MIS 3534 Fall 2014 – Strategic Management of Information Technology Day 5 – Cost of IT (I)

Min-Seok Pang

Management Information Systems Fox School of Business, Temple University minspang@temple.edu Sep. 29nd, 2014





Today, we will discuss ...

- Why does IVK have to invest in IT maintenance?
- How do competitive strategies affect IT investment decisions?



IT System Maintenance (1/3)

• Why does an IT system need maintenance? It does not become rusty!

• Or does it?

• On Page 58, it reads "we've run closer to 5 to 6 percent of sales on IT spending. Which, by the way, Davies thought wasn't enough to keep IT assets from *degrading* over time.."

Why does Mr. Davies mean by degrading?



Min-Seok Pang – Sep.29.2014

http://www.mountainlodgeinfo.com/Maintenance-Page.html



Hurricane Sandy and DC Metro

	OCTOBER 2012						
	SUN	MON	TUE	WED	THU	FRI	SAT
		1	2	3	4	5	6
10		8	9	10	11	12	13
		5	16	17	18	19	20
THE REAL PROPERTY AND A DECIMAL OF A DECIMAL		2	23	24	25	26	27
	28	29	30	31			



After Hurricane Sandy, DC Metro ran a Sunday schedule on Tue.
30 but charged riders the *weekday and rush-hour* fares.

http://blogs.cio.com/risk-management/17518/superstorm-hurricane-sandy-aftermath-video http://www.freeismylife.com/2012/09/freeismylife-october-2012-calendar-dont.html http://en.wikipedia.org/wiki/Washington Metro



IT System Maintenance (2/3)

- IT maintenance is needed because
 - business requirements are always, constantly changing.
 - IT system needs to accommodate, for example, new products, new business processes, new suppliers and customers, and so forth.
 - IT system degrades not by itself, but by surrounding, supporting technologies such as hardware, network, or operating systems that are becoming advanced.



IT System Maintenance (3/3)

- If it needs to spend money in maintaining IT systems, how much does a company need to spend on it?
 - What happens with too little spending in maintenance?
 - What happens with too much? Then, a business cannot initiate something "new" and gets behind of competition.
 - It should depend on what?

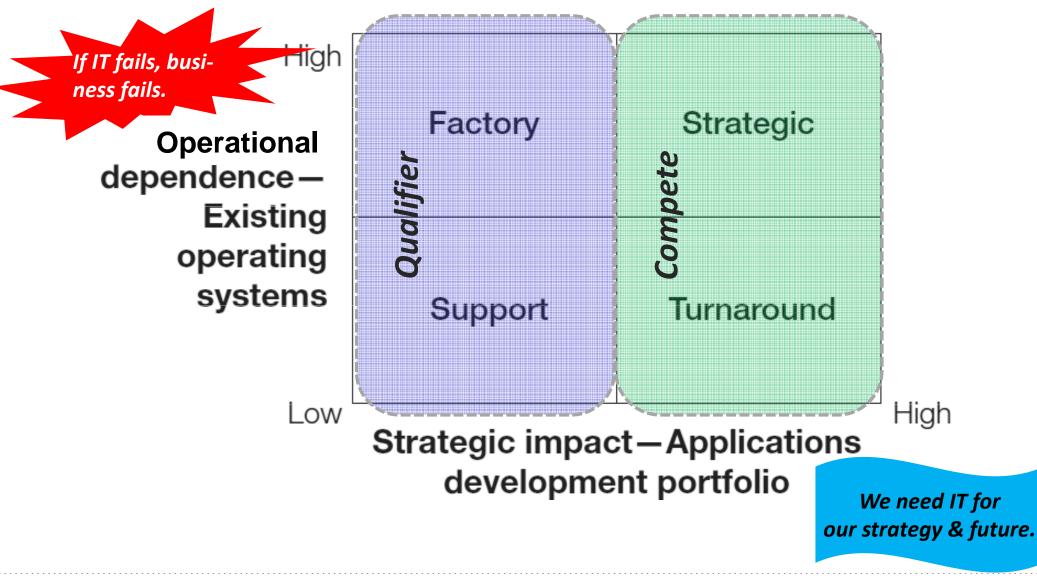


http://www.evansautocare.com/services/

Min-Seok Pang – Sep.29.2014



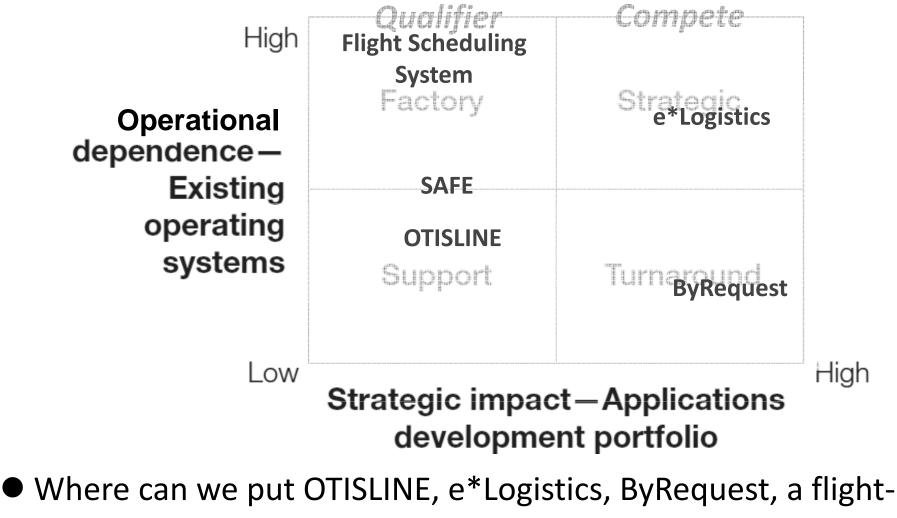
IT Strategic Impact Grid (1/2)



Min-Seok Pang – Sep.29.2014



IT Strategic Impact Grid (2/2)

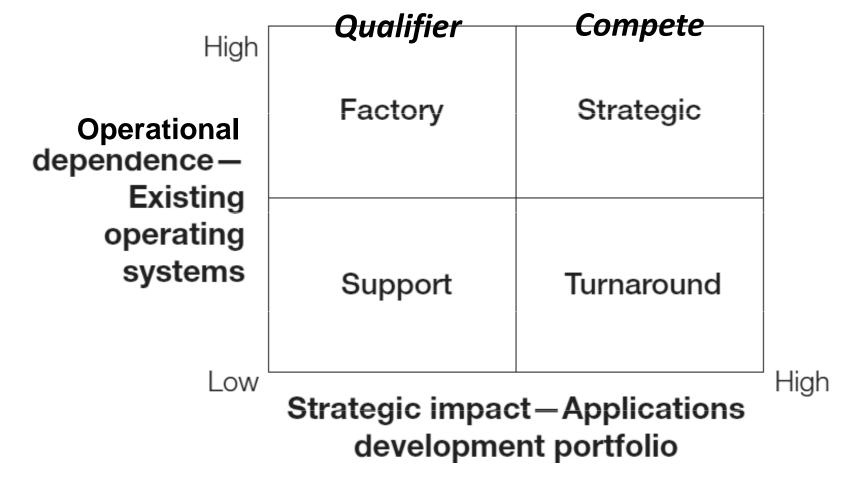


scheduling system, and San Francisco SAFE?

MIS 3534 – Strategic Management of Information Technology



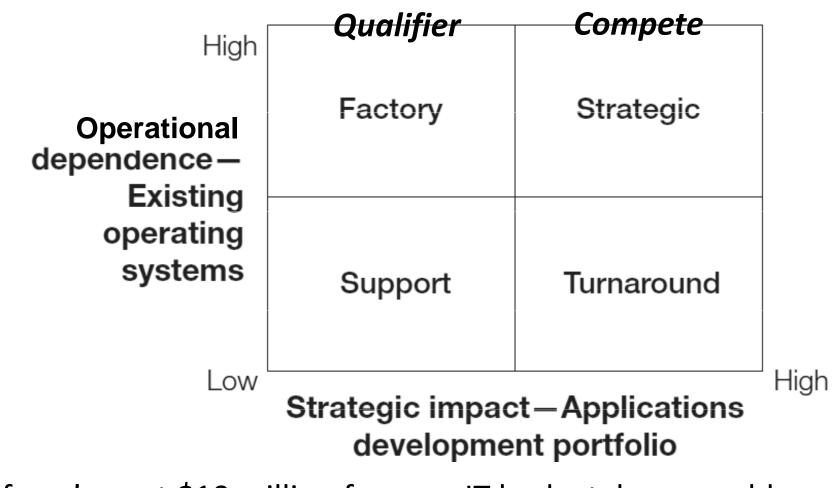
Strategic Grid and IT Cost (1/3)



What should the *right* amount of IT spending in each grid?



Strategic Grid and IT Cost (2/3)

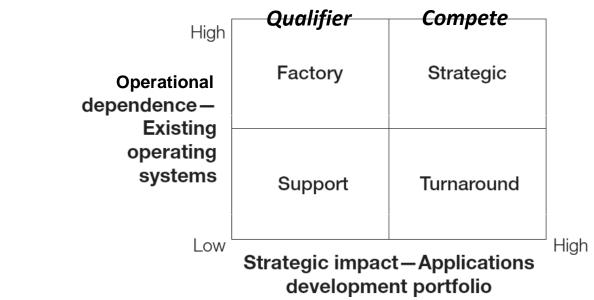


 If you've got \$10 million for your IT budget, how would you divide into each grid? depends on what?



MIS 3534 –

Where to Spend More?



- if you are #1 in a stable, mature industry?
- if you are a follower and want to be #1?
- if you are in a dynamic, growing industry?
- if you are in a tightly-regulated industry?

Strategic Management of Information Technology

• if you are in an industry where IT is "mission-critical"?



Strategic Grid and IT Cost (3/3)

• The division of a limited IT budget amongst the four IT grids depends on competitive strategies and business environments.

 If you are #1 in a stable, mature industry, spend more in Qualifier (Factory/Support).

 If you are a follower who wants to be #1 or in a growing, dynamic industry, spend more in Compete (Strategic/Turnaround).

- If you are in a tightly-regulated industry, spend more in Qualifier (Factory/Support).
- If you are in an industry where IT is very dependent or "mission-critical", spend more in Factory and Strategic.



Next Week

Cost of IT (II)

Read the <u>IT Adventure Chapter 8</u> and write a summary of up to 200 words by 5:30pm, Oct. 6.

- Sign up for presentation
 - IT Adventure Chapter 4
 - IT Adventure Chapter 8
 - HBS Case "Volkswagen of America"
- Bring HBS "Volkswagen of America" Case next week.