



# MIS

Management  
Information  
System

# Management Information System

social science course that study the interconnection between



People



Tech



Organization

# Management Information System

social science course that study the interconnection between

This course is particularly focusing on business processes and information technology in equal portion. As the rapid development of information retrieval methods, MIS is currently one of the most popular courses in the field of information science. This course is an essential to any student who has interest in technology and the desire to use technology to progress and advance people's community.

- **3 Things we are looking into in MIS course?**



- **Purpose of MIS ?**

***“To Distribute Information – Making Good Decision”***

The primary purpose of a management information system, or MIS, is to assist managers in making strategic, tactical and operational decisions in an efficient and productive manner.

(Reference.com, 2020)



# Are u Tech-savvy?

How conversant are you with technology?

3 “*technological*”  
words/terms/thing/brands/...  
that you know

# Why MIS?





## **COURSE DESCRIPTION**

**1**

**Our awareness of the relationship between business and technology.**

**2**

**Concentrates on the technical foundations of MIS**

**3**

**Introduces various types of enterprise information systems and their role**

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WEEK 1

**BUSINESS  
DRIVEN MIS**

# WHAT IS **MIS DRIVEN BUSINESS**?

**A Business** is an organized and operated activity where goods and services are made available to the community with profit making are involved (Maitrayee, 2020)

**A MIS Driven Business** is a venture / business / commerce that is conducted by the concept of Management Information System (Baltzan, 2020)



## Information system:

A form of mechanism utilized to collect, attain, deposit, process raw data. This practice is intended to produce meaningful information, strategic knowledge and other digital products (Zwass, n.d)

**Many business, companies, organizations depends on information systems to remarkable extent** in order to **manage** their operations, **engage** with their supplier and customer, and **take part** in the marketplaces competition. Information systems are also used to **carry out** interorganizational E-business and its supply chains products (Zwass, n.d)

Information systems (IS) has ***enabled marvelously diverse human activities***. Information Systems (contribute) a (great) ***influence*** toward community.

The concept of IS has rapidly escalated the changing progress of our daily activities, it provides people an opportunity to develop novel and more-rewarding relationships, disrupted the workflow of organizations, **changed the type of service and products bought**, as well as **influenced the nature of work**.

Information and knowledge became very crucial for economic resources. However, these new opportunities are never far away from ***new threats***.

***Example of novel nature of activity which never been before  
Information System was introduced***



**BEAT SABER**

**@LSToast**

Logan Theobald  
(VR Talent)

**#5 Top Beat Saber  
Player  
In the World**

<https://www.youtube.com/watch?v=lvGCEPm4yc>

For example, **business firms and organizations** is employing information systems to execute financial accounts, to govern their resources, and to engage with their consumer to fullest extent.

**A number of major players in global markets major companies** are identified as highly driven by Information systems. eBay, [Alibaba](#), [Amazon](#), [Google](#), and many more.

**Governments** are steadily adopting information systems concept aiming to serve more efficient and affordable online services to their citizens.

**Digital goods** are penetrating modern market globally—such as [eBooks](#), [video cloud-based video game distribution](#), [video products](#), [iOS and android applications and software](#), [social medias](#) are unstoppable.

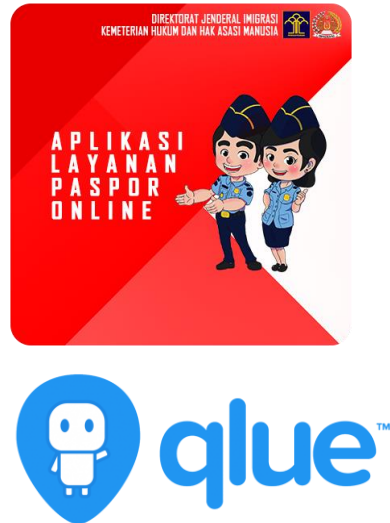
**Individuals** heavily depends on internet almost 24/7 involving within almost every corner of people's personal lives: for study, shopping, interacting with others, socialization, financial services and entertainment.

# Business / Company / Firm / Service built on Information System:

## Big Company



## Government



## Entertainment/ Online Service



## Individual



Describe the information age and what things we need to survive this Age (Baltzan, 2020, p 17-26)

WEEK 1

# INFORMATION AGE



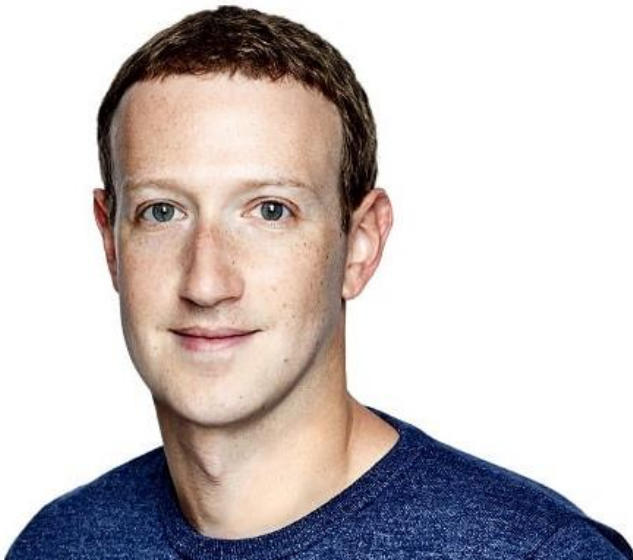
# INFORMATION AGE

**Information Age:** *“The present time, during which infinite quantities of facts are widely available to anyone who can use a computer.”* (Baltzan, 2020)

Back in the day, Books are the source of facts and information but nowadays, everything is just on our finger tip and the very handheld devices and can be accessible from anywhere, at anytime.

**The impact of information technology** *“on the global business environment is equivalent to the printing press’s impact on publishing and electricity’s impact on productivity.”* (Baltzan, 2020)

## Business Competition in Information Age **ONLY FOR TECH SAVVY STUDENT ???**



**Psychology Student  
Dropped Out**

Purpose: **To connect his  
campus friends one  
another**



**International Relation  
Student**

Purpose: **Membantu  
tukang ojek**

The Amazon logo, featuring the word "amazon" in lowercase black letters with a curved orange arrow underneath it.

Purpose: **Sell Books**



Purpose: **Video Rental**

# IoT

**Internet of Things (IoT):** A realm where interconnected, Internet-enabled devices or “things” can interact and distribute data without human intervention. (Baltzan, 2020)

## Example of IoT Device:



- IoT connect things in a **way we hardly ever thought before**
- **In 2025 = 100 billion IoT devices**

**Machine-to-machine (M2M)** *“Devices that connect directly to other devices”*

(Baltzan, 2020)

# ***Risk and Threat of IoT***



*What if someone hacked into your system and messed up with your house?*

**CONVEY YOUR THOUGHTS/OPINIONS about this!**

*Water -> shutdown  
Car -> Auto drive  
Door -> unlocked*

# BUSTED

### The Internet of Things Is Wide Open—for Everyone!

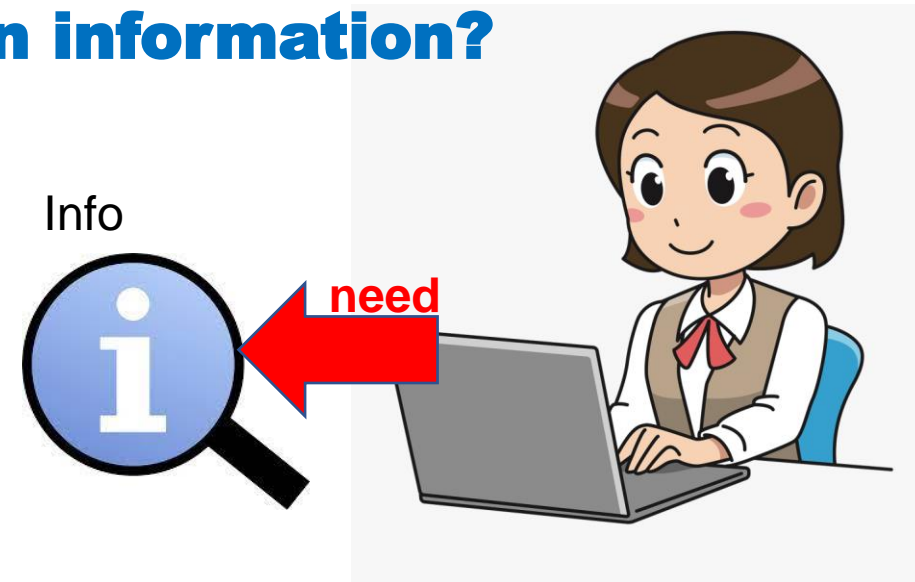
IoT is transforming our world into a living information system as we control our intelligent lighting from our smartphone and perform a daily health check from our smart toilet. Of course, with all great technological advances come unexpected risks, and you have to be prepared to encounter various security issues with IoT. Just imagine if your devices were hacked by someone who now can shut off your water, take control of your car, or unlock the doors of your home from thousands of miles away. We are just beginning to understand the security issues associated with IoT and M2M, and you can be sure that sensitive data leakage from your IoT device is something you will most likely encounter in your life.<sup>2</sup>

In a group, identify a few IoT devices you are using today. These can include iWatch, fitness trackers that report to your iPhone, sports equipment that provides immediate feedback to an app, or even smart vacuum cleaners. If you are not using any IoT devices today, brainstorm a few you might purchase in the future. How could a criminal or hacker use your IoT to steal your sensitive data? What potential problems or issues could you experience from these types of illegal data thefts? What might be some of the signs that someone had accessed your IoT data illegally? What could you do to protect the data in your device?

- Identify a few IoT devices you are using
- If you're not using any, think of what you might/want to have in the future
- How could a criminal/hackers use your IoT to steal you private data?
- What problem could you experience from these type of illegal data thefts?
- What are the signs that someone had accessed your IoT data illegally?
- What could you do to protect the data in your device?

**Information:** Data converted to become substantial/meaningful and useful context Baltzan (2020)

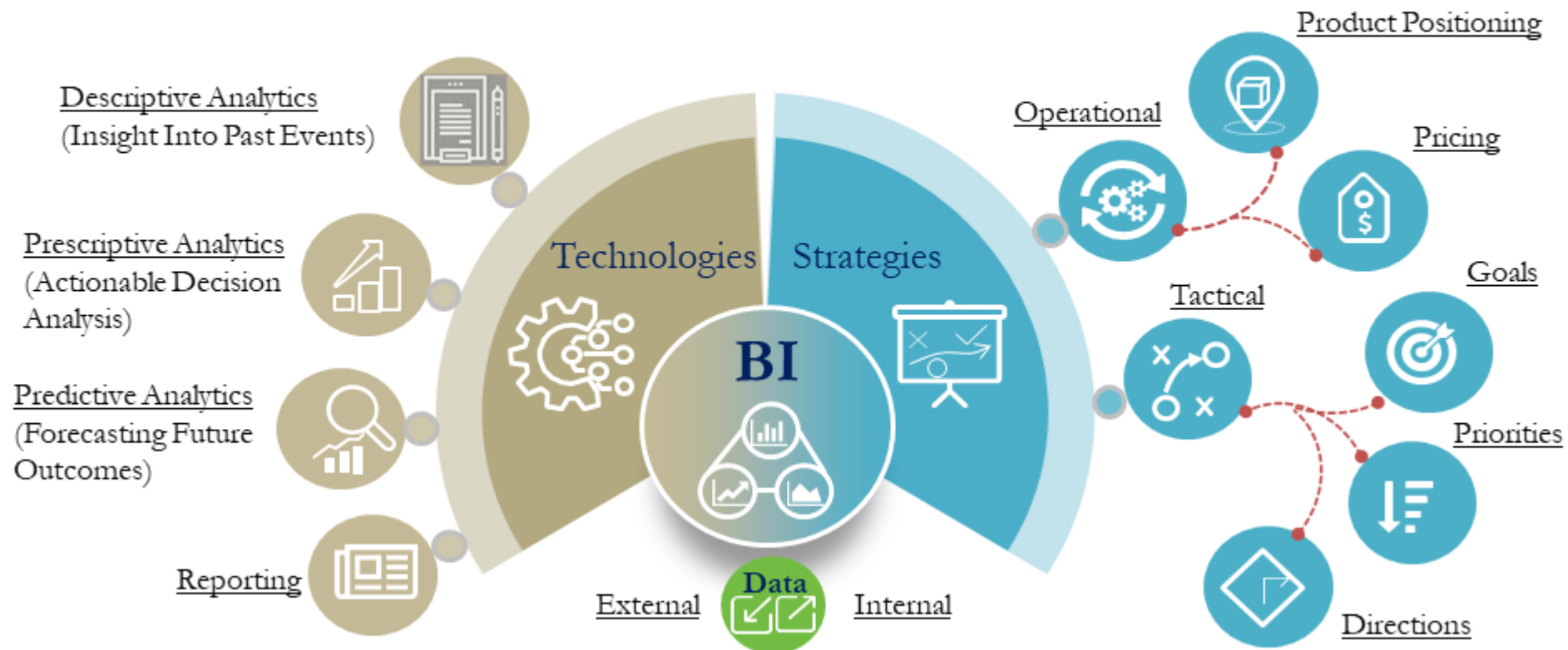
## How do u simply explain a data and an information?



**Variable:** Traits/sets bound to data that changes or varies over time based on the value change Baltzan (2020)

**Business Intelligence (BI):** Collection of Information such as consumers, suppliers, customers, and competitors utilized to identify trends, patterns and correlation for strategic decision making. Baltzan (2020)

## What is Business Intelligence?



**Analytics:** Field of study about fact-based decision making.

Baltzan (2020)

## Descriptive Analytics



What has happened?

## Predictive Analytics



What could happen in the future based on previous trends and patterns?\*

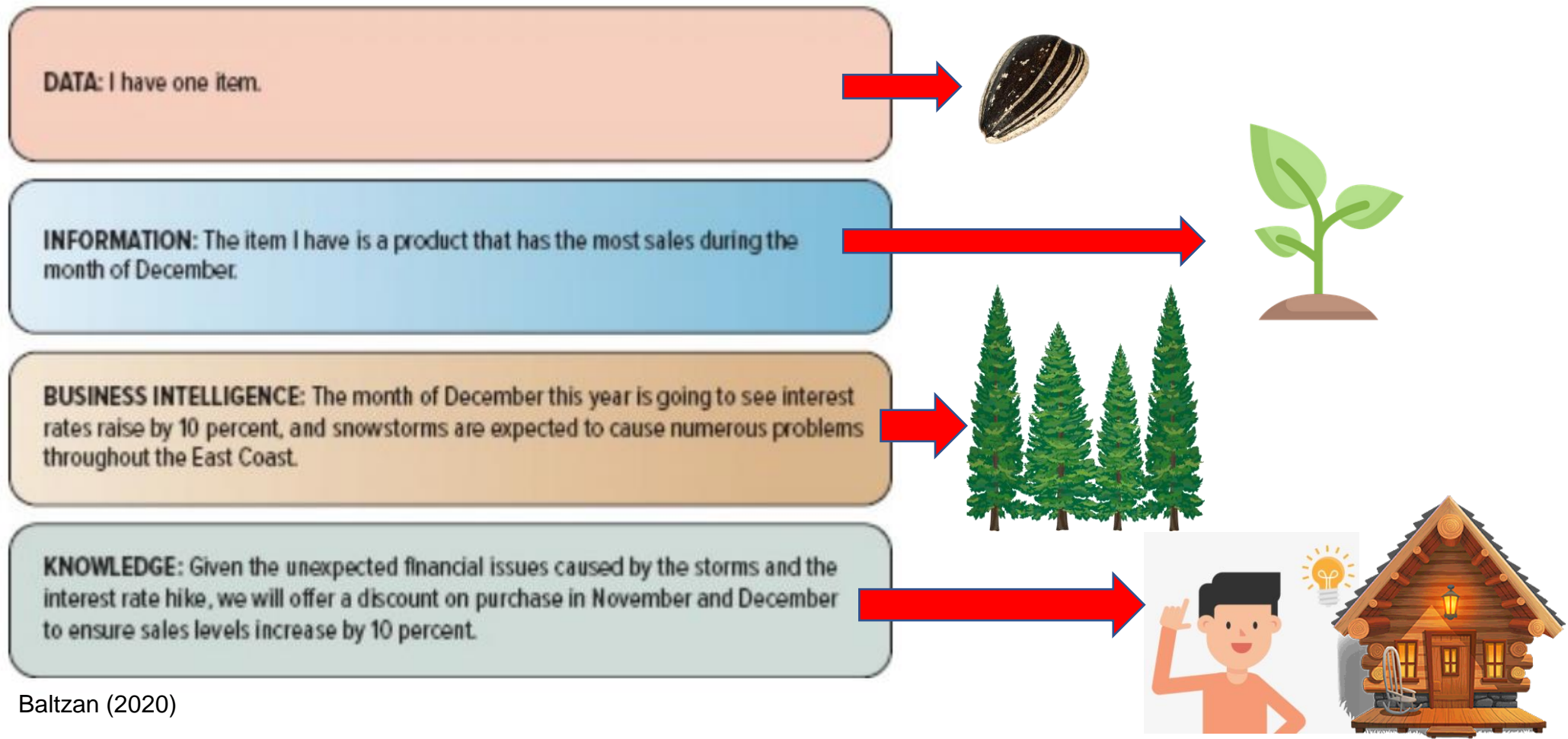
## Prescriptive Analytics



What should a business do?

**Knowledge:** A combination of experience, proficiency, information and intelligence coupled with information and intelligence that produces an intellectual resources. Baltzan (2020)

**FIGURE 1.10** Transformation from Data to Knowledge





*YOU ARE LIVING IN THE*  
**“INFORMATION AGE”**

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Thank  
you

**End of Presentation**