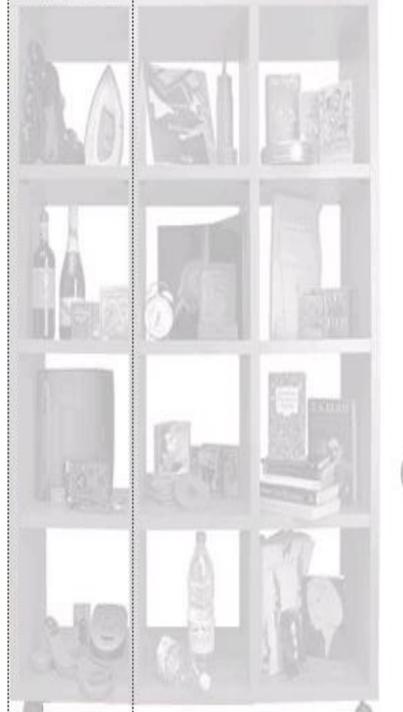
Workshop for High Court Justices on IPR

IPR: Genesis, Benefits and Importance

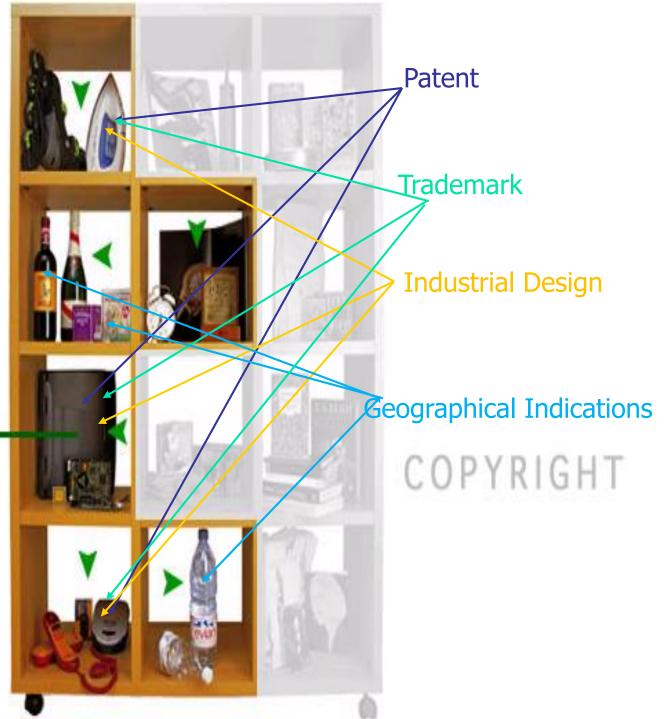
Pushpendra Rai

National Judicial Academy, Bhopal November 2 and 3, 2019

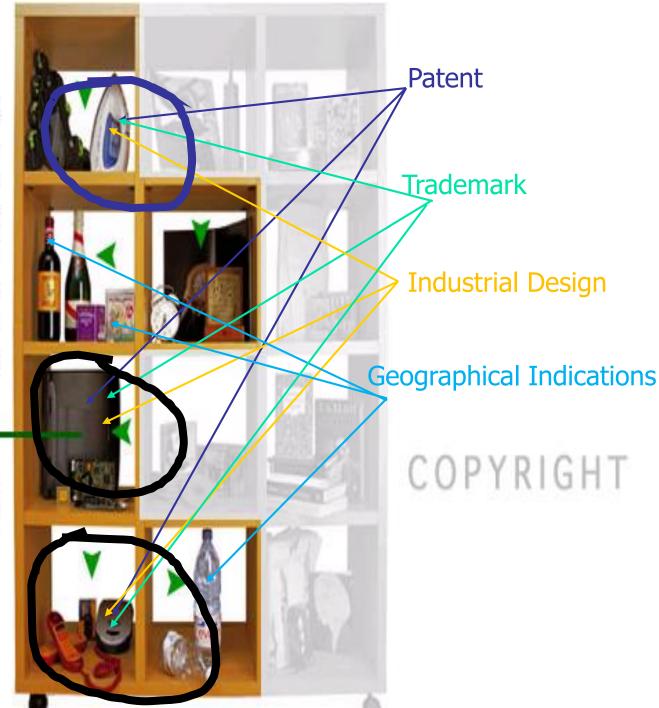


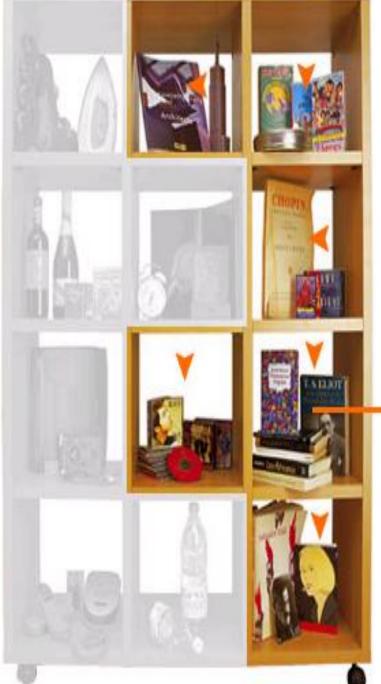
COPYRIGHT

Intellectual property - the fruits of human creativity and invention - is divided into two categories. The first is **industrial property**, which includes inventions, trademarks, industrial designs, and geographic indications of source.



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The second category of intellectual property is **copyright and related rights**, which includes a broad array of literary and artistic works, ranging from newspaper articles to novels, from drawings to paintings to architectural works, from music to dance, from photographs to films, as well as artistic performances.

COPYRIGHT



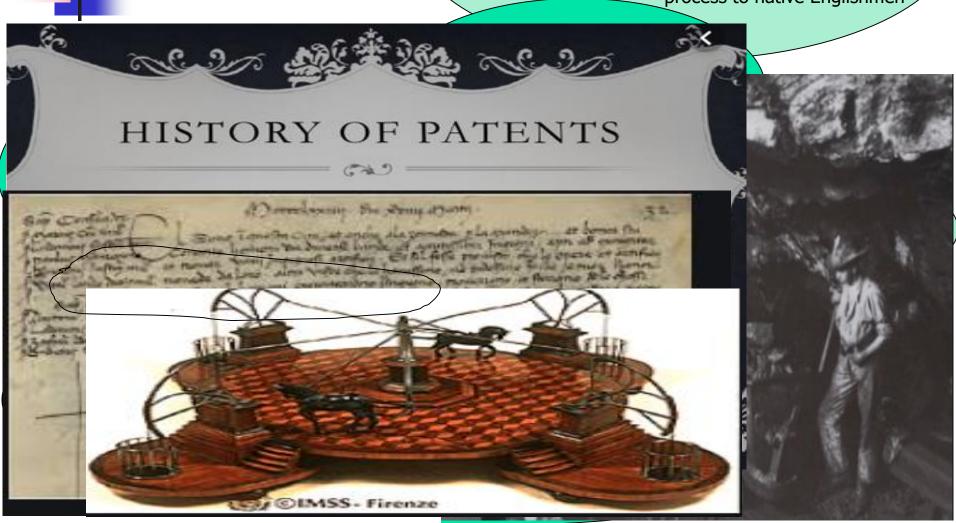
The Genesis

Down the ages

- 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
- National protection.... Origins...

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



International Protection

1883: Paris Convention for the Protection of Industrial Property Rights

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

20th 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

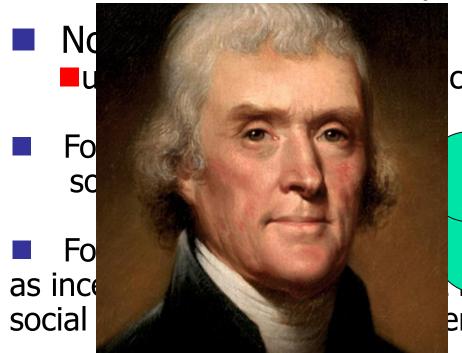
- First Act relating to patent rights passed in 1856 granted exclusive privileges to inventors of a new manufacture - term 14 years
- Amended by the Act of 1859 and later by the Acts of 1872, 1883 and 1888
- Indian Patents and Designs Act, 1911 replaced all the previous acts - established a patent system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



Why Protect?



- Non-rivalrousness:
 - simultaneous use by multiple entities
 - no bottlenecks or capacity constraints

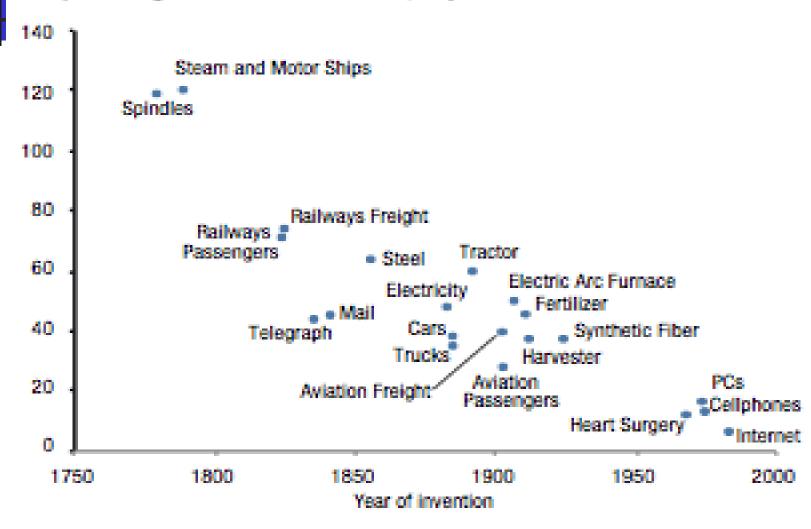


"He who receives an idea from me, receives instruction himself without lessening mine; as he who lights his taper at mine, receives light without darkening me.



- 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

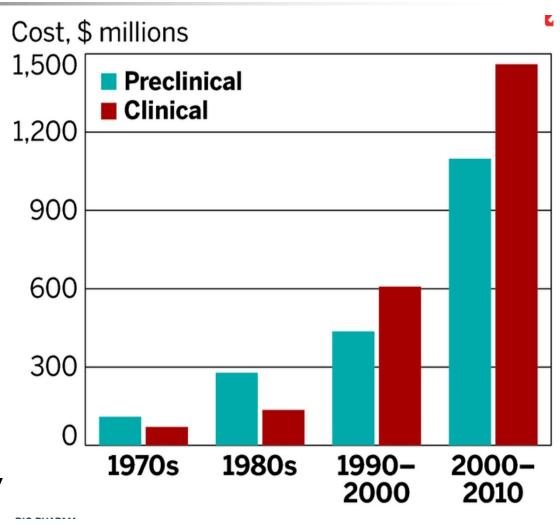
Adoption lag since first invention, in years



Product Life-Cycle* Development Introduction Growth Maturity Decline Saturation **Total** Income **Gross Income** Sales **Margins** Operating Costs R&D **Time** Marketing Production **Total** *Adapted from Ove Granstrand- Economics **Investment** and Management of IP: 1999

Estimated Costs on Developing a Drug: Tufts Center for the Study of Drug Development

- The R&D costs of 106 randomly selected new drugs - survey of 10 firms
- Data to estimate average pre-tax cost of new drug
- Based on average out-ofpocket cost of \$1.4 billion and an estimate of \$1.2 billion in returns investors forego during the period drug candidate develops
- \$312 million on post-approval development - studies to test new indications, formulations, and dosage strengths





Benefits and Importance

Patents and Technological Development



Trade Marks and Economic Value

- 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
- Interbrand Valuation of Brands



Brand Values (US \$ million)

VALUABLE INDIAN BRANDS

Brand value of top five brands in India





- 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

CR Industries – Contributing to Development

III. THE COPYRIGHT INDUSTRIES

In nine of our fourteen prior economic reports, we divided the copyright industries into four groups: core, partial, distribution, and copyright related; these are the sectors we developed and defined in our first report issued in 1990. Beginning with the 2004 report, we still used four categories, but in order to conform to the international standard, we relied upon the four copyright categories defined by WIPO: core, partial, non-dedicated support, and interdependent.

The **core** industries include those industries whose primary purpose is to create, produce, distribute or exhibit copyright materials. These industries include books, newspapers and periodicals, motion pictures, recorded music, radio and television broadcasting, and software in all formats, including video games.

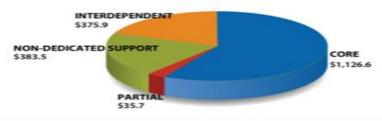
Partial copyright industries include industries in which only some aspect or portion of the products they create qualify for copyright protection. These industries range from fabric to jewelry to furniture to toys and games.

Non-dedicated support industries include those that distribute both copyright and noncopyright protected materials to businesses and consumers. Examples here include transportation services, telecommunications and wholesale and retail trade. As in past studies, only a portion of the total value added by these industries is considered to be part of the copyright industries.

Interdependent industries include those that produce, manufacture, and sell equipment whose function is primarily to facilitate the creation, production, or use of works of copyrighted matter. These industries include manufacturers, wholesalers and retailers of CD players, TV sets, VCRs, personal computers and usage dependent products including blank recording material and certain categories of paper.

We refer to the four groups together – core, partial, non-dedicated support, and interdependent – as the "total" copyright industries.

COPYRIGHT INDUSTRIES IN THE US ECONOMY (VALUE ADDED IN BILLIONS OF DOLLARS) 2013



Contribution of Copyright Industry (%)

Gross Domestic

Employment

Product

USA	12.00	8.41
Canada	5.38	6.90
Singapore	5.70	5.80
Latvia	4.00	4 50



Airplanes

Santos-Dumont flies his 14-bis

Wright brothers patent the Flying machine

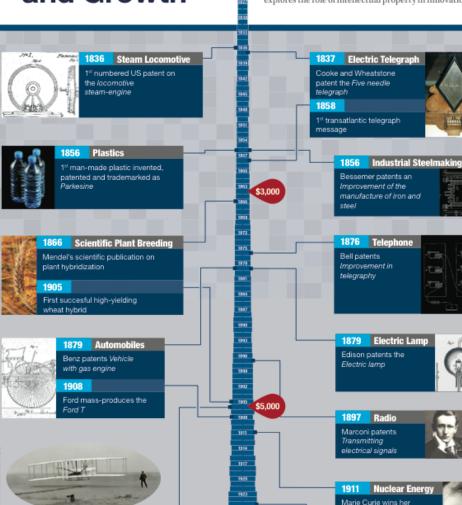
Mankind's pursuit of innovative solutions has powered human progress and transformed our world. Two centuries of breakthrough innovations have seen a 15-fold growth in per capita incomes in frontier economies, WIPO's 2015 World Intellectual Property Report looks at six transformative technologies, and explores the role of intellectual property in innovation.

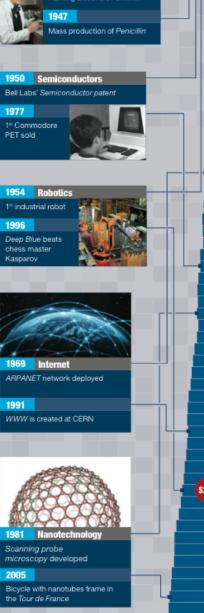
2nd Nobel Prize

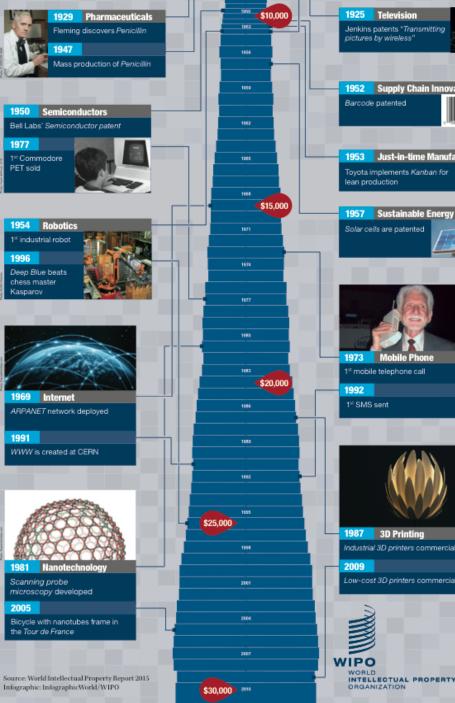
Nuclear plant APS-1 generates electricity for

commercial use

1954







Television

Supply Chain Innova

Just-in-time Manufa

3D Printing



Thank you