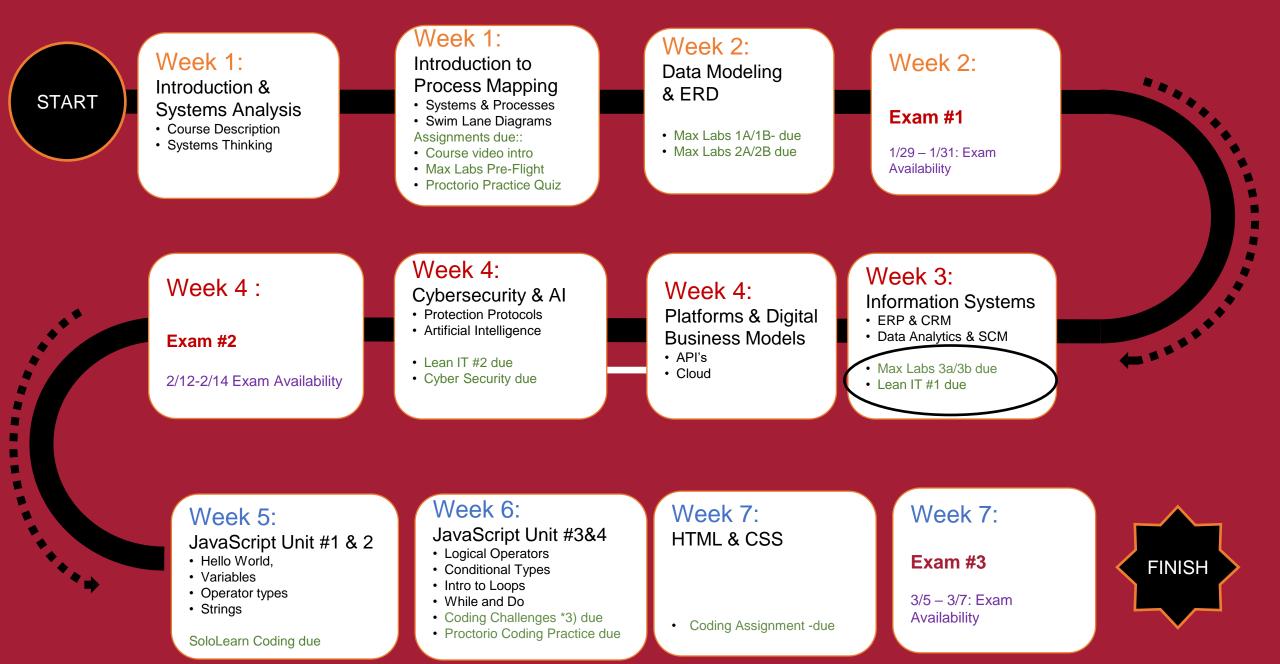


Digital Systems

Week 3



ROADMAP





Business Systems Innovation Labs Lab 3a Pre-flight Checklist

"NeedSuperpowers? Go Cyborg w/SF......8-O"

In this episode, Max's job is getting out of control and she can't keep up. Fortunately, she figures out how to build business rules into SF to make it help do the work. That's *process automation*—how you make the computer do the busywork so your job is *scalable*. She also uses Customer Relationship Management (CRM) to better deal with customers (VCs & Angels, in her case), even when there's tons!

Prep: What do you need to start?

Max Labs 3a & 3b

Due by EOD Sunday – LAST MaxLab!



Data Driven Humans = Cyborg?

- Technology Awareness
- Managing Data
 - Scalability
 - Automation
 - Templates



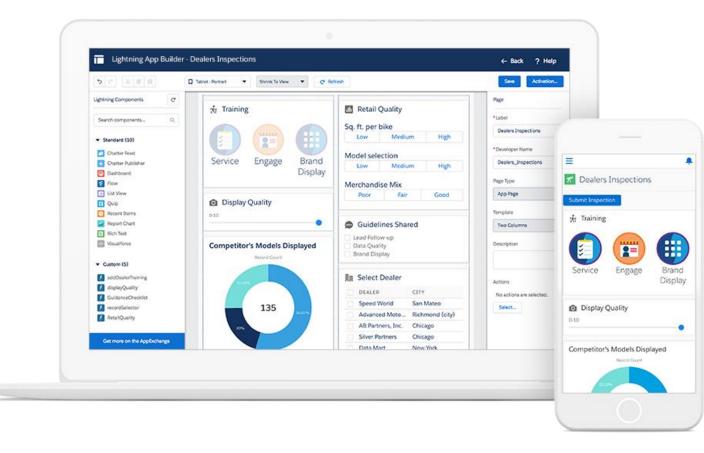
Source: https://thumbor.forbes.com/thumbor/960x0/https%3A%2F%2Fspecials-images.forbesimg.com%2Fdam%2Fimageserve%2F935226186%2F960x0.jpg%3Ffit%3Dscale





Platform Tools

- Programming
- Implementing Business Rules
- Automation



Source: https://www.salesforce.com/products/platform/lightning/



Cyborg CRM?

- Business Processes
- Platform Features
 - Managing Communications
 - Process Automation



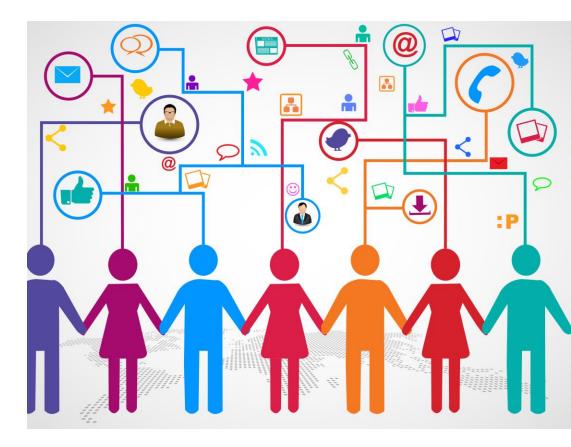
Source: https://designerd.info/features/neil-harbisson-the-art-of-being-a-cyborg/





"Social Business"

- Internal vs. External
- Communication Tools
- Enterprise Environment
- Practice Professionalism



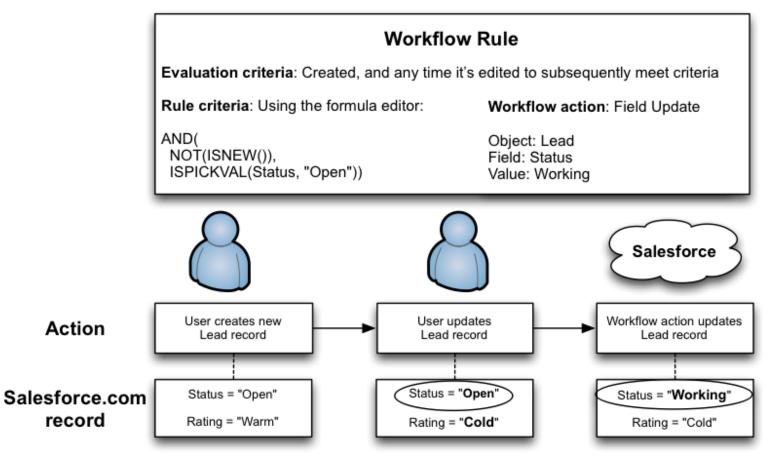
Source: https://joannemccall.com/wp-content/uploads/2017/02/social-network_110003543-012814-int.jpg





Workflows

- Task Sequences
- Rule Creation
- Assignation



Source: https://c1.sfdcstatic.com/content/dam/blogs/us/May2016/Picture15.png

FOX MIS



Available Merge Fields Select Field Type

Select Field

.

Email Messaging

- Creating forms & templates
- Auto-response
- Configuration

Annual Revenue	v	
opy Merge Field Value [Lead.AnnualRevenue}		
opy and paste the merge field value	e into your template below.	
Step 2. Text Email Template:	: New Template	Step 2 of 2
		Previous Save Cancel
Email Template Information		= Required Information
Folder	Unfiled Public Email Templates 🔻	
Available For Use		
Email Template Name	Test	
Template Unique Name	Test	
Encoding	General US & Western Europe (ISO-8859-1, ISO-LATIN-1) ▼	
Description		
Subject	test	
Email Body	{ILead AnnualRevenue}	
		Previous Save Cancel

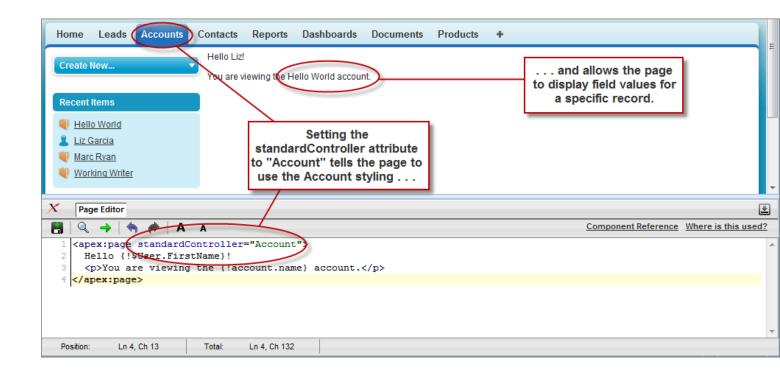
Source: https://developer.salesforce.com/forums/servlet/rtaImage?eid=906F000000D6Js&feoid=Body&refid=0EMF000000TjgE





Coding – It's as simple as that!

- Display values
- Create Attributes
- Configuration
- API's



Source: https://developer.salesforce.com/docs/atlas.en-us.pages.meta/pages/pages_quick_start_display_field_values.htm





"The Cloud"

- API's
- PAAS
- Automation
- Coding
 - HTML



Source: https://i1.wp.com/www.startupmgzn.com/english/wp-content/uploads/2018/06/shutterstock_710262001.jpg?resize=740%2C494&ssl=1





Human/Cyborg – Process Improvement

- Organizational Benefits?
 - Better/Faster/Smarter
 - Leveraging Technology
 - Scalability



Source: https://geospatialmedia.s3.amazonaws.com/wp-content/uploads/2019/01/AI-1.jpg





Learn IT! #1

Due by EOD Sunday



Learning Goals

TOPICS

- Individual branding and reputation management
- Digital identity and portfolio
- Privacy
- Search neutrality
- Communities of practice

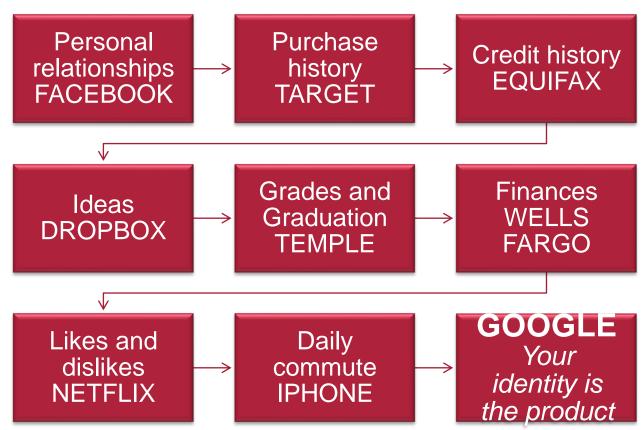
TECHNOLOGIES

- Community platform
- Cloud system
 architecture
- E-portfolio
- Web analytics
- SEO (search engine optimization)





What is a digital identity?

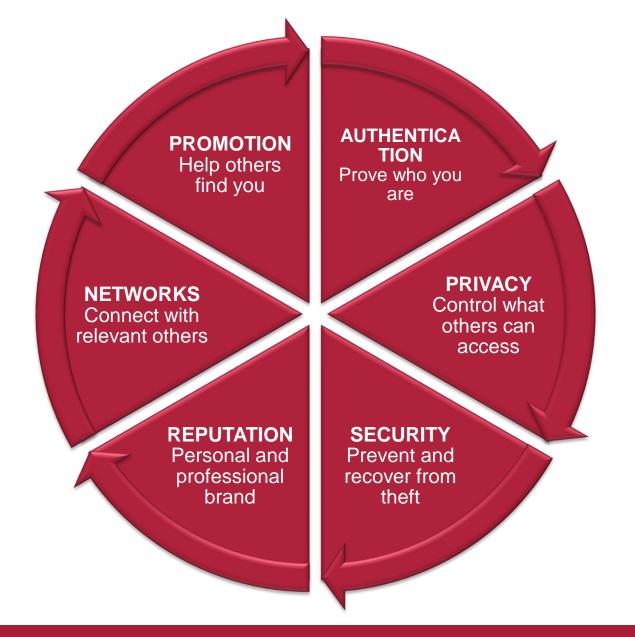


Source: The next revolution will be reclaiming your digital identity by Nik Milanovic, https://techcrunch.com/2017/10/17/the-next-revolution-will-be-reclaiming-your-digital-identity/





Digital identity management







Active digital identity management

Shape professional reputation Connect with relevant others





Community Platform

Cloud based platform built on WordPress

- social exchanges,
- open co-creation,
- digital branding

Website E-portfolios Professional achievement program Courses

- Only platform that integrates web, professional development & coursework.
- Proprietary to the nationally ranked Fox School's MIS department.



Digital Identity Management Assignment



program

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• Indeportants	• Sessors				
Ø RaiTre			Frdg. 2: August 2014 + Sensors 8		
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+Technology +Mobile	Pages / Session 0.00	Ag Session Duration 00:00:00	Bounce Rate 0.00%		AND MAST
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MIS major e-portfolio design requirements









Fox major e-portfolio design requirements

- 1. Professional picture
- 2. About me (home) page
- 3. Three pages including "My Interests"
- 4. <u>Remove all extra</u> posts and pages

	T Fox School of Business
About	MY INFORMATION
	3 • <u>About</u> • <u>How to display pages in here</u> • <u>Pages vs. posts</u> • <u>Resume</u>
Replace this image with a professional or business casual picture	RECENT POSTS Removing the sample posts and pages How to use posts How to display a recent project Adding pictures
Josie Smith	Internship at XYX
BBA in MIS, Fox School of Business, Temple University	
Email: XXX@temple.edu	
Biography	
Thanks for looking at my eportfolio! I am originally from Lancaster, PA and went to ABC High. I am currently working on an internship at XYZ this summer. I chose MIS as a major because I believe IT will change the world and I am interested in a career that focuses on digital innovation.	



E-portfolio tips

DO'S

- Help Google: Include full name in the site title.
- Sample work. This is your digital portfolio!
- Describe work experience.
- Involvement in non-profits.
- Pictures of professional experiences.
- Proofread
- Google and Mobile friendly formatting.

DON'TS

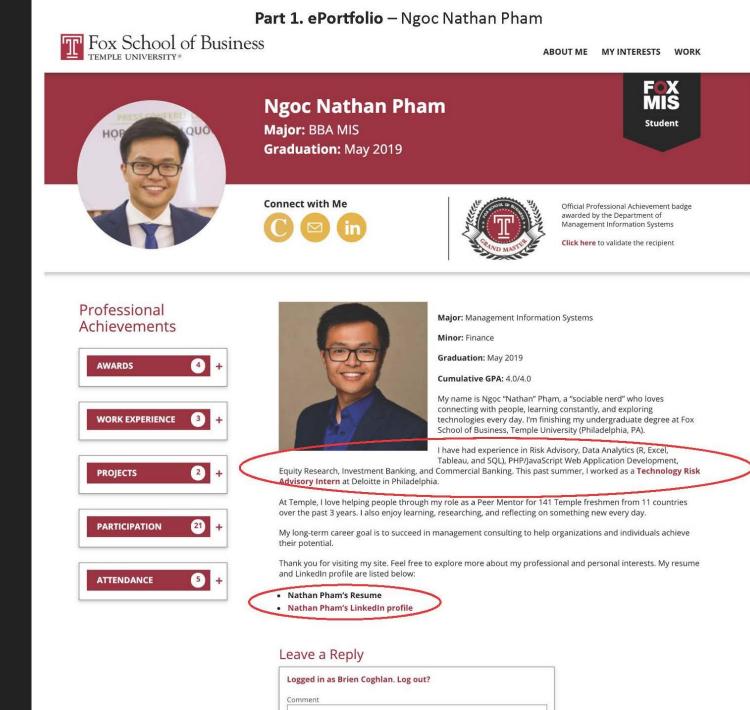
- Inappropriate photos
- Inappropriate content
- Private information
- Broken hyperlinks
- Word documents
- Don't password protect or close the site.
- Don't use custom formatting





Learn IT! #1







Digital Systems

5.1 Information Systems Part I – CRM & ERP



What is ERP?

Enterprise Resource Planning

- Software or a System that:
 - Integrates functions
 - Streamlines processes
 - Manage core business

What problems could be solved by an ERP?



Source: https://erpinnews.com/5-enterprise-resource-planning-erp-trends-to-watch-in-2019

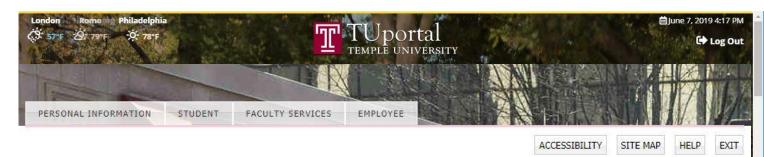




ERP – example TU Portal: banner

Database with a holistic vision!

- Who uses banner?
- What functions does banner serve for each user?
- What are the benefits to the University?



Main Menu

Personal Information

View and update: address, phone, emergency contact and TUalert information.

Student

Apply for Admission, Register, View your academic records.

Faculty and Advisors

Enter Grades and Registration Overrides, View Class Lists and Student Information

Employee

Review benefits and deductions, pay information, tax forms, leave activity, and enter a Leave of Absence request.

RELEASE: 8.8.3

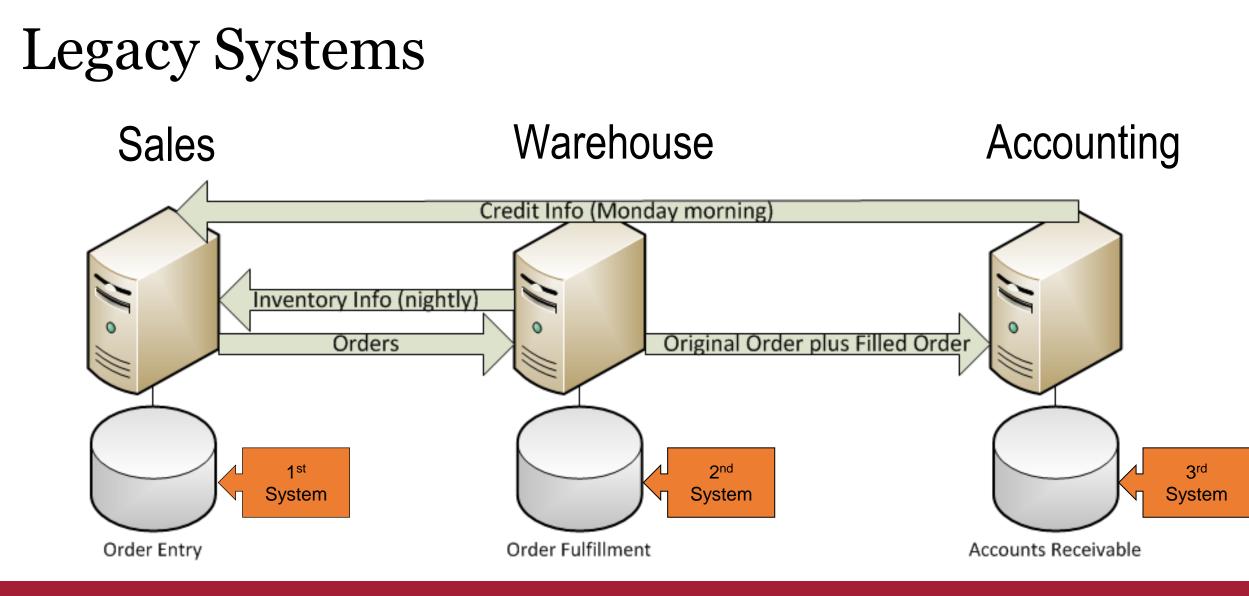
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If asked by Client Services, this is server 6









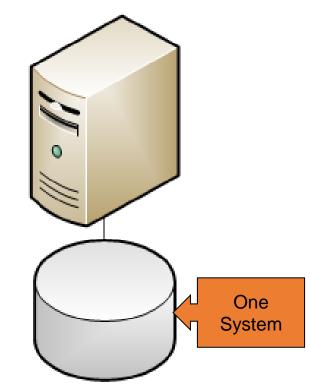


Enterprise Systems

Sales + Warehouse + Accounting

ERP analysis

- How many copies of data?
- What about decision making?
- What is eliminated?
- Client impact?







ERP – Key Takeaways

How does ERP create value?

- Integrated Database
 - One copy of data
- Collaboration
 - Improves decision making
- Flexibility & Mobility
 - Access anywhere/anytime
- Lowers costs



Source: http://blog.pragtech.co.in/erp-business-success/



What is CRM?

Customer Relationship Management Who Uses CRM?

- Sales
- Marketing
- HR
- Accounting

SITY

R

Strategy



Source: https://collectiveinnovation.com/the-art-of-customer-relationship-management/



What is CRM?

Customer Service:

Have you experienced this? Why?

- Transferred 2 or more times
- Repeat Story
- Disconnected
- Hold time approximately...
 - Fantastic music



Source: http://donthatethegeek.com/cellular-carriers-screwing-phones/

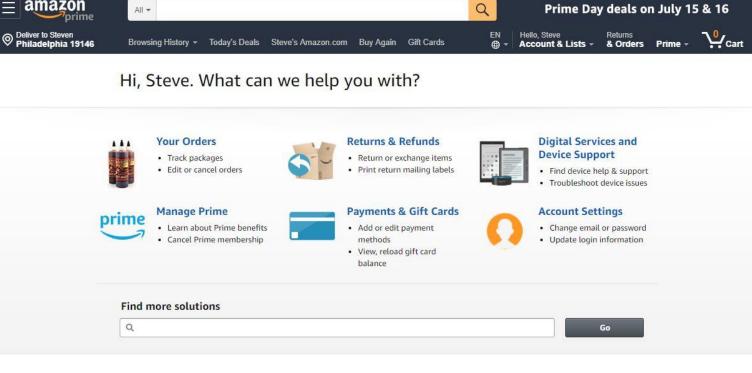




CRM Case Study:

Amazon

- **Data Collection**
- **Personal Storage**
- Recommendations
- Support



Browse Help Topics

amazon

 \equiv

Recommended Topics	Need more help?	
Where's My Stuff?	Ask the Digital and Device Community	
Managing Your Orders	Contact Us	
Account Settings & Payment	Ayuda en Español	
Methods		
Returns & Refunds		
Shipping Policies		
Amazon Devices	5 327	

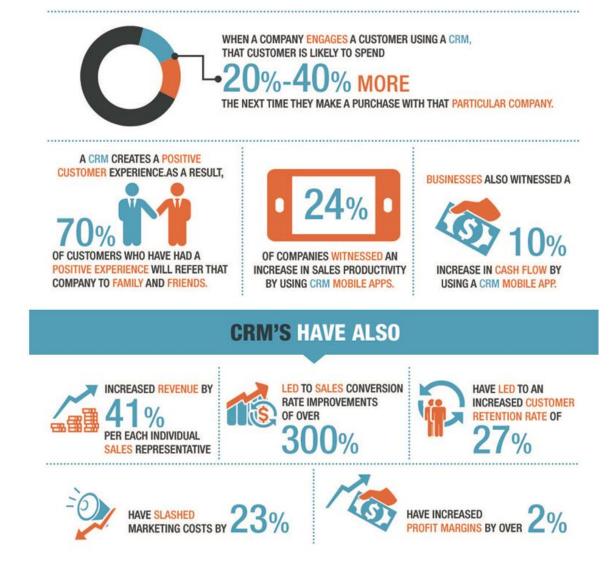
Source: https://www.amazon.com/gp/help/customer/display.html?nodeId=508510&ref_=nav_cs_help





Why purchase CRM?

- Do companies really need CRM?
- Why?
- What businesses would benefit?



Source: https://devftw.com/top-15-crm-software-for-retailers/





Why purchase CRM?

Customer Relationship Management

- CRM's track what kind of data?
- How do organizations use data?



Source: https://www.salesforce.com/hub/service/customer-service-examples/





CRM Dashboards

- What do they do?
- Who in the organization might want or need a CRM dashboard?
- Why are they important?

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· · · · ·	Dress Jar Calles Co. 104	105.94	ISTRESPORT.	Trafana Co. Insult 1008	\$100K	818/2016
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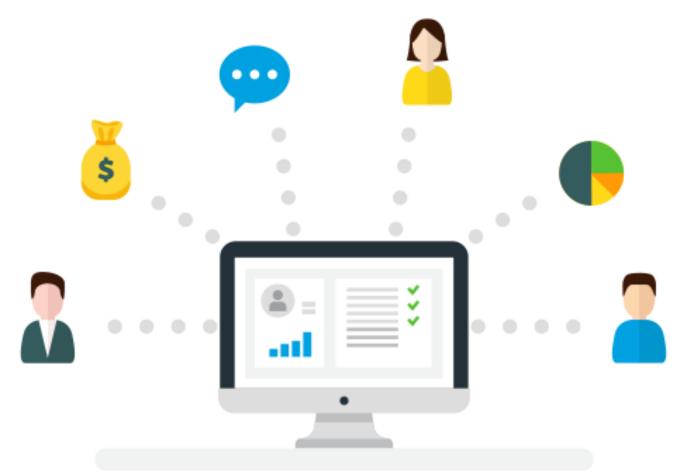
Source: https://www.salesforce.com/eu/learning-centre/crm/what-is-crm/





CRM Accountability

- What does this mean?
- Where is the data?
- Why is this important?



Source: https://www.workwisellc.com/crm-software/what-is-crm/





CRM Benefits

- Maximize Profits
- Understand Your Customer (data)
 - Analyze Buying Patterns
 - Problem Solving
- Accountability
- Customer Communication/Satisfaction
- Improve efficiency & information sharing



Source: https://strategiesgroup.com/blog/benefits-of-crm/

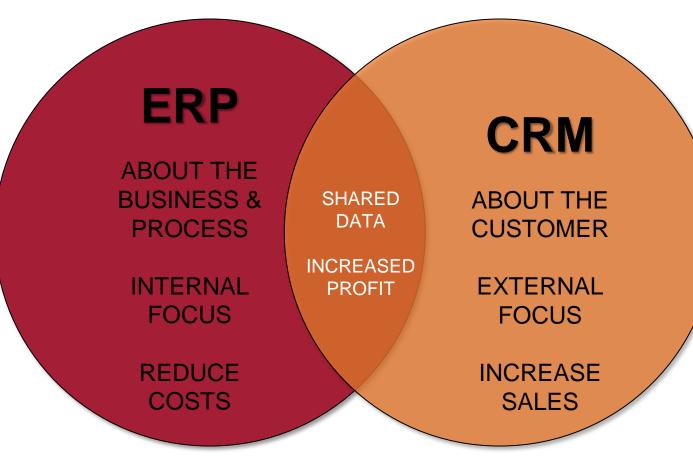




ERP & CRM

- What's the Difference?
- What do they have in common?
- Which is a better first investment for a business?

• Why?







Digital Systems

Procure to Pay (P2P) In-Class Activity #5



ICA5 Procure to Pay (P2P)

- What?
 - Review a narrative of the current P2P process at FitterSnacker
 - Review a swim lane diagram of how the process is currently performed
 - Create a swim lane diagram after the implementation of ERP to understand how it dramatically simplifies the process
- Why?
 - ERP systems can simplify business processes, making them much more efficient and much more effective
 - If your organization is not operating at this level of efficiency and effectiveness but your competitors are, you are at a major competitive disadvantage
 - It's all about leveraging technology to gain competitive advantage!





Step #1

 Read the narrative provided with the in-class activity describing the current P2P process at FitterSnacker

After completing this activity you will be able to: - Better understand one of the core business processes, purchase to pay (P2P or PtoP) - Practice creating swim lane diagrams - Understand the impact of installing an ERP system

Step 1: Read the following narrative (Individually)

 \square

Read the following narrative: P2P is the core business process that is used by organizations to acquire the products and services they need to fulfill their mission. In this scenario, you are the plant manager at FitterSnacker, a company that makes and sells snack bars. The plant manager is responsible for determining what they are going to make, when they are going to make it and acquiring the raw materials (oats, raisins, chocolate chips, etc.) that they need to make the snack bars. Once the plant manager determines what they need, they send a purchase requisition to the procurement department.

The procurement agent verifies that the plant manager is authorized to place the order. They then select the supplier and send a purchase order to the supplier.

The supplier receives the order and picks, packs and ships the order. After the order has been shipped they send an invoice to the customer.

The warehouse receives the order and posts a goods receipt to show this. The person in the warehouse notifies the plant manager that the items have been received.

The invoice is processed by the accounts payable team in accounting. They match up the invoice with the purchase order and the goods receipt. If we received what we ordered and are being charged what we were expecting to pay then we pay the invoice. If not, we must figure out where the problem is and resolve the problem.



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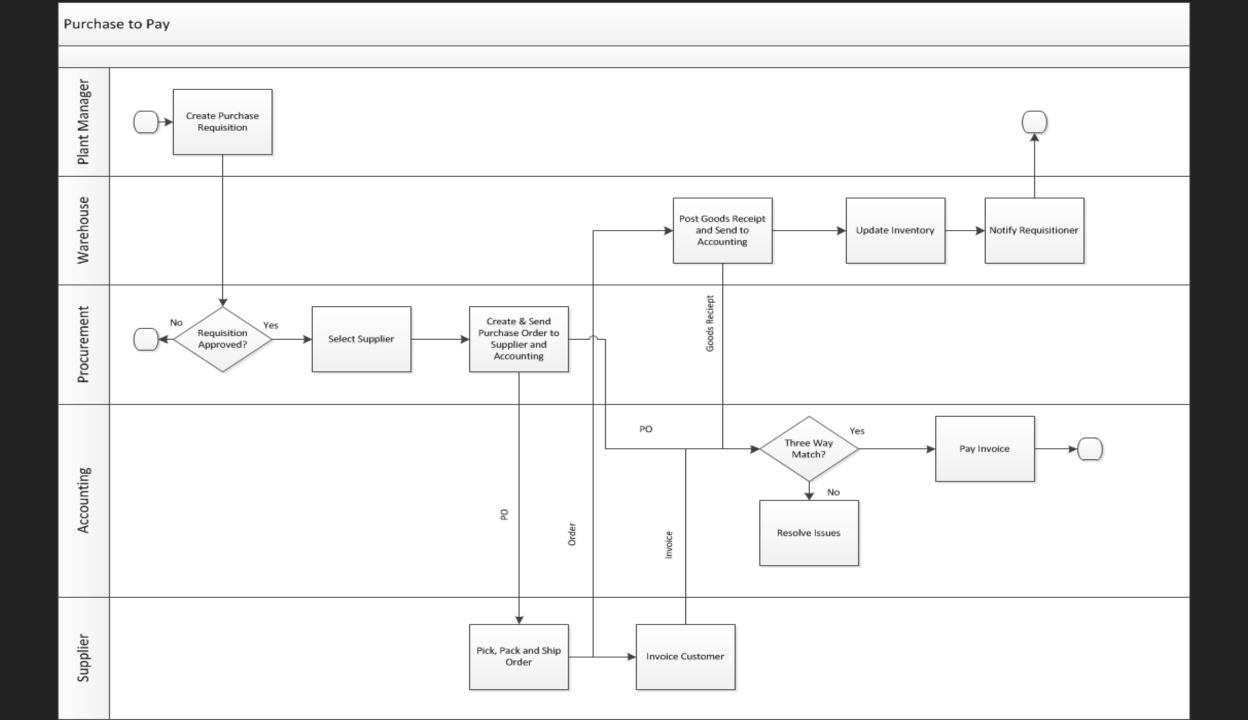




Review the swim lane diagram that documents the current P2P process at FitterSnacker







Step #3

Read the second
 narrative which
 describes the changes
 after the ERP software is
 installed

Question 1

Step 4: As a Group (2-3 in a group) then as a class - Discuss the impact

1. FitterSnacker has just implemented an ERP which will dramatically improve the efficiency of the organization.

2. Based on historical sales and information entered into the system by the sales organization a forecast of what you plan to sell is automatically generated by the system.

3. The system also manages inventory (both raw materials and finished goods). Since the system knows what you have (inventory) and the since the forecast tells you what you need (demand) the plant manager doesn't need to figure out what you are going to make and when you are going to make it (a.k.a. the production plan). The system will create the production plan. With the production plan the system can automatically create purchase requisitions at the appropriate times to acquire the required raw materials and execute the production plan.

4. With the ERP we maintain a list of preferred suppliers for all raw materials. We also keep track of things like lead time (how long it takes to get a raw material) and pricing information for each supplier. Based on lead times and pricing, the system can automatically choose the optimal supplier and can send an electronic purchase order (PO) to the supplier. The electronic PO includes a unique PO number that we will use later on.

5. The items are received at the warehouse. The PO number for the order is included with the shipping documents. The person at the warehouse pulls up the PO using the PO number and ensures that everything that was ordered was received and posts the goods receipt.

6. The supplier sends FitterSnacker an electronic invoice. The invoice includes the PO number. The system can automatically perform the three-way match, matching up the original PO, the goods receipt and the invoice and it everything matches can send the payment electronically to the supplier.

HTML Editor

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0 pts



- Draw the swim lane after ERP has been implemented
 - How many actors do we have?
 - Which 2 actors disappeared?
 - Who/What is the new actor?



Step #5

• Rate this activity using Canvas

this activity from 1 (completely disagree) to 5 (completely agree) is is an engaging activity [Select] arned a lot completing this activity [Select] is activity should be used again in future semesters [Select] stion 3 are anything you would like the professor to know? I U A · 圖 · Ix 臣 臣 重 這 匡 × × ; ☷ 這	0
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Digital Systems

6.1 Information Systems Part II – Data Analytics and SCM



Who has created/contributed some data already today?

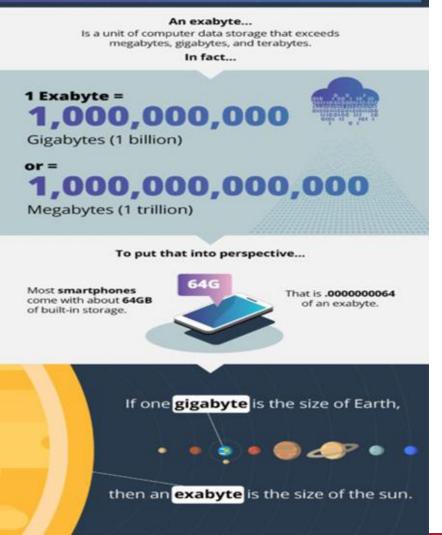


Units of data...

- 1.7MB of data is created every second by every person during 2020.
- In the last two years alone, the astonishing 90% of the world's data has been created.
- 2.5 quintillion bytes of data are produced by humans every day.
- 463 exabytes of data will be generated each day by humans as of 2025.
- 95 million photos and videos are shared every day on Instagram.
- By the end of 2020, 44 zettabytes will make up the entire digital universe.
- Every day, 306.4 billion emails are sent, and 500 million Tweets are made.



How Big is an Exabyte?











DON'T BELIEVE US, HERE'S WHAT IS PREDICTED FOR 2020







smart connected devices ^[3] in the world, all developed to collect, analyze and share data.



of all data¹⁴¹ will pass through the cloud .

\$65 MN additional net income⁽⁵⁾ will be the result of just 10% increase in data accessibility for a typical Fortune 1000 company

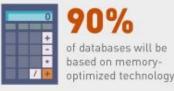


60%

of information delivered to decision makers will be considered by them always actionable, doubling the rate from the current (2015) level. 161

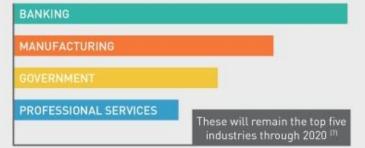


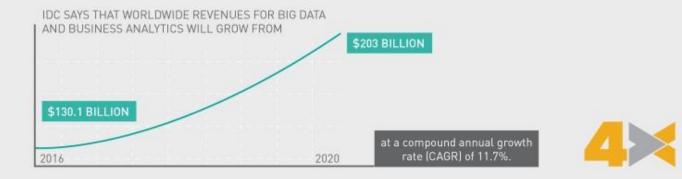
of all business analytics software will incorporate prescriptive analytics built on cognitive computing functionality. (6)



optimized technology, ¹⁶¹

THE INDUSTRIES DRIVING MUCH OF THIS GROWTH INCLUDE:











GLOBAL INTERNET POPULATION GROWTH 2014-2020 (IN BILLIONS)

Learn more at domo.com

SOURCES: STATISTA, VISUAL CAPITALIST, BUSINESS INSIDER, GAMESPOT, TECHCRUNCH, OMNICORE AGENCY, DOORDASH, BUSINESS OF APPS,







How does data influence ...

- Purchasing Habits
- Hiring
- Where you eat
- Politics
- Your decision making



How does data influence ...

The importance of data in decision lies in consistency and continual growth. It enables companies to create new business opportunities, generate more revenue, predict future trends, optimize current operational efforts, and produce actionable insights.



Source: https://medium.com/seamfix-engineering/data-analysis-and-its-importance-for-intelligent-data-driven-business-decisions-fccb9728278a





What is Data Analytics?

Thoughts?

"The use of tools & people to uncover hidden patterns in the data that might not be readily available to the naked eye"

- Professor Lavin



Source: https://i2.wp.com/johnbauerconsulting.com/wp-content/uploads/2017/06/Big-Data-Analysis-In-HR-Department.jpg





What is Data Analytics?

Three Types of Analytics:

- Descriptive Dashboards (BI)
- Predictive use past data to model future
- Prescriptive Optimization; advise on how best to do your job.



Source: https://i2.wp.com/johnbauerconsulting.com/wp-content/uploads/2017/06/Big-Data-Analysis-In-HR-Department.jpg





"Analytics is the process of making sense of large data sets and unlocking patterns, often using data visualization, to enable better decision making."

- Professor Amy Lavin

Data Investments...Why Care?

Top Reasons Why:

- Decrease Expenses
- Find New Innovations
- Launch New Products/Services
- Increase Efficiency
- Transform Business
- Establish Data-Driven Culture

https://hbr.org/2017/04/how-companies-say-theyre-using-big-data



Source: https://hbr.org/video/3633937151001/the-explainer-big-data-and-analytics



FOX MIS

Big Data & Mickey D's

\$300 Million Acquisition

- Infrastructure Improvements
- Technology Transformation
- Digital Innovation
- Efficiency & Effectiveness
- Customer Experience

Predictive Analytics?



Source: KIYOSHI OTA/BLOOMBERG/GETTY IMAGES



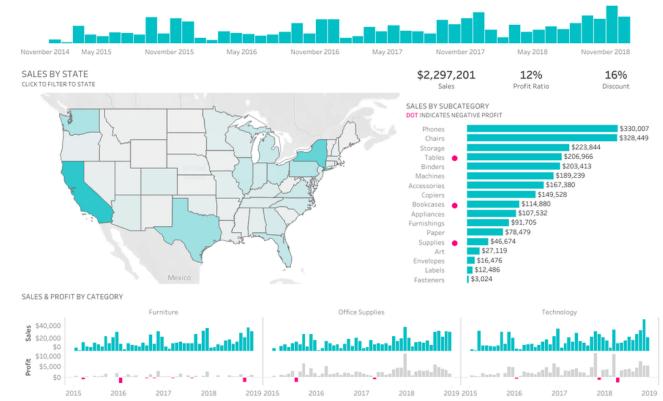
FOX MIS

What can data do for you?

Data Analysis & Data Visualization

- What's the difference?
 - Data Analysis: an exploratory process
 - Data Visualization: visual representation
- What's the role of the dashboard?
 - Who are your stakeholders?
 - Which industries utilize dashboards?
 - When do you need them?

SALES & PROFITABILITY



Source: https://thumbor.forbes.com/thumbor/960x0/https%3A%2F%2Fblogsimages.forbes.com%2Fevamurray%2Ffiles%2F2019%2F03%2FExecutive-Sales-Profitability.jpg

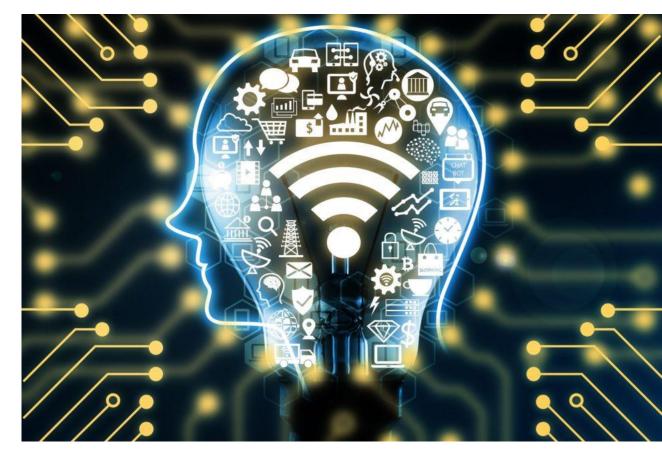




What is Business Intelligence (BI)?

BI Leverages Software & Services to Transform Data

- Mobile BI
- User friendly
- Agile & Intuitive Systems
- Leads to Strategic Business Decisions



Source: https://blog.radware.com/tag/internet-of-things/page/3/





Google Analytics

What Can We Track?

- web site metadata & user engagement
- Number of Sessions
- Average Session Duration (minutes, hours, etc.,)
- Number of pages visited
 - Duration of Each Visit
- Bounce Rate
- Conversion Rate







Learn IT #2

Get Certified!

- Google Analytics for Beginners
 - Complete all four units
 - Score 80% or better on all assessments







What is Supply Chain Management (SCM)?

"Supply Chain includes many components...from Procurement to Manufacturing to Distribution. It's about getting the right product on the right shelf at the right time!" – Professor Doyle

Cross Functional Approach:

- Improves trust & collaboration
- Improves inventory visibility & velocity



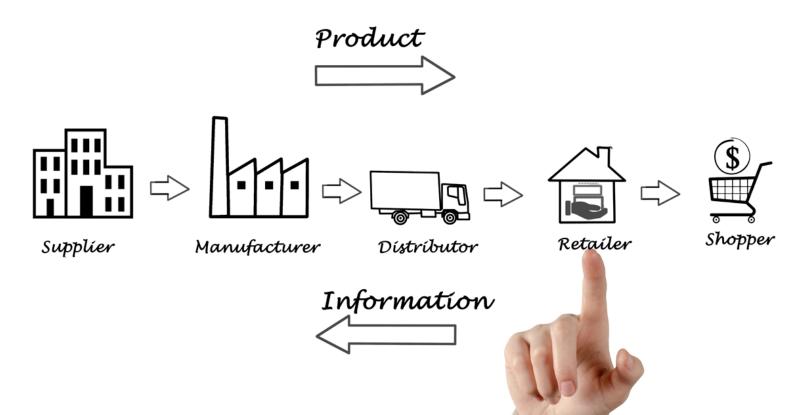
Source: https://www.chainstoreage.com/wp-content/uploads/2017/06/supplychain.jpg



Supply Chain Management...

Pick a product

- Who are the key actors?
- What types of materials are involved?
- What about technology?
- What skills are required?
- What's missing?



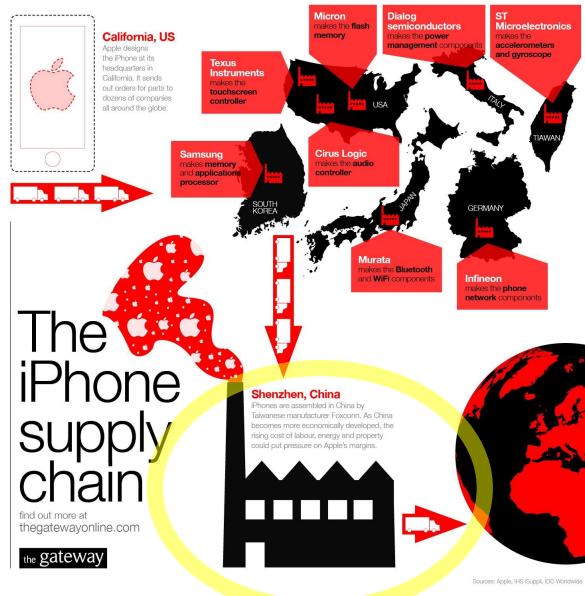
Source: https://www.containersolutions.ca/what-we-do/supply-chain-management/





Case Study: iPhone Xs

- Where is your iPhone Made?
- What happens in Shenzhen, China if there are any delays?
- How do you plan for problems?
 - Weather
 - Material shortages
 - Strikes



Source: https://www.containersolutions.ca/what-we-do/supply-chain-management/

FOX MIS



SCM Discussion

- Who works for a company which manufactures a product?
- What kind of product is it?
- What stuff do you need to make your product?
- Where do you get this stuff?
- What happens if they run out of this stuff?



Source: https://www.neurored.com/wp-content/uploads/2018/01/supply-chain-smartification-1030x824.png





Safety Stock – That's the Answer!!!

• What people in fulfillment see...



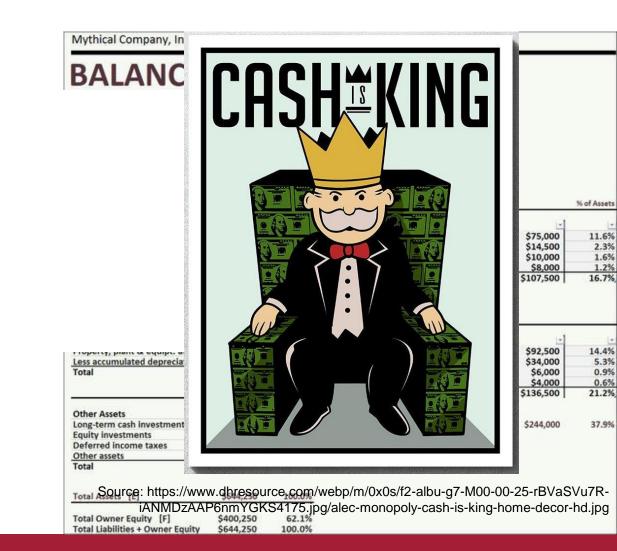
• What people in Accounting see...





What else could you do with this cash?

What do our accounting friends tell us?







Supply Chain Optimization

SCM Modules Support two functions:

- 1. Supply Chain Planning
 - Work Backwards
- 2. Supply Chain Execution
 - Efficient flow of products, information, & financing



Source: https://liquidplanner-wpengine.netdna-ssl.com/wp-content/uploads/2019/04/Supply-Chaingraphic.jpg





What is RFID

What is **RFID**?

- Radio Frequency Identification
- Wireless technology that lets you identify objects that have been fitted with special RF identification tags

What is RFID good for?

• Inventory control, access control...

How it works

- Antenna reads electromagnetic energy
- Can penetrate non-metallic solid objects



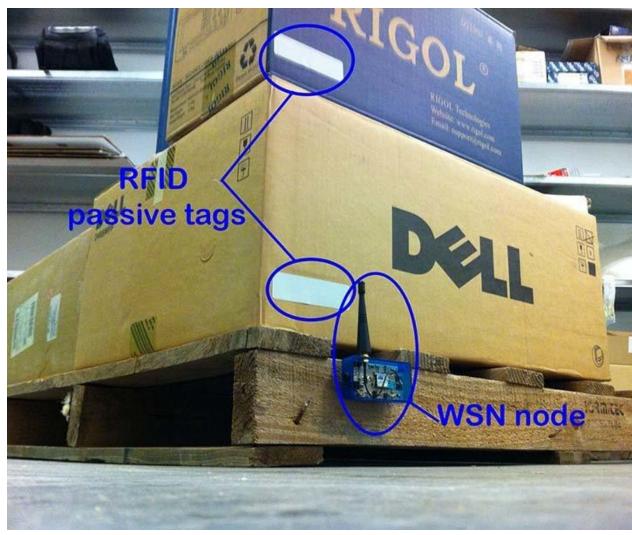
Source: https://journals.ala.org/index.php/ltr/article/viewFile/4514/5301/6514



RFID explained

The use of electromagnetic energy to transit energy between a reader (transceiver) and the tag (antenna).

- RFID tags can contain more information than bar codes.
- ✓ Tags are programmable
- Scanning can be done from greater distance.
- Passive tags—inexpensive, range of few feet.
- Active tags—more expensive, longer range



Source:_https://www.researchgate.net/profile/Jose_San_Jose_Vieco/publication/261430560/figure/fig1/A S:564991784742913@1511715946690/WSN-Node-and-RFID-tags-in-a-pallet.png





Case Study: Disney Magic Band Why Did Disney Invest \$1 Billion?

- Marketing Opportunities
- UX & CX
- Patron Tracking
 - Multiple Parks
 - Hotels
- Endless Possibilities!



Source:_https://media.wired.com/photos/593275a15c4fbd732b552d4a/master/w_1200,c_limit/disneymagi cband2_f.jpg





More to Come

Prepare with Readings & Videos before our next class!!! Exam 2 next week-end!