

Intellectual Property Monetization

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### **Key points**

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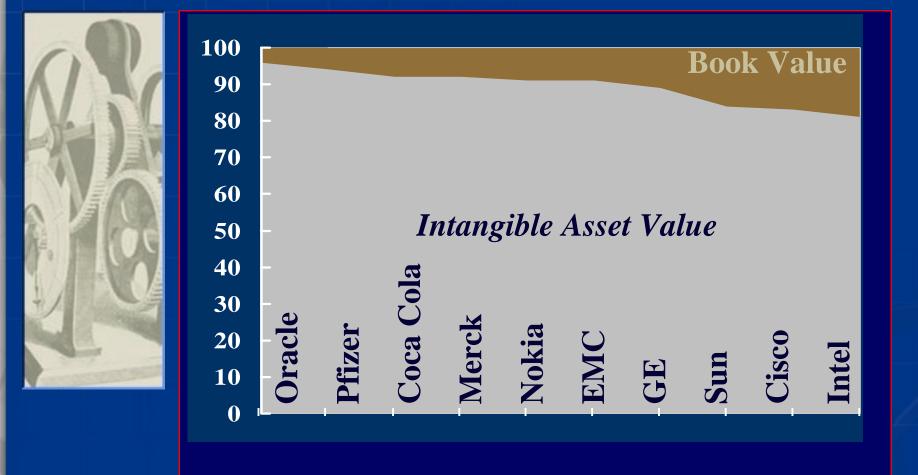
• IP is a financial asset

- IP is becoming a financial instrument
- IP's global value depends on the harmonization of both legal and financial practices
- WIPO should expand its IP harmonization efforts to include financial considerations



### Intangible assets are valuable

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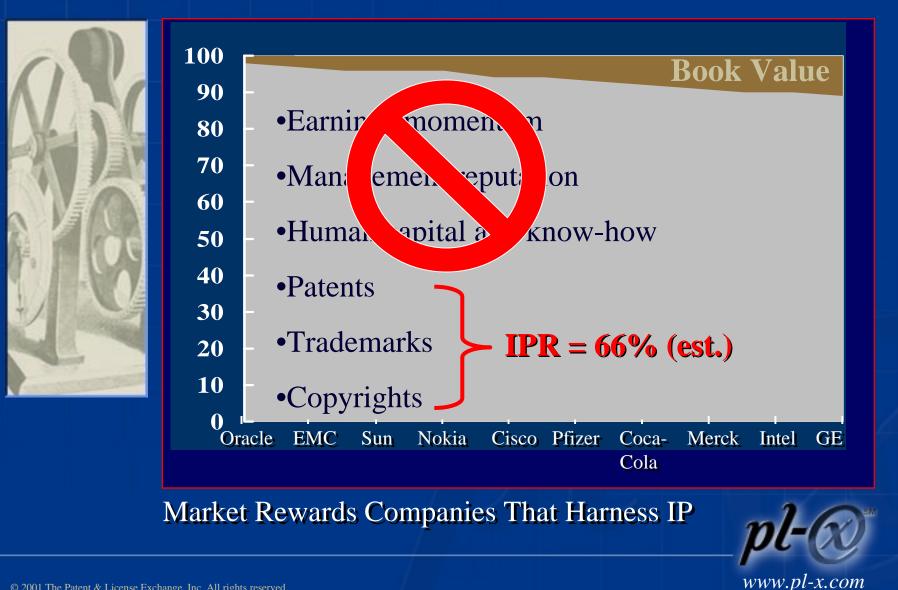


1 Mar 01: Market Rewards Companies That Harness IP

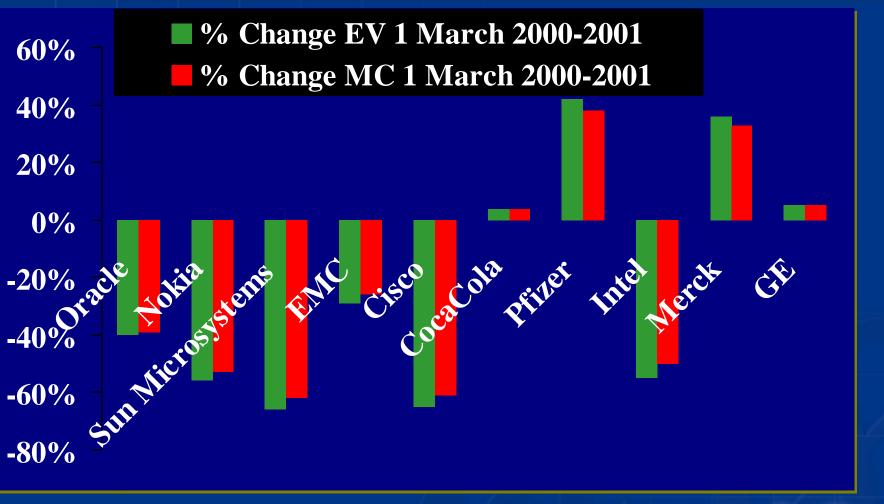


### IP is a key intangible asset

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#### Intangible value ≈ market cap MINIMIZE RISK. MAXIMIZE OPPORTUNITY.<sup>SM</sup>





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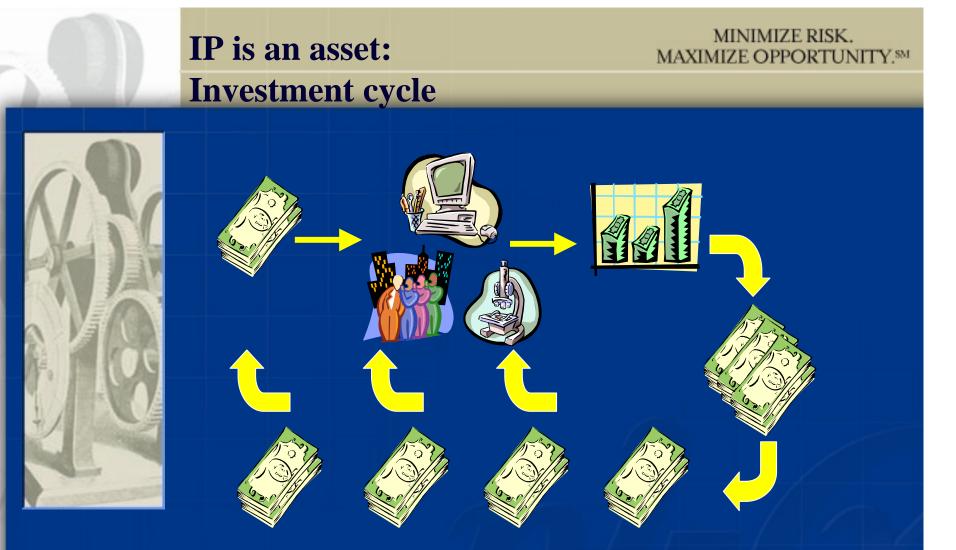


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Asset		Monetization Event (Cash Flow)
Bond	•	Pay to acquire bond
	•	Receive interest payments
Stock	•	Pay to acquire stock
	•	Receive cash on sale
Intellectual	•	Pay to perfect rights
property (I)	•	Exercise rights and pay to develop
		technology
	•	Receive cash on sale of product







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### **IP: an investment instrument**

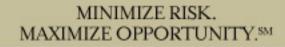
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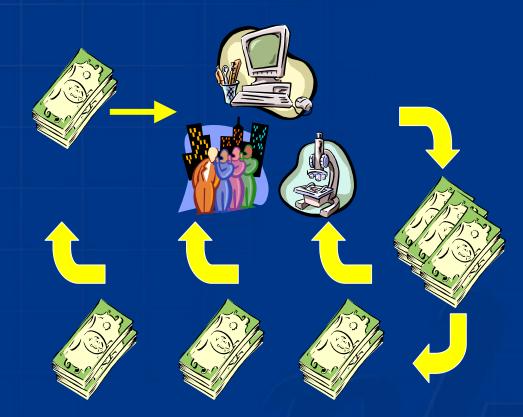
Instrument		Monetization Event (Cash Flow)
Bond	•	Pay to acquire bond
	•	Receive interest payments
Stock	•	Pay to acquire stock
	•	Receive cash on sale
Intellectual	•	Pay to perfect rights
property (II)	•	License or assign, collateralize,
		etc.













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### **Monetization strategies**



## Create value from IP, an instrument:

- License, cross-license, in-license
- Sell (assign)
- Allow to expire or donate
- Collateralize
- Securitize
- 1031 Exchange
- Minority equity investment

Maximize transaction opportunities Minimize transaction risks





### **IP**≈**Financial option**

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Provide rights without obligations
Patents are options on technology

 Call option on the future cash flow that may (or may not) arise from a technology

- Embedded put options to enforce
- Annual option to renew
- IP is a real option a financial derivative



### **IP** value is market driven\*\*

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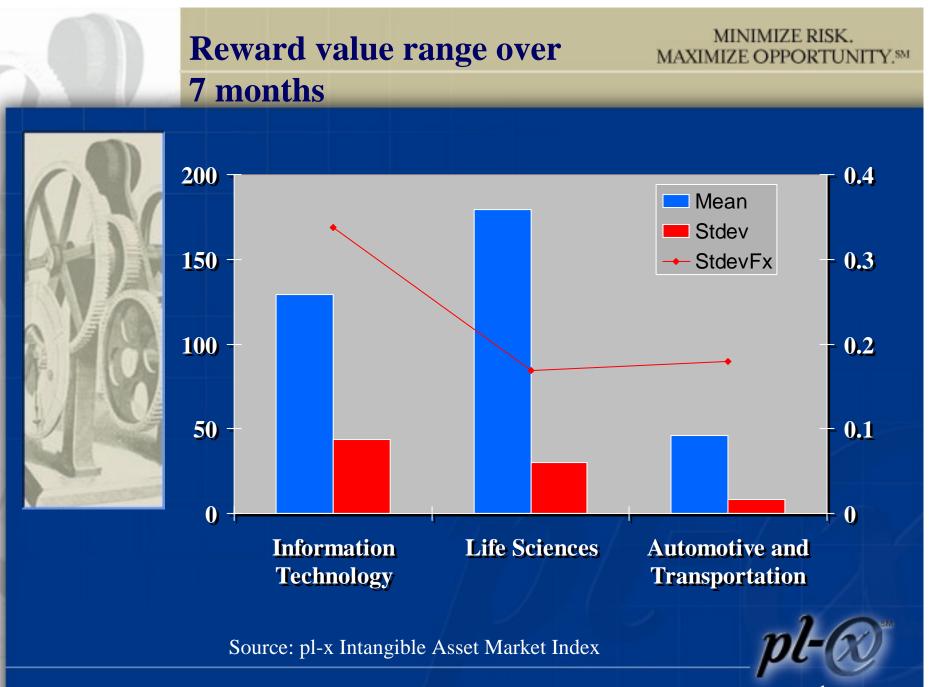


Source: pl-x Intangible Asset Market Index \*\*Financial Accounting Standards Board Statements No. 141 and 142



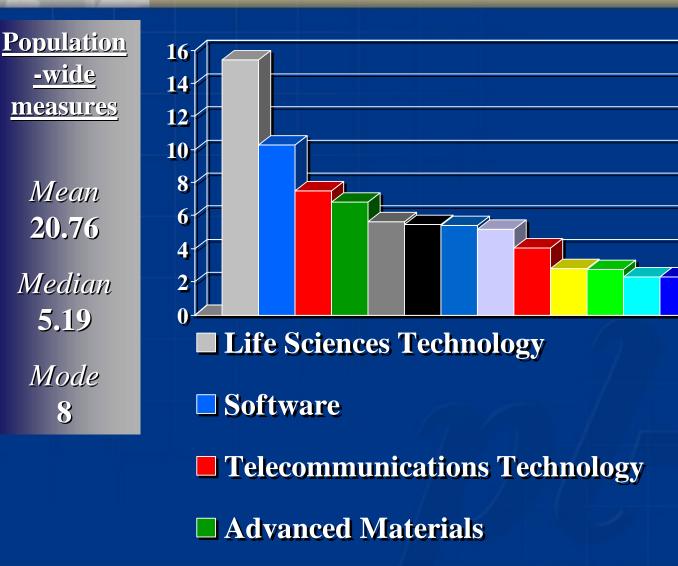
\* Automotive and Transportation





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#### Median Values, 8000 IP Assets MINIMIZE RISK. MAXIMIZE OPPORTUNITY.<sup>SM</sup>





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### Valuing an investment

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 Discounted technology cash flow  $PV = Upfront.fee + \sum_{n=t}^{L} \frac{C_n}{(1+r)^n}$ Measured reward – not cash flow • DCF – Monte Carlo  $PV = Upfront.fee + \sum_{n=t}^{L} \frac{f(C_{\mu}, C_{\sigma})_n}{(1+r)^n}$  $h = \left\{ \ln(S_t/K) + r\tau + \sigma^2 \tau/2 \right\} / \sigma \sqrt{\tau}$  $\sigma^{2} = \frac{\int dr \left[ \int dr \left[ \frac{S_{t+\Delta t}}{S_{t}} \right] \right]}{\Delta t}$  $\Delta t$  $C_t = S_t N(h) - K e^{-r\tau} N(h - \sigma \sqrt{\tau})$ 

**Measured risk Market-based** measure of reward

**Observed risk** from variance





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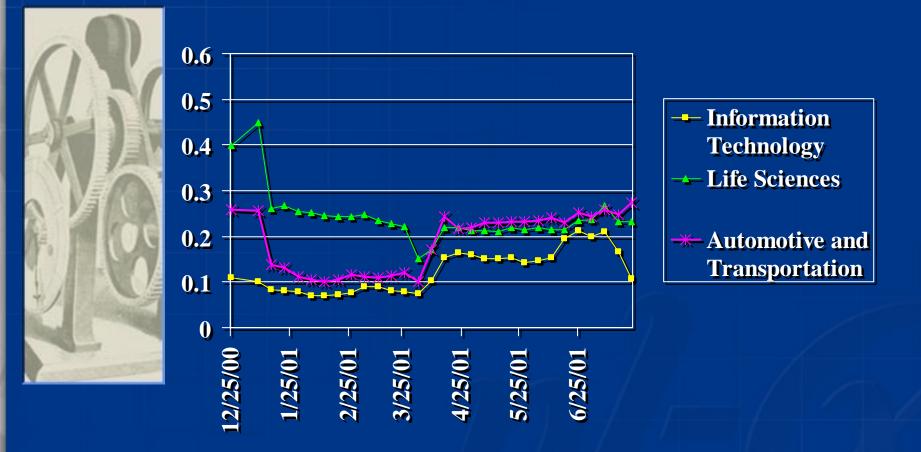
 $\frac{1}{n=t} \frac{f(C_{\mu}, \overline{C_{\sigma}})_n}{(1+r)^n}$ PV = Upfront.fee +n=t $\vec{r_{\text{exp}}} = r_f + \beta(r_{m-avg} - r_f)$ 



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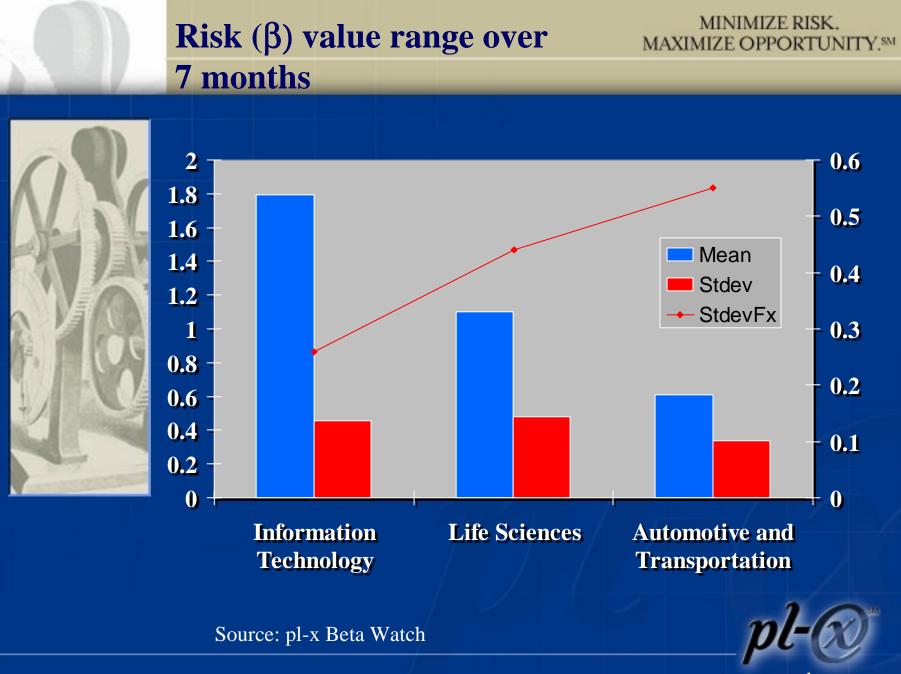
### **Uncertainty of discount rate**

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#### Source: pl-x TRRU® metrics: CAPM





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### **Effects of uncertainty**

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• Needs parallel WIPO legal harmonization efforts

- Uncertainty regarding financial opportunities
  - Reduces commercial opportunities
  - Reduces global investment
- *Should* be addressed by WIPO harmonization efforts





### **Call to action**

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 WIPO should promote global harmonization of financial aspects of IP

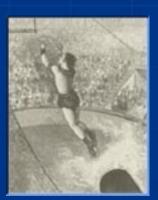


### **Examples of financial initiatives**

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Swiss Re

# Interactive IP Catalog

- Global language of science and technology
- Standardized units and ranges of values
- -Solves prose limitations

Automatic Patent

Validity Insurance

– International risk

-Transaction costs

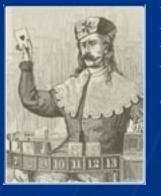
-Lost royalties

-\$10 million coverage

mitigation









### Transaction Assurance Services

- International risk mitigation
- Standard escrows
- Standardized deal documents

Market-Driven Measures of Risk and Reward

> Market-based indications of value



### For further reading

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Harvard Business School

The Patent & License Exchange: Enabling a Global IP Marketplace









**Options pricing and TRRU® Metrics** 

- les Nouvelles, 2000 (Sept); 139-143
- les Nouvelles, 2001 (Sept)
- Patent Strategy & Management, Sept 2000.
- Patent Strategy & Management, Mar 2001
- Harvard Business School (case study) N1-601-109 (Fall 2000)
- Publishers of TRRU data
  - Derwent IP Matters, The Daily Deal
  - Law.com; Thedeal.com,
  - www.pl-x.com, Technology Access Report





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