Competing with your startup

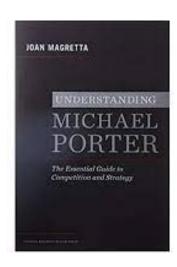
2025 HKU Class 2

ECOM 7122

Entrepreneurship Development

Prof. Amy Shuen

Competitive Advantage & Value Chain Analysis



https://www.youtube.com/watch?
v=oN2tvUgwcWw

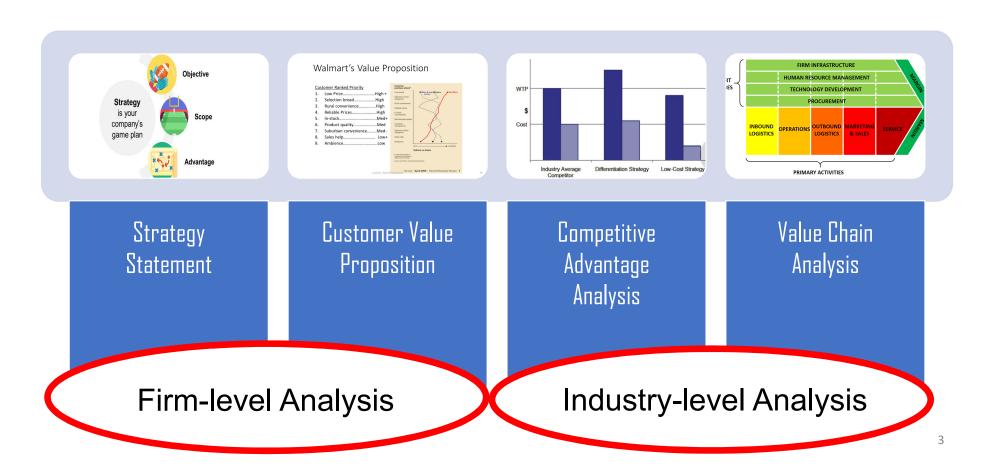
Class 2: Applied to the Simulation Game: Strategy Statements & Profitability

In class 2, we apply our company level analysis and our industry-level analysis to our own team startup. We prepare for meeting in our executive teams and practice the following analyses in our startups.

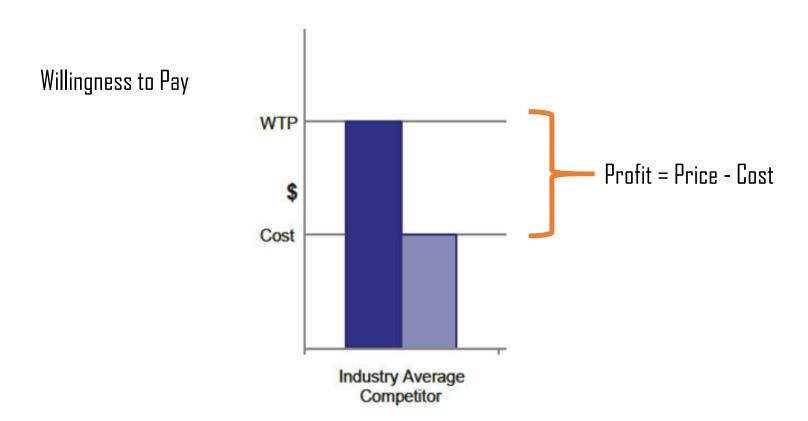
Value Chain Analysis Profitability analysis Brand judgment and consumer rating

We meet in executive co-founder teams to create our startups, come up with company names, choose target segments and cities after agreeing on the company strategy statement. Company Teams will submit Q1 decisions to enter the 3D carbon fiber bicycle industry.

Our Strategy Toolbox



Industry Average Profitability or "Grades"



Takeaways

- The HBR reading explains the key elements of Edward Jones' strategy statement.
- In our breakout sessions, we will practice writing strategy statements with profit objectives, scope (product/customer/geography) and competitive advantage.
- We cover Walmart's value proposition vs. Sears vs. mom-and-pop hardware stores, illustrated in a simple graph.
- In our breakout sessions we practice identifying the target customer priorities to create a value proposition for our target bike segments—choosing priority 1 and 2 between recreation, mountain or speed.

Harvard Business Review



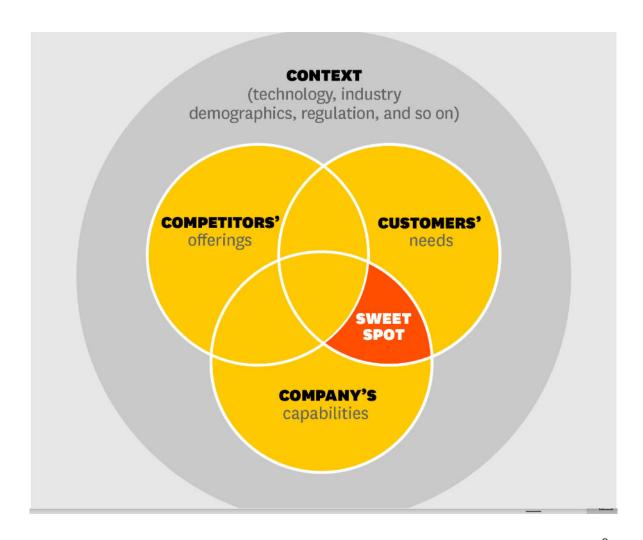
Can You Say What Your Strategy Is?

In the diring little search thank measuring cannot arbitralist the elijenthm, some, and advantage of their humbons in a simple statement. If they can't, notifier than suppose size, by traid j. faills and statement, in the same statement of the same statement.

Competitive Advantage

- 1. Above Average Industry Profitability
- 2. Value Chain Analysis and Finding your company's "sweet spot"





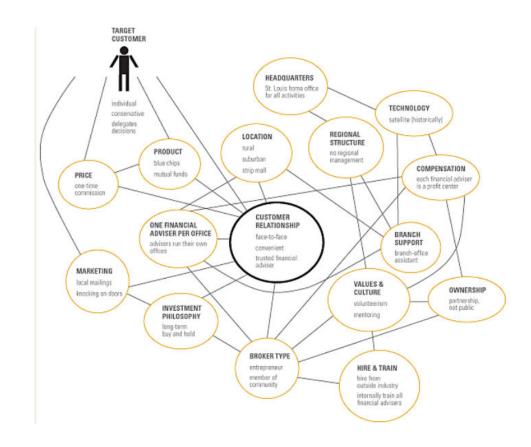
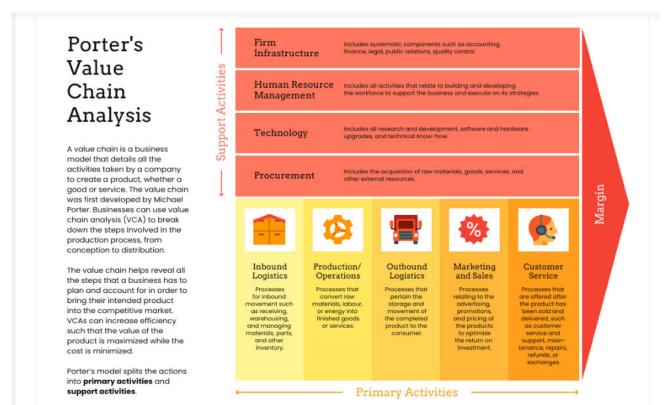
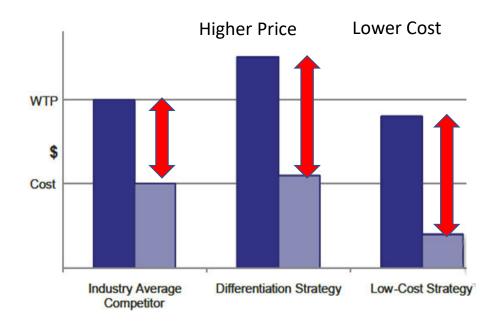


Diagram from Page 6 of Reading HBR April 2008. Can you say what your strategy is?

VENNGAGE

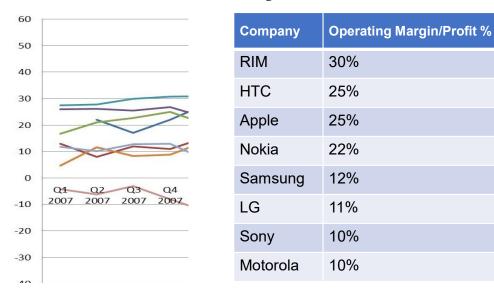


The Goal of Traditional Strategy is Competitive Advantage =

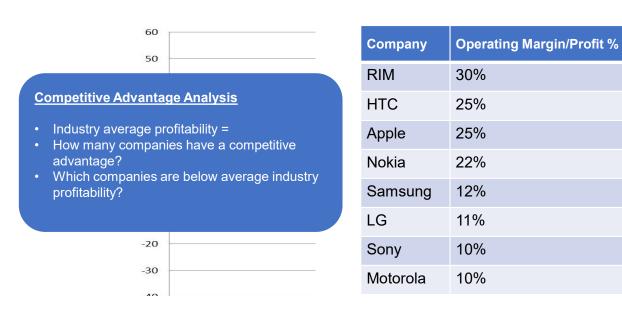


Above average-industry-profitability

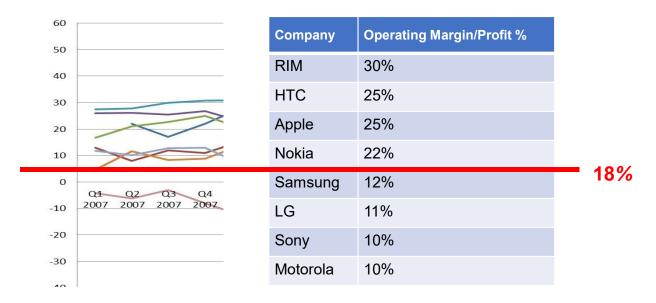
Which Companies have Competitive Advantage in the 2007 Mobile Industry?



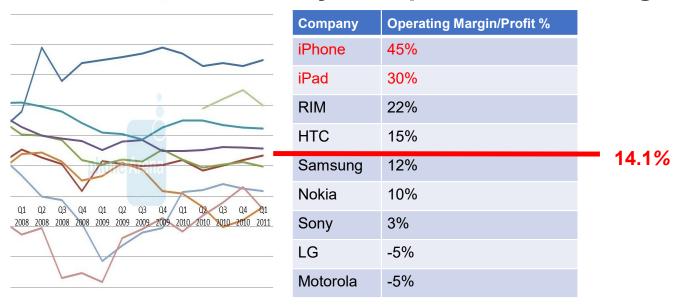
2007 Mobile Industry Competitive Advantage



2007 Mobile Industry Competitive Advantage



Who was the exponential disruptor? 2008-2011 Mobile Industry Competitive Advantage



Applied to Bike Simulation Game

Goal: Achieve competitive advantage for your startup.

Industry: Your startup competes with 2 other class team startups in the Bike Simulation Game...that make similar 3D-printed carbon fiber bikes. We will have 4-5 different "virtual worlds" so that your startup will compete for market share and profitability with only 2 other startups in an "attractive" industry.

Market segments: There are three market segments to prioritize for your Q2 test market entry and Q3 to Q4 expansion. Each segment has different customer needs and wants, price willing to pay and 12 month market demand in 4 different cities—NYC, Amsterdam, Rio de Janeiro and Bangalore.

Measurement of Competitive Advantage and Industry Performance: low, high and average performers. Ex. Team A has 10% profit, Team B has 5% profit and Team C has 0 profit. The industry average profitability is 10+5+0=15/3=5%. Team A is a high performer, Team B is an average performer, Team C is a low performer in this industry.

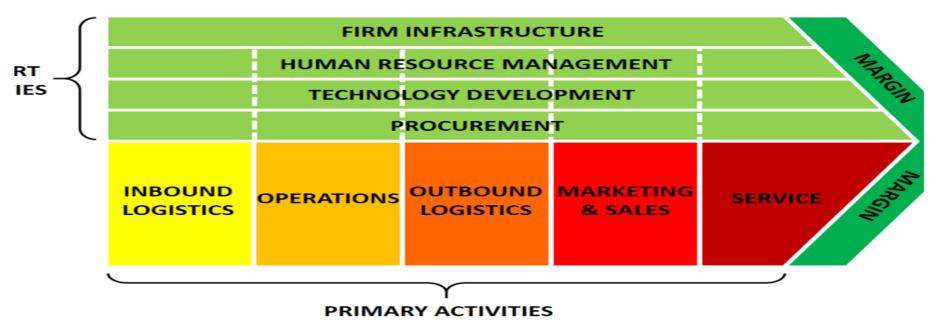
Attractive industry: Some industries have higher average profitability than others. Since this industry only has three startup companies in each virtual world/game, all teams can be profitable in four quarters of simulation game.

Above average industry profitability: A company has a **competitive advantage** in its industry when it has above-average industry profitability. Typically, the company has followed either a differentiation or low-cost strategy, sometimes a company can achieve a "dual-advantage" strategy and do both.

Our Strategy Toolbox



Competitive Advantage & Value Chain Analysis



The Value Chain is a powerful visual tool for showing the key activities that create competitive advantage...the distinctive set of activities that provide differentiation for premium pricing or economies for lower cost.

<u>Apple Inc. (AAPL)</u> Profitability measure = Operating margin = Operating Income/Total Net Sales (Revenues)

Apple Inc.

CONSOLIDATED STATEMENTS OF OPERATIONS

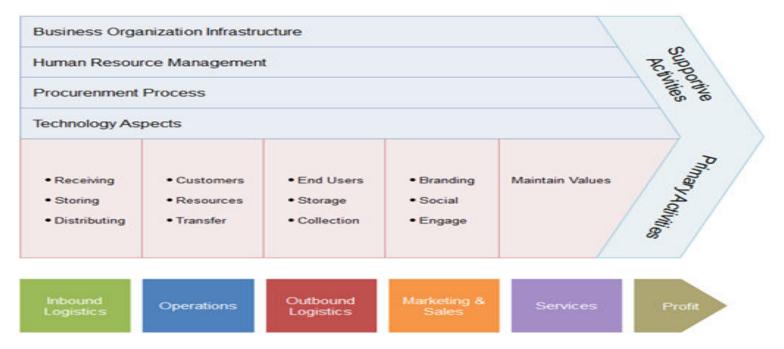
(In millions, except number of shares which are reflected in thousands and per share amounts)

	Years ended Years							
	September 26, 2020			September 28, 2019		September 29, 2018		
Net sales:			2 200					
Products	\$	220,747	\$	213,883	\$	225,847		
Total net sales	_	274,515	_	260,174	-	265,595		
t data trus dando		214,010		200,114		200,000		
Cost of sales:								
Products		151,286		144,996		148,164		
Services		18,273		16,786		15,592		
Total cost of sales		169,559		161,782		163,756		
Gross margin		104,956		98,392		101,839		
Operating expenses:								
Research and development		18,752		16,217		14,236		
Selling, general and administrative		19,916		18,245		16,705		
Total operating expenses		38,668	=	34,462	=	30,941		
Operating income		66,288		63,930		70,898		
Other income/(expense), net		803		1,807		2,005		
Income before provision for income taxes		67,091	_	65,737		72,903		
Provision for income taxes		9,680		10,481		13,372		
Net income	\$	57,411	\$	55,256	\$	59,531		
Earnings per share:								
Basic	\$	3.31	\$	2.99	S	3.00		
Diluted	s	3.28	\$	2.97	\$	2.98		
Shares used in computing earnings per share:								
Basic		17,352,119		18,471,336		19.821.510		
Diluted		7,528,214		18,595,651		20,000,43		

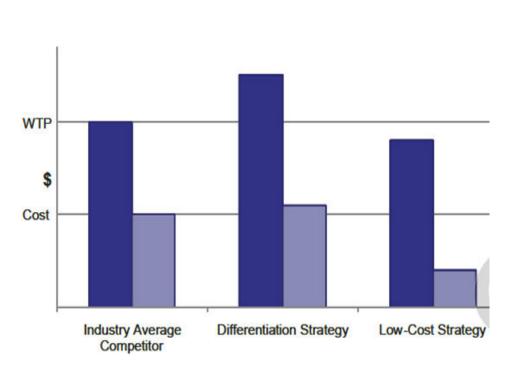
- 2020 Operating margin = 24% (\$66/\$275).
- 2019 Operating margin = 24.6% (\$64/\$260).
- 2018 Operating margin = 26.7% (\$71/\$266).

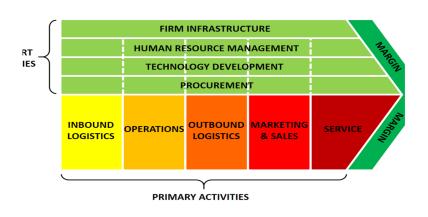
https://www.investopedia.com/ask/answers/04 1415/what-considered-healthy-operating-profitmargin.asp

Porter's Value Chain Analysis Model



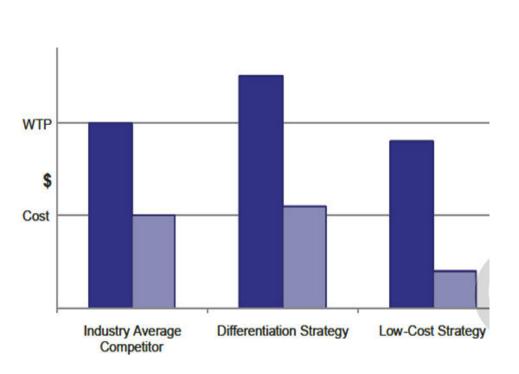
Apple: Differentiation or Low-Cost Strategy?

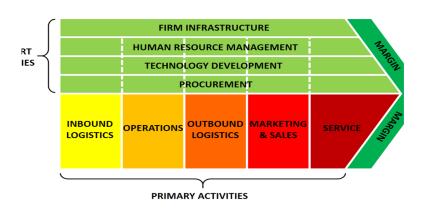




Differentiation- Why pay Price Premium?	Cost Drivers—How to lower Costs?

Apple: Differentiation or Low-Cost Strategy?





Major Price Drivers: Brand Equity

Design/User Experience

Services

Software Apps

Ecosystem

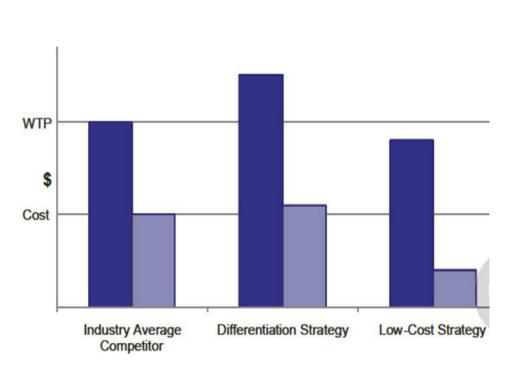
Technology

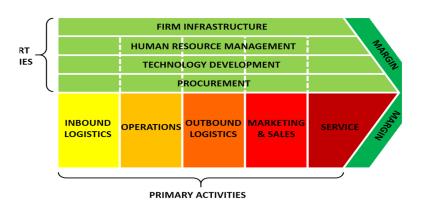
Major Cost Drivers: Components

Hardware

Retail Stores

Walmart: Differentiation or Low-Cost Strategy?

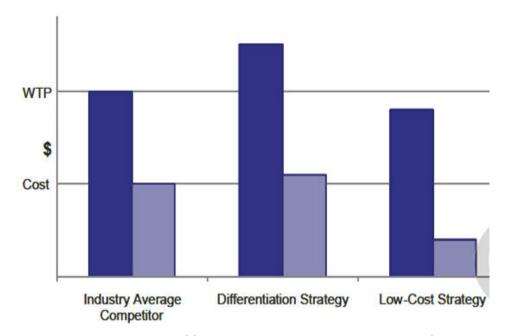


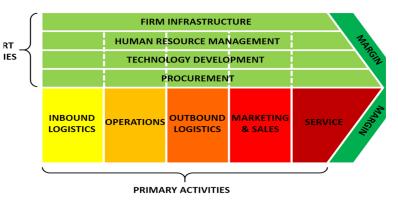


Differentiation- Why pay Price Premium?	Cost Drivers—How to lower Costs?

Walmart: Differentiation or Low-Cost

Strategy?



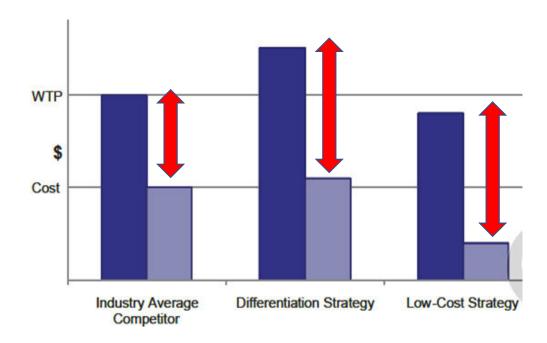


Major Price Drivers: Everyday low prices
Major Cost Drivers: Economies of scale
Supply Chain Management & Technology
Long term vendor relations
Global expansion speed
Monopoly in rural areas with population growth

https://managemententhusiast.com/walmarts-business-strategy-and-competitive-advantages/#:~:text=are%20discussed%20below%3A-,Selling%20Low%20Priced%20Goods,that%20they%20can%20live%20better%E2%80%9D.

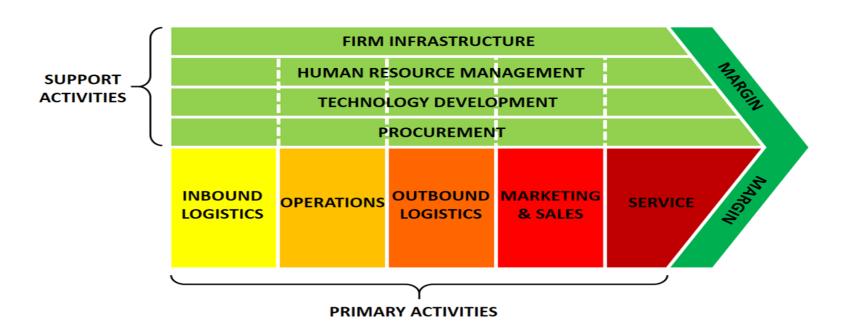
Porter's Competitive Advantage =

Company with above average industry profitability



Value Chain Analysis

How do you implement a differentiation or low-cost strategy? By analyzing and developing a unique combination of activities in the value chain



Case Example from reading...

Donated wheelchairs: Three competing value chains Chair Operations Distribution Provision/ fitting After-sale repairs

REFURBISH	ER NO	Collect & refurbish	Ship from U.S. to	Send volunteers	NO
		used chairs	recipients	from U.S.	
VOLUME PURCHASER	NO	Outsource production of low-cost chairs	Ship direct from Asian producer to recipients	NO	NO
WHIRLWIND	YES	Partners produce WWI's designs	Regional producers ship to country partners	Local partners do prevision & assembly (P&A)	YES P&A centers handle parts & service

Value Chain Analysis

- 1. Show the key activities that add value to a product in this industry by filling out the **industry** value chain template.
- 2. Include the **typical activities that are performed in the value chain** by many of the industry's competitors since these highlight the dominant way companies have competed in the industry.
- Find the price drivers, those activities that have a big impact on differentiation and the willingness of customers to pay a premium price.
- 4. Find the **cost drivers**, those activities that have a big impact on costs.
- 5. Develop a **unique combination of activities and value proposition** to achieve competitive advantage through differentiation or by lowering your cost basis.



What Determines Road Bike Price?

From blog post on Dec 20, 2019

The biggest factors that should determine road bike prices are the frame material and components used to create them. Notice we said "should." In truth, a bike's retail price is driven by seven key factors:

Factor	Percentage of Total Price
Frame material	15%
Components (22-25 gears, shifters, brakes)	20%
Crafting (frame building & bicycle assembling)	20%
Shipping (from factory to builder, assembler, retailer)	5%
Marketing (sponsorship & advertisement)	10%
Overhead (design, HR, sales, etc.)	20%
Retail store costs/local distribution	10%

Step 1: Road bike industry value chain

Step 2: Compare to well-known industry competitor and brandname

	Design 5%	Build 15% frame 20% comp	\rangle	Assemble 20%	Distribute 5% shipping 10% marketing	Retail	Post Sales Overhead 15%	
Trek								
Dragon								

Step 3: What are price drivers?

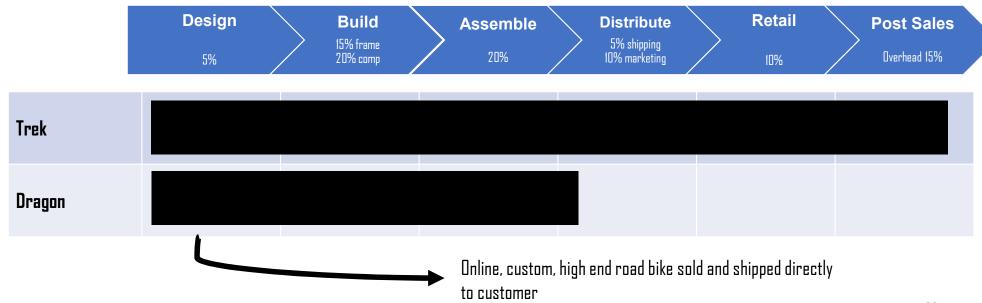
Step 4: What are cost drivers?



Factor	Percentage of Total Value
Frame material	15%
Components (22-25 gears, shifters, brakes)	20%
Crafting (frame building & bicycle assembling)	20%
Shipping (from factory to builder, assembler, retailer)	5%
Marketing (sponsorship & advertisement)	10%
Overhead (<mark>design</mark> , <mark>HR, sales, etc</mark> .)	20%
Retail store costs/local distribution	10%

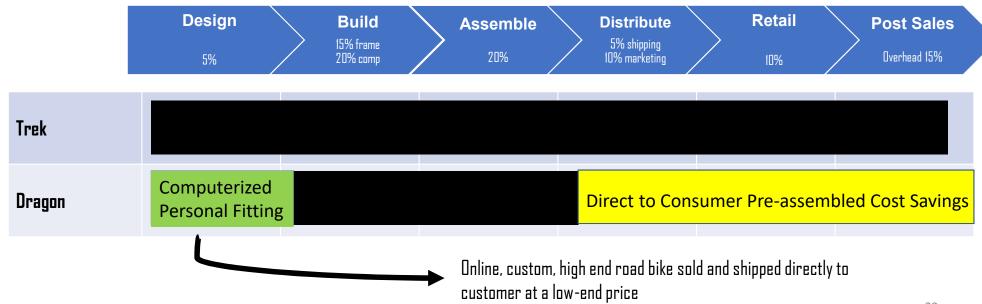
Step 5: Develop a unique combination of activities and value props





Step 5: Develop a unique combination of activities and value props





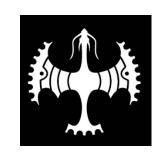




Dragon Bicycles \$1499



Trek Bikes \$2499.99





Dragon Bicycles

\$1499-600 Cost = \$899 Profit or

60% Profit Margin



Trek Bikes

\$2499.99-1000 Cost = 1499.99 Profit or

60% Profit Margin= **30% Trek** + 30% Retailer

Example: Your3DBike Startup

Step 5: Develop a unique combination of activities and value props

What are your cost drivers? (In Yellow)

What are your price drivers? (In Green)



Takeaways

- Value Chain Analysis is used to support competitive advantage and the implementation of a differentiation or low-cost generic strategy.
- The five key steps to value chain analysis include diagramming the dominant industry value chain, identifying price and cost drivers and choosing a unique combination of value chain activities.

Intro to the Strategy Simulation Game

Team Registration and Q1 decisions

Executive Team Roles and Responsibilities



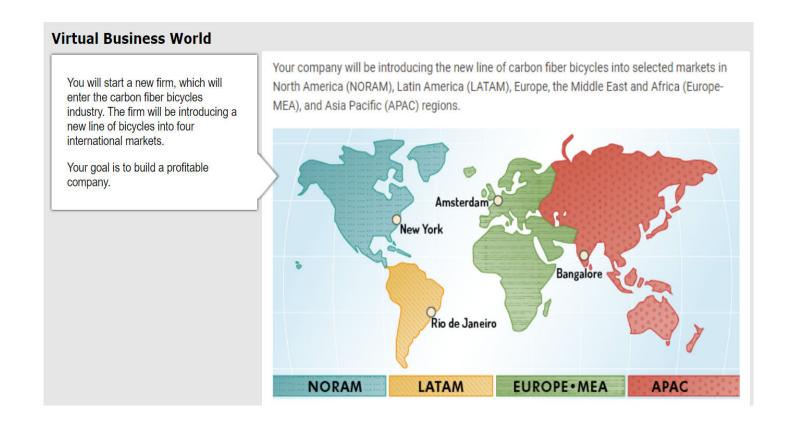
Key Executive Team Roles and Responsibilities

- CEO-visionary, leader, jack of all trades, tie-breaker
- CTO-innovator, IT, techie
- COO-operations, organizer
- CMO-marketer
- CFO-money manager
- CSO-sales, rainmaker

Breakout Sessions

- Discuss what executive roles you would like to be responsible for:
 CEO, COO, CTO, CMO, CFO, CSO and why
- 1. Agree on roles and responsibilities
- 2. Discuss and review individual draft strategy statements.
- 3. Choose target segment priority #1 and #2 and discuss
 - a. what the key customer needs are for each target segment
 - b. what the market demand is in different geographic areas for those segments
 - c. what the production and profit margin would be if you sold 60 units per salesperson and had 5 sales staff in one selected city at the average willingness to pay price and cost per unit. What about two cities? What about 2 brands? What about 2 segments?
 - d. How does price competition change your pricing, forecast and test market strategy?
- 4. Decide on a name for your company consistent with your target segment. Ex. SpeedyBikes for Speed Bike segment, or ComfortRide for Recreation Bike segment.

1. Review and agree on strategy statement



2. Choose 2 target segments—Rec, Mountain or Speed to analyze. Are there any synergies?

Simulation Demo: Business Primer - Bikes

Target Markets

There are three market segments to serve in the bicycle market. Each segment has different needs and requires a different marketing strategy to appeal to it.

Market Segments Among Bicycle Buyers

The bicycle market can be divided into three major market segments - Recreation, Mountain, and Speed. Each segment has its own set of needs and wants. Each one also has a price point where they are willing to consider a purchase, should you be able to satisfy their needs and wants.

These three segments are portrayed in the accompanying graph. The circles are positioned to indicate the price and

performance requirements of each segment. The size of the segment is portrayed by the size of the circle. Each segment has different needs and wants and requires a different market strategy to appeal to it.

Find the objective, scope & advantage

Edward Jones strategy statement:

Grow to 17k financial advisors by 2012, by offering trusted and convenient face-to-face financial advice to conservative individual investors who delegate their financial decisions, through a national network of one-financial-advisor offices.

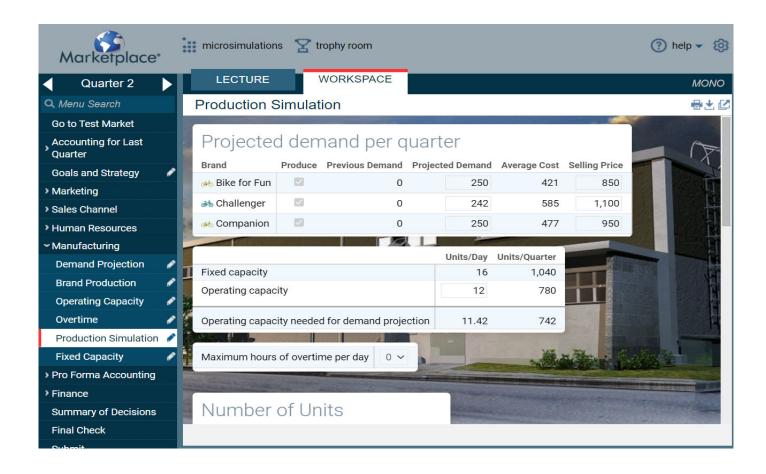
3. Choose 2 cities to calculate your profit margin as an exercise.







Cost of goods sold is calculated in the production simulation...



- Company name
- 2. Executive team roles and responsibilities
- 3. Target priority segments for test market
- 4. Strategy statement with target segments, at least two brands and test market cities/geographies based on demand analysis
- 5. Test market prices and/or rebates per bike brand offered
- 6. Advertising and marketing spend appropriate to build demand in new cities where sales offices are opened
- 7. Demand forecast based on city sales office and productivity of sales and support people hired in each office
- 8. Cost in materials + production to build your product. Ensure enough production capacity and 3D printers to meet your forecasted demand. Allow 10% excess. Be sure to allow overtime in case you get more demand than forecast. You do not want to stock-out.
- 9. Estimated profit per bicycle sold: (Price-cost=profit)

Key tips for the Simulation Game

1. You must decide on the price and/or rebate based on your differentiation or low-cost strategy. Do not assume that you can use the average selling price since there are 2 other competitive companies in the industry.



- 2. Your market share in a given target city will depend on the competition, pricing, brand rating, perceived price/quality, advertising, number of sales people and their compensation.
- 3. It's recommended to target at least 2 segments, 2 brands and more than one city for your test market.
- 4. The simulation game rewards first-movers and aggressive growth strategies.
- 5. Find the tab of the Student Help File. All sorts of tips about the game simulation model such as productivity of sales people in Q2 test market and the number of sales support you need for your sales teams are written there.

Simulation Game Balanced Scorecard & Ranking

Industry Results for Quarter: 3										
Company Name \$	Total Performance \$	Financial Performance \$	Market Performance \$	Marketing Effectiveness \$	Investment in Future \$	Wealth \$	Human Resource Management \$	Asset Management \$	Manufacturing Productivity \$	Financial Risk \$
Nimbl Bikes	67.481	63.192	0.425	0.785	3.968	1.029	0.686	1.280	0.893	1.000
Celeritas Cycles	44.303	45.574	0.380	0.825	5.217	0.885	0.698	1.141	0.843	1.000
Alpine Bikes	49.986	38.452	0.375	0.865	6.526	0.754	0.760	1.099	0.975	1.000

Highly recommended Micro-simulations available for free in the simulation game.



Product Design



Production Scheduling



Pricing I. - The Fundamentals



Fundamentals of Accounting



Profitability Analysis

Some useful help topics and videos

Please use the game **Help tab** in each decision period.

Play each target market segment as a separate world wide "competition".

Stockouts in the factory https://www.youtube.com/watch?v=AZaCKOkx3Lc

Pricing too high

https://www.youtube.com/watch?v=t-Td9Y2sfbs

Sample Game—Student View

Sample game

Overview of Marketplace student software. The sample game allows you to browse through several periods (quarters) of sample decisions. The sample game will let you make changes in each decision period, but your changes will be discarded once you switch to another period.

Your team will need to craft a strategy statement. You might also discuss...

Market size	
focus on sma	ller, high margin segments
focus on large	e, highly competitive segments
focus on fring	ge segments that are out of the mainstream
write your ow	vn
write your ow	vn
eographic m	parket
Geographic m	
focus on sma	ller, less costly geographic markets
focus on sma	
focus on sma focus on the l	ller, less costly geographic markets argest geographic markets, even if they are more expensive
focus on sma focus on the l	ller, less costly geographic markets argest geographic markets, even if they are more expensive graphic markets which are in middle of the cost/size continuum graphic markets which minimize distribution costs

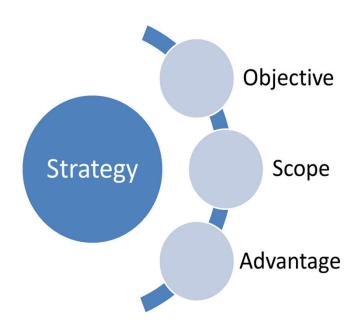
Do you know what these strategies are?

Competitive posture build a market position and defend it take the lead and keep it be first to market be the leader in all things be a fast follower, imitate smart competitive moves attack the competition on their home ground sidestep the competition whenever possible expend resources which distract the competition ignore the competition write your own write your own Distinctive competencies be the low price provider in the market be the market share leader be the profit margin leader be the technology leader be the high service provider in the market write your own write vour own

You will choose cities for your sales offices, based on target market demand.



Your team will submit a strategy/mission statement & market size focus...



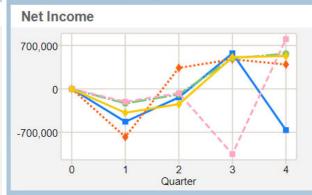


Recreation	3rd Priority ▼	To provide the most reliable products to our target audience as efficiently as possible.
Mountain	2nd Priority ▼	To keep costs low and profits high.
Speed Speed	1st Priority ▼	To become the market share leader in our industry
larket size		
	r. high margin segments	
focus on smalle	r, high margin segments highly competitive segme	ents
focus on smalle		
focus on smalle	highly competitive segme	

Forget the real world, listen to the data...







Key tips for the Simulation Game

1. You must decide on the price and/or rebate based on your differentiation or low-cost strategy. Do not assume that you can use the average selling price since there are 2 other competitive companies in the industry.



- 2. Your market share in a given target city will depend on the competition, pricing, brand rating, perceived price/quality, advertising, number of sales people and their compensation.
- 3. It's recommended to target at least 2 segments, 2 brands and more than one city for your test market.
- 4. The simulation game rewards first-movers and aggressive growth strategies.

Simulation Game Balanced Scorecard & Ranking

Industry Results for Quarter: 3											
Company Name \$	Total Performance \$	Financial Performance \$	Market Performance \$	Marketing Effectiveness \$	Investment in Future \$ V	Wealth \$	Human Resource Management \$	Asset Management \$	Manufacturing Productivity \$	Financial Risk \$	
Nimbl Bikes	67.481	63.192	0.425	0.785	3.968	1.029	0.686	1.280	0.893	1.000	
Celeritas Cycles	44.303	45.574	0.380	0.825	5.217	0.885	0.698	1.141	0.843	1.000	
Alpine Bikes	49.986	38.452	0.375	0.865	6.526	0.754	0.760	1.099	0.975	1.000	

Some useful help topics and videos

Please use the game **Help tab** in each decision period.

Play each target market segment as a separate world wide "competition".

Stockouts in the factory https://www.youtube.com/watch?v=AZaCKOkx3Lc

Pricing too high

https://www.youtube.com/watch?v=t-Td9Y2sfbs

Company Executive Team Final Presentation Report

This final Board Presentation is the all-important End-of-Year Operational Review that summarizes the highlights and lowlights of the first year and four quarter results of your startup company.

Your presentation report will focus on the following:

Cover/Title page: Company name and headshots of your executive team with titles. What are the roles and responsibilities of the team? How has that worked out? What should you do differently going forward?

Section 1. Strategy Positioning, Market Segments, Product-Brand-Geographic Scope. How has the market and industry changed since your company started? If so, did it affect you negatively or positively?

Section 2. Quarterly and Overall Performance—Revenues, Profits, Market Share, Geographic Scope, Balanced ScoreCard, other achievements

Section 3. Competitive dynamics. How has your position in the industry (competitive advantage) and the market (user feedback and share) changed? Did you do what you said you would do in your strategy statement? Did you need to adjust your strategy or your implementation? What were your strengths and weaknesses compared to your competitors?

Section 4. Unconstrained by the simulation, what high tech or value innovations would you put in place?

Section 5. Lessons Learned

4°pts¶ Very:Effective/Strong¶

Excellent review and assessment of strategy. and performance. The team·clearly·understood· how its decisions. affected performance. Strategy and tactics were well-integrated-acrossfunctions. It was clear how-the-team-purposelyattacked opportunities. and dealt with problems. The team was forthright in reviewing data that reflected·both·good·and· bad-decisions-and-thedegree-to-which-goalsand promises were achieved. The team. clearly justified the deviations to its goals, strategy, and tactical. plans.¤

3°pts¶ Effective/Very·Good¶

The team properly assessed·how·well·its· strategy and tactics. were conceived. and/or executed, using. data-to-support-itsarguments. It was also candid in reporting. how-well-it-met-itsgoals and promises. The team justified. most of the deviations. to goals, strategy, and tactical plans, but not all-of-them. Potentially could have done-morecompetitive. benchmarking.¤

2°pts¶ Needs:Improvement¶

The team did not dig very deeply into why things-went-well-orpoorly. While there was·some·thoughtful· analysis, there was not-a-clearunderstanding as to how-the-team'sstrategy and tactics. affected its. performance. The team·was·not·entirely· candid·in·reviewing· events or taking. responsibility for its. performance. Data that·might·have· shown·weak· decisions/was/absent.¤

1°pts¶ Weak¶

Candidassessment of strategy and tactics was lacking. Very little insight was offered as to why things went well or poorly. The team did not take responsibility for weak performance in any area