ROADMAP

START

Week 1:

Introduction & Systems Analysis

- Course Description
- · Systems Thinking

Assignments #01 & 02

Week 2:

Digital Product Management & Introduction to Process Mapping

- Max Labs 1a & 1b
- Systems & Processes
- Swim Lane Diagrams

Assignment #03

Week 3:

Data Modeling with Entity Relationship Diagrams

- Swim Lane Diagrams
- ERD Diagrams

Assignment #04

Week 4:

Digital Systems – Learn IT! #1

- ERD Diagrams
- Learn IT Kickoff

Assignment #05

Week 5:

Exam #1, Max Labs & Information Systems: Part I & II

• CRM & ERP

*Exam: check course site

Assignment #06

Week 9:

Exam #2 & JavaScript Unit #1

- Part I & II
- · Hello World, Variables

*Exam: check course site

Week 8:

Cybersecurity & AI – Part I & II

- Protection Protocols
- · Artificial Intelligence

Assignment #08

Week 7:

Platforms & Digital Business

Models: Part | & ||

- Platforms & Digital Models
- APIs

Week 6:

Information
Systems: Part III & IV

- · Data Analytics
- SCM

Assignment #07

Week 10:

JavaScript Unit #2 Functions

- · Operator types
- Strings

norotor types

Logical OperatorsConditional Types

Week 11:

JavaScript Unit #3

& Conditional Logic

Logical Operators

Week 12:

JavaScript Unit #4 Loops

- Intro to Loops
- · While and Do

Week 13:

JavaScript Unit #4
Working with
Loops

Writing the code

Week 14:

HTML & CSS Unit

- HTML basics
- CSS basics
- Course Reflection



Assignment #10

Assignment #9

Assignments #11



Digital Systems

5.2 Information Systems: Part I - 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?

Are you familiar with Banner?



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

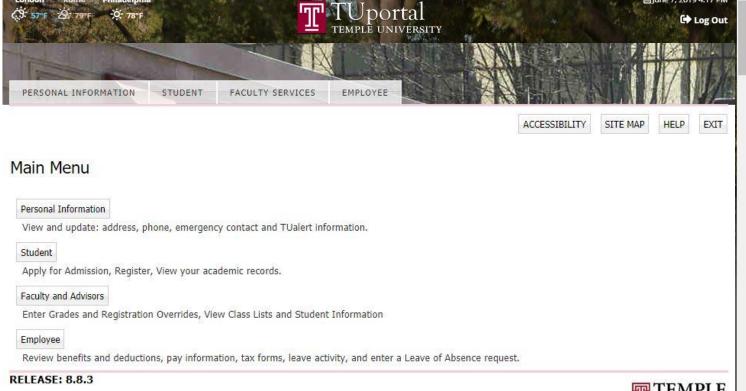




ERP - example

Database with a holistic vision!

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



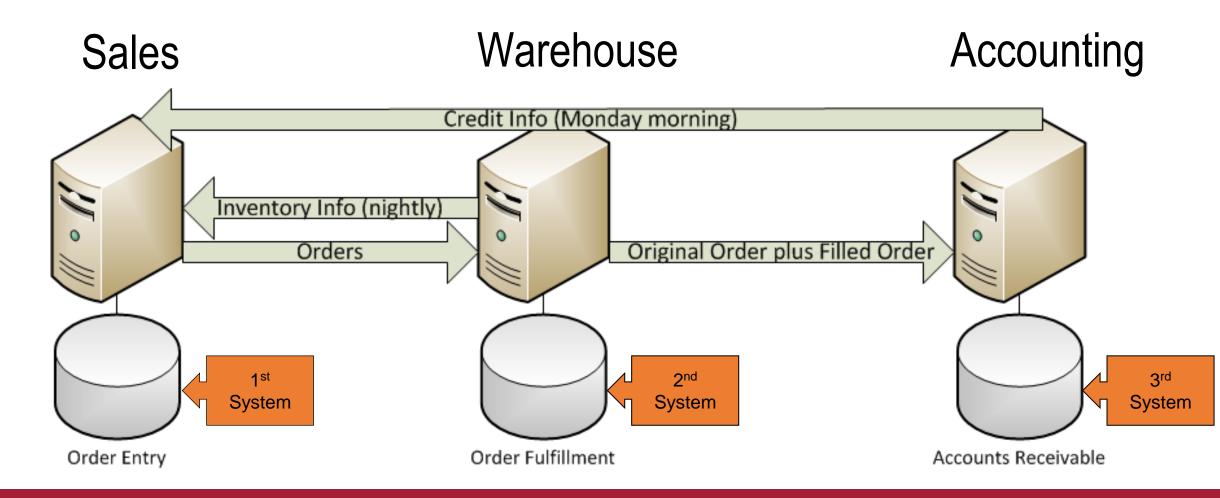
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Legacy Systems





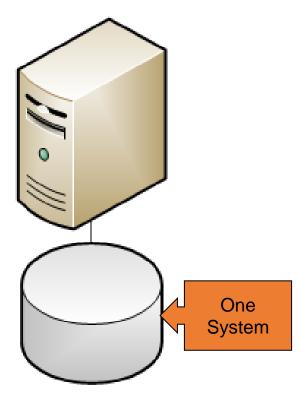


Enterprise Systems

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/





ERP – Value Proposition

Automates core business operations

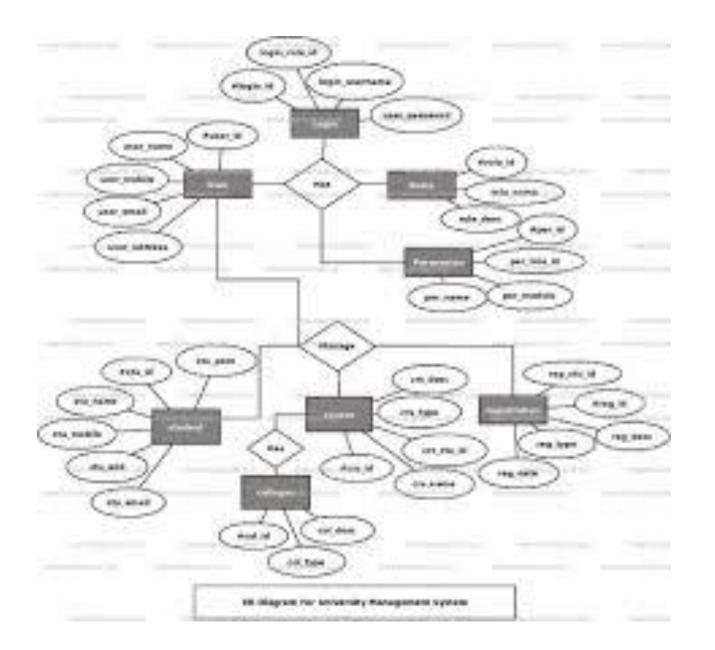
- Why is this important for...
 - Risk Management?
 - Marketing majors?
 - HR & Accounting?
 - o Finance & Strategy?
 - Anyone else?

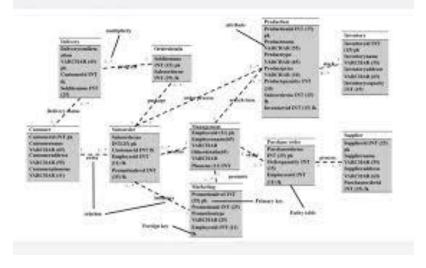


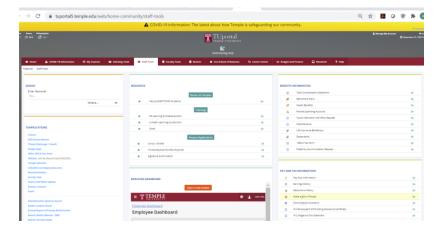
Source: https://www.strategic.com/blog/2017/3-reasons-erp-training-important/













Digital Systems

5.2 Information Systems: Part II CRM



What is CRM?

Customer Relationship Management Who Uses CRM?

- Sales
- Marketing
- HR
- Accounting
- Strategy



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





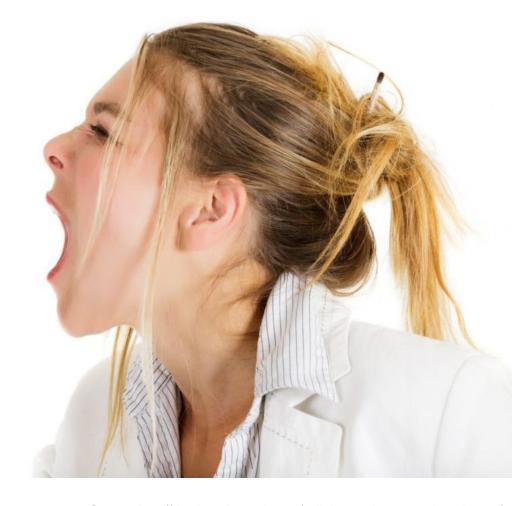
What is CRM?

Customer Service:

Have you experienced this? Why?

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





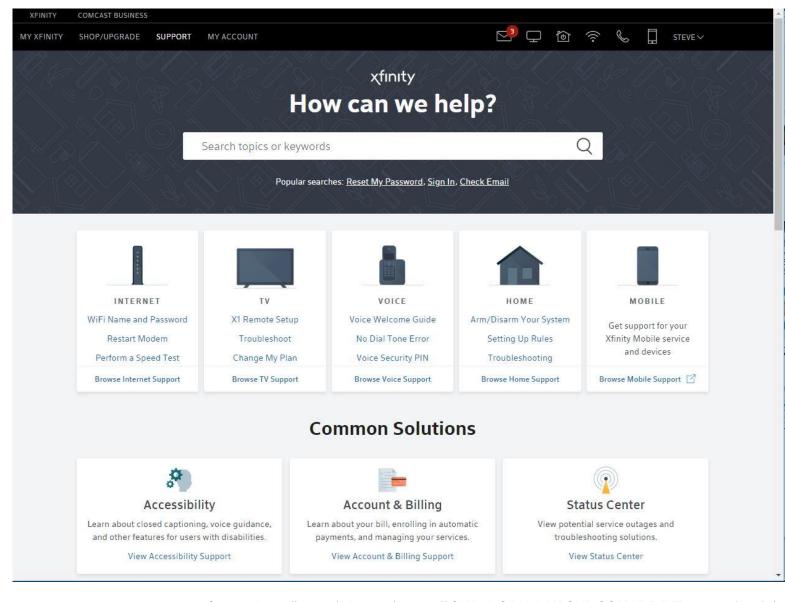
Source: http://donthatethegeek.com/cellular-carriers-screwing-phones/





CRM Case Study:

Xfinity



Source: https://www.xfinity.com/support/?CMP=ILC:MA:BAU:SUB:COM:HLP:INT55e0877fe16f7/

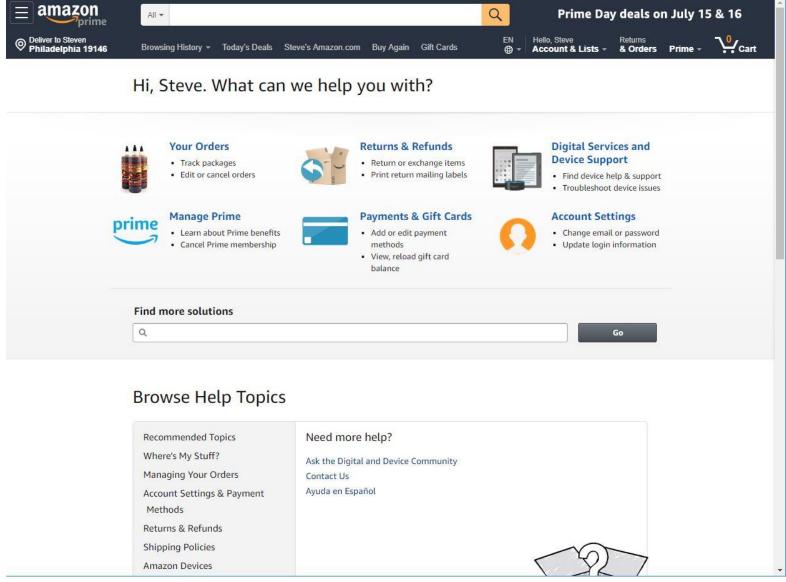




CRM Case Study:

Amazon

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



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





Why purchase CRM?

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





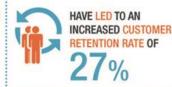




CRM'S HAVE ALSO











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?



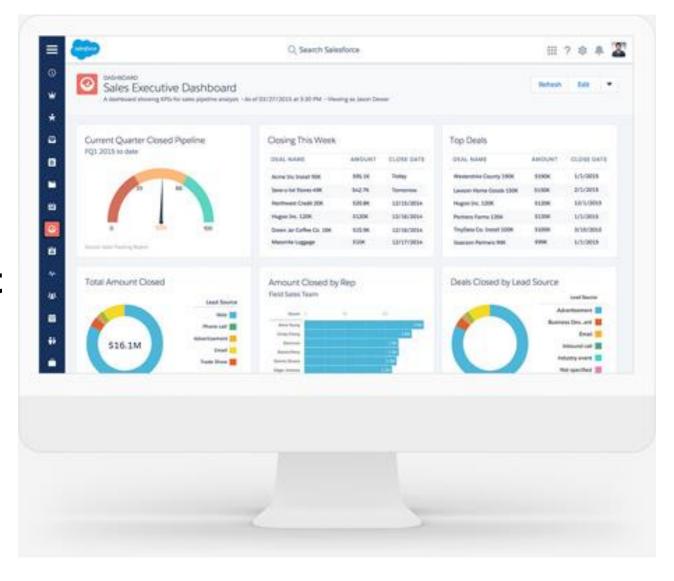
Source: https://www.salesforce.com/hub/service/customer-service-examples/





CRM Dashboards

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



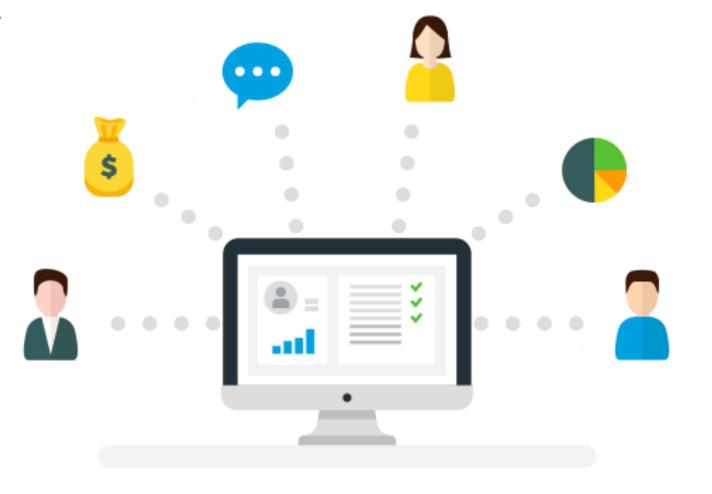
Source: https://www.salesforce.com/eu/learning-centre/crm/what-is-crm/





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 Solve
- Accountability
- Customer Communication
- What else?



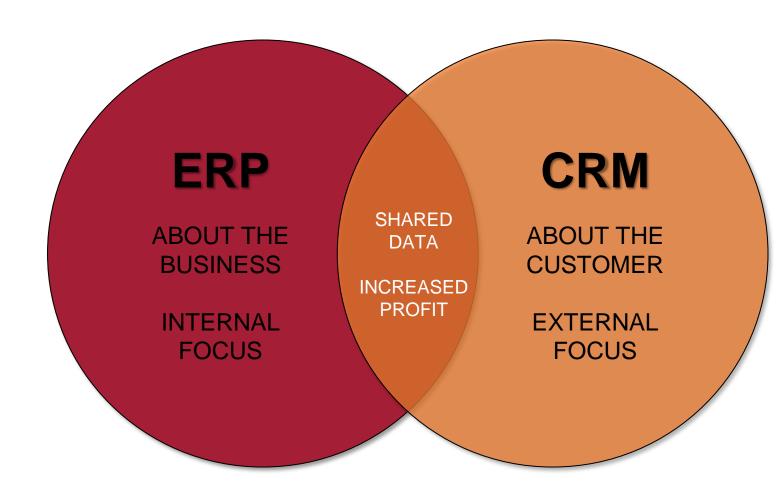
Source: https://strategiesgroup.com/blog/benefits-of-crm/





ERP & CRM

- What's the Difference?
- Which is a better first investment for a business?
- Why?







More to Come

Prepare with Readings & Videos before our next class!!!