2021/9/29 生產與作業管理

"Chapter 2: Strategy and Sustainability



1 What is strategy?

- **2** What is operations strategy?
- **3** Operations competitive dimensions
- 4 The notion of trade-offs
- **5** Order winners and qualifiers
- 6 Supply chain risk

1. What is strategy ?

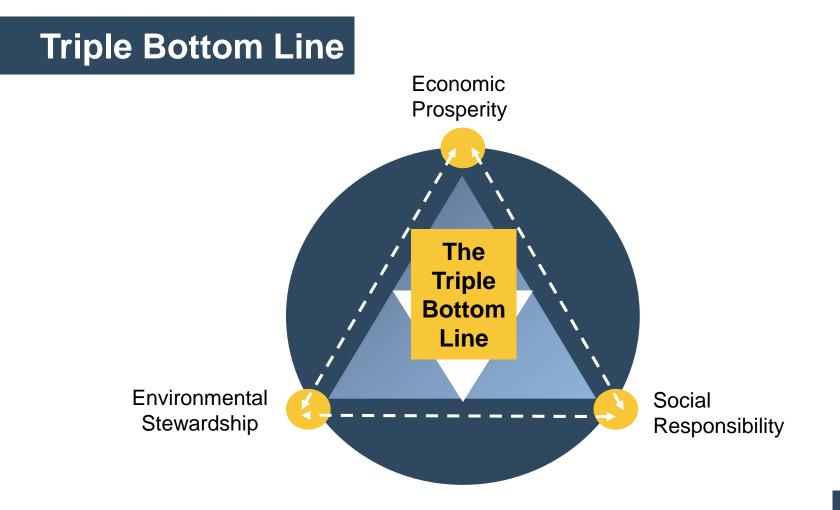
 A firm always intends to create and sustain value for its shareholders.

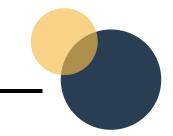


- Shareholders individuals or companies that legally own one or more shares of stock in the company
- Stakeholders individuals or organizations who are directly or indirectly influenced by the actions of the firm

黑狗兄的策略是什麼?







1. What is strategy? (cont'd)

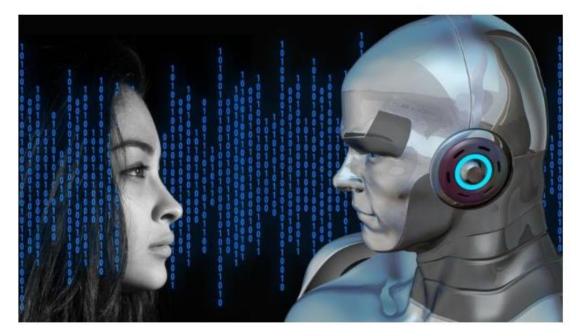
- Typically a strategy breaks down into three components:
 - Operations effectiveness
 - Customer management
 - Product innovation

Operations effectiveness

- The core business processed spanning all the business functions from taking customer orders, handling returns, manufacturing, managing the updating of web sites, to shipping products.
- Cost concerned
- Strategies associated with operational effectiveness including:
 - Quality initiatives, process redesign, and technology investments, can show quick near-term (12 to 24 months) results.



AI人工智慧時代=人類與機器人搶工作的時 2017.07.20 代?



軟銀攜手鴻海推機器人 郭董: 改變世界的時刻!

日本軟體銀行(SoftBank)今天舉行機器人發表會,鴻海集團(2317-TW)董事長郭台銘也應邀 出席,軟體銀行社長孫正義表示,將於明年2月開賣居家照顧機器人,每台售價為19.8萬日 元,將委由鴻海生產。郭台銘表示,已與軟銀合作2年,共同發想創意加上熱情,開發機器 人,看到軟銀的機器人發表,正是改變世界的時刻!

孫正義特地在發表會中,介紹郭台銘為「最重要的合作夥伴」,眾所皆知,鴻海是蘋果重要 的夥伴,製作iPhone、iPad,同時也是全世界電腦、電子相關廠品最大的製造工廠。軟銀與 鴻海有長期合作關係,從日本Yahoo!BB!寬頻相關產品就開始合作,機器人如此重要,「除 了鴻海以外,從來沒有想過要找其他的廠商合作」。

郭台銘表示,與軟銀在機器人開發方面,合作2年,軟銀的機器人,像是孫正義的寶貝, 「如果沒有熱忱的心、愛、歐情,機器人只是機器人」,而雙方共同發想創意、加上熱情, 軟銀機器人上市,將是改變全球機器人產業和人類社會的重要時刻。

由於軟銀居家照顧機器人,每台售價僅19.8萬日元,軟銀表示,因為製造伙伴鴻海,在製造 與成本控管能力卓越,再加上希望大量生產,提供一般家庭可以買得起的價格,後續再搭配 軟體、雲端服務,才有更多獲利可能。

鳥海代工機器人「Pepper」



富士康 自動化 工人砍半 換機器人 邁向工業4.0 昆山廠員工銳減至5萬多人

2015年05月25日 🔗 傳送 🗗 讚 {1,650 G+1 {3



富士康工廠自動化有 成,旗下昆山廠區工人 已經從2013年的11萬 人,銳減到現在剩5萬多 人。圖為鴻海董事長郭 台銘。下圖為機械手 臂。法新社、中央社

集團轉型

【楊喻斐/台北報導】上周五富士康首度邀 請陸媒一窺機器人自動化成果,這是富士康 昆山工廠成立22年來首次向媒體開放其保密 到家的蘋果生產線。富士康科技集團總經理 游象富表示,隨著自動化程度不斷提高,富 士康昆山廠區工人已經從2013年的11萬 人,銳減到現在5萬多人。

> 獨!前進富士康昆山廠 直擊郭董機器人軍團 Youtube







"後疫情時代的生產與作業管理

H&M虧損創10年新高 將關閉全球170家門市!

2020/06/29 中時新聞網 許立穎



瑞典的全球第2大的時裝零售商「H&M」虧損近高達64.8億瑞典克朗(6.95億美元,約台幣204億),為10年來首次的季度損 失。(圖 / Shutterstock)

ZARA母公司不敵虧損, 擬關閉全球1200間門市



▲ZARA母公司不敵虧損擬關閉全球1200間門市。(圖/路透)

億馨針織數據精準管理 變身機能布料智慧染整專家



匯聚近40年的染整技術,紡織業者億馨針織專注於機能布料染整業務,近年來導入 數位創新應用,從紙本到數據到系統,透過智慧染整供應鏈數位系統,進行機能布 效能分析與製造管理,優化染整製程,成功將交期由30天大幅縮短至14天,實現智 慧染整,開拓紡織新藍海!

Customer management

• To better understand and leverage customer relationships





Product innovation

宏碁手機團隊一虧10年,轉做智慧佛珠大賣,熱銷背後有洋蔥! 2018.06.01 by 🛞 王邦倫

 The development of new products, markets, and relationships to sustain growth.



2. What is operations strategy?

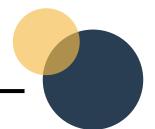


An operations strategy involves decisions that relate to:

a. The design of a process

- ✓ The selection of appropriate technology (例如:電子商務平台)
- ✓ Sizing the process over time
- \checkmark The role of inventory in the process
- \checkmark Locating the process

2. What is operations strategy?



An operations strategy involves decisions that relate to:

b. The infrastructure needed to support the process

- ✓ Logic associated with the planning and control systems
- ✓ Quality assurance and control approach
- ✓ Work payment structures
- ✓ Organization of the operations function

3. Operations competitive dimensions

- a. Cost or price
- b. Quality
- c. Delivery speed
- d. Delivery reliability
- e. Coping with changes in demand
- f. Flexibility and new-product introduction speed
- g. Other product-specific criteria

Cost or price

- Cost : make the product or deliver the service cheap
- Price is not equal to cost. Customers may want higher quality – in terms of performance, appearance, or features – than that available in competing products and services, even though accompanied by a higher price.
- For example, BMW

Quality

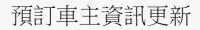
- **Design quality** •
 - The set of features the product or service contains
 - To focus on the requirements of the customer
 - For example, ASUS PadFone 變形金剛再進化
- **Process quality** ۲
 - The reliability of the product or service
 - Customers want products without defects
 - For example, Toyota 2010



Flexibility and new-product introduction speed

- The ability of a company to offer a wide variety of products to its customers
- The time required for a company to develop a new product and to convert its processes to offer the new product





美國和加拿大現已開始 Model 3 交車作業,其他國家地區的交車作業將於 2019 年開始。已預訂的客戶將會在需要確 認訂單時,收到電子郵件通知。



查看我們的常見問題以深入瞭解

Other product-specific criteria

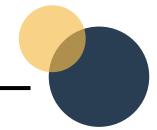
- Technical liaison and support
- Meeting the launch date of a complex project
- Supplier after-sale support
- Environmental impact
- Others







4. The notion of trade-offs



- An operation cannot excel simultaneously on all competitive dimensions.
- Management has to decide which parameters of performance are critical to the firm's success and then concentrate the resources on these particular characteristics.
- Plant-within-a-plant (PWP)
- Straddling

Plant-within-a-plant (PWP)

- Different locations within the facility are allocated to different product lines, each with their own operations strategy.
- For example, TSMC

Straddling

- A company seeks to match the benefits of a successful position while maintaining its existing position.
- It adds new features, services, or technologies onto the activities it already performs.
- For example, Continental Airlines, 光陽機車



https://technews.tw/2018/06/12/kymco -ionex-new-many-110-ev-nice-100-ev/

5. Order winners and qualifiers

- An order winner is a <u>criterion</u> that differentiates the products or services of one firm from another.
- The order-winning criterion may be:
 - The cost of the product
 - The price of product
 - Product quality and reliability



5. Order winners and qualifiers (cont'd)

電動車元年 2020 啟動, 6 家車商蓄勢待發

 An order qualifier is a screening criterion that permits a firm's products to even be considered as possible candidates for purchase.

2020年台灣量產電動車

車商	車型
裕隆日產 (Nissan)	Nissan Leaf
保時捷 (Porsche)	Taycan
賓士 (Mercedes-Benz)	EQC
奧迪(Audi)	E-tron
捷豹 (Jaguar)	I-Pace
特斯拉(Tesla)	Model S Model X Model 3

5. Order winners and qualifiers (cont'd)

- The order-winning and order-qualifying criteria may change over time.
 - For example, American automobile markets in the 1970s and 1980s









6. Supply chain risk

- The likelihood of a disruption that would impact the ability of the company to continuously supply products or services
 - Natural disasters, capacity failures, infrastructure failures, terrorists, supplier failures, labor actions, equipment failures, commodity price volatility, and military/civil conflict...



 2011年日本311地震與海嘯,日本東海 岸集中了大量半導體、鋼鐵業、石化業、 汽車等行業,地震給日本這些行業帶來 了較大的衝擊,也連帶影響台灣
台灣鐵路員工,在除夕「合法休假」





台鐵罷工示威中 , 有人頭戴「還我休假」標語。 攝:A.K. Lee /端傳媒

台積日本廠 傳最快2023投產

2021-07-22 01:19 經濟日報 / 國際中心、記者鐘裏玲/綜合報導



知情人士透露,台積電的 決定仍取決於一些因素, 包括日本政府提供的誘因 和支持,以及當地供應商 對於興建晶片相關基礎設 施和發展供應鏈的承諾。 日本廠將是台積電分散生 產基地策略的一環。

https://udn.com/news/story/7240/5618437



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