MIS782 Value of Information

Class 3 (week 3)







Value of information

HOW DO ICT INVESTMENTS GENERATE VALUE?

understand:

Firms need to How to gain competitive advantage based on the their underlying resources. How competitive advantage from business and how emerging IT opportunities, such as social media analytics, can generate business value from investments in these areas.

Analyse how organisations adapt to changes or disruptors in the technology landscape to preserve and sustain an advantage.

In this unit, we will discuss:

Module One + Two

- 1. Business Value Returns from IT Investments
- 2. IT Portfolio Theory
- 3. Analysing competitive advantage - RBV
- 4. Analysing competitive advantage - VRIO

Module Three + Four

- 5. Analytics as a capability
- 6. Business Case Development
- 7. Analytics as a capability -II: From business data to business insight

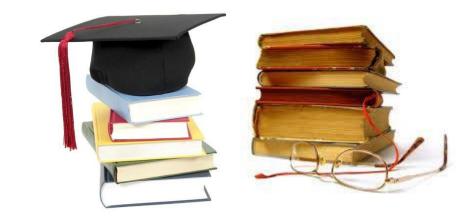
Module Five

- 8. Dynamic capabilities through Information Asymmetries
- 9. Competing on Information
- **Asymmetries**



Week 3

- -Assignment 1
- ■The Strategic Management Process
- Resource-Based View (RBV)





Assignment 1

Where is Assignment 1?

CloudDeakin site → Content → Assessment Resources
You have all of the information you need to complete the task.

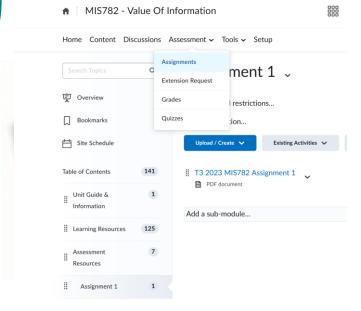
Where to submit my completed Assignment 1? CloudDeakin site → Assessment → Assignments

Given the 1,500 words limit, an update in assignment 1:

Specific Requirements

This report should be no more than 1,500 words (excluding the references and appendices). To complete this report, you should conduct research on GPU business of Nvidia and its competitiveness. Your task is to understand its investments in information and IT for business value returns to support the GPU business (note our focus is not on the actual GPU manufacturing and innovation). You also need to examine its key resources and capabilities to assess its competitiveness in a highly competitive market. More specifically, you should find answers to the following two questions:

1. To what extent does this organisation have an IT portfolio which provides a balanced view of value, risk and return? Answer the question using examples of key IT assets the organisation seems to have invested in the last five years for gaining real business value for competitive advantage. Indicate if the business returns are tangible or intangible.





Assignment 1 – Any Other questions?

- You are encouraged in the first instance to ask questions to your lecturer/tutor during the class/seminar.
- You can also post questions on the CloudDeakin site in the relevant discussion forums as a last resort. The teaching team will respond to this forum.





January 1999 – Start of Digital Music Era

Shawn Fanning launched Napster. January 1999

December The Recording Industry Association of America

(RIAA) sued Napster 1999

July 2001 Napster terminated

Forrester Research predicted, 1/3 of all musicsales 2002

would come from downloads by 2008.

2003 **iTunes** is introduced, 200,000 tracks

Others join: Amazon 2007

Today iTunes: 43 million tracks

Spotify: 75 million monthly active users

(20 million subscribed users)

https://www.youtube.com/watch?v=Z1Dh3lp9jC8







Structure of Topic

VALUE OF INFORMATION

Phenomenon

- Understanding Competitive Advantage
- The Strategic Management Process

Abstraction

- The Resource Based View (week 3)
- The VRIO Framework (week 4)

Application

- Google / Microsoft case
- Amazon GO case
- Netflix case



What is Strategy?



A firm's strategy is defined as its theory about how to gain competitive advantage.

Strategic Management Process: The definition

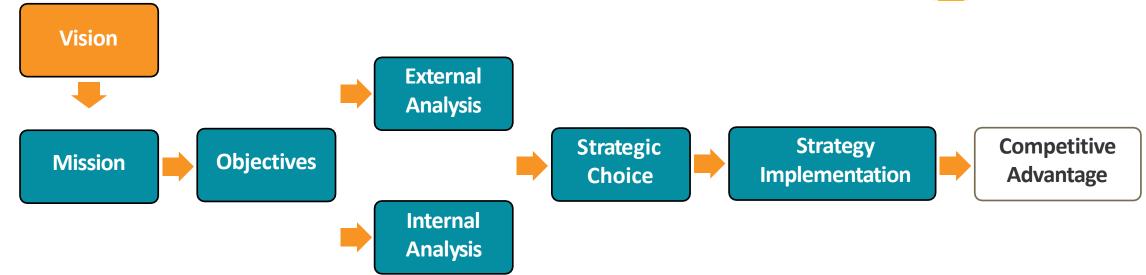
A sequential set of steps (analyses/choices) that can increase the likelihood that a firm will choose a good strategy.





The Strategic Management Process







Vision Statement



"to provide access to the world's information in one click".

Larry Page (1998)

ACCESSIBILITY

→ Offering its search engine services to everyone around the world

WORLD'S INFORMATION

→ Maintains databases containing indexes of websites

ONE CLICK

→ easy-to-use Google Search





Mission Statement



"To organize the world's information and make it universally accessible and useful."

Larry Page (1998)





Vision & Mission Statements

	VISION	MISSION	
Purpose	What does the organization aim to achieve in the FUTURE	What a company is CURRENTLY doing	
Answers	What do we want to become?	What do wedo?	
Includes	 Purpose Values 	 Customers Products/Services Markets Technology Concern for survival Philosophy Self-Concept Concern for public image Concern for employees 	
To whom it is developed?	Employees of the company	Employees, customers, suppliers, distributors, partners and communities	
Order	Developed first	Developed only when vision is available	ACC





Vision STATEMENT – Microsoft



"A computer on every desk and every home."

- Bill Gates and Paul Allen, 1975



Microsoft

Vision STATEMENT – Microsoft



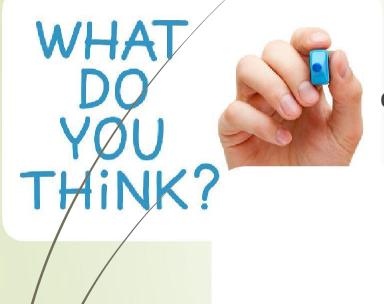
"Empower people through great software anytime, any place and on anydevice."

- Bill Gates, 1999



Microsoft

Vision STATEMENT – Microsoft



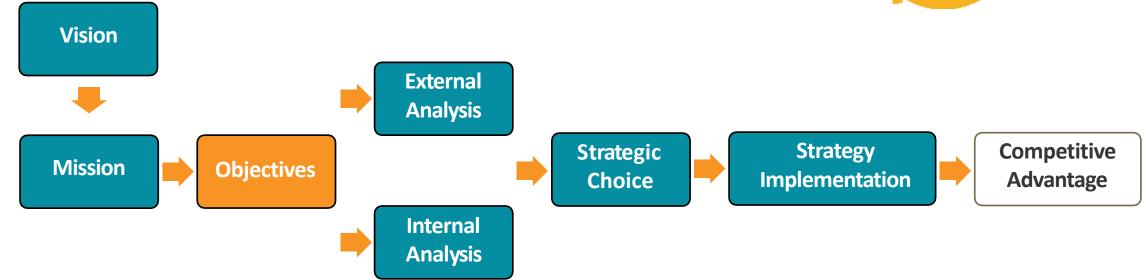
"To be led by a globally diverse workforce that consistently delivers outstanding business results, understands the various cultural demands of the global marketplace, is passionate about technology and the promise it holds to tap human potential, and thrives in a corporate culture where inclusive behaviours are values."

Steve Balmer, 2013



The Strategic Management Process







Objectives

- Objectives are measurable targets a firm can use to evaluate to what extent it is realizing its mission.
- targets of the firm.
 - F Examples:



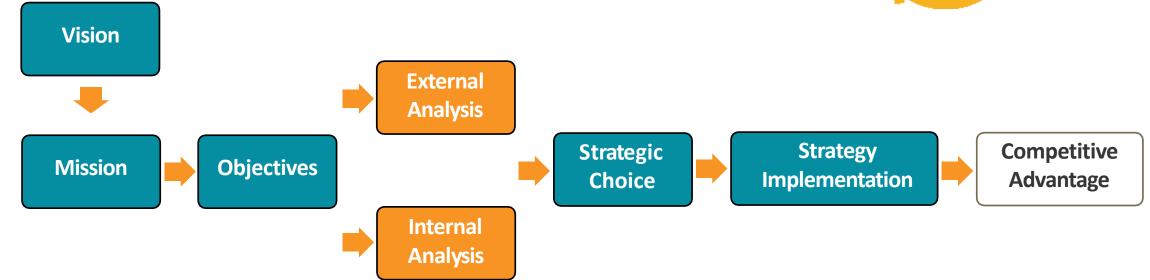
Objectives

- ► What can be a business value target flowing on from the transactional asset class?
- What can be a business value target flowing on from the strategic asset class?



The Strategic Management Process







External and Internal Analysis

External Analysis

VRIO

- ↓ Identification of threats and opportunities in competitive environment

Internal Analysis

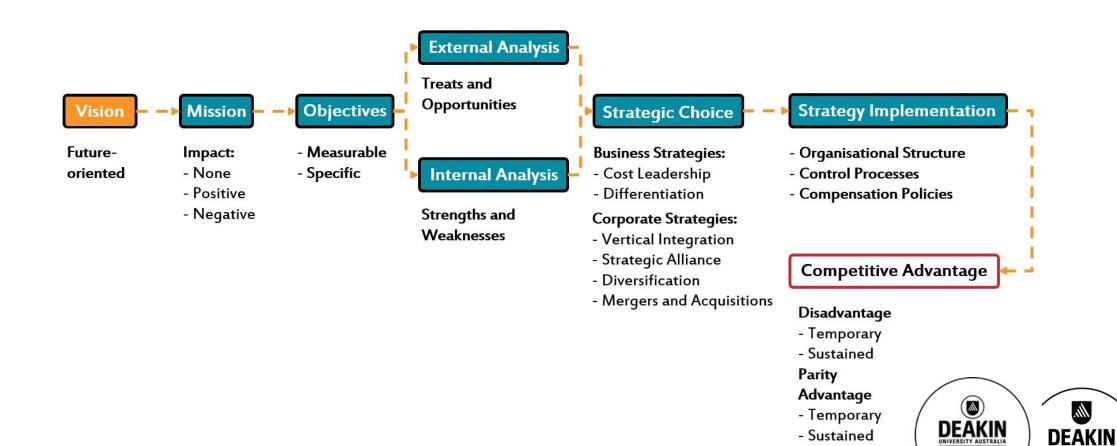
RBV

- ↓ Identification of organizational strengths and weaknesses
- ↓ Source of competitive advantage (resources and capabilities)
- ↓ Identification of areas that require improvement or change





Summary: The Strategic Management Process



Worldly

BUSINESS SCHOOL

Strategic Choice

"Theory of how to gain competitive advantage"

- Business-level Strategies (single market or industry)
 - ' Cost leadership
 - Product differentiation



- Corporate-level Strategies (multiple markets or industries)
 - Vertical integration (suppliers/buyers)
 - Diversification strategies (new markets, new products)
 - Strategic alliances (business partners pursuing one goal)
 - Mergers and acquisitions (buying, selling, dividing, combining companies)
 - Global strategies (presence)





Strategic Choice





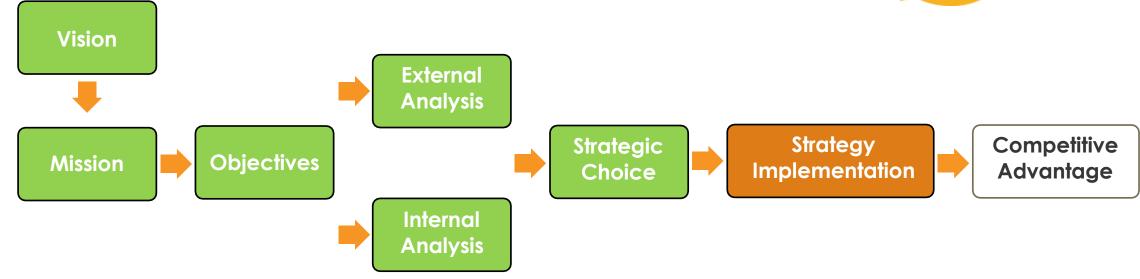
- What technology companies can you think of that focus on product differentiation (innovation)?
- What technology companies focus on cost leadership?
- Can you think of any companies (technology or otherwise) that have switched from cost leadership to product innovation or vice versa?
- Reflecting back on last week, how can the IT portfolio asset theory aid a firm's strategic choice?
 - Are some assets more important than others when pursuing different strategies?





The Strategic Management Process







Strategy Implementation

Strategy implementation occurs when a firm adopts organisational policies and practices consistent with its strategy:

- Formal organisational structure
- ' Management control system
- ' Employee compensation policy
- How does Deakin align its IT with its strategy?



Competitive advantage

 A firm is said to have a competitive advantage when it acquires or develops an attribute or combination of attributes that allows it to outperform its competitors by creating more economic value.

(Barney & Hesterly, 2012)

 Economic value is the difference between customer benefits from using a product and service and the full economic cost of these goods and services.





Competitive Advantage

Competitive Advantage

When a firm creates more economic value than its rivals



Temporary Sustained Competitive Advantages Competitive Advantages

Competitive advantages that last a short time

Competitive advantages that last a long time

Competitive Parity

When a firm creates the same economic value as its rivals

Competitive Disadvantage

When a firm creates less economic value than its rivals



Temporary Competitive Disadvantages Competitive Disadvantages

Competitive disadvantages that last a short time

Sustained

Competitive disadvantages that last a long time





The Resource-Based View (RBV) of the Firm

The Resource-Based View (RBV) as a basis for the competitive advantage of a firm lies primarily in the application of a bundle of tangible or intangible resources and capabilities at the firm's disposal.

A model of a firm performance that focuses on **resources** and **capabilities** controlled by a firm as **sources of competitive advantage**.



Key Assumptions of RBV

1. Resource and capability heterogeneity

Different firms may possess different bundles of resources and capabilities (e.g., different skill levels in accomplishing business activities).

2. Resource and capability immobility

Competitors may find it difficult to obtain the same resources/capabilities.

Does this hint at two ways in which togain competitive advantage?



RBV: Resources

1. Tangible resources:

Financial

(e.g., cash reserves, investments, debt and equity, etc.)

Physical

(e.g., machines, office buildings, manufacturing facilities, raw materials, etc.)

Certain ICT resources

(e.g., infrastructure, hardware)

2. Intangible resources:

(e.g., brand names, patents, trademarks, copyrights)

3. Structural and cultural resources:

(e.g., organizational history, culture, policies, level of trust)

Examples?

- Factories
- Reputation
- Teamwork





RBV: Capabilities

Subset of resources that **enables a firm to utilize** (take full advantage of) other resources it controls.

Four types of capabilities (Leonard-Barton, 1992)

- **✓ Skills and knowledge of employees** (e.g., technical and professional skills)
- **▼ Technical systems** (e.g., advanced technologies, novel tools)
- **Values and norms** (e.g. employee empowerment)

Examples?

- Marketing skills
- Business analytics systems
- Salary package
- Working atmosphere

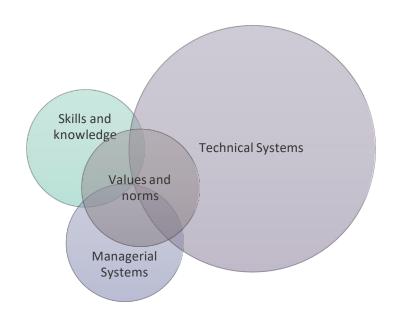




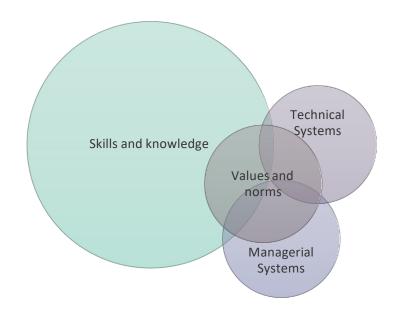


The four dimensions of core capabilities

• The four dimensions may represent different proportions in various capabilities.



Manufacturing Company



Pharmaceutical Company





Exercise on RBV

Amazon/Spotify/Tinder

Watch the video for a quick Intro to their business models

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

- Choose a single case study. Use the case study to develop a list of resources and capabilities that they have access to.
- Identify at least 3 resources/capabilities and explain wether they can be considered as sources of competitive advantage.





