InteCap, a subsidiary of Charles River Associates

MICHAEL J. Lasinski Managing Director

Education

M.B.A. Finance and Accounting, The University of Michigan B.S.E.E. Electrical Engineering, The University of Michigan

Experience

Mr. Lasinski is a recognized leader in the area of intellectual property valuation. In his nine years focused on Intellectual property, he has performed more than 150 appraisals of intellectual property. He has performed valuations of intellectual property/technology assets in a number of contexts, including technology transfer, mergers, acquisitions, divestitures, and tax-related transactions. He has also consulted with clients to prepare economic damages analyses in multiple cases. Industries in which he has valuation/litigation experience include automotive, computer hardware, pharmaceuticals, biotechnology, chemicals, consumer products, communications, software and others. Mr. Lasinski has spoken on the topic of intellectual property valuation and value extraction before numerous audiences both nationally and internationally. He is currently the Vice Chair of the Intellectual Property Owners Organization's Valuation and Taxation Committee. He has been the Chair of the same committee for the Licensing Executives Society.

Mr. Lasinski has managed a number of engagements focusing on the value maximization of client's intellectual property. These engagements have focused on the commercialization of intellectual property, including licensing, sale, corporate spin-outs and start-ups; development of intellectual property business strategies; and design of intellectual property management organizations. Mr. Lasinski has been involved in all aspects of licensing, including intellectual property identification, target identification, marketing, negotiations, deal closure and royalty investigations or audits.

Prior to joining InteCap, Mr. Lasinski worked for Coopers & Lybrand, LLP (now PricewaterhouseCoopers) and Ford Motor Company's Electronics Division (now Visteon). In his position at Coopers & Lybrand, Mr. Lasinski worked with companies involved in multinational manufacturing, vehicle leasing, banking, and real estate development as well as companies with emerging technologies. Mr. Lasinski performed duties in both the audit and mergers and acquisitions practice areas.

Mr. Lasinski has been involved with all phases of component design and production in the automobile electronics area. In his final position as a systems engineer at Ford, he was responsible for a number of the electronic systems on a 1996 vehicle. These systems included remote/keyless entry, anti-theft, instrument clusters, cellular phones, airbag diagnostics, and other interior systems.

Mr. Lasinski is currently a Trustee with the Licensing Executives Society and a licensed CPA in the State of Illinois. He is also a member of the AICPA and Illinois CPA Society. Finally, he has offices both in Chicago, IL and Ann Arbor, MI.



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Pierce Law Advanced Licensing Institute

ECONOMICS

Intellectual Property Valuation

INTECAP

July 14, 2004

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VALUATION

STRATEGY

Agenda

INTECHP

- > Why IP is Important
- > Why Value IP?
- > How to Generate Value from IP?
- > Accounting & Finance Crash Course
- > How Do I Value IP?
- > IP Valuation Examples
- > Overview of Dealing with Uncertainty in IP Valuations

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Why IP is Important Increased Attention by Alan Greenspan and the Federal Reserve

Only in recent decades, as the economic product of the United States has become so predominantly conceptual, have issues related to the protection of intellectual property rights come to be seen as significant sources of legal and business uncertainty."

- Alan Greenspan, February 27, 2004

In recent decades, for example, the fraction of the total output of our economy that is essentially conceptual rather than physical has been rising. This trend has, of necessity, shifted the emphasis in asset valuation from physical property to intellectual property and to the legal rights inherent in intellectual property. Though the shift may appear glacial, its impact on legal and economic risk is beginning to be felt."

INTEPAP

- Alan Greenspan, February 27, 2004

Why IP is Important Changing Corporate Business View of IP

> The 'Traditional' corporate treatment of IP

- Corporate cost center
- Not allocated enough resources to be managed effectively
- A sense it was needed, but not really appreciated or taken for granted

The 'New' business view of IP

- CEO's Letter, IBM 2001 Annual Report "In 2001, we became the first enterprise to earn more than 3,000 new US patent awards"
- Incremental revenues through licensing
- FASB Statements 141 and 142 What's this? 'Better' accounting for intangibles!



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FNSING POYALTIES

*Source: IBM 2000 Annual Report

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•Analysts and other users of financial statements, as well as company managements, noted that intangible assets are an increasingly important economic resource for many entities and are an increasing proportion of the assets acquired in many transactions. As a result, better information about intangible assets was needed.

http://www.fasb.org/st/summary/stsum142.shtml

Why IP is Important Increasing Focus on Patents Has Generated Significant Value



Why IP is Important Increased Attention by Media and Industry Participants Alike

- "By some estimates, companies are sitting on \$1 trillion a year in untapped licensing fees"
 - USA Today
- "The 500 largest firms in the United States generated intangible value of US\$7.3 trillion (69.96% of total value)" - February 2002 Intangible Mngmt. Value Survey

- ne 19 deletate - Alexandra Martine, anti-

Agenda

> Why IP is Important

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Why Value IP? Current valuation methods don't capture full value

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"It is widely accepted that intangible (knowledge or intellectual) assets are the major drivers of corporate value and growth in most economic sectors ."

"Evaluating profitability and performance of business enterprise, by say, return on investment, assets or equity (ROA, ROE) is seriously flawed since the value of the firm's major asset intangible capital—is missing from the denominator of these indicators."

> - Feng Gu and Baruch Lev, <u>INTANGIBLE ASSETS, Measurement, Drivers,</u> <u>Usefulness</u>, April 2001, p. 2



Why Value IP? Is Wall Street Research On The Right Track?

Once executives understand the value of intangible assets, they will pay more attention to effective management of them. They will also realize that disclosing information about intangible assets can build stronger relationships with investors (and other stakeholders), helping insulate their share price from the vagaries of the market."

文字中的这些<mark>的</mark>,还是这些"它是是我们的算法,是"等于是是

Gartner Research, October 2001

Why Value IP?

Increased Attention by Media and Industry Participants Alike

* "Rather than protect their intellectual property to prevent lawsuits, many firms have become pro-active in leveraging their assets. By offering licenses, the companies can achieve several goals: tap a new source of cash, establish standards by having their technology and patents used throughout an industry, and promote product development."

- Financial Post, September 4, 2003

• "One of the challenges facing companies that want to license technology is balancing a desire to make sales and establish industry standards with the need to keep a competitive edge. They have to decide what is core technology and what can be licensed to rivals."

- Financial Post, September 4, 2003





Why Value IP?

Increased Attention by Media and Industry Participants Alike

- "There is no faster-growing, more contentious field in the legal world than what's known as intellectual property."
 - Chicago Tribune, August 2002, quoting federal judge Richard Posner, Senior Lecturer in Law at The University of Chicago Law School

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Business awareness of the value of intellectual property rights may be growing but, according to IP experts, companies are still too often failing to recognize them. Managers need to do much more to educate themselves and their staff about when IP rights arise and how they can be protected."

- Financial Times, March 23, 2003





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동일의 귀엽은 것이 모두 물람들이

How to Generate Value from IP How IP "Fits" into Intellectual Assets



How to Generate Value from IP What Drives IP Value?

- Importance to the Product/Process
- > Uniqueness
- Speed of Technological Change in Industry
- Development Cost of Alternative Technology
- > Strength of the Patent
- Commercial Success/Popularity
- > Potential for Convoyed Sales

Trademarks

- Name Recognition
 Market Share
 Command Pricing Premium
 Potential to Leverage Into New Markets or Market
 Segments
 - Barriers to Entry Into Market

How to Generate Value from IP What Drives IP Value?

Patents

- Importance to the Product/Process
- Uniqueness
 - Speed of Technological Change in Industry
 - Development Cost of Alternative Technology
- > Strength of the Patent
- Commercial
 Success/Popularity

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Potential for Convoyed Sales

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- Name Recognition
- > Market Share
- Command Pricing Premium
- Potential to Leverage Into New Markets or Market
 Segments
- > Barriers to Entry Into Market





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Accounting & Finance Crash Course Accounting Terms

Q: What's EBIT?

Earnings before interest and taxes

Q: What's EBITDA?

Earnings before interest, taxes, depreciation, and amortization

Q: What's NI?

Net Income

Q: What's EPS?

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Earnings Per Share

Accounting & Finance Crash Course Income Approach: An example



Accounting & Finance Crash Course What is Discounting?

- Time Value of Money A concept that money now is worth more than the same amount in the future because of its potential earning power.
- ➤ Discounting → process of restating <u>future</u> cash flows to an equivalent value in a <u>prior</u> period

i)ⁿ

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Where i = discount rate and n = # of periods in the future



Accounting & Finance Crash Course Illustration of Discounting

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317 Net Present Value of Future Cash Flows

> What is the discount rate supposed to reflect?

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- Time value of money
- "<u>Riskiness</u>" of the cash flows

> Possible proxies for a discount rate?

- Risk Free Rate
- Weighted Average Cost of Capital (WACC)
- Cost of Debt
- Cost of Equity
- Prime Rate
- Others

- Option pricing
- Hurdle rates
- Venture capitalist rates

What is WACC? \triangleright

The opportunity cost to all the capital providers weighted by their relative contribution to the total capital of the company

- 그는 말을 잘 많는 것 같아요. 것 같은 것 같아요. 가 같아요. 나라

$W_D * K_D * (1 - T_C) + W_E * K_E$ WACC

Debt as % Equity as % After Tax Cost of Blended **Total Funding** Total Funding Cost of Debt Equity

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Cost

> Should I use WACC?

- Is the project in the same business as your WACC comparable company?
- Will the project support the same amount of debt (i.e., if it were financed independently, would it be financed entirely with equity or with some debt.)?

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• Will the project's debt to value ratio stay constant?

Caveats

- WACC is not the only discount rate that can be used
- There are many situation-specific factors that affect the computation of WACC

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> What should a discount rate reflect?

- Same risk as the risk inherent in the cash flows
- The cost of obtaining funds

> Every situation is different

- You must evaluate every situation separately
- The selection of a discount rate is very situation specific

Accounting & Finance Crash Course The Importance of the Discount Rate

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How Do I Value IP? Cost Approach premise

> Value = Cost to replace or re-create the IP

> Theory: Licensee avoids these costs by licensing the IP from others

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Costs may include:

- R&D (labor and overhead)
- Testing and regulatory approval costs
- Patent protection costs

- Equipment and other capital investments
- Opportunity costs of diverted resources

How Do I Value IP? Cost Approach observations

> Some observations...

- Does not reflect earnings potential!
 Could leave money left on the table
- Often used when many substitutes are available
 Indifference point in "build or buy" analysis
- Sometimes used for embryonic technology
 - Earnings potential may be "fuzzy"
- Don't forget costs of delayed market entry
 First vs. second or third market player

How Do I Value IP? Market Approach premise

Value = Arm's-length price paid in comparable transactions

> Theory: Licensee is not willing to pay more than others have paid for similar IP

> What constitutes a "comparable" transaction?

- Nature of technology and IP protection
- Market size and characteristics (e.g., number of applications)

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- Scope and status of patent protection
- Terms of the agreement (e.g., field of use restrictions)
- Growth outlook for relevant products
- Barriers to entry

• Other

How Do I Value IP? Market Approach observations

Some observations...

- By definition, IP is unique
- No two deals are exactly alike
- Difficult to compare deals with multiple forms of compensation (e.g., equity, milestone payments, running royalties)
- Many "hidden" deal factors (e.g., strategic buyer "premiums")
- Often used to establish "ballpark" values, especially for running royalties

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• Favored by tax authorities for deals with affiliates

How Do I Value IP? Income Approach premise

- > Value = Present value of the expected future income stream
- > Theory: Licensee is willing to pay some portion of its economic gain from using the IP

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> Three parameters:

- Amount of the income stream
- Duration of the income stream
- Risk associated with the realization of the income

2011年後後日本美國公共的建築的合調整的目的中心中非常有效。

How Do I Value IP? Income Approach observations

> Some observations...

- Most rigorous valuation method
- Exposes sensitive variables and potential deal breakers
- Often used in combination with probability analysis (decision tree modeling)
- Poor assumptions lead to meaningless results
- Challenge is to apportion or isolate the income stream related to IP

mine the income stream, and tween the licensor and licensee	Total Ways to Apportion Total Ways to Apportion Total Nays to Apportion Income Soughty rates in comparable transactions Statistic frames in comparable transactions Soughty rates in comparable transactions Rule of Thumb) Comparison to next best alternative best alternative Other Excess earnings	
How Do I Value IP? Income Approach: first dete then apportion the stream be	RevenueDrivers:Rarket sizeMarket sizeMarket segmentationMarket segmentationMarket shareMarket shareProduct pricingProduct pricingLessR&D requirementsTax ratesTax rates	

How Do I Value IP? Income Approach: An example

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IP Valuation Example Transaction Details

Amati Communications Corp.

Leading developer of Discrete Multi-Tone (DMT) technology for Digital Subscriber Line (DSL) high-speed data communications

FY 1997 Sales: \$13.2 million

FY 1997 Net Income: \$12.2 million (loss)

Employees: 120

INTERA

Texas Instruments

Global semiconductor company that designsand supplies digital signal processing (DSP) and analog technologies

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FY 1997 Sales: \$9.75 billion

FY 1997 Net Income: \$1.81 billion

Employees: 44,140

Transaction Details

- \$20 per share offer = \$395 million cash (30 times revenue)
- > \$14.8 million break-up fee to Westell Technologies Inc.
- Goal: Combine Amati's DMT technology with TI's DSP chips

IP Valuation Example Amati Assets

As of November 19, 1997:

> Patent portfolio being valued

- Exclusive rights to 3 Stanford patents
- 10 issued U.S. patents
- 17 U.S. patent applications
- Average expiration: Oct. 14, 2015 (treat as 12/31/15 for valuation)

그 말했지 않는 것 같은 것을 하는 것 같이 없다.

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> Other assets

- Net tangible assets (assume book = market value): \$5 million
 - 120 employees (48 in Research and Development)
- In-process R&D

IP Valuation Example Seminal DMT-Based DSL Patents

As of November 19, 1997, Amati had foundational IP for DMT-based DSL technology:

At the time of the acquisition, Amati had approximately 25-30% of all DMT patents worldwide*

 Motorola
 Motorola

 Amati 5,400,322
 Motorola

 Motorola
 Motorola

 Netspeed
 Motorola

Citation Tree for 5,400,322

Motorola was a licensee of Amati and a competitor of Texas Instruments

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* Note: Based on an analysis of DMT-based DSL patents using filing dates up to and including 1995.

IP Valuation Example Market Analysis

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Market Facts

 ✓ DSL works over existing copper cable → most infrastructure in place.
 ✓ "Last-mile" limitations in U.S. → service available to 25% of homes in 1999 growing to 80% by 2004.
 ✓ 2 chipsets required for each line (at end-

user location and at central office). Competition from fiber optics, cable-

modem, satellite, and wireless broadband technologies.

	<u>Wo</u> ı	ridwide Ma	rket Statis	stics
(millions)	1995	1997	1999	2002E
Phone Lines	691	792	905	1,115
PCs	230	320	430	670
Internet Users	34	92	257	600

IP Valuation Example Market Assumptions

- > DSL used by 30% of internet users worldwide by 2015
- > Chipset prices decline from \$40 in 1998 to \$16 in 2015

IP Valuation Example Model Update

- An an Erann Angen an Eran British

n an		1998	1999	2000		2014	2015
Worldwide DSL Chipset Shipment F DSL Chipset Sales Price per Port	Forecast (000)	778 \$40	1,186 \$38	4,104 \$37		40,122 \$17	39,746 \$16
DSL Chipset Revenues (000) Projected IP Market Share	بر بر بر بر بر بر بر بر بر	\$31,120	\$45,068	\$151,848	•••	\$682,074	\$635,936
Projected IP Revenues (000)							
Apportionment to IP		landa an		and a second second The second se The second seco	•••		
After-Tax IP income at 39.4% (000) Discount Factor					•••		
Annual Present Value of IP Income	(000)				· · · ·		

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After-Tax PV of IP Income (000) PV of Amortization Tax Benefit (000)

Total PV of IP (000)

IP Valuation Example Model Update: Amati's Market Share

Assumption: Amati's DMT technology (adopted as standard by ANSI and ETSI) obtains 75% of DSL market

	1998	1999	2000	••••	2014	2015
Worldwide DSL Chipset Shipment Forecast (000) DSL Chipset Sales Price per Port	778 \$40	1,186 \$38	4,104 \$37	•••	40,122 \$17	39,746 \$16
DS_ Chipset Revenues (000) Projected IP Market Share	\$31,120 75%	\$45,068 75%	\$151,848 75%	···· _	\$682,074 75%	\$635,936 75%
Projected IP Revenues (000) Apportionment to IP	\$23,340	\$33,801	\$113,886	••••	\$511,556	\$476,952
IP Income Forecast (000) After-Tax IP Income at 39.4% (000) Discount Factor				···· ····		
Annual Present Value of IP Income (000)	•		 .	=		
After-Tax PV of IP Income (000) PV of Amortization Tax Benefit (000)						e e e e e e e e e e e e e e e e e e e
Total PV of IP (000)						
ECHD						an an an Arrange Anna an Arrange Anna an Arrange

IP Valuation Example

Market Comparables & Profit Based Indicators

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	All and the state			Market Comparables		
	Licensor	Licensee	Date	Technology	Terms Low	High
- *	Alcatel	Integrated Telecom Express	1998	ADSL technology \$5 M	1M upfront fee 2.5%	6.0%
	British Telecom	Mitel Corp.	1988	Digital circuit elements of BT's \$1.3 DELTIC transceiver plus licen	MM royalty cap 3.0% 40% of sub- ise royalties	3.0%
	Intelepiex Corp.	Terraplexer Corp. of America	1988	Technology to double phone \$1.5 line capacity using one conventional access line	million upfront 6.0%	6.0%
	Microphase Telecommunications	mPhase Technologies	1997	Patent and trademark license \$37, for mfXDSL technology \$50, ramp minu	500 upfront, 6.0% 000 minimum bing to \$1 MM umum	10.0%
	Texas Instruments	Toshiba	1990	Semiconductors	3.0%	4.5%

Excess Earnings

Profit on Patented Product

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Benchmark forProfit"Normal" ProfitAvailable toOn Alt. ProductsPay Royalty

IP Valuation Example Model Update

		, `	en spitebaar		
	1998	1999	2000	2014	2015
Worldwide DSL Chipset Shipment Forecast (000) DSL Chipset Sales Price per Port	778 \$40	1,186 \$38	4,104 \$37	40,122 <u>\$17</u>	39,746 \$16
DSL Chipset Revenues (000) Projected IP Market Share	\$31,120 75%	\$45,068 75%	\$151,848 	\$682,074 <u>75%</u>	\$635,936 75%
Projected IP Revenues (000) Apportionment to IP	\$23,340 5%	\$33,801 5%	\$113,886 5%	\$511,556 <u>5%</u>	\$476,952 5%
IP Income Forecast (000) After-Tax IP Income at 39.4% (000) Discount Factor	\$1,167 \$707	\$1,690 \$1,024	\$5,694 \$3,451	\$25,578 \$15,500	\$23,848 \$14,452
Annual Present Value of IP Income (000)				····	

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After-Tax PV of IP Income (000) PV of Amortization Tax Benefit (000)

Total PV of IP (000)

IP Valuation Example Discount Rate Assumption

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	e e la construction de la construct	and the second second second

Comparable	Cost of Equity Capital	WACC	
n - Arfanska dramanska predstavni			
Amati (1997) ISchroder & Co.1	16.3%	16.3%	
teg egetete te egetete e serve			
Texas Instruments (2000) [Bloomberg]	11.6%	10.9%	
			a di seria d Seria di seria di seri Seria di seria di seri
SIC 3674 (1997) [lbbotson - Industry Composite]	12.4% - 19.7%	12.0% - 19.1%	

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IP Valuation Example Final Valuation Model

State of the second second second

1998 1999 2014 2000 2015 4.104 Worldwide DSL Chipset Shipment Forecast (000) 778 1,186 40,122 39,746 ... DSL Chipset Sales Price per Port \$40 \$38 \$37 \$17 \$16 DSL Chipset Revenues (000) \$31,120 \$151,848 \$45,068 \$682,074 \$635,936 Projected IP Market Share 75% 75% 75% 75% 75% Projected IP Revenues (000) \$33,801 \$23,340 \$113,886 \$511,556 \$476,952 . . . Apportionment to IP 5% 5% 5% 5% 5% IP Income Forecast (000) \$1,167 \$1,690 \$5,694 \$25,578 \$23,848 ... After-Tax IP Income at 39.4% (000) \$707 \$1,024 \$3,451 \$15,500 \$14,452 ... **Discount Factor** 0.9290 0.8009 0.6900 0.0863 0.0744 Annual Present Value of IP Income (000) \$657 \$820 \$2,381 \$1,338 \$1,075 After-Tax PV of IP Income (000) \$92,589 PV of Amortization Tax Benefit (000) 12,702 \$105,291 Total PV of IP (000)

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- > Why IP is Important
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- > Overview of Financial Structures in IP Licensing

Overview of Financial Structures in IP Licensing Types of Financial Structures⁽¹⁾ (1 of 4)

Form of Compensation

Lump Sum Payment

A single cash payment made simultaneously with executing the license and represents the only payment that the licensee will make.

Up-Front Payment

Cash payment(s) made concurrently or within a specified number of days of executing the license agreement.

- Non-creditable
- Advance or creditable
- Technical assistance fee

Milestone Payments

Specified payments due upon the crossing of certain milestone events.

- * R&D
- Clinical testing
- Regulatory approvals
- * Patent issuance / approvals

Licensor Considerations

- * Often reasonable for small licenses
- * Has a strong desire/need for near-term cash
- * Limited faith in licensee performance
- * Limited resources to account for or audit licensee's records

May (or may not) be creditable against future royalties

- * Has a strong desire/need for near-term cash
- * May account for past infringement

Licensee Considerations

- * Does not want to disclose sales-related information to the licensor
- Believes licensor underestimates opportunity
- * Less concerned w/ downside risk
- * Availability of cash / licensor need cash
- * Desires fixed cost versus per unit variable cost (lump sum)
- * Availability of cash
- * Less concerned w/ downside risk

- Desire to continue research
- Comfortable w/ risk of achieving milestones
- Value hinges on achievement of milestone(s)
- * Desire to incentivize licensor to achieve milestone

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Overview of Financial Structures in IP Licensing Types of Financial Structures⁽¹⁾ (2 of 4)

Form of Compensation

Annual Fixed Payments

Annual cash payments due on each anniversary of the license for as long as the license is in effect.

Licensor Considerations

- When use of a process, method or machinery for which no definite use measurement is appropriate
- Desire for consistent annual cash flow
- * Feels downside potential exists

Licensee Considerations

- * Desire for consistent (non-variable)
- * Feels upside potential exists
- Does not want to provide licensor with relevant business information (i.e., per unit or percentage royalties)

Guaranteed Min./Max. Annual Payments

Annual cash payments due on each anniversary of the license for as long as the license is in effect. These payments have specified minimum and maximum amounts.

Running Royalty

Payments which are due upon the use of the license. Typically, licensee pays on a periodic basis (e.g., monthly, quarterly).

- * Net sales
- * Per unit * Per use
- * Multi-tiered * Kicker / deflator
- * Cumulative maximum

- * Need to incentivize licensee to implement technology
- * Upside potential due to forces beyond scope of license
- * Often critical in exclusive arrangements
- Feels participating in commercial success of licensee is an appropriate way to maximize technology value
- Reasonably confident in licensee's ability to perform
- Sufficient resources to account for or audit licensee's records

- * Long term sales forecast is relatively predictable and sufficient to cover minimums
- Does not want licensor to benefit too much from upside
- Less concerned w/ downside risk

Desires licensor to be tied to commercial risks

- Sales forecast is uncertain or limited upside exists
- Limited ability to pay for license ahead of sales

Overview of Financial Structures in IP Licensing **Types of Financial Structures**⁽¹⁾ (3 of 4)

Overview of Financial Structures in IP Licensing Types of Financial Structures⁽¹⁾ (4 of 4)

Form of Compensation

Grant Backs / Grant Forwards

- The licensee/licensor grants the licensor/ licensee rights to use improvements
- on a royalty-free basis or for preset royalty
 - amounts.

Licensor Considerations

- * Need future IP for licensing efforts
- * Feels that licensee likely to develop technology that will be useful / required

Licensee Considerations

Feels that licensor likely to develop technology that will be useful / required

Sublicensing (Revenue) Rights

- A provision whereby the licensor shares any revenues that the licensee receives from sublicensing to third parties.
- Feels licensee better able to license technology
- Feels licensee better able to license technology
- Need for sublicensing rights for (second) source of supply
- Desire to license partners of current licensees

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(1) Note: The above list is not intended to be all encompassing, but is presented for illustrative purposes only. A significant number of other consideration are relevant in structuring benefit flows.

Disclaimer

The concepts and theories covered by this presentation are for discussion purposes only and are not intended to be all-inclusive on the topics of IP valuation and royalty rates. Many of the approaches and data sources are illustrative only and do not necessarily represent the approaches or data sources that the author or InteCap, Inc. would use in any particular situation. These slides were compiled by the author and do not reflect the opinions of InteCap, Inc. While the case examples are based upon real world situations, the specific facts and assumptions are primarily hypothetical.