From San Francisco Bay Area To The Greater Bay Area

從「三藩市灣區」到「粵港澳大灣區」 點滴分享

Dr. Patrick Hung

8 October 2020

Overview

- Background
- Some Stanford Start-ups
- Silicon Valley Myth vs Facts
- Replicating SF Bay Area?
- Challenges & Opportunities
- Positioning of HK



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Personal Background

- Undergraduate (EE) in Hong Kong
- Stanford University from 1995 to 2009

– MSc, PhD (EE)

- Consulting Faculty (2004-2009)
- Experiences in USA, UK, China, Japan, Hong Kong
 - Start-up & Fortune 500 Experiences

This Talk

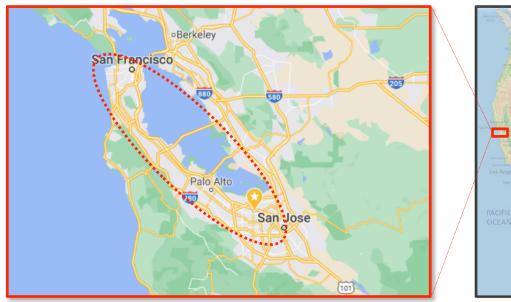
• Sharing some Start-up & Working

Experiences in Different Countries

Exploring High-Tech Opportunities in

Hong Kong

San Francisco Bay Area





- Municipality:
- Population:
- Average Engineer Salary:
- GDP/Capita:
- Gender Ratio (Singles):

9 Counties 7.7M US\$145K US\$104,166 1.14 (M) : 1.00 (F)

The Greater Bay Area



- Municipality:
- Area:
- Population:
- Economy:
- GDP/capita:

11 Major Cities
3x San Francisco Bay Area
66M
US\$1.3T (12% of China)
US\$20,255 (20% SF Bay Area)

The Greater Bay Area Cities

- Anchor Cities
 - Hong Kong
 - Shenzhen
 - Macau
 - Guangzhou

- (香港) Global Finance
- (深圳) Innovation
- (澳門) Entertainment
 - (廣州) Manufacturing
- Supporting Cities
 - Dongguan (東莞)
 - Huizhou (惠州)
 - Zhuhai (珠海)
 - Zhongshan
 - Jiangmen
 - Fushan
 - Zhaoqing

(中山)
(江門)
(佛山)
(肇慶)

Operational Differences

	HONG KONG	USA	CHINA
Incorporation	1 week	1 month	3 months+
Bank Account	1 – 2 months	1 month	3 months+
Foreign Currency	Minimal Control	Minimal Control	Tight Control
Tax Returns	Annual	Annual	Monthly
Audit	Annual	Not Mandatory	Annual
Law System	Common Law	Common Law	Continental Law
Winding up	~2 months	~2 months	3 – 6 months
Employee Benefits	MPF	Social Securities + Insurances	MPF + Insurances 五險一金

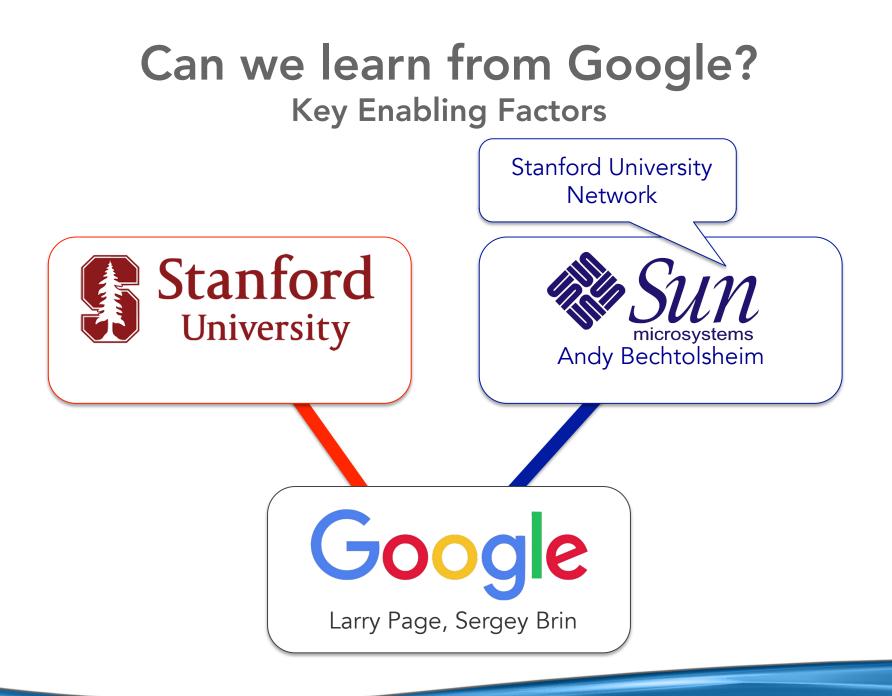
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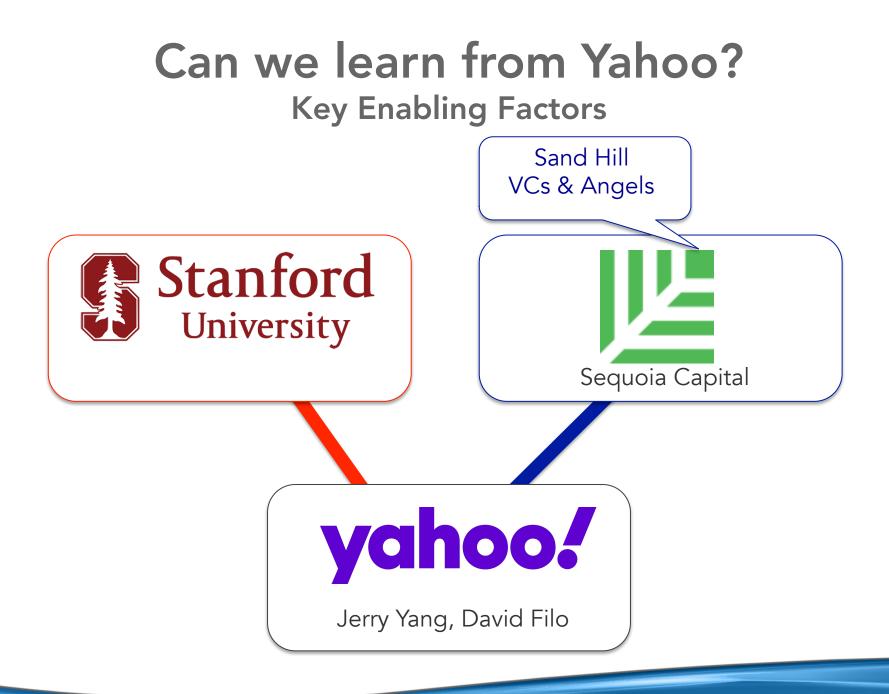
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Unicorns – \$1B start-ups Why so many "Stanford" Unicorns?

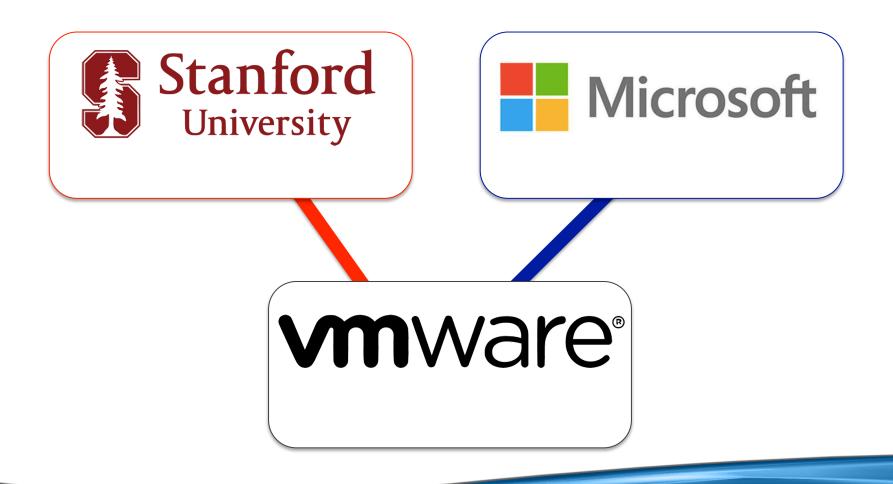
Stanford University (US)		
Harvard University (US)		
University of California (US)		
Indian Institutes of Technology (India)		
Massachusetts Institute of Technology (US)		
University of Pennsylvania (US)		
University of Oxford (UK)		
Tel Aviv University (Israel)		
Cornell University (US)		
University of Southern California (US)		
University of Waterloo (Canada)		
INSEAD (France)		
WHU (Germany)		
University of Michigan (US)		
Brigham Young University (US)		







Can we learn from VMware? Key Enabling Factors



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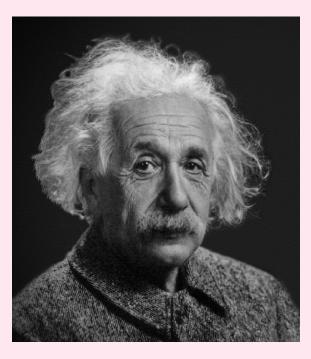
Myth #1

"Hong Kong Students are less creative than US counterparts."



Myth #2

"Hong Kong Students are not as Smart as the best US students."



Myth #3

"Hong Kong Students do not have much Entrepreneurial Spirit."



Fact #1 – Success Ingredients

"Silicon Valley encompasses many YOUNG, DIVERSE, SMART and DRIVEN engineers."



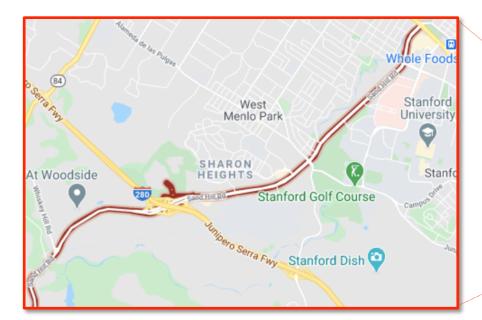
Fact #2 – Less Red Tapes

"We train and house these creative minds, and it is only fitting that we invest in their future success."

- then Stanford President John Hennessy



Fact #3 – Easy Access to Funding Numerous Tier-1 VC Firms on Sand Hill Road



- Astellas Venture Management
- Altos Ventures
- Khosla Ventures
- Canaan Partners
- Altimeter Capital
- GI Partners
- 5AM Ventures
- Lightspeed Venture Partners
- The Westly Group
- Nexus Venture Partners
- Greylock Partners
- Highland Capital Partners

- DCM Ventures
- Shasta Ventures

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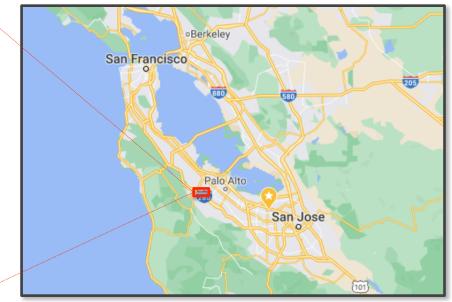
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- Storm Ventures
- Mayfield Fund
- Onset Ventures
- GGV Capital
- The Blackstone Group
- Accel-KKR
- Morgenthaler
- InterWest Partners
- U.S. Venture Partners
 - Kleiner Perkins



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- TriplePoint Capital
- Makena Capital Management
- Silver Lake Partners
- Kohberg Kravis Roberts
- Sofinnova Ventures
- New Enterprise Associates
- Andressen Horowitz
- Charles River Ventures
- Draper Fisher Jurvetson
- Battery Ventures
- Sierra Ventures
- Institutional Venture Partners

- Mohr Davidow Ventures
- Menlo Ventures
- Storm Ventures
- Redpoint Ventures
- Relay Ventures
- Sequoia Capital
- Trinity Ventures
- Columbus Nova
- Bright Capital

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Cities replicating Silicon Valley

- Places with Limited Success
 - Australia (Gold Coast)
 - UK (M4 Corridor)
 - France (Paris Station F)
 - Boise (Idaho)
 - Canada (Montreal)
 - Singapore
- The Greater Bay Area is too different
 - It's MEANINGLESS REPLICATING SF Bay Bay Area here

The Greater Bay Area

- Unlike the SF Bay Area, the Greater Bay Area is a very attractive market by itself
 - Population > 66M (~ Britain)
 - GDP/capita > US\$20K (2x Middle Income Trap)
- The Greater Bay Area does not have similar number of Angel and VC investors.
- There is no need to replicate Silicon Valley.
 - As long as we MOTIVATE a large number of YOUNG, SMART, DIVERSE and DRIVEN technologists, the Greater Bay Area can be extremely successful.

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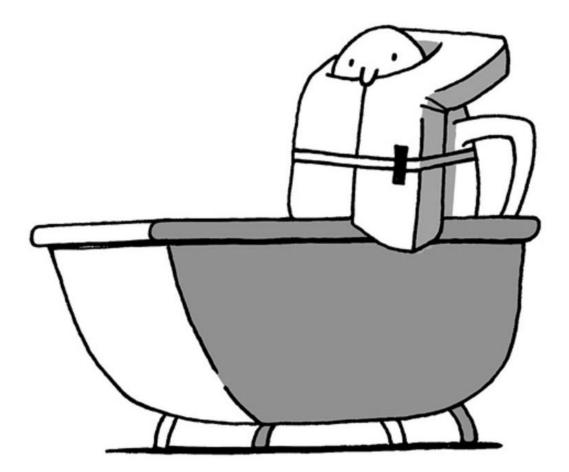


Key Challenge #1 Laissez Faire Policy

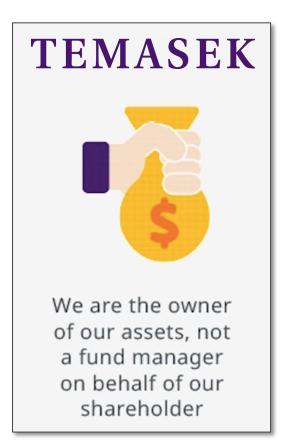


Laissez Faire Policy can no longer work in Hong Kong.

Key Challenge #2 Risk Averse Culture & Policies



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Like Singapore, our Government must be more proactive and must take more risks.

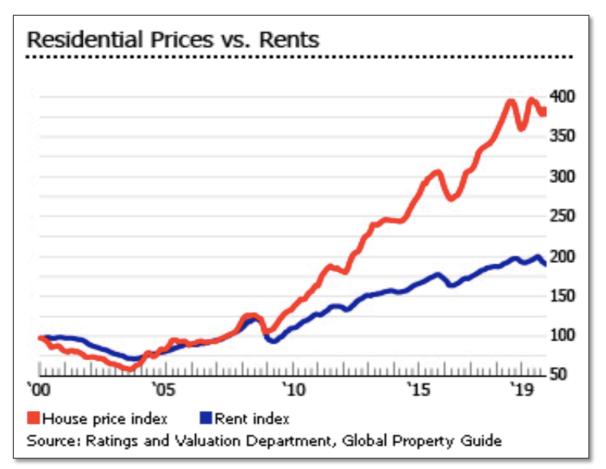
Key Challenge #3 Booming Property Markets

"Countries with an abundance of natural resources tend to have less economic growth."

-- Richard Auty called this a Resource Curse in 1993

"Cities with Booming Real Estate cannot develop any new industries, including high-tech industries." -- Few want to invest in high-tech

Key Challenge #3 Booming Property Markets



Recent economic downturn could be a blessing in disguise.

Key Challenge #4 Local Market is Too Small



We must help local start-ups to sell in the Greater Bay Area.

Key Opportunity #1 Hong Kong must migrate to New Economy

- Unsustainable Real Estate Markets
- Catastrophic Hospitality Industries
- Busting Retail Industries
- Depression in Trading Businesses
- High-Tech is the ONLY WAY OUT

Key Opportunity #2 Old Monies are Moving Out

- Emerging Businesses came into Prominence after 1967
- History repeats itself after 1997
- How about 2020?

Key Opportunity #3 Hong Kong is indispensable during Global Trade War

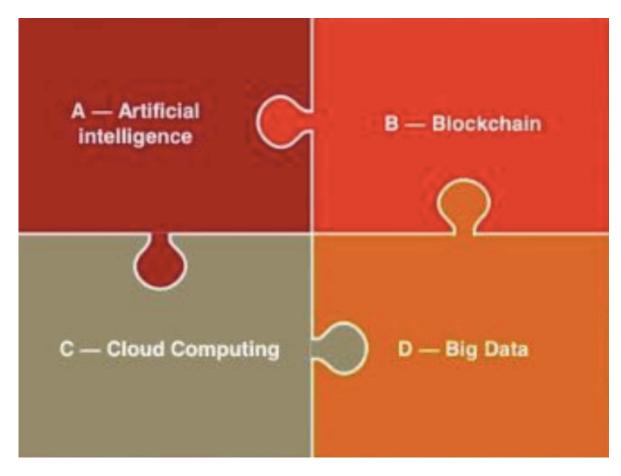


Investment Markets

Technology Collaboration

Technology Licensing

Key Opportunity #4 China encourages Hong Kong to develop High-Tech



Hong Kong must chart its own course.

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Hong Kong High-Tech Positioning Potential Government Roles

• The Government can help the Start-ups in Hong Kong MARKET their Products in the Greater Bay Area.

– The Start-ups can then focus on R & D.

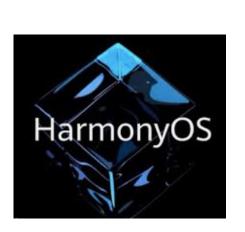
- The Government can directly and proactively VET & FUND Start-ups in Hong Kong.
 - We do not have many Angel & VC investors in Hong Kong, especially in the near future.

Hong Kong High-Tech Positioning Unique Opportunities – Semiconductors

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REPORT TO THE PRESIDENT Ensuring Long-Term U.S. Leadership in Semiconductors
Executive Office of the President President's Council of Advisors on Science and Technology
January 2017
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- Semiconductor industry is booming in China, especially:
 - 5G related chips
- There are many areas suitable for Hong Kong
 - FinTech, Security, Health
 Care, Robotic related chips
 - EDA TOOLS

Hong Kong High-Tech Positioning Unique Opportunities – Software



UOS

- UNITY OPERATING SYSTEM (UOS) and HARMONYOS may replace Windows and Android in a couple of years.
- As China intends to use its own desktop, server and mobile operating systems, there are numerous opportunities for new start-ups.



Hong Kong High-Tech Positioning Parting Words

- Most Start-up founders have similar backgrounds.
 - **DIVERSITY** is a key for creativity.
 - It's better to partner with people from diverse backgrounds (e.g. business, technical, creative).
- Hong Kong has many young talented technologists.
 - We need to find better ways to MOTIVATE these engineers, programmers, biochemists, ...
- Some said Golden Days had gone.
 - Never have I seen so many GOLDEN
 OPPORTUNITIES for our Next Generation