2019 Spring tinancial Economics 2019.2.18 Lec 1 Introduction 1.1 What is financial conomics (FE)? What is finance? - Mocation of financial assets

- Time dains of future evenomic values.

- Uncertainty Financial Economics VS. Smonetary event 1.2 Logic Framework

Market \_\_\_\_\_ Behavior Finance

efficiency?

Light finance Smonetary evenomics Junds Suppliers investment funds Denanders

(asset buyers) return (asset sellers) \_ asset demand and supply \_ derived from human behaviors (inter-temporal, uncertainty) corporate finance - Equilibrium pricing - No Arbitrage Pricing - Financial Frictions (Financial intermediaries)

1.2.1 Assets and Rate of return on assets - assets: claims of future evnomic values Current Price Future Payoff

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Yu 1-8 × d - Asset Priany (Xu, Xd) => p? How to forecast Xu, Xd? - A much broader topic than [-E! - Rate of return  $ru = \frac{Xu}{p} - 1$ ,  $rd = \frac{Xd}{p} - 1$ E(F) = &ru + (1-9) yd  $=\frac{9}{9}\left(\frac{x_{4}}{p}-1\right)+(1-\frac{9}{9})\left(\frac{x_{d}}{p}-1\right)$ = [ [ ] Xu + (1- \ ) Xd] - 1  $= \frac{E(\tilde{X})}{P} - 1$ - Asset Pricing  $(Xu, Xd) \Rightarrow E(\tilde{Y})$ ? higher P ( ) (ower E(r) , Box 1-1: Whose rate of return is higher, "'Sood" assets or "bad" assets?

(1) Equilibrium Pricing (Absolute Pricing) asset price - demand and supply human behavior (under uncertainty) - What is risk? - How to measure rist? (high, low)
- How to measure people's altitude towards risk? (visk aversion, visk neutral, visk lavig)
- How people behave under visk? (Mean-Variance Box 1-2: St. Petersberg paradox (ApM)

Nicolaus Bernoulli  $\frac{1}{2}\times 1+\frac{1}{4}\times 2+\cdots+\frac{1}{2^n}\times 2^{n-1}=\frac{1}{2}+\frac{1}{2}+\cdots=\pm 12$ Box 1-3: \* Fp (more visk owerse) vs. J.Z Stock A (low return, low risk) Stock B (high return, high risk) (holding of B) P = (holding of B) 2. riskfree asset Psteel 2 15 Ppharmaceutical Potal Vs. Ppharmaceutical 7

1.2.2 No-Arbitrage Pricing (Relative Pricing) Loop: Law of One Price Arbitrage: violation of Loop =) riskfree profit P(hamburg coke set) = P(hamburg) + P(coke) Replication > Hedge Box 1-4: Pricing of a magic box Vbox = 2% (risk free) rmarket = 3% (derivative) - N.A. pricing (risk-neutral pricing, mortingale method) - Absolute pricing vs. Relative pricing - Equilibrium => N.A. (NOT vice versa) 1.2.) Financial Frictions and Financial Contract - Frictions (mainly informational frictions) in Corporate Finance investment, financing, dividend.

capital structure in Financial Intermediaries banks, tinancial crisis

BOX 1-5: Will internet eliminate financial intermediaries? 1.2.4 Market efficiency and behavior finance Fama vs. Shiller 2013 Nobel Prize Behavior Finance [ Irrationality
Limited Arbitrage Box 1-6: Can we find a lo-dollar bill on the ground? Grossman - Stiglitz paradox Box 1-7: Behavior Stas - Over-confidence - Disposition effect (related to mutual funds in A-share market) 1.3 Financial Economics in Economics - Finance Vs. Economics Leguilibrium L N.A. Theory (more like engineering) - Economists vs. Investors

L positive (be)

normative (ought to be) Teaching Objectives . Financial theories and methods , Financial Vocabulary , Financial Thinking

Lec 2 Overview of Financial Markets 2.1 tunctionalities of financial markets Trading financial assets (financial instruments, securities) · Price discovery · providing liquiditi Lower transaction asts 2.2 Classification of financial markets , egutty market vs. fixed - income market primary Us. Secondary , spot vs. devivative (futures, options) , exchange market US. OTC market (centratized bidding) Main financial institutions depository (banks) non-depository (investment banks, funds...) , regulators (central bank, CSRC, CBRC ...) China's financial markets Dominated by S banks indirect finance (bank loans) debt financing