Intellectual Property Rights Protection Versus Antitrust in Developing Economies: Interactions and Results

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Intellectual Property Protection and Antitrust: What is The Relationship?

- Coherent goals in the area of innovations: promotion of innovations by means of proinnovative market competition
- Different policies in different periods
 - IPR protection provokes competition *ex ante* by promising considerable gains to a winner
 - Antitrust policy supports competition *ex post* by preventing the winner from market power abuse

Area of conflict

- Protection of specific property rights restricting free market competition (may be applied not only to IPR as far as antitrust policy is based on exclusions from property rights).
- Especially acute for IPR because of lesser legal clarity around IPR and the importance of IPR-objects

Literature

- Applied regulations: the U. S. "Guidelines" by FTC and DOJ (1995), the EU Technology Transfer Block Exemptions (1996 and 2004), art. 10 of the Russian law on the protection of competition
- Theory: Encaoua & Hollander (2002), Dumont & Holmes (2002), Anderman (2007), Ganslandt (2008), Vickers (2009) etc.

Why comparative studies?

<u>Different institutional environment in IPR</u> <u>protection as well as in antitrust policy</u>

- Different level of property rights protection
- Differences in antitrust rules and practice
- Different entry barriers
 <u>Corresponding model assumptions for</u>
 <u>developing economies</u>
- Poor protection of property rights, including IPR
- Lack of specific antitrust approaches for IPR
- No substitutes for the object of IPR

Counterfeiting and the problem of product boundaries

- Prerequisites for counterfeiting:
 - Crucial importance of IPR objects for the economic activity
 - High costs of production of substitutes
 - Minimal costs of copying
 - Negligible expected penalties for counterfeiting
- Product boundaries: key component of antitrust cases
 - <u>Is it possible to include "pirates" in the product</u> <u>boundaries?</u> (Sellers, 2004, "The Black Market and Intellectual Property: A Potential Sherman Act Sec.2 Antitrust Defense?")

Model: Assumptions

- 2 periods ('o' and '1')
- One entrepreneur, who can produce a product (IPR object) with no legal substitutes
- Variety of pirates who can produce illegal copies
- Fixed necessary investment in '0' period = *X* (for the entrepreneur), no preliminary investments for pirates
- Constant marginal cost of production in '1' period = c (for the entrepreneur and pirates)
- Only *N* customers may switch to illegal copies
- Market demand: P = a bQ

Possible situations

	Effective antitrust policy is present	Effective antitrust policy is absent
Intellectual property is protected	Ι	II
Intellectual property is NOT protected	III	IV

Situation I

- Effective antitrust policy is present
- Property rights are protected

<u>Result:</u> <u>Market (enterpreneur's) quantity < Q_{comp}:</u> $Q_I = \frac{a - c + \sqrt{(a - c)^2 - 4bX}}{2b} < \frac{a - c}{b}$

Entrepreneur's price = $c+X/Q_I > P_{comp}$ **Expected** <u>economic</u> profit of entrepreneur =0 but the market can exist

Situation II

- Antitrust policy is absent
- Property rights are protected

Result:

Market (entrepreneur's) quantity = $(a-c)/2b = Q_{monop}$

Entrepreneur's price = $(a+c)/2 = P_{monop}$ Monopoly: entrenepreneur's profit is positive, consumer surplus is low

Situation III

- Effective antitrust policy
- Property rights are NOT protected



Situation IV

- Antitrust policy is absent
- Property rights are NOT protected

Result:

Market quantity = $Q_{IV} + N = \frac{a-c}{2b} + \frac{N}{2}$

Entrepreneur's quantity = $Q_{IV} = \frac{a-c}{2b} - \frac{N}{2}$ Entrepreneur's price = $P_{IV} = \frac{a+c}{2} - \frac{bN}{2}$

Pirates' quantity = N

Pirates' price = c

Expected profit of entrepreneur = $\Pi_{IV} = \frac{(a - c - bN)^2}{4b} - X$ may be positive

Solutions

	Effective antitrust policy is present		Effective antitrust policy is absent
Intellectual property is protected	Sol. 1	Ι	ΙΙ
Intellectual property is NOT protected	Sol.	3	Sol. 2 IV

Conclusions

- The direct implementation of traditional antitrust measure may impede the development of new markets
- Poor protection of property rights should be taken into account while assessing competition in IPR-markets