



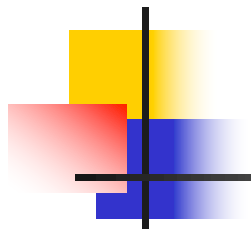
# **National Judicial Conference for High Court Justices on IPR**

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## ***IPR - Genesis, Benefits, Importance***

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**National Judicial Academy, Bhopal  
November 17 to 19, 2017**




# ***The Genesis***



# Down the ages

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- For several centuries world has acknowledged need to protect knowledge
- Initially creativity, talent and inventiveness rewarded by the state; sustained by grants from the Crown or State
- Subsequently, with increasing commercialization and stratification of professions, creator left to invent and nurture his creation.
- Recompense available through the market, only if the product considered of worth and that too later



**1324 AD:** King Edward II of England granted letters of protection to German miners to get them to England

**1449:** John of Utynam awarded 20-year monopoly for a glass-making process previously unknown in England (supplied glass for the windows of Eton College Chapel). In return was required to teach process to native Englishmen

**1559:** Queen Elizabeth I established tradition of conferring patents on inventors for their creations. 30 years-50 patents soap, leather, salt, glass, knives, sailcloth, sulphur, starch, iron and paper.

**1474:** Venice drafted first codified ordinance on Patents – 20 year monopoly to inventors

**1594:** Galileo received a patent for a mechanism for irrigation

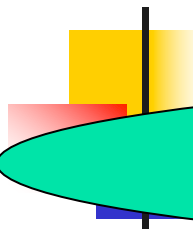
**UK Patent office:** The first Ordinance on Patents was adopted in England in 1623, which set the term at 14 years.

**United States :**First patents legislation in 1790.

The first recorded patent (July 13, 1836) was granted to inventor John Ruggles for traction wheel.

**Japan:** First in Asia – Patent Monopoly Ordinance 1885

# International Protection



**1883:** Paris Convention for the Protection of Industrial Property Rights

**1886:** Berne Convention for the Protection of Literary and Artistic Works

**20<sup>th</sup> century:** Several treaties were adopted in different areas of intellectual property rights - substantive law, facilitation of the process and classification systems

**1994:** Agreement on the Trade Related Aspects of Intellectual Property Rights (TRIPS) – first multilateral agreement establishing *binding minimum standards*

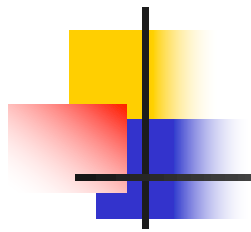
**Since then:** Several Plurilateral and Bilateral agreements concluded, and under negotiation, to institute TRIPS plus standards



# India

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- First Act relating to patent rights passed in 1856 - granted exclusive privileges to inventors of a new manufacture - term 14 years
- Amended by the Act of 1859 and later by the Acts of 1872, 1883 and 1888
- **Indian Patents and Designs Act, 1911** replaced all the previous acts - established a patent system and administrative framework for the first time
- After Independence, the **Patents Act, 1970**
- 1999 onwards several acts to conform to **TRIPS**



# ***Why Protect?***

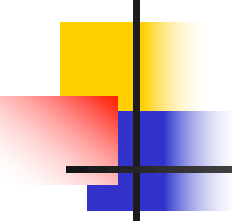


# Distinctive Economic Characteristics of Intellectual Property

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- Non-rivalrousness:
  - simultaneous use by multiple entities
  - no bottlenecks or capacity constraints
- Non-excludability :
  - use without authorization cannot be prevented
- For **static** efficiency: optimal to permit free society-wide use as marginal cost low
- For **dynamic** efficiency: need to prevent above, as incentives required to invest in creations, where social value exceeds development costs



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- Therefore, societies faced with fundamental trade-off between two market distortions
  - Excessively **weak IPRs**, satisfy the static goal but inadequate incentives to create, leading to slower growth, limited culture, lower product quality
  - Excessively **strong IPRs**, consistent with dynamic goal but generate insufficient access, inadequate dissemination
  - Balance is imperative – diffusion process



# Diffusion Process and IPRs

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- IPRs assist innovators/creators during this process
- Buyer Diffusion:
  - Trademarks and Designs boost marketing efforts
  - Patents signal technological superiority
- Seller Diffusion:
  - Limited/delayed by keeping process/technology secret
  - Patents/copyright create entry barriers
- With globalization, concern transcends national frontiers



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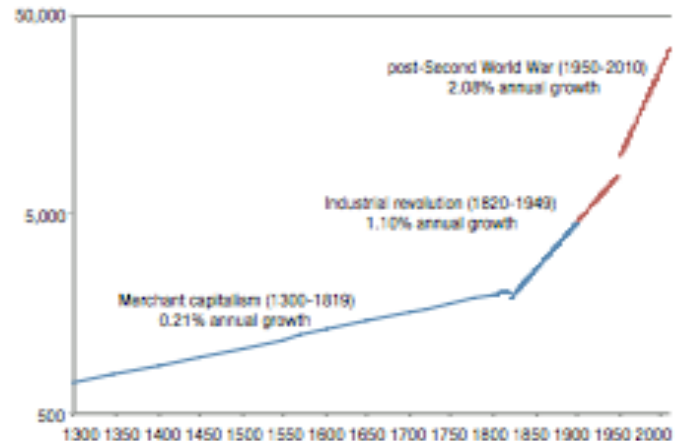
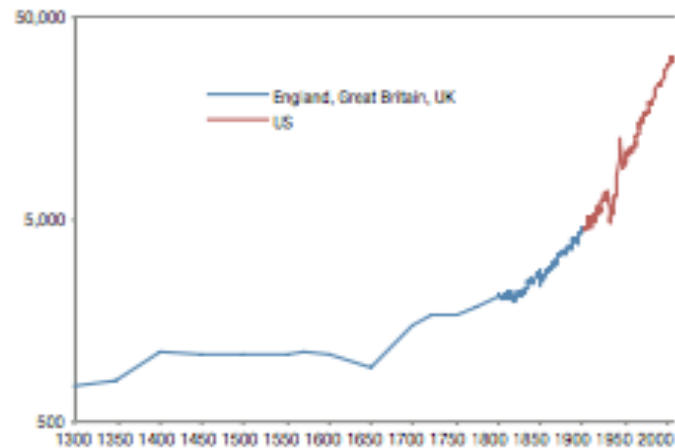
***Innovation – Imperative  
for Growth***

# Growth Trends\*



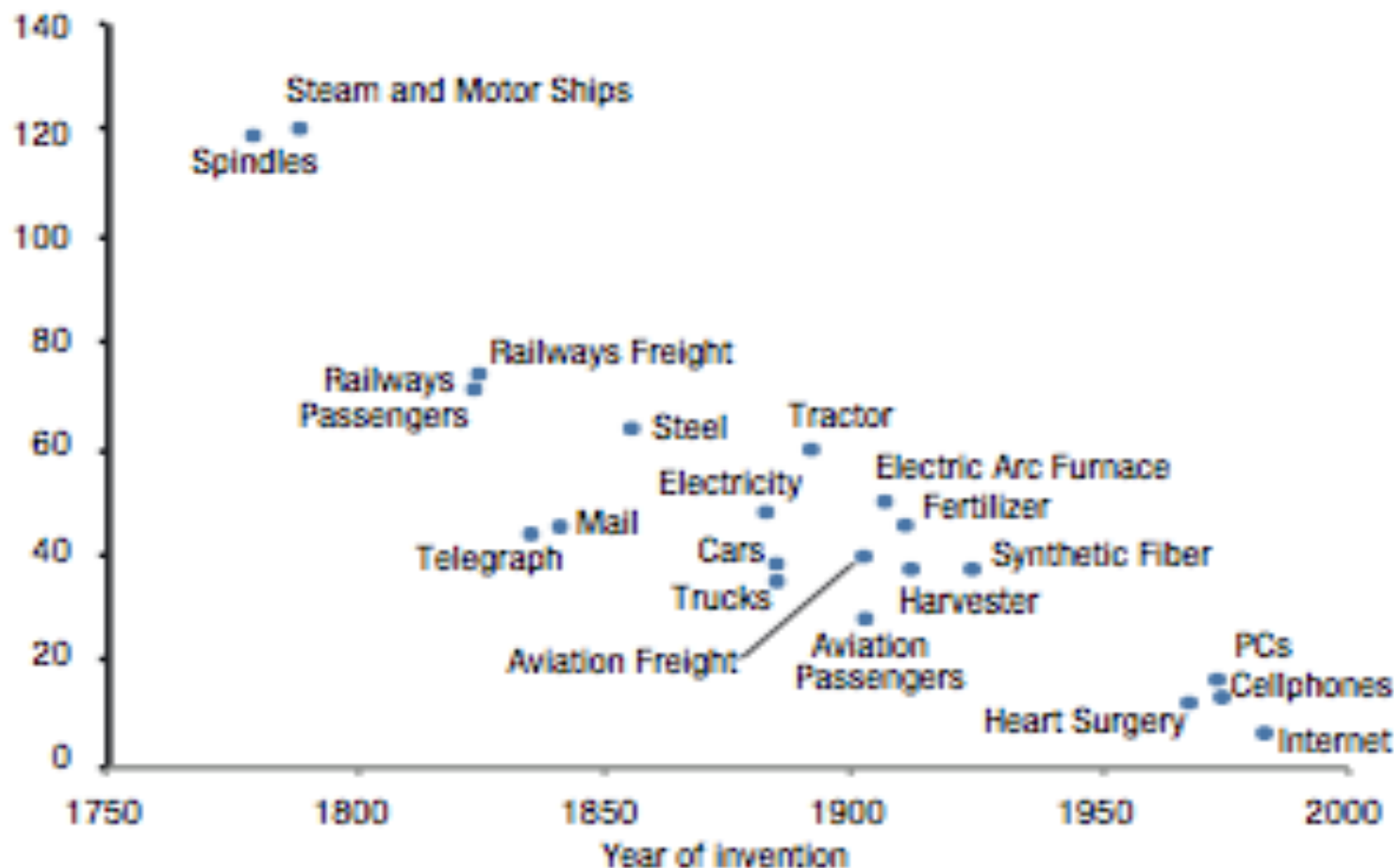
**Figure 1: Growth at the frontier over seven centuries**

Real GDP per capita, 1300-2000, logarithmic scale



- Up to the early 19th century, growth averaged around 0.2 percent per year
- Industrial revolution led to a sharp increase in the annual rate of growth to 1.1 percent
- Post-Second World War era, growth accelerated to 2.1 percent per year-doubling of income every 34 years
- Spectacular performance since 1950 as compared to centuries of growth
- Mixed outside frontier economies and barring some in East Asia, rest not caught up
- Inequality has widened since 19th century

Adoption lag since first invention, in years





## Faster... but uneven diffusion

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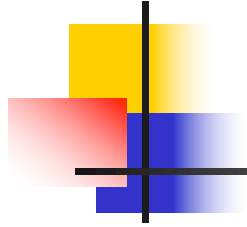
- Innovation is critical for long-run growth but imperfect technology diffusion a cause for diverging levels of economic prosperity
- To productively use imported technologies possess
  - sufficient *absorptive capacity*
  - human capital to apply technology
  - organizational and managerial know-how
  - institutions to mobilize resources for adoption
  - ability to undertake incremental technological and organizational innovation to adapt to local needs



# Role of the State

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- In order to accelerate eco devt policy makers need to
  - arrest tendency to under invest in R&D
  - create incentives for additional investments
- State intervention imperative for IP protection
- Creates market distortions, but wider good of society
- Provides innovator with potential competitive advantage
- In most cases for a limited period of time, during the early period of the product life-cycle
- However, need to balance static efficiency for a specific innovation and the dynamic efficiency for a stream of inventions



# ***Benefits of IP Protection***



# Patents and Technological Development



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- Facilitate licensing arrangements and investment
- Disseminate initial knowledge as free input (“public good”) to produce further knowledge as output (“private good”)
- Limit “free riders” not “innovators”
- Speed of essence to avoid ‘hard luck’ stories



# Trade Marks and Economic Value

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- Increase sales volumes and price
- Stabilize demand through consumer relationships
- Earn royalties through licensing and franchising
- Transfer brand equity to new product categories
- Attempt to move customers from
  - brand awareness, via brand recognition, to
  - brand preference and finally to
  - brand insistence

# Brand Values (US \$ million)

	Logo	Name	Brand Value (\$m)	Last	SyncForce Customer
1		<a href="#">Apple</a>	184,154	1	
2		<a href="#">Google</a>	141,703	2	
3		<a href="#">Microsoft</a>	79,999	4	
4		<a href="#">Coca-Cola</a>	69,733	3	
5		<a href="#">Amazon</a>	64,796	8	
6		<a href="#">Samsung</a>	56,249	7	
7		<a href="#">Toyota</a>	50,291	5	
8		<a href="#">Facebook</a>	48,188	15	
9	 Mercedes-Benz	<a href="#">Mercedes-Benz</a>	47,829	9	
10		<a href="#">IBM</a>	46,829	6	



# Copyright and Economic Development

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- Protects creativity and ensures adequate recompense for creators and producers
- Balances public with private interest
- Preserves cultural heritage
- Prevents creation from being reproduced elsewhere and competing with original
- Enhances economic growth



## Contribution - Main Indicators

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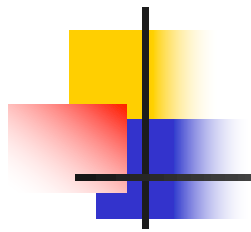
- Size of industry as percentage of **GDP**
- **Employment** generation
- Foreign **trade**



# Contribution of Copyright Industry (%)

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	Gross Domestic Product	Employment
USA	12.00	8.41
Canada	5.38	6.90
Singapore	5.70	5.80
Latvia	4.00	4.50



***Thank you***