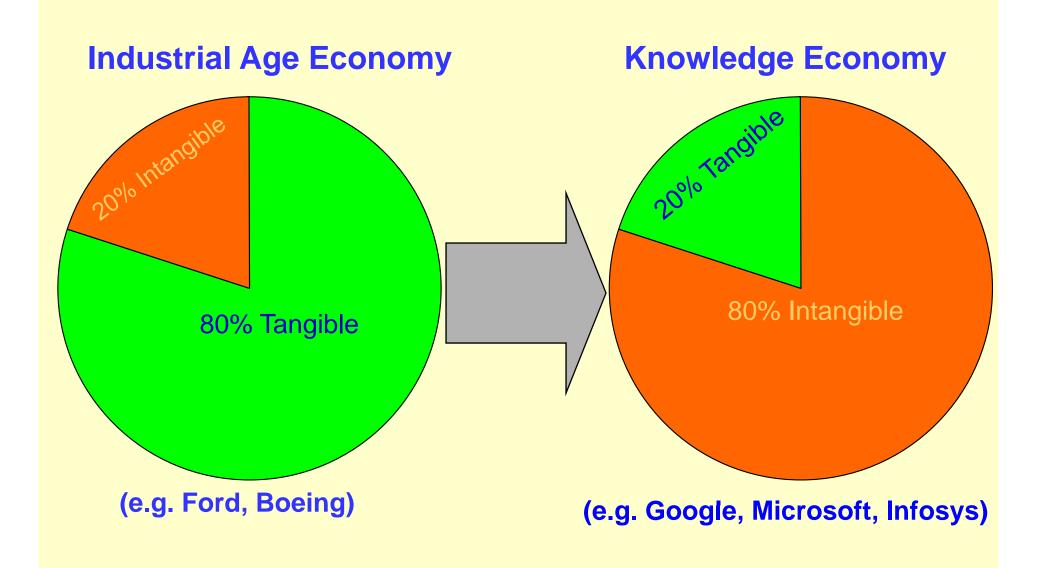
Intellectual Property Rights (IPR)

Tapan Ray

OPPI Academia Programme August 2, 2008, Mumbai, India

Transition to Knowledge Economy

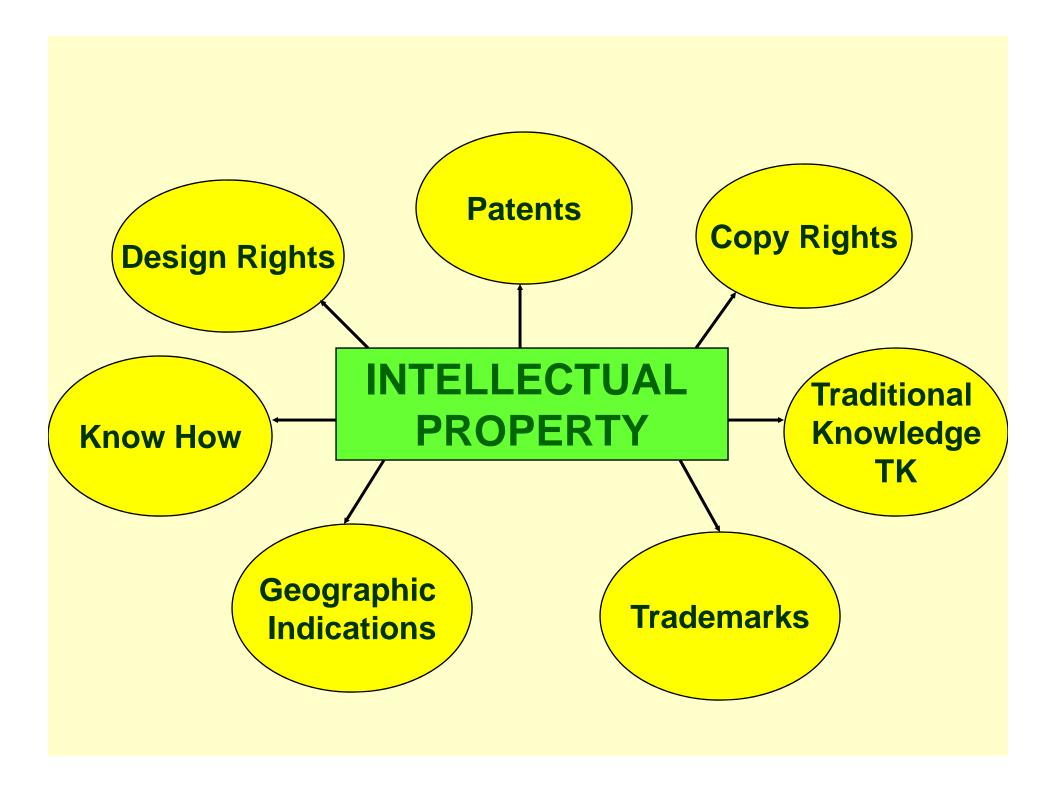


What is Intellectual Property Rights (IPRs)

- Creative people who disclose their work for benefit of mankind get ownership right over their creation.
- Protects their work from being copied or imitated without their consent.
- IPR can be used, sold, loaned, gifted, stolen.
- IPR encourages innovation.
- Contract between Government & Inventor.
- Government promises to protect invention from copying by others for specific time.
- Inventor commercializes invention for Society's benefit.

TRIPS

- Trade Related Aspects of Intellectual Property Rights came into force on January 1, 1995.
- Establishes minimum levels of protection Government must grant to IP of fellow WTO (World Trade Organization) members.
- Strikes a balance between long term benefits and short term costs to Society.
- Provides for a Dispute Settlement Body (DSB) which is final authority on all IPR disputes.
- India's laws cannot be different for Indian or foreign companies in India.



Legally Recognized IP

Patents:

 Protect inventions – awarded to novel, nonobvious industrial applications.

Copyrights:

- Protect artistic and literary works and offer strict protection for form and substance.

Designs &Trademarks:

- Protect brand names/designs for identification of goods and services.

PATENTS IN INDIA – HISTORICAL PERSPECTIVE

1911 1970 1999 2002 2004 First Second Indian Indian **Patents** Amendment to **Amendment Parliament** Patents and Ordinance the Patents Act to the enacted the Design Act passed on Patents Act Patents Act December 26, 2004 **Product** EMR and **Process** Patent term In technical compliance with **Patents** Mailbox **Patents** extended to the commitment provided 20 years made under the **WTO Agreement**

Patents

- Exclusive right granted for an invention which must be
 - novel
 - have an inventive step
 - must be useful
- Invention can be product or process.
- Process patent is a weak protection.
- Patent provides protection to the owner for a limited period like 20 years.
- Inventor does not get monopoly but only exclusivity for 20 years in exchange for full disclosure of invention.

Patents

- Gives the owner Exclusive Right to:
 - Make the Invention
 - Use the Invention
 - Sell the invention
 - Distribute the Invention
- These Exclusive Rights are obtained after grant of patents by Registrar of Patents.

Why are Patents Necessary?

In Pharmaceuticals

- Over 90% prescription medicines which are generic evolved out of patented medicines.
- Encourages researchers to take risk to develop new products and therapies.
- Strikes right balance between inventor's legitimate concerns about compensation and Society's need for more scientific developments.
- Provides innovator time to educate medical professionals about proper use of new molecule.

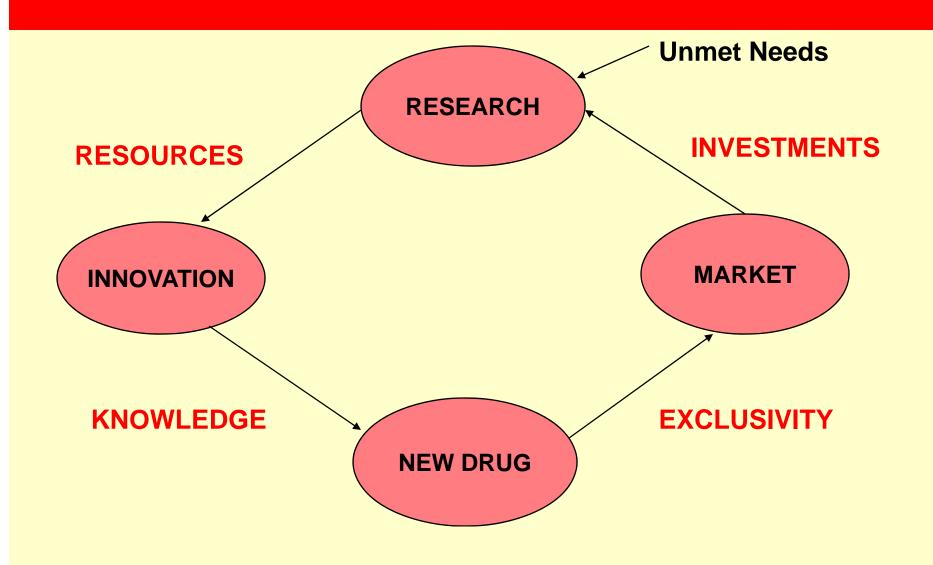
How long & costly is Pharma R&D

- Takes 8 to 12 years after patenting to launch product – time consuming
- Costs about U.S.\$ 1 Bn. costly
- Odds 1 in10,000 of new drug getting to market risky
- Reward: Innovator gets exclusivity for the product until patent expires

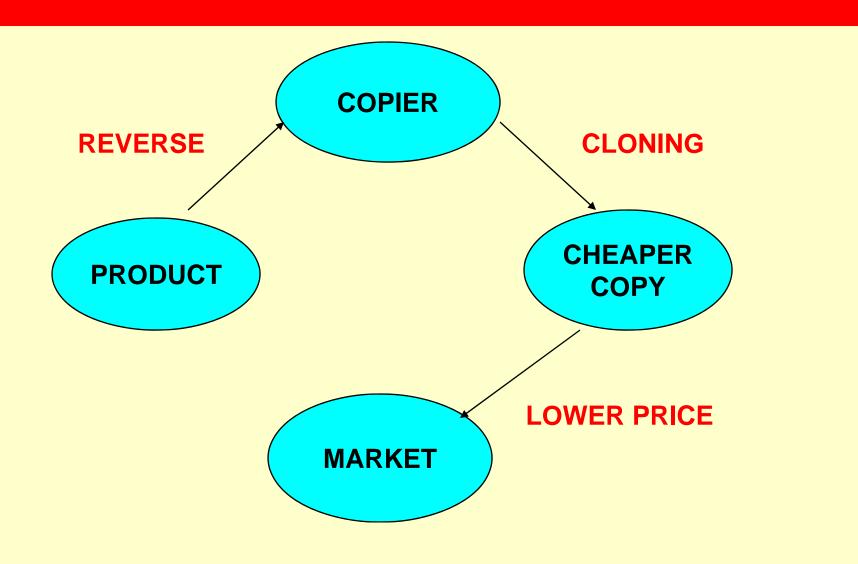
Will IP Protection Promote Research in Third World Diseases

- AstraZeneca has a R&D centre in Bangalore dedicated to TB research
- Novartis has a Research Institute for Tropical Diseases in Singapore

What is Medical Research



..... and what is not



Will IPR "Kill" Local Generic Industry

- Without patents there are no new medicines and hence dries up pipeline for generic products.
- Generic industry relies on new medicine to copy after patent expiry.
- IPR is essential for growth of generic industry.

Will Prices of Essential Life-saving Medicines Increase due to Patents?

- Patent protection is prospective for discoveries made after 1st January, 1995.
- 97% of drugs on WHO Essential List are off patents.
- Most patented products have equivalent therapeutic generics.
- These exert pressure on patented products price.

Are Patented Products Costly?

- After 2005, hardly 3% of drugs are under patent protection, 97% are off-patent medicines.
- Most patients pay out of their pockets for medicines.
- Limited purchasing power will be a check on high prices for patented products.
- Low priced generic therapeutic equivalents will also keep prices of patented products in control.
- Government also keeps a watchful eye on prices.

What happens when there are no Substitutes for Patented products

- Happens rarely.
- Government will ensure that these medicines reach the needy at affordable prices through proper distribution and subsidies.
- Manufacturers will also have special programs and prices for those who cannot afford, for eg. Glivec is given free to needy patients and Merck discovered a cure for river blindness and donated medicine free of charge to Africa and other afflicted countries.

Advantages of Licensing Patents

 Total global licensing revenue estimated to be U.S.\$ 100 Bn. (Source: Economist)

Examples of Licensing Revenue

Company	U.S.\$ per year
IBM	1.4. Bn.
Texas Instruments	800 Mn.
Digital Equipment (from Intel	1.5 Bn.
for dropping its patent	
infringement suit)	

- Cost of ignoring Patents
 - Xerox lost U.S.\$ 500 Mn. by not patenting its GUI technology

Applying for Patent

- India grants the patent right on the first-to-apply basis.
- The application can be made by either:
 - the inventor
 - the assignee
 - the legal representatives of the inventor
- The foreign applicants are given national treatment.

Registration Process

 Patent rights in respect of any invention are created only on grant of patent by the IPO following procedures established by the Patents Act & Rules.

Career Training

1-year Post Graduate Diploma in Patent Law and Practice (PGDPLP)

Course Curriculum

The course educates the student in the different aspects of patent protection including -

- Legal (The Indian Patent Act, comparative perspectives in different jurisdictions),
- Technical (prior art searching & drafting),
- Practical (filings, oppositions, infringement litigations etc),

Course Curriculum

- Economic (Technology Transfer & Licensing)
- Management of patents for creation of greater wealth and value for corporates / individuals
- Significance of a patent regime as a tool for technology innovation and transfer

Career Options

Research:

- Prior Art Search
- Technology/Patentability Analysis
- Patent Drafting
- Infringement / Overlap Analysis
- Patent Proof-reading

Career Options

Legal:

- Licensing Analysis
- IPR Trainer
- IP Auditing
- Litigation
- Legal Research
- Legal Counseling

Career Options

Consulting:

- Strategy Formulation
- Patent Valuation
- Portfolio Analysis
- Business Research
- Patent Analytics

Qualities Needed to Succeed

- Ability to analyze & reason
- Think laterally
- Interpret law
- Good command over written & spoken English
- Sound pharmacy / technical background

Salary Status

Fresher – Patents:

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> IT company

Biotech/Pharma company

Legal company

Consulting

Bachelors Masters

3.0 - 5.5

4.0 - 6.5

3.0 - 4.5

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All in Rs.L / year

Thank You