Risk in technology stock investment

• Winner? Consistent winning? 4+4+2?

• Derivative(衍生工具)/ Margin(孖展)/ Shortsell(抛空)*?

• Dead tech stocks?

Topics

- Tech stocks different?
 - Business
 - Share price

Common mistakes

Winning homework

Tech company characteristic 1

• Semicon(半導體)/ Hardware(硬件), software(軟件), internet(互聯網), solar(太陽能)....

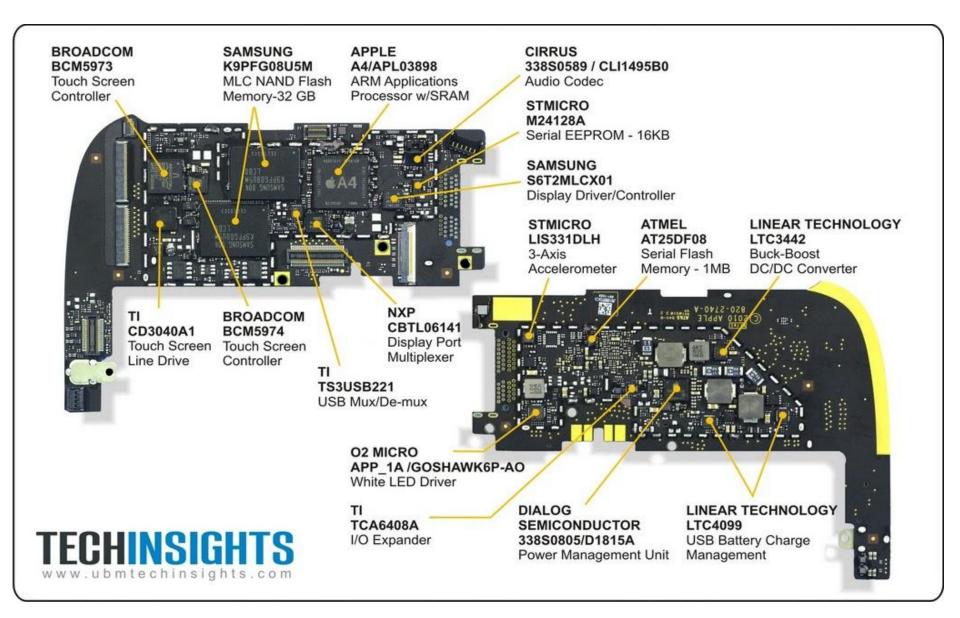
- Technology transition(技術轉型)very critical
 - Missing a wave implies missing a generation

- Product not easily observable
 - Teardown(拆除)or tear down(拆解)

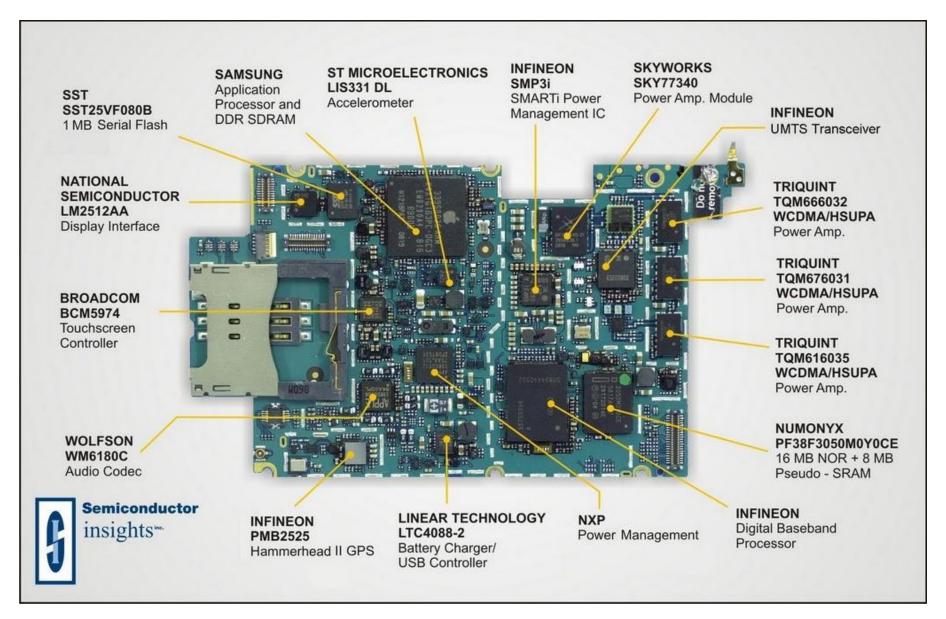
Teardown or Tear down 拆除或拆解



What is this?



What is this?

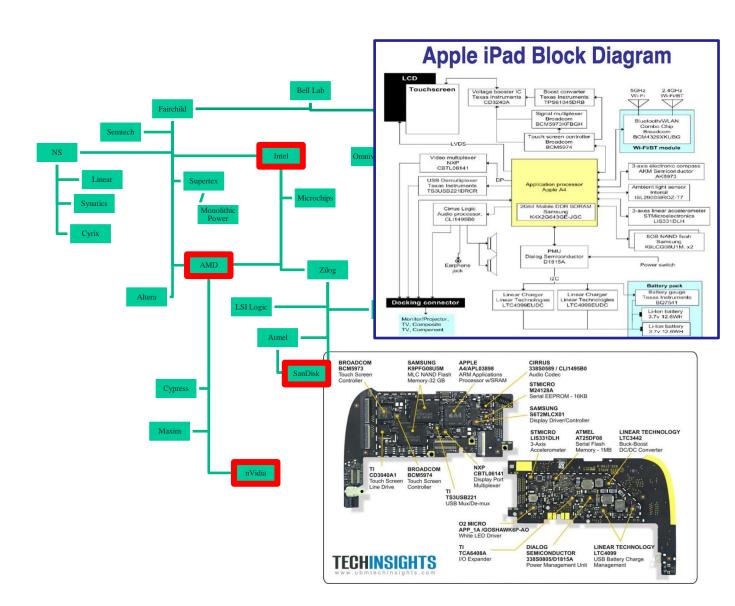


Real homework



- H-H
- Q-Q
- M-M

• 4Q-4Q



Tech company characteristics 2

- IP(知識產權)/ Patent(專利)understanding
 - Challenging to outsiders

- Business extremely scalable
 - Scale up(擴大規模)and scale down(縮減規模)fast

- Very long supply chain(供應鏈), many layers
 - Difficult to understand & many turning points...

Isaac Newton(牛頓)

1st Law: Inertia → common sense

惰性 → 常識

 2^{nd} Law: $F=\text{ma} \rightarrow \text{turning point}$

力量=重量 X加速→轉捩點

3rd Law: Action & Reaction Force

力量與反力量





Second derivative(二階導數)

- point of Inflection

S

-

Displacement

dS/dt

→

Velocity

 d^2S/dt^2

→

Acceleration or

Deceleration







Tech company characteristics 3

- IPO due diligence(首次公開招股的盡職審查), auditors(核數師)
 - Even analysts may make serious mistakes

- Aggressive accounting
 - Revenue recognition, depreciation, R&D
 Capitalization, expenses definition keep changing

Tech company share price 1

- Highly volatile
 - Misunderstanding leads to panic selling/buying

• 1 star company rise, 9 losers sink

- Less correlated with general market direction
 - Company specific issue dominating

Change from beta to alpha



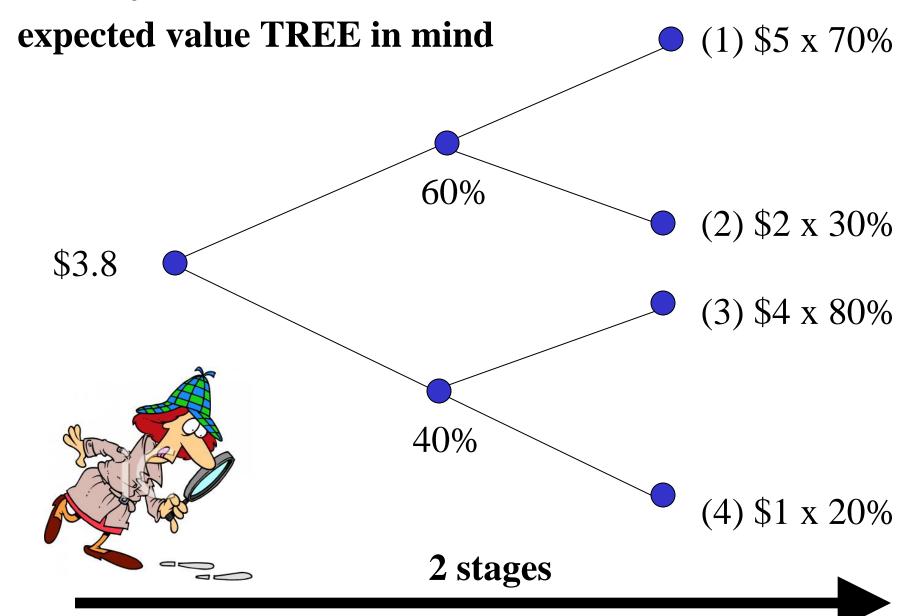


Tech company share price 2

 Highly related to design-win, less affected by policy, more affected by innovation

- Valuation method extreme
 - High P/E for dream company
 - Low P/E for low growth company
- Skillful institutional investors active participation
 - Risky!!

risk-adjusted return(已調整風險回報)



Blue chip vs Tech stocks





Common mistakes 1

- Defects in traditional valuation methods
 - DCF, historical P/E, forward P/E

- Price revert to mean
 - Range trading in the past

- Value trap
 - Low P/E, Low ex-cash P/E, Low P/B

Common mistakes 2

- Asset value, Capex, Inventory value
 - Legacy product, facility, machines...

- Too local view
 - Country view, not connecting to sector

Overlook catalyst time table

Homework besides Annual Report....

Exhibition

Shopping





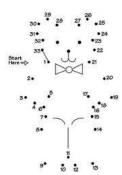
Industry report

legal

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mosaic





illegal

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evil a



Transformation



Blame
Exposing in β

Study
Seeking C

Shortselling & Shortsqueezing 拋空與挾淡倉

