

# THE RISE AND FALL OF UNIVERSITY IP COMMERCIALIZATION IN CANADA

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# Challenge

- Situation:
  - Canada is a prosperous country (G8)
  - Canada is an innovative country (Blackberry, Bombardier)
  - Canadians are highly educated
  - Canadian Universities do groundbreaking research
  - Governments are making investments
- BUT
  - Canadian Universities are moving away from protecting and licensing Intellectual Property

# Timing is ...

# Everything

# CANADIAN ECONOMIC LANDSCAPE

- 35,000,000 People
- $\frac{3}{4}$  of that population being concentrated in the three largest Provinces by population (Ontario, Quebec and British Columbia)
- 81% urban
- 50% have a post-secondary degree or diploma
- 12th in the world in nominal GDP
- economy is spread across
  - agriculture (1.8%)
  - industry (28.6%)
  - services (69.6%).

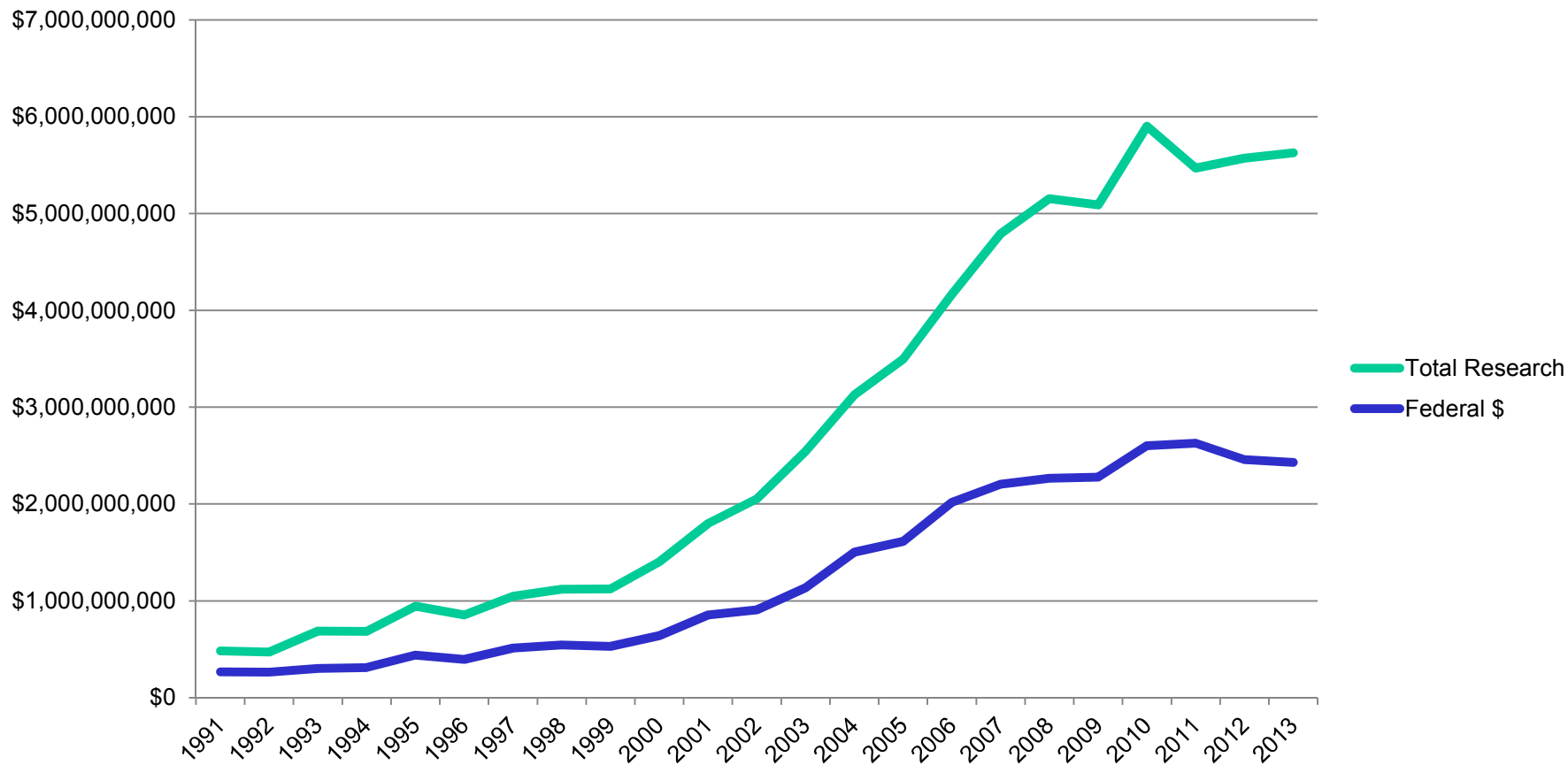
# Higher Education in Canada Broadly

- 93 public and private universities
- 183 recognized public colleges and institutes
- 68 university-level institutions and 51 college-level
- Tuition averaged \$4,524 in 2007–08
- International student fees averaging about \$14,000 annually
- Education is also funded through the money that governments transfer to individual students through loans, grants, and education tax credits.

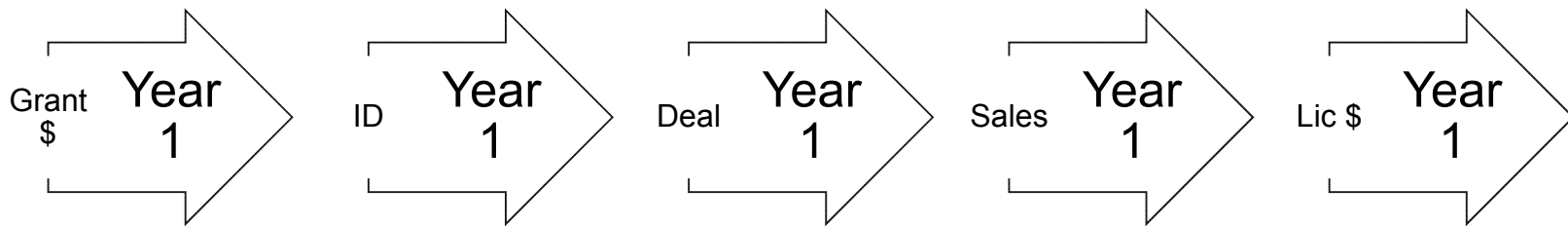
# Higher Education Research

- 2013 (36 reporting to AUTM)
- \$5.6 billion worth of research and development
- Very scattered distribution of effort
- High End:
  - University of Toronto - \$1B
- Second Place:
  - University of British Columbia \$585M
- Bottom of the Pile:
  - Less intensive University - less than \$2M.

# Canadian HERD over Twenty Years



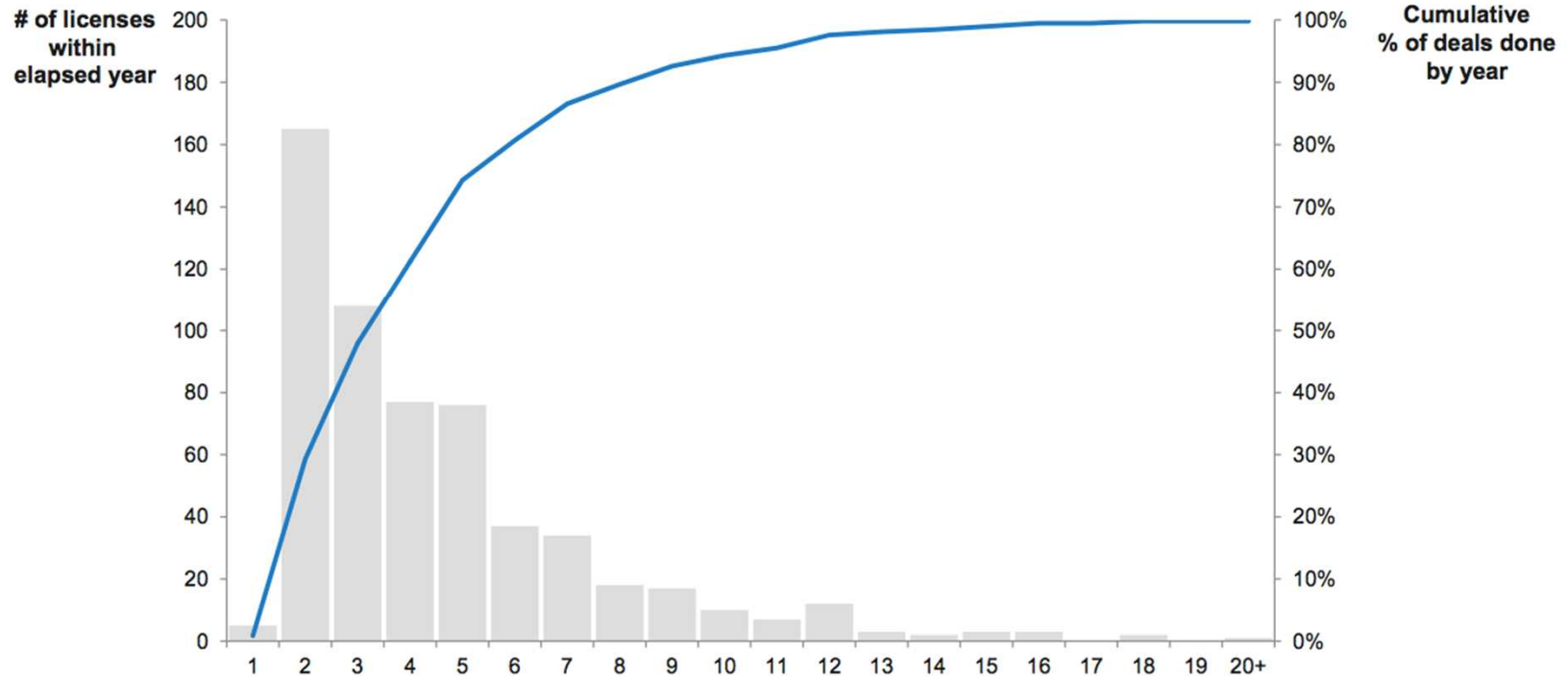
# Perception of Tech Transfer Timing



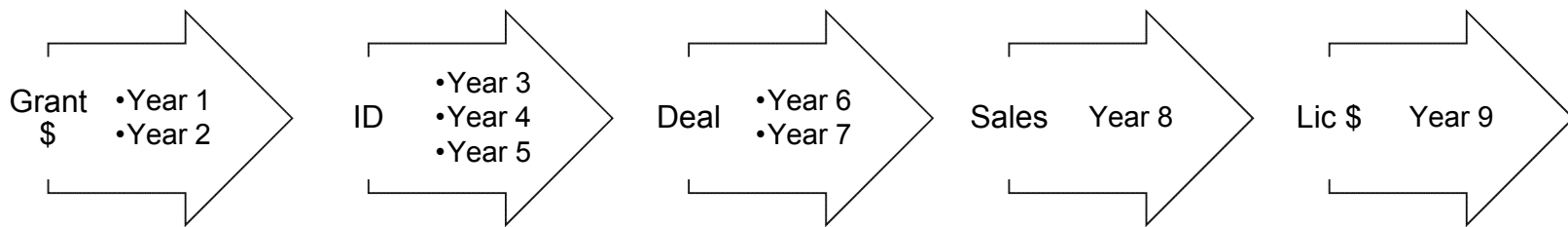


# Time Lag Demonstrated

**Columbia University:  
# of Years from Invention to First License**



# Reality of Tech Transfer Timing



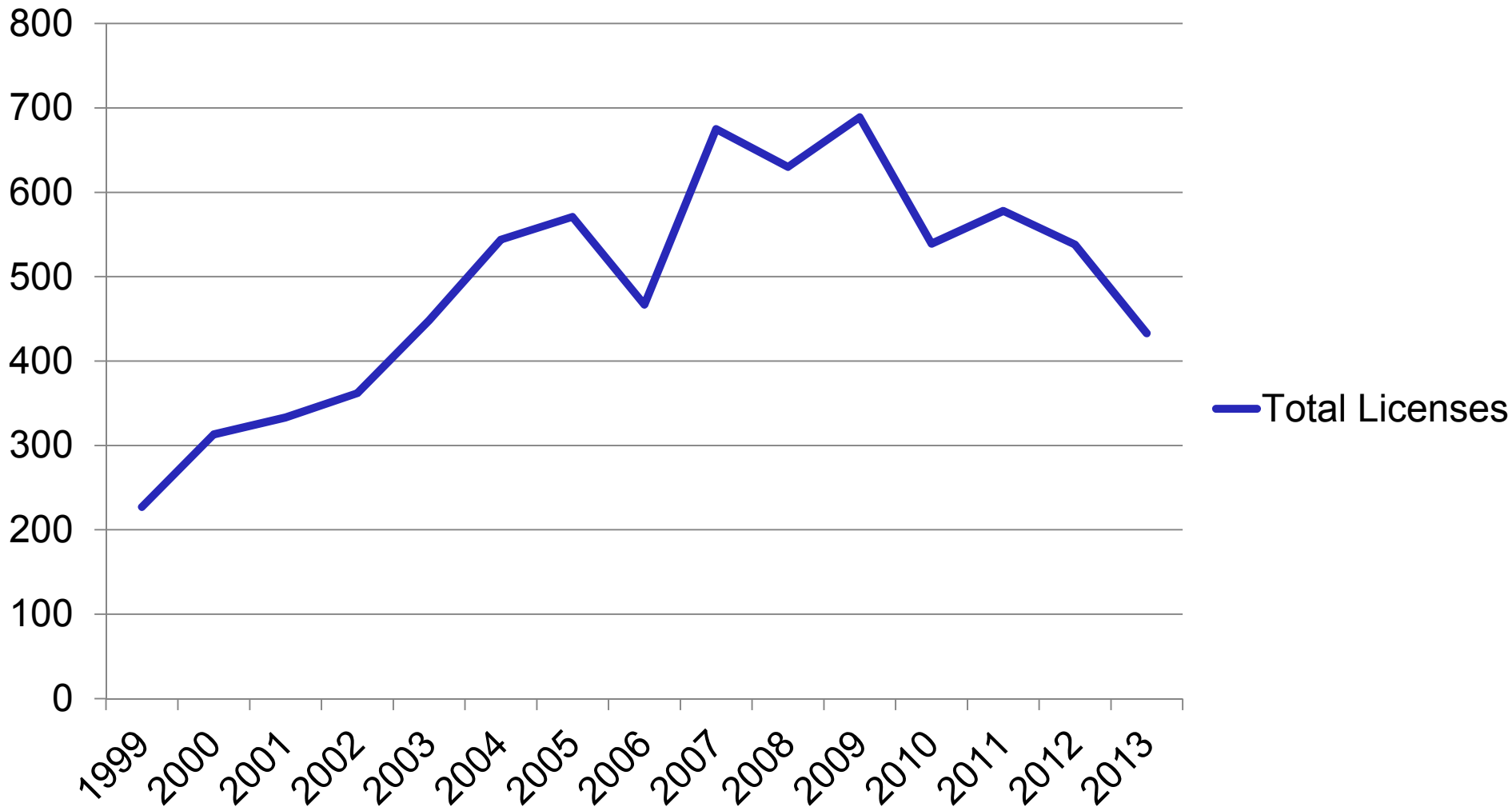
# Governments Want to Accelerate

- Money spent specifically on IP:
  - Programs to increase staffing
  - Programs to increase patents
  - Programs to increase accessibility
- But
  - Funding cut off after only a few years
  - Move into new programs with more money

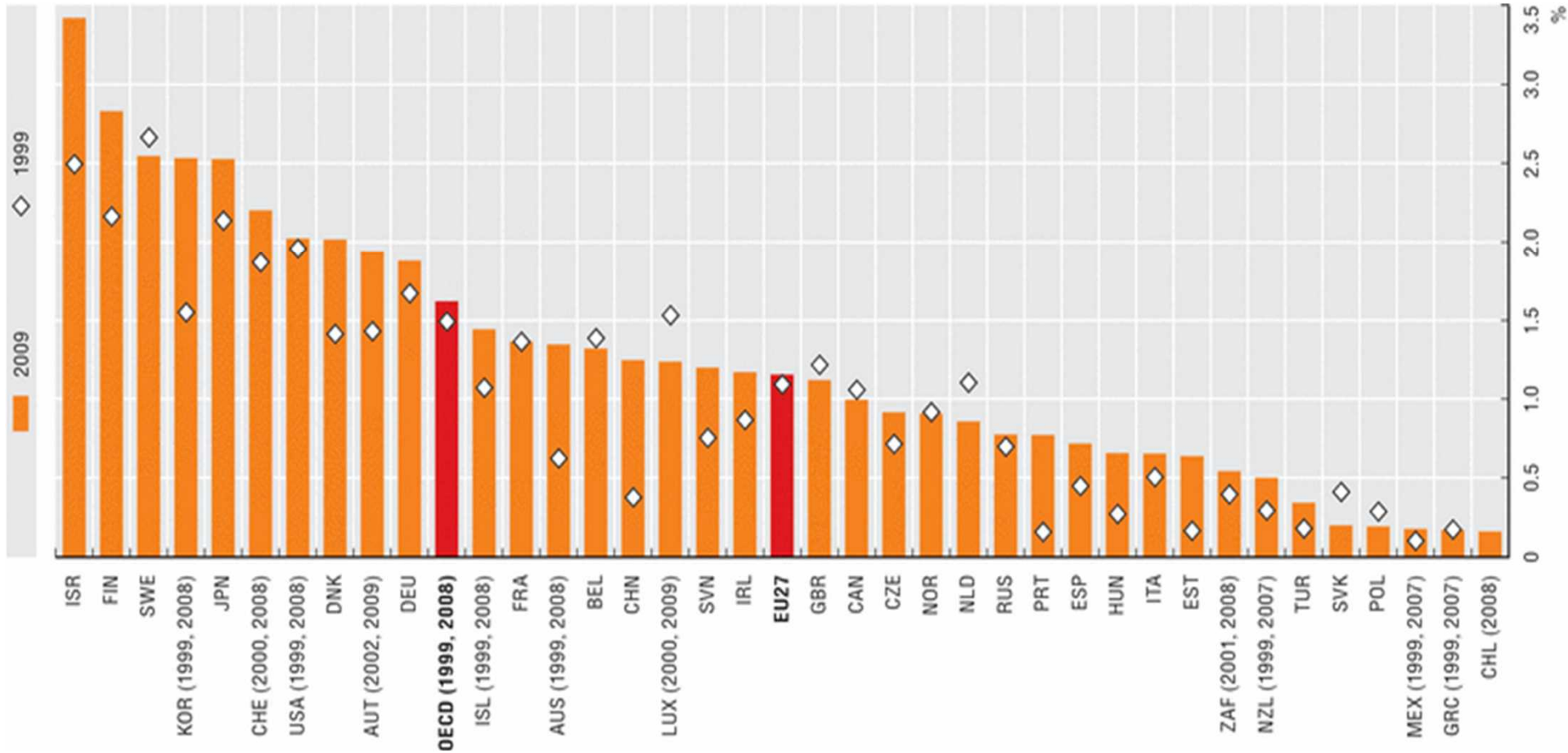
# New Programs/Same Problem

- New Programs off Campus:
  - Targeted centres
  - Industry involvement
  - Less colocation with Universities
  - More dependent upon University IP
- But
  - The result is the same
  - At the same time University IP goes unlicensed

# Total Licenses



# OECD BERD



# Business is Not Keeping Pace
