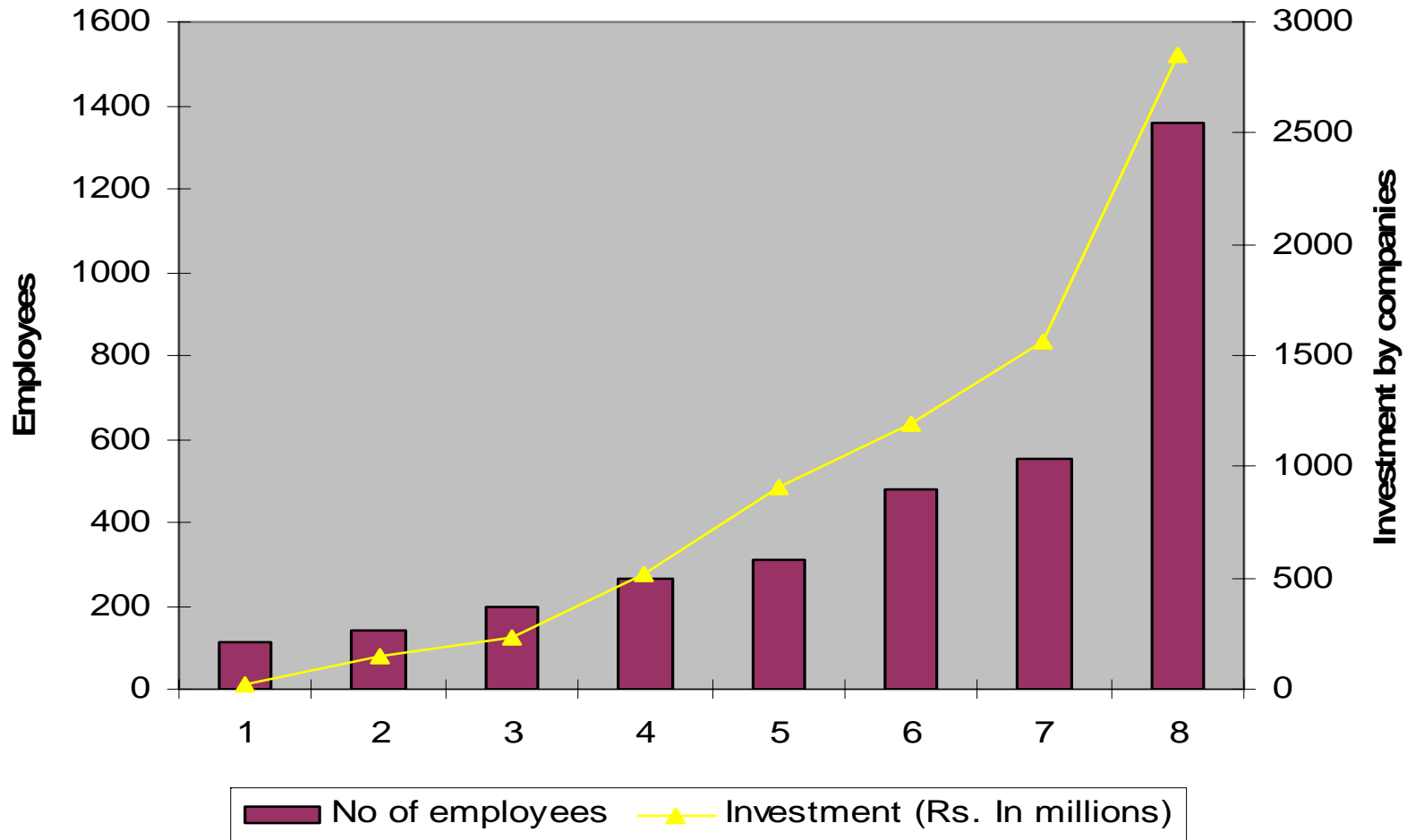




# Resident Companies



# IKP Growth Trajectory FY01 - FY08 ...2



## Received Best Incubator Award, 2007





Thank You

