



MIS 2101/2901

EXAM 3 REVIEW

MICHELLE PURNAMA
DIAMOND PEER



EXAM FORMAT

25 Multiple Choice Questions

- ✘ 5 from assigned readings
- ✘ 10 from assigned videos & lectures
- ✘ 10 from Mini-Case

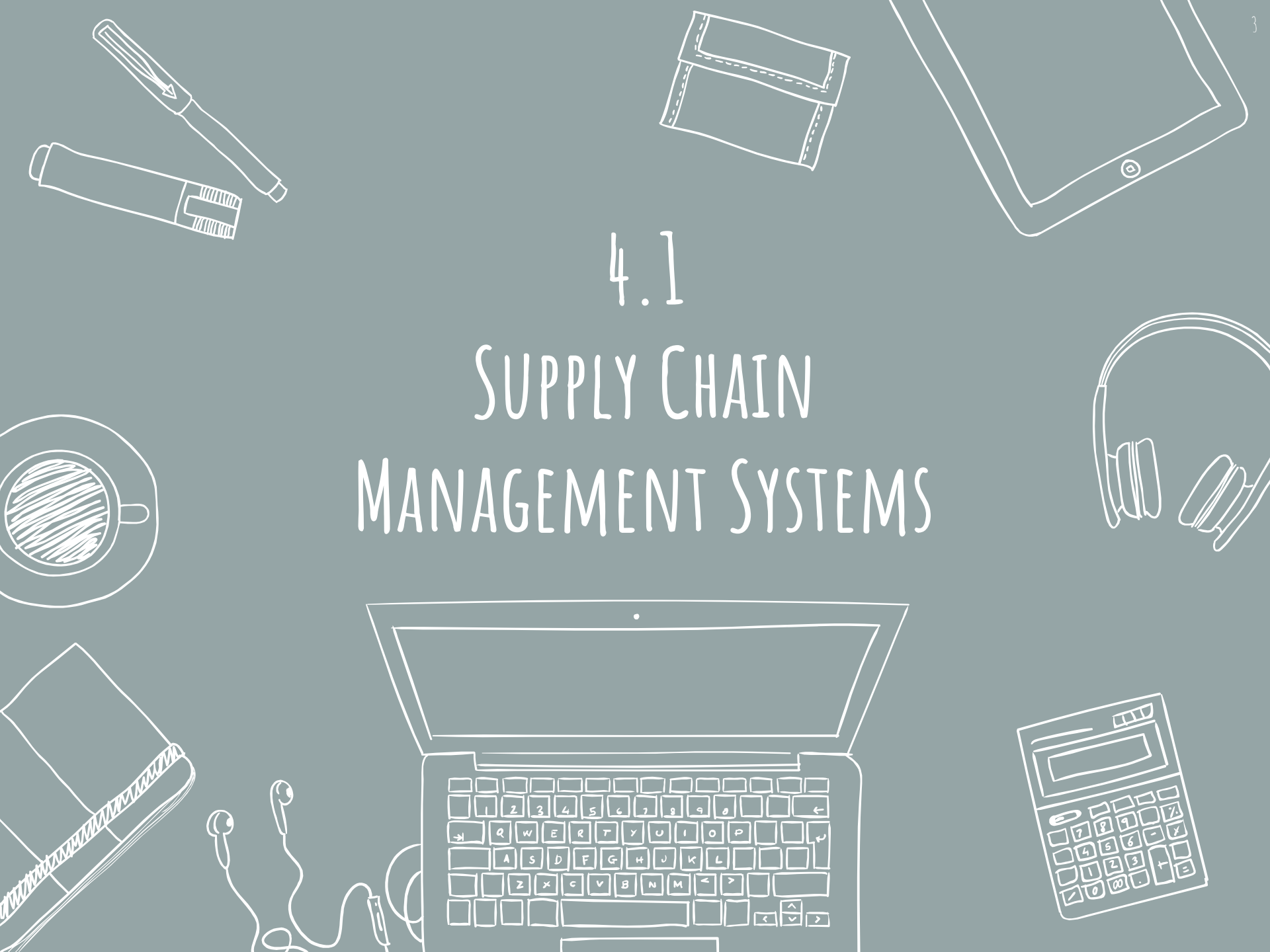
Topics:

SCM, CRM, Platforms, Cloud Computing, Artificial Intelligence

Reminder:

Bring a #2 pencil and highlighters!

4.1 SUPPLY CHAIN MANAGEMENT SYSTEMS



SUPPLY CHAIN MANAGEMENT

- ✘ Design, planning, execution, control, and monitoring of supply chain activities
 - Optimizing supply chain operations
- ✘ Management of the flow of goods and services
 - Raw materials
 - Work-in-process inventory
 - Finished goods





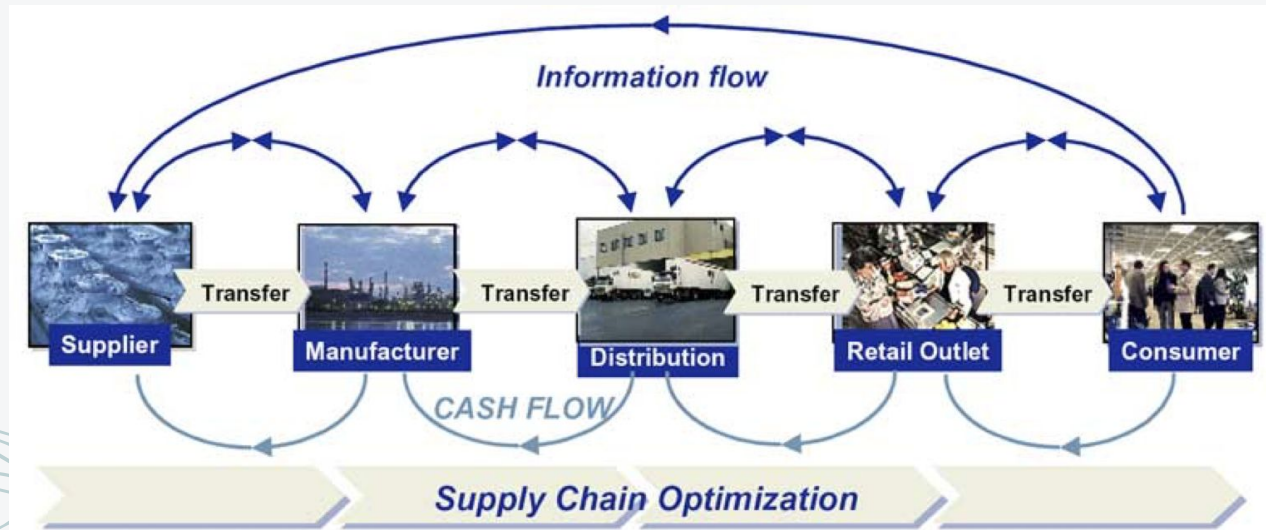
WHY SCM?

*Getting the right product
on the right shelf
at the right time and lowest cost*

- ✘ Integrated approach
- ✘ Increases visibility of inventory
- ✘ Increases speed of inventory movement
- ✘ Realizes long-term performance improvements
- ✘ Minimizes total costs

SCM ARCHITECTURE

- ✘ Supply Chain Planning
 - Development of resource plans to support production
- ✘ Supply Chain Execution
 - Efficient flow of products, information, and financing





JUST-IN-TIME INVENTORY

- ✘ Purchase & receive components just before needed on assembly line
- ✘ Relieves manufacturer of cost & burden of managing idle parts
- ✘ “Make to Order” Business
- ✘ Prevents obsolete inventory



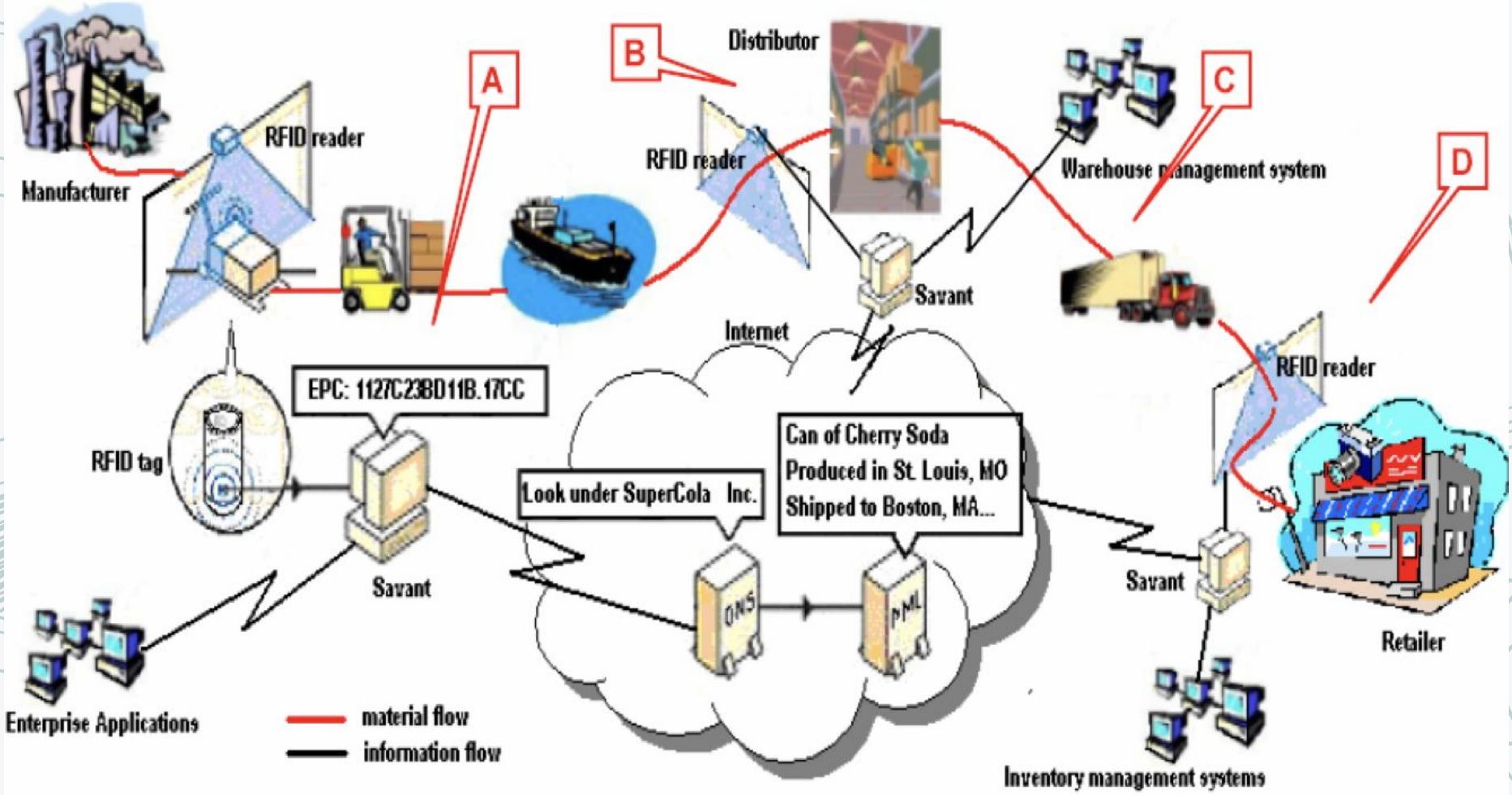
VENDOR-MANAGED INVENTORY

- ✘ Supplier takes full responsibility to maintain an agreed inventory at buyer's location
- ✘ Vendor:
 - Inventory managed by vendor
 - Reduces safety stock
 - Increases likelihood customer will use 1 vendor
- ✘ Customer
 - Manufacturer is charged as soon as they pull from shelf
 - Relieves burden of managing inventory
 - Reduces capital tied up in inventory

RADIO FREQUENCY IDENTIFICATION (RFID)

- ✘ Uses electromagnetic energy to transmit energy between a reader (transceiver) & the tag (antenna).
- ✘ Provides visibility through the supply chain
- ✘ Programmable tags replace barcodes
- ✘ Scanning can be done from a distance
 - Passive tags - inexpensive, range of few feet
 - Active tags - more expensive, range of hundreds of feet

RADIO FREQUENCY IDENTIFICATION (RFID)





4.2

CUSTOMER RELATIONSHIP MANAGEMENT SYSTEMS

CUSTOMER RELATIONSHIP MANAGEMENT

- ✘ Mix of strategy, processes, and procedures
- ✘ Tracks information → 360° profile
 - Contact info
 - Purchase history
 - Browsing
 - Demographics
 - Customer service issues
- ✘ Data is shared and analyzed across business
- ✘ Communication with customers & leads

BENEFITS OF CRM

- ✘ Enhances customer service experience
- ✘ Collaboration & efficiency
- ✘ Realizes profitable customers
- ✘ Accountability
 - No more finger pointing, only results

ERP VS CRM

ERP

- ✘ Focus on **internal** business processes
- ✘ Back office
- ✘ Reduces costs
- ✘ Enterprise-oriented

CRM

- ✘ Record interaction with customers
- ✘ Front office
- ✘ Increases sales
- ✘ Customer-oriented

INCREASED TOP LINE + REDUCED BOTTOM LINE
→ INCREASED PROFITABILITY

5.1

PLATFORMS

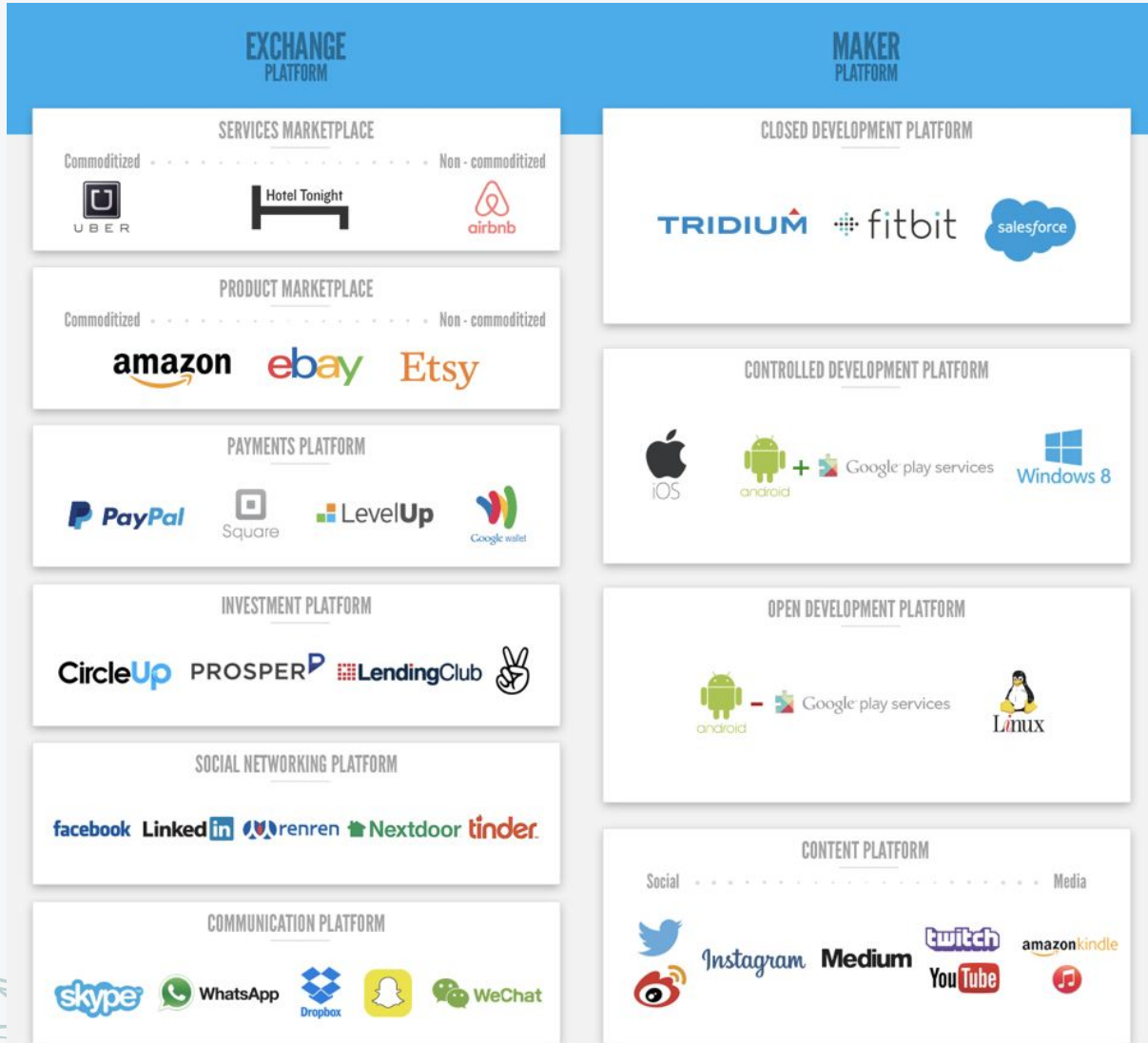




PLATFORMS

- ✘ Environment provided by hosted infrastructure with rules to facilitate user interactions
- ✘ Business model facilitating exchanges between 2 + independent groups
 - Typically consumers & producers
- ✘ Network Effects
 - The effect that one user of a good or service has on the value of that product to other people

EXCHANGE VS MAKER PLATFORMS





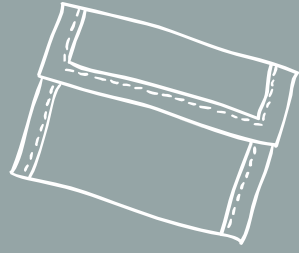
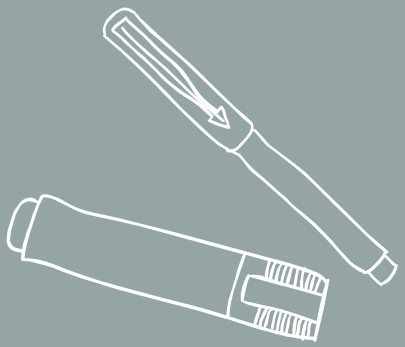
PLATFORM BUSINESS MODELS

✘ Proprietary

- Single provider
- Exclusive control over technology, standards, and pricing
- Google, eBay, FedEx

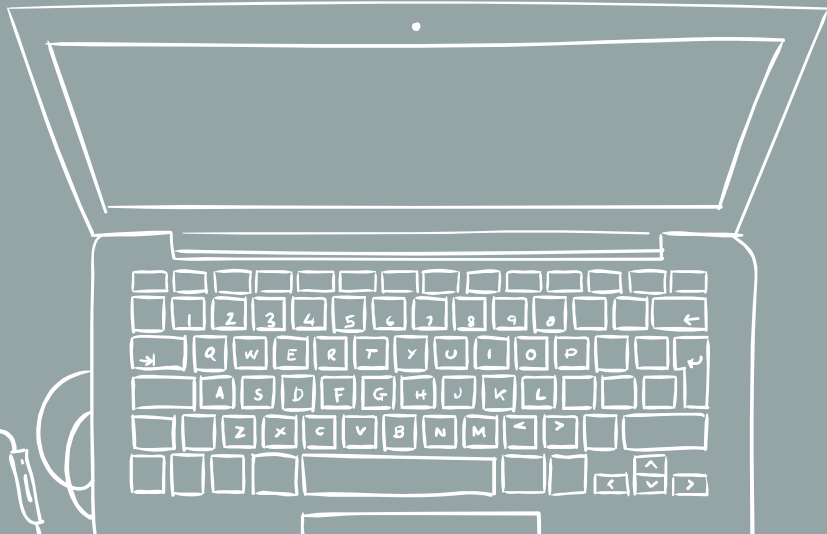
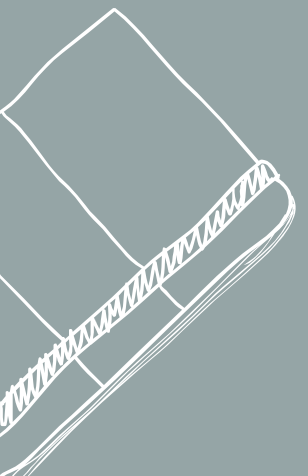
✘ Shared

- Multiple providers
- Collaborate developing tech & compete with different services
- Xbox, Windows



5.2

CLOUD COMPUTING



PROS & CONS

Pro

- ✘ Anywhere, anytime
- ✘ Remote access
- ✘ Reduce Headcount & Hardware
- ✘ Less expensive
- ✘ Increased scalability
- ✘ Green impact
- ✘ Easy to use
- ✘ Improved service & performance

Con

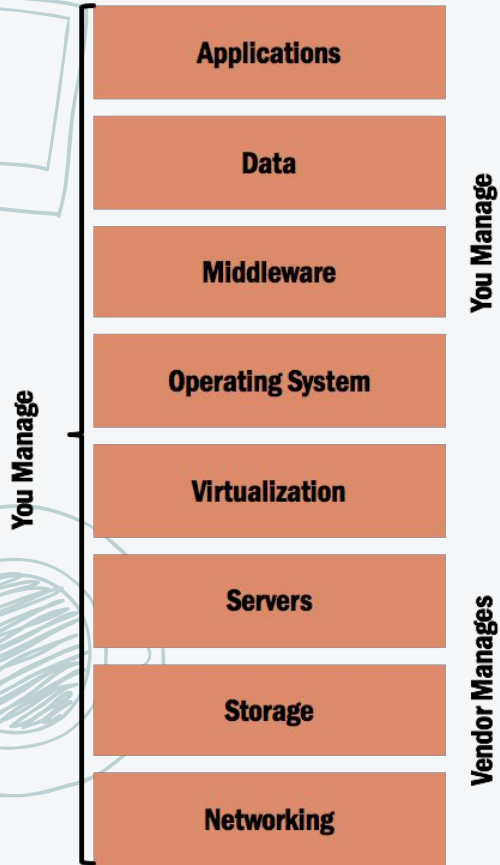
- ✘ Downtime
- ✘ Device security
- ✘ Data integrity
- ✘ Privacy & confidentiality of data

CLOUD COMPUTING MODELS

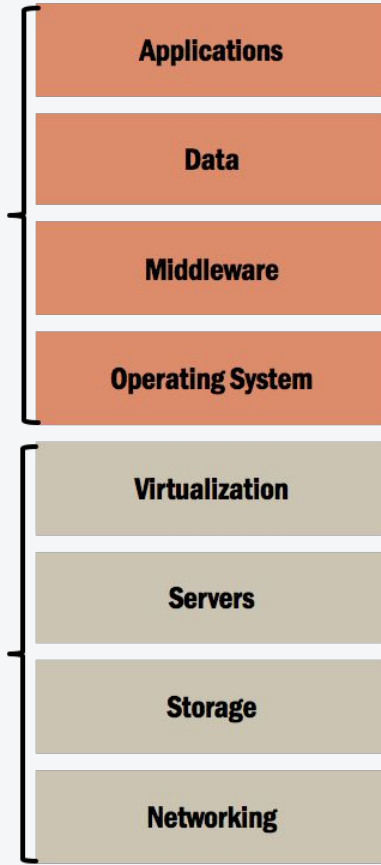
- ✘ IaaS – Infrastructure as a Service
 - **“Host”** – pay for infrastructure, responsible for all app development
- ✘ PaaS – Platform as a Service
 - **“Build”** – pay for infrastructure & developing platform
 - Focus on programming
- ✘ SaaS – Software as a Service
 - **“Consume”** – pay for entire solution, fully built, deployed, and distributed
 - No development or support responsibilities
 - Eg. Salesforce (Max Labs!)

CLOUD COMPUTING MODELS

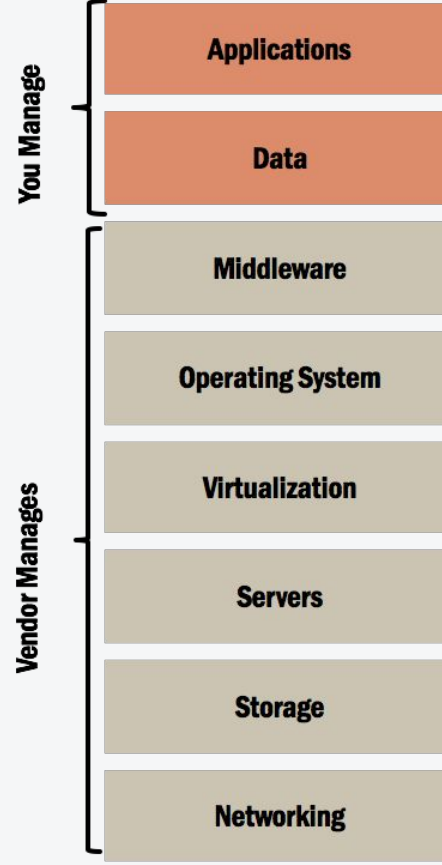
On Premise



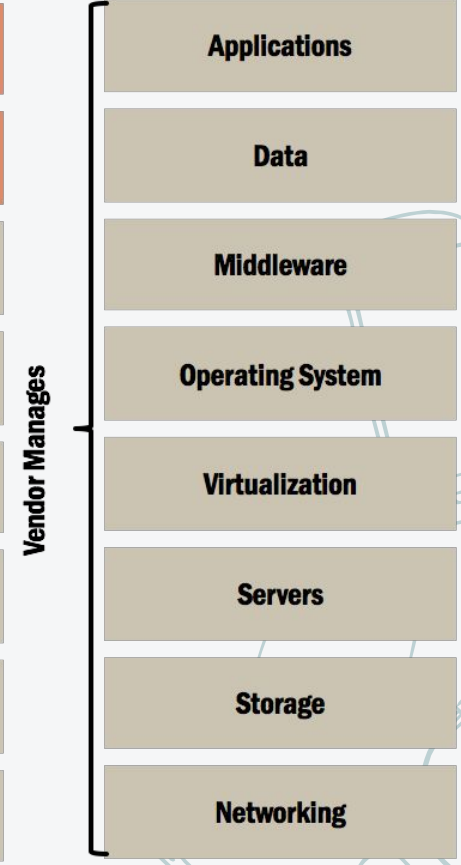
IaaS



PaaS



SaaS



BIG PLAYERS IN CLOUD COMPUTING

- ✘ Amazon Web Service (AWS)
- ✘ Google Cloud Platform
- ✘ Microsoft Azure
- ✘ Oracle
- ✘ Salesforce

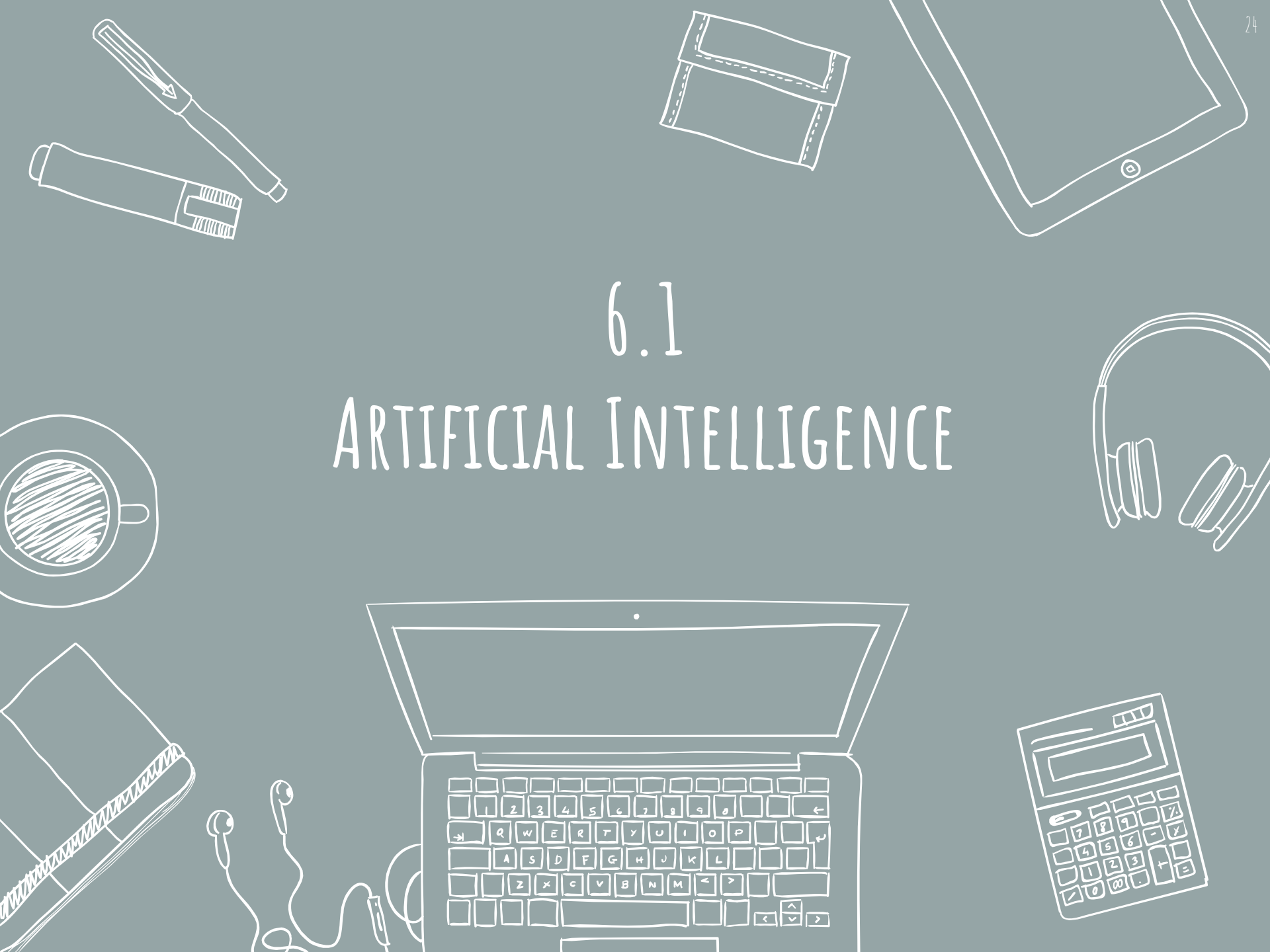


Google Cloud



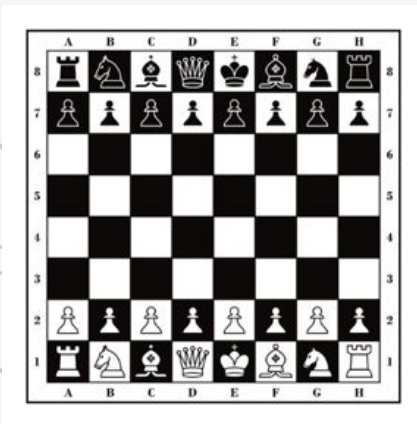
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6.1 ARTIFICIAL INTELLIGENCE



TYPES OF AI

- ✘ Artificial Narrow Intelligence (ANI)
- ✘ Artificial General Intelligence (ANI)
- ✘ Artificial Superintelligence



ANI:
Chess Program



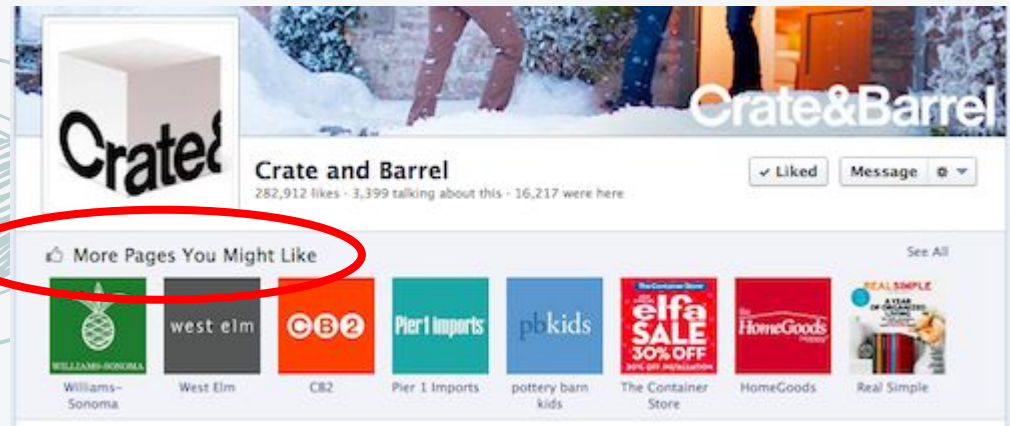
AGI:
Human Level Intelligence



ASI:
Superintelligence

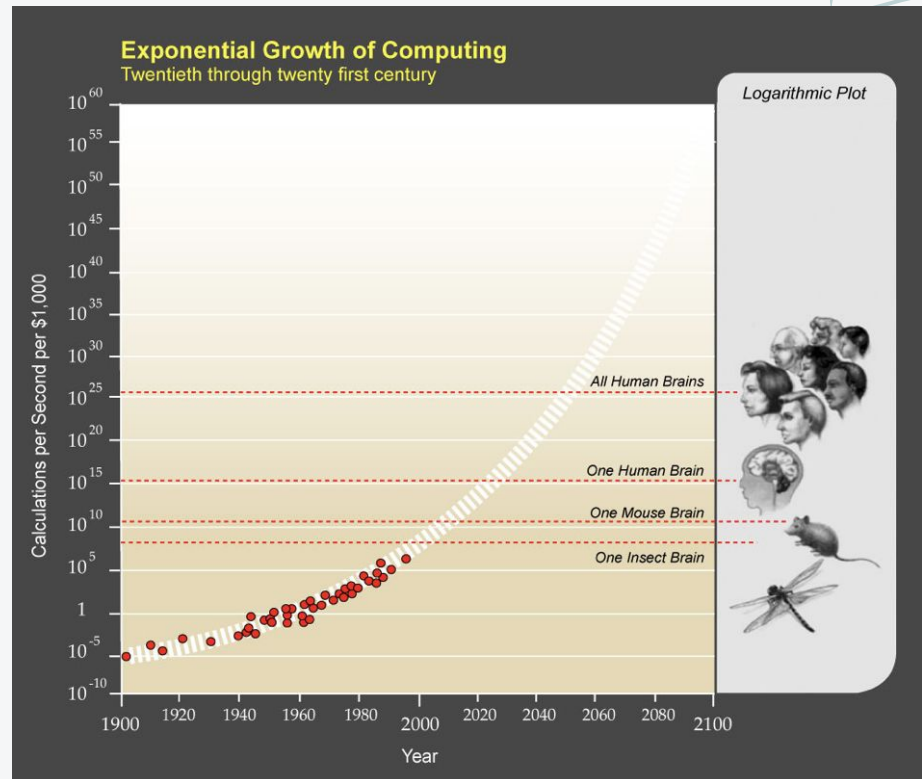
ARTIFICIAL NARROW INTELLIGENCE

- ✘ “Weak AI”
- ✘ Specializes in one area ONLY
- ✘ It’s everywhere!



ARTIFICIAL GENERAL INTELLIGENCE

- ✘ “Strong AI” or “Human Level AI”
- ✘ Equal intelligence to human
- ✘ Ability to reason, plan, solve problems, learn quickly from experience
- ✘ Complex & difficult
 - Requires enormous computational power
 - Moore’s Law
 - But it’s imminent



AGI TESTS



Turing Test

A machine and a human both converse sight unseen with a second human, who must evaluate which of the two is the machine.

The machine passes the test if it can fool the evaluator a significant fraction of the time.



Coffee Test

A machine is required to enter an average American home and figure out how to make coffee: find the coffee machine, find the coffee, add water, find a mug, and brew the coffee by pushing the proper buttons.



Robot College Student Test

A machine enrolls in a university, taking and passing the same classes that humans would, and obtaining a degree.

ARTIFICIAL SUPERINTELLIGENCE

- ✘ Smarter than humans in everything, including creativity and social skills
- ✘ Difficult for us to grasp concept
- ✘ Could develop in the near future OR years away

IBM WATSON

- ✘ Analyzes unstructured data from human input
- ✘ Conducts inordinate calculations per second
- ✘ Understands complex questions
- ✘ Learns human constructs (language, culture, context)



MINI CASE





ANSWER KEY

1. D - Content Team
2. A - Hotel needs a Retro-Fit Installation
3. B - Send cost estimate, participation agreement, teams and conditions, and the deployment agreement
4. C - Develop mobile message
5. B - Notify guests of Key Mobile installation
6. A - Terms and Conditions
7. A - Conducted by
8. B - Hotel Information
9. C - Number of rooms in hotel
10. A - Reviewed by



THANKS!

Any questions?

