Security Analysis Overview of Financial Market Environment and Conditions



INVESTICE DO ROZVOJE VZDĚLÁVÁNÍ

The Role of Financial Markets and Institutions

- A financial markets
 - Market with assets (securities, financial instruments)
 - Sell and buy ...
 - Transfer of funds...
 - Deficit subjects
 - Surplus subjects
- Financial Market: a market in which financial assets (securities) such as stocks and bonds can be purchased or sold
 - Financial intermediation financial savings to investments
 - Payment system
 - Means of manage risk

- Transfer funds from those who have excess funds to those who need funds.
 - Students student loan
 - □ Families mortgages
 - Business finance they growth
 - Government finance their expenditures
- One side supply funds the other side demand funds
 - Earn return but only if fund is available in financial market

- Surplus units lenders, investors
 - Receive more money than they spend
- Deficit units borrowers
 - Spend more money than they receive
- This relation is formally organized by securities
 - Agreement between lender and borrower
 - Claim on the issuer

Debt securities

- Represent debt incurred by issuer credit, borrowed funds
- Deficit units issue the securities to surplus units and...
- ...pay interest to surplus unit on a periodic basis (such as every six months)
- Characteristics:
 - Maturity date
 - Face value
 - Fixed or variable interest rate
- Equity securities
 - Represent equity or ownership in the issuer stocks
 - Deficit unites issue the stocks to surplus money...
 - ...spend more money than they receive from normal operations

51/4% REPAYABLE 15TH NOVEMBER, 1987 COMMONWEALTH OF AUSTRALIA Dreasury Bond (4 ISSUED UNDER THE COMMONWEALTH TRANSFERABLE BY INSCRIBED STOCK ACT 1911-1963. DELIVERY \$20 54% DEF 001067 \$20 Chis Bond entitles the Bearer to the payment at the Reserve Bank of Australia at Canterra, Sydney, Melbourne, Bristane, Adelaide, Perth, Hobart or Launceston of — TWENTY DOLLARS — together with interest thereon at the rate of FIVE AND ONE QUARTER percentum perannum in accordance with attached coupons, and such sums are secured on the Consolidated Revenue of the Commenwealth of Australia. Trincipal is repayable on the FIFTEENTH DAY OF NOVEMBER, ONE THOUSAND NINE HUNDRED AND EIGHTY SEVEN. Dated this 14th day of February, 1966. KolandWilson 1987 FAUSTRALIA TREASURY BOND COMMONWEALTH OF AUSTRALIA TREASURY BDI ALTH OF AUSTRALIA TREASURY TH OF AUSTRALIA TREASURY BOND 51/4% DEF 001067 42 51/4% DEF 001067 43 51/4% DEF 00106741 51/4% DEF 001067 INTEREST FOR SIX MONTHS 15TH NOV., 1986 INTEREST FOR SIX MONTHS INTEREST FOR SIX MONTHS INTEREST FOR SIX MONTHS 15TH MAY, 1987 15TH MAY, 1986 15TH NOV., 1987 ON \$20 REPAYABLE 1987 ON \$20 ON \$20 ON \$20 \$0.52 \$0.53 **REPAYABLE 1987** \$0.52 \$0.53 **REPAYABLE 1987 REPAYABLE 1987**

DEC 30 1903 CIN N Himore & Chio Railvoad Company Incorporated by the State of Maryland, Tetruary 28,1827. This Certifies that Goldsmith, Wolf shares of the the ouner of par value of One Hundred Dollars each full paid and non-assessable of the Common Capital Rock of The Baltimere and Ohio Railwart Company hunsterable only on the locks of the Company at its hansfer office by the holder hereof in person or by duly authorized atterney upon the surrender of this certificate. The holders of Preferred Capital Rock to the amount of Sary Million Dollars (\$ 60,000,000) new issued and such additional amounts as may be lawfully issued from time to timeby the President and Directors of the Company pursuant to the resolutions of the stockholders duly adopted Opril 11 1899, are entitled to receive in each year out of the surplus not profits of the Company for the current year such yearly dividend (non-cumulative) as the Board of Directors of saud Radroad Company may declare up to but not executing four percentum, before any dividends shall be set apart or paid upon the Common Rock. IN Witness Whereas, the said Componin has caused this Certificate to be signed by its duby authorized officers this 000000 0 1000 -TOE PRESIDENT milevereny Antiger and a state of the stat SHARPS \$100 PACH

Debt instruments

Bonds, mortgages, mortgage-backed securities

- Contractual agreement by the borrowers to pay the holder of the instrument fixed amounts at regular intervals until a specific date (maturity day), when a final payment is made.
- The maturity of a debt instrument is the number of years until that instrument's expiration date.
- Debt instrument is
 - Short terms or
 - Long term

Equities

Common stocks

- Which are claims to share in the net income (income after expenses and taxes) and the assets of a business.
- If you own one share of common stock in a company that has issued one million shares, you are entitled to 1 one-millionth of the firm's net income and 1 one-millionth of the firm's assets.
- Equities often make periodic payments to their holders
 - Dividends
- They are considered long-term securities because they have no maturity day.
- Owning stocks means that you own a portion of the firm and thus have the right to vote on issues important to the firm and elect its directors.

- Advantages and disadvantages
 - Debt vs. equities
 - Disadvantages of equities
 - Equity holder is residual claimant
 - Advantages of equities
 - Holders benefit directly from any increases in the corporation's profitability or asset value

Money versus Capital Markets

- Short-Term, < 1 Year</p>
- High Quality Issuers
- Debt Only
- Primary Market Focus
- Liquidity Market--Low Returns

- □ Long-Term, >1Yr
- Range of Issuer Quality
- Debt and Equity
- Secondary Market Focus
- Financing Investment--Higher Returns

Primary versus Secondary Markets

- New Issue of Securities
- Exchange of Funds for Financial Claim
- Funds for Borrower; an IOU (I owe you) for Lender

- Trading Previously Issued Securities
- No New Funds for Issuer
- Provides Liquidity for Seller

- Securities brokers and dealers are crucial to a well-functioning secondary market
 - Brokers
 - Dealers

Stock Exchange

- Visible Marketplace
- Members Trade
- Securities Listed
- New York Stock
 Exchange
- NASDAQ (2006)

• OTC

- Wired Network of Dealers
- No Central, Physical Location
- All Securities Traded off the Exchanges

Forex

 Because over-the-counter dealers are in computer contact and know the prices set by one another, the OTC market is very competitive and not very different from a market with an organized exchange.

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ନ୍ନ) International Se 🛓	5) General 6) Trading 7) M	arket Data 8) Condition Code:	s 9) Events	
😵 Kansas City Boar	11 Wall Street, New Yor	k, NY 10005	Phone	
99) Miami Internatio			212-656-3000	
60) Minneapolis Grai				
61) NASDAQ Capital	General Info	ormation	🐔 Equity 🔹	Asset Details 🛛 🚮
62) NASDAQ Global	Country	United States	Composite Code	US
63) NASDAQ Global S	Region	North America	13)Exchange Code	UN
64) NASDAQ InterMar	10)Website	www.nyse.com	Trading Currency	US Dollar
65) NASDAQI OMXIBX	Acronym	NYSE	Open Time*	15:30
66) NASDAQ_OMX_Fut	11)Parent Exchange	NYSE-Arca-Amex	Close Time*	22:00
ଶ) NASDAQ OMX PH	12)CDR Code	NY	Settlement Cycle	T+3
68) NASDAQIOMXIPS	MIC Code	XNYS	14)Entitlement ID	14003
69) NASDAQ Options	ISO Code	US	Round Lot	100
70) NASDAQ OTC	Trading Days	Mo/Tu/We/Th/Fr	Closing Price	Official Closing Price
71) National Stock E	Time Zone	EST	Sample Security	C UN Equity
72) New York Merca	Data Delivery Type	Real-time	15)Turnover	NYSEVALU Index
73) New York Stock	Alt. Trading System	ECN	16)Trading Volume	VOLU Index
74) NYSE Arca	Trading Venue	Standard Exchange		
75) NYSE Liffe US	Inception Date	1792		
76) NYSE MKT	TRADEBOOK	Yes		
37) One Chicago	SSEOMS (Equity)	Yes		
78) OTC Bulletin Boa	TOMS (Fixed Inc)	Yes		
79) OTC Markets	B-PIPE	Yes		
🔹 🕺) SharesPost Mark 🚽	Exchange Ticker	ICE US Equity		
(P): Parent Exchange			*Time display: current Ta	ZDF
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60) Minneapolis Grai				
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62) NASDAQ Global	Country	United States	Composite Code	US
63) NASDAQ Global S	Region	North America	14)Exchange Code	UR
64) NASDAQ InterMar	10)Website	www.nasdaq.com	Trading Currency	US Dollar
65) NASDAQI OMXI BX	11)Parent Exchange	NASDAQ OMX	Open Time*	15:30
66) NASDAQ OMX Fut	12)CDR Code	N7	Close Time*	22:00
ଶି) NASDAQ OMX PH	MIC Code	XNCM	15)Entitlement ID	14005
68) NASDAQIOMXIPS	ISO Code	US	Round Lot	100
69) NASDAQ Options	Trading Days	Mo/Tu/We/Th/Fr	Closing Price	Official Closing Price
70) NASDAQ OTC	Time Zone	EST	Sample Security	OXGN UR Equity
	Data Delivery Type	Real-time		
72) New York Merca	Trading Venue	Standard Exchange		
73) New York Stock	TRADEBOOK	No		
74) NYSE Arca 🚦	SSEOMS (Equity)	Yes		
75) NYSE Liffe US	B-PIPE	Yes		
76) NYSE MKT	Exchange Ticker	NDAQ US Equity		
77) One Chicago	13)Exchange Rulebook	nasdaq.cchwallstreet.c		
78) OTC Bulletin Boa				
79) OTC Markets				
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🔞 Kansas City Boar 🗌	Equity	 Session Name 	Start+	End+	Notes	<u>6</u>
99) Miami Internatio	Preopening		10:00	15:30		
60) Minneapolis Grai	Continuous Trading	Period	15:30	22:00		
61) NASDAQ Capital	After Hours		22:00	02:00		
62) NASDAQ Global						
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65) NASDAQ OMX BX						
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68) NASDAQ OMX PS	Section			100	Search	
69) NASDAQ Options 📕	N/A					
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65) NASDAQI OMXI BX	11)CDR Code	EX	Open T	ime*	12:00	
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67) NASDAQ OMX PH	ISO Code	US	13)Enti	tlement ID	14005	
68) NASDAQIOMXIPS	Trading Days	Mo/Tu/We/Th/Fr	Closing	Price	Official Closi	ng Price
69) NASDAQ Options	Time Zone	EST	Sample	Security	RUBNF UV Eq	uity
70) NASDAQ OTC	Data Delivery Type	Real-time				
71) National Stock E	Trading Venue	OTC-Over the Counter	r			
72) New York Merca	TRADEBOOK	No				
73) New York Stock	SSEOMS (Equity)	Yes				
74) NYSE Arca	B-PIPE	Yes				
75) NYSE Liffe US						
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II) One Chicago						
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How Financial Markets Facilitate

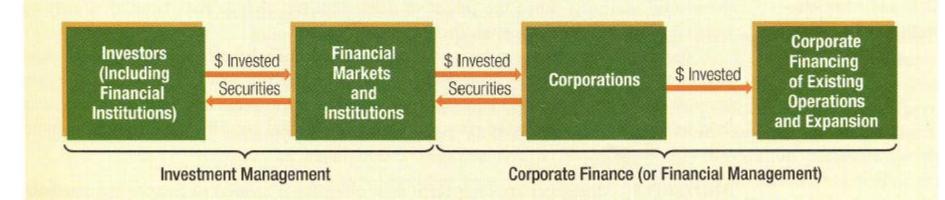
Corporate Finance

Three segments of finance

- Corporate finance
 - How much funding to obtain and how to invest a proceeds to expand their operation
- Investment management
 - Make a decision about form of financing and investing
 Debt vs. Equity financing or investing
- Financial markets and institutions
 - Attract fund from investors and channel the funds to corporation
 - Money market borrow on short term basis
 - Support existing operations
 - Capital market obtain long term funds
 - □ Support corporate expansion

How Financial Markets Facilitate Corporate Finance

Exhibit 1.1 How Financial Markets Facilitate Corporate Finance and Investment Management



Source: Madura, J.: Financial Markets and Institutions, 9th Edition



<pre><help> for explanation. Enter values and hit <go>, <menu> to Return</menu></go></help></pre>											
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Issue// 🔳	.//	🔳 Mty	//	H	//	🔳 Curr 💽	Min Amt	(M)			
1) CAST View 2) Covenants & Pricing International Business Machines Corp											
		<u> </u>	14 A A 1	<u>^</u>					3 Results		
Company Name		Tranche	Maturity.		Loan Type	Status	Trnch Sz(M)	Amt Out (M) S&P	Moody's		
3) International Business M			06/30/17		TERM	SIGNED	45,400,000	45,400,000			
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Àustralia 61 2 9777 86 Japan 81 3 3201 8900	500 Braz Sir	il 5511 3 ngapore 65	3048 4500 5 6212 100	Euro 10	ope 44 20 73: U.S. 1 2: St	30 7500 Germany 4 12 318 2000 4 831461 CET GMT	9 69 9204 1210 Copyright 2014 +1:00 H178-3612	Hong Kong 852 2 Bloomberg Fina -0 25-Feb-2014 (977 6000 nce L.P. 09:47:24		

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IBM US Equity	1) Create R	5,699,331	utput to Excel	Weighted Ave	rade Cost of C	anital		
International Busines			Per	riod MR 2013		MR		
Cost of Capital - Curr		·	Capital Structure (
	Weight	Cost WxC		Market Cap	203,673.6	83.7%		
3) Equity	83.7%	9.9% 8.3%		ST Debt	6,862.0	2.8%		
4) Debt Cost (A-T)	16.3%	2.3% 0.4%		LT Debt	32,856.0	13.5%		
5) Preferred Equity	0.0%	0.0% 0.0%		Pref. Eqty	0.0	0.0%		
WACC		8.7%		Total	243,391.6	100.0%		
6) History			Economic Value Ad	lded (Millions of	USD)			
	ROIC EVA S	Spread	7) Net Operating F	9,262.00				
18.50 WKC 8.7272			8) Cash Operating		1,054.41			
			NOPAT		1	18,207.59		
9.50 (Y) /)	- M -		9) Total Investme	nt Capital		1,159.00		
			Capital Charge			7,046.38		
	$f \rightarrow VV$	٨						
8.7272: V	'`\	MA AL	Economic Value	e Added	1	1,161.21		
1.50		/ WV	2010			00.40		
8.00			ROIC			22.43%		
2004 2005 2006 2007 Australia 61 2 9777 8600	2006 2009 2010 D Brazil 5511 30	2011 2012 2013 2014 148 4500 Europe 40		49 69 9204 1210 H	lona Kona 852_2	13.75%		
Japan 81 3 3201 8900	Singapore 65	6212 1000 U	.S. 1 212 318 2000	Copyright 2014 MT+1:00 H183-3223-	Bloomberg Fingr	nce L.P.		
				11-1-00-1100-0220-	0 24 160 2014 1	1 01 04		

IBM US \$ Market		~ ^ 5,699,33		30.53/18	85.44 P	2:	κ4		
IBM US Equity 90 S	ettings	97) Acti	98) Outp	ut 🖬 🤧) Feedbacl	C Re	elative Va	aluation	
Comp Source Bloomberg	& Rev. by Inc	dustry - FY2	013	Region GI	obal			Currenc	y USD 💌
1) Whole Firm >				Metric		IBM	Low Co	mp Range	High
2) Information Technolog				Est P/E C	urrent Ye	10.22	8.05 🛶		51.25
3) Infrastructure Software				EV/Est EB		8.23	2.62 —		- 13.18
4) Computer Hardware	_			Revenue		240.66k ·	46.88k 🔶		- 2.13M
5) Commercial Finance				Sales Gro		-4.55	-6.74 🛶		- 111.31
	0 20	40 60	80 100	Gross Mar	-	48.63	12.21 —		86.26
0 News 7 Research		omberg Indu					•	IBM US 🔶 Media	n
21) Overview 22) Comp Sheet	ts 23) Mar	kets 24	EPS Previ	ew 25)0	wnership	26) Credit	27) Cust		
Name	Mkt Cap	Last Px	Chg Pct	Px Chg	Rev - 1	. EPS - 1	P/E	ROE	Dvd Yld 🔺
	(USD)	(USD)	1D	Pct:M-1	Yr Gr:Y		-		
Average	87.59B	81.81	-0.18%	-0.87	8.92%			26.42%	1.91%
100) INTL BUSINESS MACHINE	198.48B	182.79	-0.80%	-2.99	-4.55%			79.15%	2.02%
101) HEWLETT-PACKARD CO	56.67B	29.79	-1.32%	-0.37	-6.70%		9.65	20.95%	2.38%
102) ORACLE CORP	171.35B	38.10	-0.44%	-0.03	0.16%		16.22	25.55%	1.10%
103) MICROSOFT CORP	315.26B	37.98	0.61%	5.00	5.60%		13.36	28.95%	2.69%
104) UNISYS CORP	1.46B	33.34	0.69%	1.65	-6.74%		14.82	N.A.	0.00%
105) SYMANTEC CORP	14.20B	20.53	0.10%	-11.89	2.62%	-31.01%	14.03	15.92%	2.19%
106) CA INC	14.52B	32.42	-0.77%	-5.37	-3.55%	8.38%	12.66	18.90%	3.08%
107) ACCENTURE PLC-CL A	56.82B	83.80	0.50%	-1.33	2.07%		18.43	70.70%	2.08%
108) COMPUWARE CORP	2.31B	10.59	0.38%	0.00	-6.46%	. N.A.	31.57	-1.16%	3.54%
109) COMPUTER SCIENCES CO	9.06B	62.20	-0.24%	11.97	-2.41%		13.70	22.33%	1.29%
110) COGNIZANT TECH SOLUTI	31.22B	102.73	2.06%	3,85	20.37%		25,11	22,36%	0.00%
111) CGI GROUP INC - CLASS	10.17B	32.82	-1.96%	3.89	111.31%		15.60	15.99%	0.00%
112) LEIDOS HOLDINGS INC	3.90B	45.51	-0.48%	-1.88	6.44%	s N.A.	10.17	13.74%	3.87% -
11) Edit Comparables		16) Select			oup by		Zoor	m – —	100% 📼
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Securities Traded in Financial Markets

- Return
 - Expected return from investment
 - Ex post
 - Ex ante
 - Mean of return
- Risk
 - Uncertainty surrounding the expected return
 - More uncertainty surrounding the expected return more risk
 - Standard deviation or variance
 - Coefficient of variation = expected risk (standard deviation)/ expected return (mean)
- Amount of liquidity
- Tax status
- Normally
 - High return with particular preference of low risk and adequate amount of liquidity



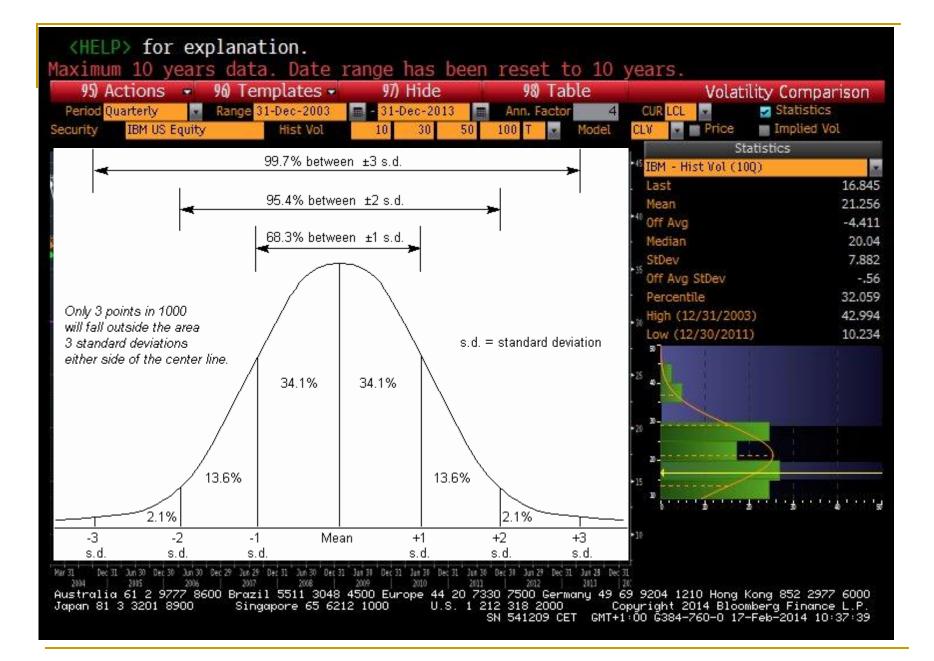




1) Settings 2) Actions Comparative Return Page 1/9 02/27/2004 01/31/2014 Period Monthly No. of Period 119 Month(s) Range τ. Security Price Change Total Return Difference Annual Eq Currency 113.20% 22.25% IBM US Equity USD 83.09% 7.92% 1. 2. SPX Index USD 55.69% 90.95% 6.73% 3. MXEF Index USD 96.04% 157.93% 66.98% 10.01%







Securities Traded in Financial Markets

- Money market securities
 - Only debt securities
- Capital market securities
 - Bonds
 - Mortgages and Martgage-Backed securities
 - Stocks
- Derivative securities
 - Speculation
 - Speculation on movement in value of underlying assets without having to purchase those assets
 - Leverage effect
 - Hedging
- Commodities
- Foreign currencies

Money market

<HELP> for explanation, <MENU> for similar functions.

97) Change Country - 98 Feedback 10:03:48									_	Treasu	ry & Mor	iey Mar	kets: <u>U</u> r	nited	States
1)FED Funds(FOMC))	02/21	US T-Bill B					EUR0\$DEP				Reverse (Bid) Repo (Ask)			
BID/ASK 0.0	600 (00900	4W	0.02+	0.00	0.03	0.02	ЗM		0.1600	0.2600	0/N	0.05		0.02
LST/OPEN 0.0	700 (0.0700	ЗM	0.03 -	0.01	0.04	0.03	6M		0.2100	0.4100	1W	0.07		0.04
HIGH/LOW 0.2	2500 (0.0200	6M	0.07 -	0.01	0.08	0.07	1Y		0.3500	0.5500	2W	0.07		0.04
			1Y	0.10+	0.00	0.11	0.10					1M	0.09		0.06
Dow Jones			S8P	500 Fut	ure			NASDAQ	Compos	ite Index		CRB Con	nmodity In	dex	
DJIA 16103	3.30 -	-29.93	SP)	X Futu	re 18:	36.50	+2.20	CCMP	4	4263.41	-4.13	CRB	3	01.58	+0.33
2) US Bonds (BBT)								Comm F	^o aper	90D EUR\$	5 FUT	Funds F	uture	3) LIBO	R Fix
T 0 ³ ⊗ 01/31/3		0.318)-03 ¹ 4		-03+ -	· 0014	15D	0.160	MAR	99.7625	FEB	99.932	1W	0.11725
T 0 ⁵₀ 02/15/3		0,702	99	9-24+	99	-24 ³ 4	+ 00	30D	0.170	JUN	99.7550	MAR	99.925	1M	0.15550
T 1 ¹ ₂ 01/31/3		1,530		9-27 ⁴ 4		-27+ -	+ 00+	60D	0.190	SEP	99.7300	APR	99.925	2M	0.19595
T 2 🕯 01/31/3		2,169		9-22+	99	-23	+ 00+	90D	0.210	DEC	99.6750	MAY	99.920	ЗM	0.23485
T 2 ³ 4 02/15/3	24	2,730	100)-05	100	-05+ +	00	120D	0.230	MAR	99.5800	JUN	99.920	6M	0.33050
T 3 ⁵s 02/15/4		3.693		3-23+	- 98	-24+	+ 00	180D	0.300	JUN	99.4350	JUL	99.920	1Y	0.55530
4) Spot FOREX (FXC))	Key Rat	tes		Swa										
JPY 10	2.390	Prime	е	3.25	3Y	΄ Ο.	8220		te Future	;					
	L.3765	BLR		2.00	5Y		6385	CBT		125-21+	+ 02		BS (BBTM)		
	L.6657	FDTR		0.25	10		8310	Commo	dities						2-08 + 00
CHF C).8861	Disco	ount	0.75	30	·Υ 3.	6650	NYM \	νTI	102.43			3.5 100-3		
	1.1125							GOLD		1330,50	+6.22	FNMA	3.5 100-	23 100)-24 + 00
30) Economic Re															
	Time (C		Even						P	eriod	Survey	Actua			Revised 🔺
	.4:30 U			-		t Activ	-	dex		Jan	-0.20	-		.16	
	.6:30 U					. Activ	_			Feb	3.0	-		3.8	
· · ·	ι5:00 U	JS	Hous	e Pric	e Inc	lex Mo	M			Dec	0.3%		- 0	.1%	
	.5:00 U					rchase				4Q	1.00%	-		96% 📃	🔻
Australia 61 2 Japan 81 3 3201				5511 30 ore 65			rope 4 U	.S. 1 21	30 7500 12 318 : 4 83146	2000 -		ht 2014	Bloomberg	; Finar	nce L.P.

	0 07/				0.07	000.0	00000						
FDFD	0.070					000/0.			0 070				
At 2/21		Op 0.0			5000		02000	Prev			_		
97) Change Country - 98) Feedback 10:05:16								Trea	sury & I	Money M	arkets: (Germ	any
1) Money Rate	s	Interbank		EURIBOR FI	ix	EUR LIBOR	Fix	Euro Swa	ips		OBL/BUND's		
O/N DEPO	0.000	0/N	0.16500	1M	0.2220	1M	0.19714	1Y	0.3790	0.3840	1Y	0.11	-0.01
O/N LEND	0.750	T/N	0.13000	2M	0.2510	2M	0.22786	2Y	0.4510	0.4510	2Y	0.13	+0.01
1 Week	0.250	1M	0.25000	ЗM	0.2870	ЗM	0.26071	ЗY	0.5990	0.6030	3Y	0.23	+0.02
3M Repo	0.250	ЗM	0.23000	6M	0.3840	6M	0.34143	4Y	0.8105	0.8110	4Y	0.43	+0.02
2) Govt Bonds		6M	0.31000	9M	0.4640	1Y	0.50886	5Y	1.0290	1.0320	5Y	0.69	+0.02
2Y	0.129	9M	0.42000	1Y	0.5470			6Y	1.2380	1.2405	6Y	0.81	+0.02
5Y	0.686	1Y	0.47500					7Y	1.4340	1.4365	7Y	1.04	+0.02
10Y	1.679	Euro FRAs						8Y	1.6120	1.6140	8Y	1.26	+0.02
30Y	2,563	1x4	0.2520					9Y	1.7710	1.7720	9Y	1.51	+0.02
Spot FOREX		3x6	0.2470					10Y	1.9100	1.9119	10Y	1.68	+0.02
€/GBP	0.8263	6x9	0.2470	Futures				20Y	2,5256	2,5300	20Y	2.46	+0.02
€/USD	1.3768	9x12	0.2665	BUND EUX		143.82	-0.05	30Y	2,5830	2,5860	30Y	2.56	+0.01
€/JPY	140.9430	1x7	0.3610	BUXL EUX		127.02	-0.18	EONIA			0.1710	+0	0.0020
		3x9	0.3585	BOBL EUX		126.70	-0.05	Stock In	dices				
BuBills		6x12	0.3700	SCHATZ EU	JX	110.57	-0.01	DAX		9	9645.00	-	11.95
1st 0.09	5 +0.001	12x18	0.4440	EURIBOR		99.74	+0.00	HDAX		Ę	5023.46		-3.20
2nd 0.08	1 +0.007	18x24	0.5730	3M EUX		99.74	+0.00	DAX FU	Т		9645.50	-	-19.00
20 5	:- p-1	(500)											
30) Econom		<u> </u>		_	_	_	Dania	al e		0.04.10	Duiou	Deve	in a d
Date	Time				. _		Perio		rvey	Actual	Prior	Rev	ised 🔺
31) 02/24	10:00		FO Busine				Fe		10.5	111.3	110.6		
32) 02/24	10:00		FO Currer		nent		Fe		12.8	114.4	112.4		
33) 02/24	10:00 (FO Expect				Fe		08.1	108.3	108.9		
34) 02/25	08:00 (GDP SA QO		F	4 20 700	40		0.4%	1210 Harr	0.4%	2077	
Australia Japan 81 3	3201 8900	8600 Braz Sin	31 5511 3 gapore 65	6212 100	Europe 4 10 l	J.S. 1 21;	0 /500 Gen 2 318 2000 831461 CB	0 - 1	Copyright	: 2014 Blō	Kong 852 omberg Fi 4-Feb-201	nance	L.P.

Stocks

IBM US \$ Market	mm han	P180.02/3	185.58P	3×4	
	Vol 5,699,331				
		edback			Description
1) Profile	Issue Info		3) Ratios	.,	nue & EPS
INTL BUSINESS MACHINES CORI					ervices (CCB)
International Business Machi				_	
 of advanced information tech 					-
products, services, software	, and financing.	IBM offers it	ts products	through its global	sales and
distribution organization, as	well as through	a variety o	f third part	y distributors and re	esellers.
[BBGID BBG000BLNNH6]					
7) Price Chart (GP)	8) Earn	(ERN) 9) Es	t (EE)	12) Corporate Info	
MAN	Date 2	2:30 (C)	04/16/14	13) www.ibm.com	
	P/E		11.17	Armonk, NY, United S	States
1 hur a	Est P/E	12/14	10.22	Empls 430,000 (09,	/30/13)
Martin	州 🍃 🖺 Т12М Е	PS (USD)	16.36	14) Management (MG	MT)
. hu w	🗌 🗸 👘 Est EPS		17.89	15) Virginia M Romett	ty "Ginni"
Feb Bar Apr May Jun Jul Ang Sep Oil Non Des	Est PEC	i	1.17	Chairman/Presider	nt/CEO
Px/Chg 1D (USD) 182	2.79/8%			16) Jeanette Horan	
52 Wk H (03/15/13)	215.90 11) Divi	dend (DVD)		Chief Information	Officer
52 Wk L (02/05/14)		oss Yield	2.08%	17) Mark N Wegman	
YTD Change/% -4.7	8/-2.55% 5Y Net	Growth	13.7%	Chief Scientist:Soft	ware Tech
Mkt Cap (USD) 19	8,483.3M Cash 0	2/06/14	0.95	18) 12M Total Ret (TR	A) -7.23%
Shrs Out/Float 1,085.9M/	1,084.3M			Beta vs SPX	0.97
SI/% of Float 26.0	5M/2.46%			20) Depositary Recei	pts
Days to Cover	3.8			Active Receipts	6
Australia 61 2 9777 8600 Brazil 55 Japan 81 3 3201 8900 Singapor	511 3048 4500 Europe -e 65 6212 1000	44 20 7330 75 U.S. 1 212 31	00 Germany 49 8 2000	69 9204 1210 Hong Kong Copuright 2014 Bloomberg	852 2977 6000 # Finance L.P.
			461 CET GMT+	1:00 H183-3223-3 24-Feb	2014 10:34:48
Japan 81 3 3201 8900 Singapor	re 65 6212 1000		8 2000 461 CET GMT+	Copyright 2014 Bloomberg 1:00 H183-3223-3 24-Feb-	g Finance L.P. -2014 10:34:48

IBM US	\$ Mark Prev 182.79		مسر 5,699,33		80.02/185.58P	3	×4	
IBM US Ed		98) Rep		Feedbac	ck		Page 2/4	Description
) Profile		2) Issue In		3) Rati	os	4) Reven	· · · · · · · · · · · · · · · · · · ·
	Offerings (CAC						onal Holdings	
Follow-on	Offering	12/01/6	8, Common	Stock	IPO 11/11/15	# of Inst	. Owners	2,645
	f/Split Adj	50.00k/8	300.00k			Shares 0	wned	710.82M
Share Price	ce/Split Adj	\$ 328.50	/20.53			Shares 0	ut/Float	65.5%/65.6%
Lead Mana	ager	Merrill L	ynch & Co			# of Buy	ers/Sellers	812/1.143k
						Shares S	old	16.58M
9) Issue I	nformation (R	ELS)		10) Eqty	Weights(WGT)	11) Insider	Holdings (OW	N)
Sec Type	Common Stor	ck		SPX	N.A.	% Held by	/ Insiders	0.14%
Pri Exch	New York	PAR U	SD 0.2	INDU	7.290%	Net chan	ge last 6M	-32.83%
Pri MIC	XNYS			RIY	N.A.	12) Top Hol	lders (HDS)	
Incorp	UNITED STATE	ES (NY)		RAY	N.A.	as of	2/23/2014	
SIC Code	7389 (BUSIN	ESS SVC)		S5INFT	N.A.	BERKSHI	RE HATHAWAY 1	I 6.27%
BBGID	BBG000BLNN	H6		OEX	N.A.	STATE ST	REET CORP	5.46%
ISIN	US459200101	.4		RLG	N.A.	VANGUAR	D GROUP INC	5.11%
CUSIP	459200101			SPR	N.A.	BLACKRO	CK	4.97%
SEDOL1	2005973 US	NAICS	541512	BWORLD	0.398%	STATE FA	rm mutual au	1.53%
Common	009703799	WPK #	851399	SVX	N.A.	NORTHER	N TRUST CORP	0 1.40%
		Sicovam	012964	13) OMO	N	BANK OF	NEW YORK MEL	1.29%
				Opt/LE/	Ps/Marginable			
Japan 81 3	Australia 61 2 9777 8600 Brazil 5511 3048 4500 Europe 44 20 7330 7500 Germany 49 69 9204 1210 Hong Kong 852 2977 6000 Japan 81 3 3201 8900 Singapore 65 6212 1000 U.S. 1 212 318 2000 Copyright 2014 Bloomberg Finance L.P. SN 831461 CET GMT+1:00 H183-3223-3 24-Feb-2014 10:35:08							

IBM US \$ Mari			/185.58P	3 x 4	
IBM US Equity	98) Repor	5,699,331 t 99 Feedback		Dage 3/4	Description
1) Profile		Issue Info	3) Ratios	4) Reven	
Fiscal Year End	12/2013	15546 1110	57 Natios	7) Income Statements	
* Last Quarter End	12/13 Q4			8) Balance Sheet (FA	
~ Current/T12M	(USD)			9) Cash Flow (FA CF)	,
Issue Data	~	Per Share Data	\mathbb{M}	Cash Flow Analysis	\sim
~ Last Px	USD/182.79			P/CF	11.4
~ P/E	11.2	~ EPS T12M	16.36	Curr P/FCF	14.4
~ Dvd Ind Yld	2.1%	~ DPS	3.70	CF/NI	1.1
* P/B	8.71	* Bk Val Per Sh	20.99	Dvd P/O	24.6%
~ P/S	2.0	Rev/Bas Sh	91.14	Cash Gen/Cash Reqd	2.2
~ Curr EV/T12M EBITD	9.0	CPS	15.98	Csh Dvd Cov	4.1
~ Mkt Cap	198,483.3M	* Curr Shares Out	1.1B	CFO/Sales	17.5%
~ Curr EV	227,272.3M	FCF/Basic Sh	12.53	Eff IR	1.1%
Growth Potential	\swarrow	Profitability	k	Structure	2
Dil EPS Frm Cont Op 1	6.8%	EBITDA	25.1B	Curr Ratio	1.3
Capital - 1 Year Grow	19.9%	EBIT	18.8B	Quick Ratio	1.0
BVS - 1 Yr Growth	24.4%	OPM	18.8%	Debt/Assets	31.5%
R & D to Sales	6.2%	Pretax Mrgn	19.6%	Debt/Com Eq	174.3%
Retention Ratio	75.4%	ROA	13.4%	A/R Trnovr	3.4
Rev – 1 Yr Gr	-4.6%	ROE	79.2%	Inv Turnover	22.3
Empl 1Y Gr	N.A.	ROC	29.3%	GM	48.6%
Assets - 1 Year Growt		Asset Turnover	0.8	EBIT/Tot Int Exp	46.7
Australia 61 2 9777 8600 Japan 81 3 3201 8900	Brazil 5511 304 Singapore 65 0		318 2000	69 9204 1210 Hong Kong : Copyright 2014 Bloomberg 1:00 H183-3223-3 24-Feb-;	Finance L.P.

Bond

Ι						
IBM 7 ¹ s 12/01/96	Corp				Page 1/11	Description: Bond
		94) Notes	s 💼	95) Buy	96) Sell	97)Settings 📼
21) Bond Description	on 🛛 22) Is	ssuer Description				
Pages	Issuer In	formation			Identifiers	
1) Bond Info	Name	IBM CORP			ID Number	DD1089174
2) Addtl Info	Industry	Software & Serv	vices		CUSIP	459200AP6
3) Covenants 4) Guarantors	Security 1	Information			ISIN	US459200AP64
5) Bond Ratings	Mkt of Is	sue US Domesti	ic		Bond Ratings	
6) Identifiers	Country	US	Currency	USD	Moody's	Aa3
 Exchanges 	Rank	Sr Unsecured	Series		S&P	AA-
8) Inv Parties	Coupon	7.125	Туре	Fixed	Fitch	A+
9) Fees, Restrict	Cpn Freq				Composite	A+
10) Schedules 11) Coupons	Day Cnt	30/360	Iss Price	98.68700	Issuance & Tr	ading
Quick Links	_	12/01/2096			Amt Issued/0	_
32) ALLQ Pricing	MAKE WHO	DLE @15 until 12/	01/96/BULL	ET	USD	850,000.00 (M) /
33) QRD Quote Reca	Issue Spr		vs T 6 ³ ₄ 08		USD	316,390.00 (M)
34) TDH Trade Hist	Calc Type	(1)STREET CON			Min Piece/Inc	rement
35) CAC Corp Action 36) CF Prospectus		ement Date		/03/1996		00/1,000.00
37) CN Sec News		on Date		/01/1997	Par Amount	1,000.00
38) HDS Holders		e Notice Date		/21/2012	Book Runner	SAL
39) VPR Underly Inf	_	Expiration Date		/18/2012	Reporting	TRACE
		: 12/1/2096. CALL				
66) Send Bond						
Australia 61 2 9777 8 Japan 81 3 3201 8900	3600 Brazil Singag	5511 3048 4500 Euro oore 65 6212 1000	U.S. 1 21;	2 318 2000 -	Copuriaht 2014	long Kong 852 2977 6000 Bloomberg Finance L.P. 3 24-Feb-2014 10:10:40

S				
IBM 7 ¹ s 12/01/96	Corp		Page 3/11	Description: Bond
		94) Notes 💼 🧾 95) Buy	90 Sell	97)Settings 📼
21) Bond Description	on 2	Issuer Description		
	Covena	ants		
1) Bond Info	51) 📃	Negative Pledge		Yes
2) Addtl Info		Change of Control		No
3) Covenants 4) Guarantors		Fundamental Change		No
5) Bond Ratings		Limit of Indebtedness		No
6) Identifiers	· —	Cross Default		No
) Exchanges		Negative Covenant		Yes
8) Inv Parties		Certain Sales of Assets		Yes
9) Fees, Restrict		Restriction on Activities		Yes
10) Schedules 11) Coupons		Debt Service Coverage Ratio		No
Quick Links		Free Cash Flow To Debt Service Ratio		No
32) ALLQ Pricing		Restrictive Covenant		Yes
33) QRD Quote Reca		Merger Restrictions		Yes
34) TDH Trade Hist		Limitation on Sale-and-Leaseback		Yes
35) CAC Corp Action		Limitation on Subsidiary Debt		No
36)CF Prospectus 37)CN Sec News		Restricted Payments		No
38) HDS Holders		Ratings Trigger		No
39) VPR Underly Inf		Collective Action Clause		No
		Material Adverse Change Clause		No
66) Send Bond		Force Majeure		No
Australia 61 2 9777 8 Japan 81 3 3201 8900	3600 Bra:	zil 5511 3048 4500 Europe 44 20 7330 7500 Germany 49 69 9	9204 1210 Hor right 2014 B] H183-3223-3	

I									
IBM 7 ¹ s 12/01/96	5 Corp		Page 5/11 Description: Bond						
	94) Notes	95) Buy	96) Sell 97) Settings 📼						
21) Bond Description 22) Issuer Description									
Pages	Bond Ratings								
1) Bond Info	Agency/Type	Bond Ratings	Effective Date						
2) Addtl Info	MOODY'S								
3) Covenants 4) Guarantors	Bond Rating	Aa3	11/23/2010						
5) Bond Ratings									
6) Identifiers	STANDARD & POOR'S	!							
7) Exchanges	Bond Rating	AA-	05/30/2012						
8) Inv Parties									
9) Fees, Restrict	FITCH								
10) Schedules	Bond Rating	A+	05/30/2007						
11) Coupons Quick Links	Recovery Rating	NR	05/30/2007						
32) ALLQ Pricing	Recovery Rating	INIX	03/ 30/ 2007						
33) QRD Quote Reca	BLOOMBERG COMPOSITE								
34) TDH Trade Hist		۸.	05 (30 (3013						
35) CAC Corp Action	Bond Composite	A+	05/30/2012						
36) CF Prospectus									
37) CN Sec News	Egan-Jones Ratings Company								
38) HDS Holders	Bond Rating	AA+	10/17/2013						
39) VPR Underly Inf									
66) Send Bond	DUFF & PHELPS								
	Bond Rating	NR	06/01/2000						
Australia 61 2 9777 3 Japan 81 3 3201 8900	8600 Brazil 5511 3048 4500 Europe Singapore 65 6212 1000	44 20 7330 7500 Germany 49 U.S. 1 212 318 2000 SN 831461 CET GMT+	9 69 9204 1210 Hong Kong 852 2977 6000 Copyright 2014 Bloomberg Finance L.P. ⊧1:00 H183-3223-3 24-Feb-2014 10:13:37						

6									
S IBM 7 ¹ s 12/01/96	Corp					Page 7/11	Descrip	tion: Bor	nd -
1DP1 / g 12/01/70	corp	94) Notes		95) Bu		90 Sell	_	Settings	
21) Bond Descriptio	11) Jacuar			7J/ DU	ly j	JU Sell		Jettinga	
· · · · ·			dina Infana						
1) Bond Info	Exchanges, Iss			lation					_
2) Addtl Info	Clearing House		Exchange	_		e Mkt Segn	nent		
3) Covenants	TRACE ELIGIBL	.E	FRANKFUR		XFRA				
4) Guarantors			NEW YORK		XNYS				
5) Bond Ratings									
6) Identifiers									
7) Exchanges									
8) Inv Parties									
9) Fees, Restrict									
10) Schedules									
11) Coupons									
Quick Links									
32) ALLQ Pricing 33) QRD Quote Reca									
34) TDH Trade Hist									
35) CAC Corp Action									
36) CF Prospectus									
37) CN Sec News									
38) HDS Holders									
39) VPR Underly Inf									
66) Send Bond									
Australia 61 2 9777 80	 600 Brazil 5511 3	048 4500 Euro	pe 44 20 7330) 7500 Germa	any 49 69 9	204 1210 Hor	na Kona <u>85</u>	2 2977 600	
Japan 81 3 3201 8900	Singapore 65	6212 1000	U.S. 1 212	2 318 2000 831461 CET	Copyr CMT+1:00	ight 2014 B) H183-3223-3	loomberg F	inance L.M	P.
			SI	001401 021	001111100	1100 0220-0	27 1 26 20		

Commodity - gold





BOXPBE85 13	38.08 As Of 02/21/14 USD/cwt
	rk Belly Cut 200 Lbs Spot Price
BOXPBE85 Index	1) News Index Description
USDA Boxed Pork	Belly Cut 200 Lbs Spot Price
2) Notes	
	a transition from voluntary reporting to mandatory. The numbers will reflect the
	April 11, 2013 {http://www.ams.usda.gov/mnreports/lm_pk602.txt} *As of Jan.
	eld calculations are based on a 200-lb carcass Commodity: Pork Cut, Belly
Details	4) Price Chart (GP)
Ticker	BOXPBE85 Index
Quote Type	Price
Unit	USD/cwt T High in (8/07/13 189.95 + Average 141.89
Currency	
Country	UNITED STATES
BBGID	BBG002SGLS04
Price Frequency	
Last Update	02/21/14
Update Status	Latest data available from the source
Start Date	01/05/98
	-120
Current Source	3) United States Department of Ag
History	Close
End Of Week	
	Har has the last for the last f
Quetralia 61 2 0777	8600 Brazil 5511 3048 4500 Europe 44 20 7330 7500 Germany 49 69 9204 1210 Hong Kong 852 2977 6000
Japan 81 3 3201 8900	Solo Brazil 3511 3048 4300 Europe 44 20 7330 7300 Germany 49 69 9204 1210 Hong Kong 832 2977 6000 D Singapore 65 6212 1000 U.S. 1 212 318 2000 Copyright 2014 Bloomberg Finance L.P. SN 831461 CET GMT+1:00 H178-3612-0 25-Feb-2014 10:18:55



Valuation of Securities in Financial Markets

- Each type of security generates a unique stream of expected cash flows to investors
 Capital gain, income
- Each security has a unique level of uncertainty surrounding the expected cash flows
- Valuation of securities = present value (PV) of its expected cash flows
 - Discounted at a rate that reflects the uncertainity

Impact of Information on Valuations

Exhibit 1.2 Use of Information to Make Investment Decisions

Information on Economic Conditions

> Information on Industry Conditions

Firm-Specific Information • Information Provided by Firm

 Information Provided by Other Sources

Source: Madura, J.: Financial Markets and Institutions, 9th Edition

Assessment

of Firm's

Expected

Cash

Flows

Valuation

of

Security

Related to Firm Decide

Whether to

Take a

Position in

Security

- Many regulations were enacted in response to fraudulent practices before the Great Depression
- Asymmetric Information
 - Adverse Selection
 - Morale Hazard
- In financial markets, one party often does not know enough about the other party to make accurate decision
 - Lack of information creates problems in the financial system on two fronts:
 - Before and after transaction

Adverse selection

- The problem created by asymmetric information before the transaction occurred.
- This occurs when the potential borrowers who are the most likely to produce undesirable (adverse) outcome – the bad credit risk – are the ones who most actively seek out a loan and are thus more likely to be selected.
- Because adverse selection makes it more likely that loans might be made to bad credit risks, lenders may decide not to make any loans even though there are good credit risks in the market place.

Moral hazard

- It is the problem created by asymmetric information after the transaction occurred.
- Moral hazard in financial markets is the risk (hazard) that the borrower might engage in activities that are undesirable (immoral) from the lender's point of view, because they make it less likely that the loan will be paid back.
- Because moral hazard lowers the probability that the loan will be repaid, lenders may decide that they would rather not make a loan.
- Moral hazard leads to conflicts of interest

Six types of regulations.

- 1. Restriction on entry
- a 2. Disclosure
- 3. Restriction on Assets and Activities
- 4. Deposit insurance
- **5.** Limits on Competition
- G. Restriction on Interest Rate

Disclosure

- Incorrect information poor investment decision
 - Attempt to ensure that businesses disclosure accurate information
- Disclosure information is available only a small set of investors that have major advantage
 - Goal to provide all investors with aqual access to information
- Regulatory Response to Financial Scandals
 - □ 2001 2002
 - Sarbanes-Oxley Act
 - The limited financial disclosure by firms is a major reason why there is much uncertainty surrounding their valuations

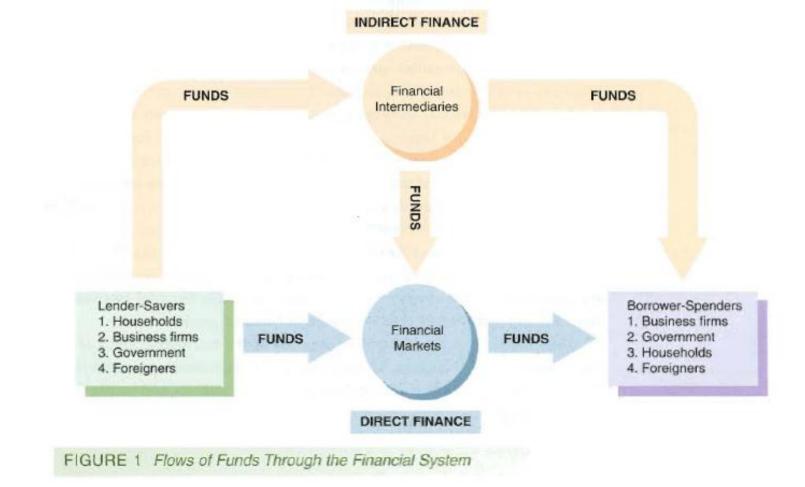
Global Financial Markets

- Improve of international transfer of funds between surplus and deficit units
- Some countries have had financial market form a long time but there are also new market of transitive economies – emerging markets
- Slow develop of financial markets in developing countries
 - Lack of information
 - Low confidence in markets
 - Rare of prosecution
 - Low efficiency of fund channeling

Perfect market E. Fama 1970's

- Characteristic of perfect markets
 - All information about any securities are available
 - You can buy any size of security
 - No existence of transactional costs
 - $\square \rightarrow$ financial intermediaries are not necessary
- Markets are imperfect
 - Information are not perfectly and freely available
 - Surplus unit are not able to identify creditworthiness of borrowers
 - Individual contracts are expensive

Direct and Indirect Financing



Role of Financial Institutions

Financial institutions

- Depositary Institutions
- Non-depository Financial Institutions

Why are financial intermediaries and indirect finance so important?

Transaction Costs

- Transaction costs, the time and money spent in carrying out financial transactions, are a major problem for people who have excess funds to lend.
- Financial intermediaries can substantially reduce transaction costs because they have developed expertise in lowering them, and because their large size allow them to take advantage of economies of scale.
- For example
 - A bank knows how to find a good lawyer to produce loan contract, and this contract can be used over and over again in this loan transactions, thus lowering the legal cost per transaction.

Why are financial intermediaries and indirect finance so important?

Risk Sharing

- Another benefit made possible by the low transaction costs of financial institutions is that they can help reduce the exposure of investors risk.
- Financial intermediaries do this through the process known as risk sharing.
- They create and sell assets with risk characteristics that people are comfortable with. The intermediaries then use the funds they acquire by selling these assets to purchase other assets that may have far more risk.
- Asset transformation

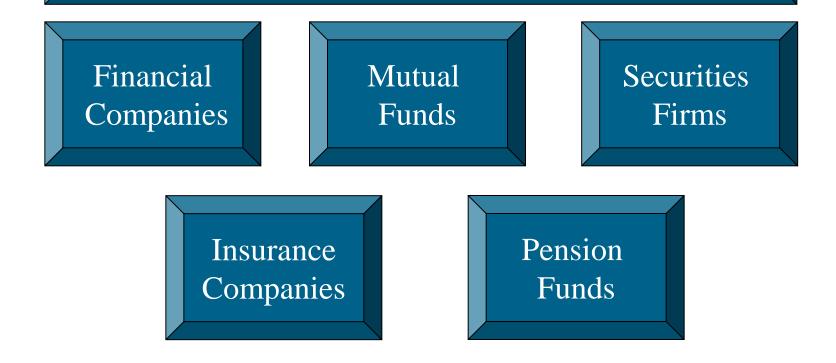
Depository Insitutions

- Accept deposit → provide credit → purchase securities
- Offer deposit account
- Repackage funds to provide loans
- Accept risk
- Expertise available
- Diversification

Types of Depository Financial Institutions

Commercial Banks \$5 Trillion Total Assets Savings Institutions \$1.3 Trillion Total Assets Credit Unions \$.5 Trillion Total Assets

Types of Nondepository Financial Institutions



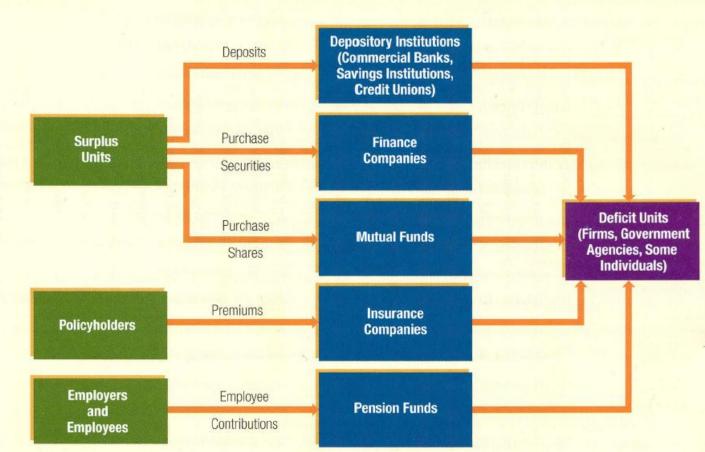
Nondepository Financial Institutions

- Focused on capital market
- Longer-term, higher risk intermediation
- Less focus on liquidity
- Less regulation
- Greater focus on equity investments

Comparison of Role among Financial

Institutions

Exhibit 1.3 Comparison of Roles among Financial Institutions



Source: Madura, J.: Financial Markets and Institutions, 9th Edition

Summary of Institutional Sources and Uses of Funds

Exhibit 1.5 Summary of Institutional Sources and Uses of Funds

FINANCIAL INSTITUTIONS	MAIN SOURCES OF FUNDS	MAIN USES OF FUNDS
Commercial banks	Deposits from households, businesses, and government agencies	Purchases of government and corporate securities; loans to businesses and households
Savings institutions	Deposits from households, businesses, and government agencies	Purchases of government and corporate securities; mortgages and other loans to households; some loans to businesses
Credit unions	Deposits from credit union members	Loans to credit union members
Finance companies	Securities sold to households and businesses	Loans to households and businesses
Mutual funds	Shares sold to households, businesses, and government agencies	Purchases of long-term government and corporate securities
Money market funds	Shares sold to households, businesses, and government agencies	Purchases of short-term government and corporate securities
Insurance companies	Insurance premiums and earnings from investments	Purchases of long-term government and corporate securities
Pension funds	Employer/employee contributions	Purchases of long-term government and corporate securities

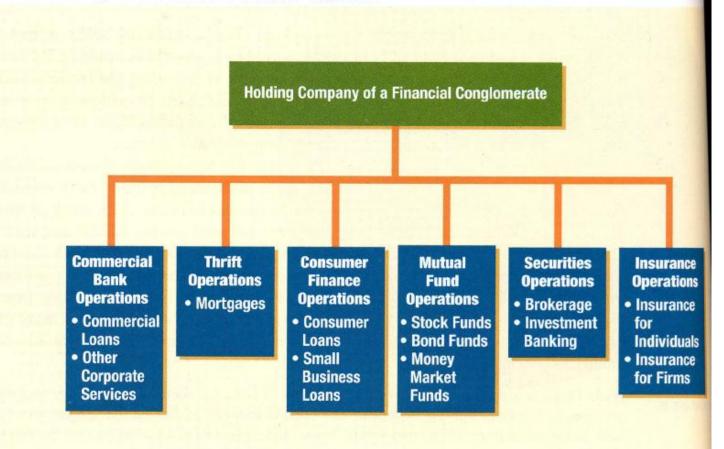
Source: Madura, J.: Financial Markets and Institutions, 9th Edition

Consolidation of Financial Institutions

- Rapid growth of mutual funds and pension funds
- Increased consolidation of financial institutions via mergers
- Increased competition between financial Institutions
- Growth of financial conglomerates

Typical Structure of a Financial Conglomerate

Exhibit 1.6 Organizational Structure of a Financial Conglomerate



Source: Madura, J.: Financial Markets and Institutions, 9th Edition