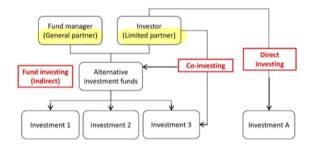
# Afternative Investments

## 1. Introduction

- 1) Characteristics
  (1) Higher return
  - 1 D Low correlation
    - 3 less regulation/transparency
    - @ marrow manager specialization
  - \* 5 limit historical data
  - \* O Unique legal & tax consideration
  - \* 1 Higher feas
    - 1 concentrated portfolio
    - 1 restriction & redemptions

### 2) Methods



· 采用 Indirect·Nethods

ADV: ①用少量混乱即可发方

@可以多段小样多数风险(Diversiftcanim)

DISADV: O Feest

O COD on Fund

· 采用 Direct Methods

ADV: O Fees Th & Flexibility

② 对Asser 言他的挖刺板

DISADV: O 需要当例他 回只能改成样。diver的说

③ CDD要本高导级多个Axed.

① 基础投资较等大

· 和混合就

ADV: @ WGPAGAZUANK

DISADV: O PRANJARE @ Adverse selection Bias

#### [ Performance]

- ① Sharps ratio: CTp-f)/3p.
  坦. 由于. A) return 的名子p手teskewed sharp共居
- O Sortino ratio: ctp-1f)/3d.
  st Sharpe在13正、担格表表层与限统的corelation
- Treynor ratio CTp-If>/βp

   Anot 较级、强气 5 Tp. 5 systementic risk.
- @ PE: muttiple of invested capital (MOIC) & money muttiple
- @ Real-estate: Corpitalization rate/cap rate

# 2. Hedge Fund.

1) Characteristics

magin calling thoses

a Aggressively managed

- @ Aim at high returns . with few restrictions
- @ Limited no. of investors + large Initial Invest
- · Lockup + notice period.
- 2) Fund-of-Funds
  - thi: Diversified

海: more complex fee structure

- ·更阳丽赎国圣件
- · Higher total costs
- · Accessible to netallers
- · CDD
- 5) Strategies morter

Market Nectral)

@ Macro

- 1) Zvewr-driven
- @ Zquity Hodge Bottomup
- @ Relotive value ( TAX Fixed morne.)
- 4) Fees
- ① Management fee: 固定比例 煮满挖期初步追溯末阳 Value?
- @ Incentive fee:

{(Profit - management fee) x a/.
| Profit x a//.

特殊 { High watermark > 选节新期高水拉丁草 Hurdle rote { Hard > 选过 Hurdle T草

- 图定别代费用 Soft 与超过thurdlemax
  - a. liquidity & Size & Performance影响起用
  - b. Founder's shares (代達)
  - C. "Bither/or" 着 management & Incentive 明代意

5) Valuation

① Common approach: bid + ask.

@ Conservative: bid for ling & ask for short

无 market price Ht, 可能.

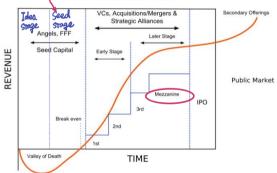
- O "mark-to-model" bais
- @ \$T63 return
- @ TETTS Volatility

3. Private Equity

OVC -> Start-up-private company

②LBD → mixture - public company Smanagement buyonus Birlus management buy-ins 走多換格

VCルルは千代位 ( Startup Financing Cycle



#### [追出加納]

OIPO @ Trade sale 真花行城内状间

- ③ Secondary Sales 表统教的PT
- @ Recapitalization & write-off/liquidation

#### [烟壶与风险]

- 1 Higher return @ ibliquedy & leverage risks
- @ swivership bias a backfill bias
- @ 容易取化 volatility & correlation

[FEBs]

Tob invested capital "x

- 1 management fee: on committed capital
- 3 Incentive fees.
  - 1) Water falls
    - · American waterfalls (deal-by-deal) 每「deal 草莓 incentives 不是美丽的如此是法院 中张翔 moprofits - 梅山 GP
    - · Zurgean waterfalls (whole-of-funds) 程序如为后。张子文中对对 村城一百年114
- => Claw back provision

"claim part of the G.P's performance"

>> Cortch-up clause 7/25 "Soft hurdle" & - 3/21

Example: GP profits with a catch-up clause



GP earns 2%+1.6%=3.6% (18%×20%=3.6%)

> > // × /8// JPR

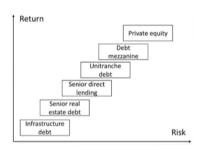
Example: GP profits without a catch-up clause



= 20/x () fR- hundle rate)

## LPD]

- · Direct landing
- · Ventue debr-
- · Mezzanine debt
- · Distressed debt



# 3. Other Afternative Investment

- 1° Commodities
  - Dades 用 future是所 Commodities King
  - >) Benefit
    - · hedge against inflation tisk
    - · low correlation & Diversified
  - 5) Pricing:  $F = S_0 \times CI + \Gamma)^T + C I$ [Contago:  $F > S_0 \cdot (C > 1.)$

Bockwordoution: F<So >(1)

2° Land > interpretional competitive context

· low liquidity · high fixed costs

· weather us. CTs & revenue. large sites

1) Timberland: Flexibility April 22 Health of Flexibility

2) Farm land: Hedge inflation & less Flexibility
(rigidity of production)

#### 3" Real-estate. →直接及资本的流动的校

· Approisal Index: ada. Tritte &

· repeat sales index: sample selection bias

· RETT index: "public traded shares of RZVTS" (於南下行地enrelation) is more frequently traded = reliable.

REITS 经投资有分为无的处税前烟益

· Ital capitalitation rate if superformance.

#### 4º. Infrastucture.

· PPPs

& Brownfield: low risk & stable prospects greenfield: Higher risk & High prospects for t