



BNAI MIS 3504
Digital Design and
Innovation Studio

UNDERSTANDING WORK PROCESSES

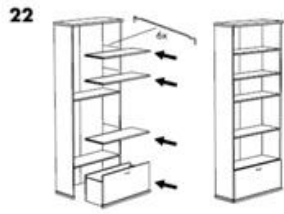
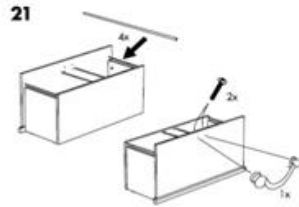
Rich Flanagan

Photo: Installation by Jenny Holzer, US Pavilion, Venice Biennale 1990

Process **DIAGRAMMING**

Understanding **HOW** people
do their work

Think **VISUALLY**



assembly process: **IKEA**

Workflow Diagrams

- How would you describe a process you routinely use to a friend who wanted to do the same thing?
- Is it easier to use words or draw a picture of the steps you take?
- What would some uses of this approach be?

Workflow Diagrams

- One of a Business Analyst's key tools, especially for analyzing the as-is situation
- Great way to begin to understand the process you are dealing with at high level
- Different levels of workflow can be used to explain the process to different audiences
- Can document Standard Operating Procedures (SOP's)
- Revising the flow to facilitate improvements is standard design technique

Workflow Diagrams

- What would we want to include in a workflow diagram?
- There are many different types of workflow diagrams, we will focus on one.
 - **Swim Lane Flowcharting**
 - ANSI Flowcharting
 - UML Activity Diagrams
 - SIPOC
 - Etc.

Think: **Actors** [who]
Actions [what]
Decisions
Sequence [when]
Space [where]
RELATIONSHIPS

Team Exercise: Swim Lane Workflow

- With your teammates,
- Take 5 minutes to imagine the steps a warehouse goes through when it receives material from its suppliers
- Sketch it out if you can
- Be ready to share your ideas

Swim Lane Process Mapping

1. Name the process - subject+verb+object
1. What's the business event that initiates the process?
1. What's the outcome of the process?

Swim Lane Process Mapping

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1. What's the outcome of the process?

Warehouse Receives Materials

Receive Materials

Materials are Stored

Swim Lane Process Mapping

Receiving Dock
Receiving Clerk
Forklift Driver
Warehouse Foreman
Data Processing

List all people, systems and departments that may be involved in the process

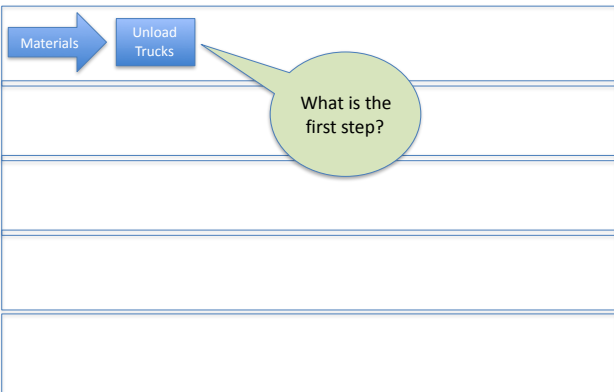
Swim Lane Process Mapping

Receiving Dock
Receiving Clerk
Forklift Driver
Warehouse Foreman
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Draw a lane next to each person

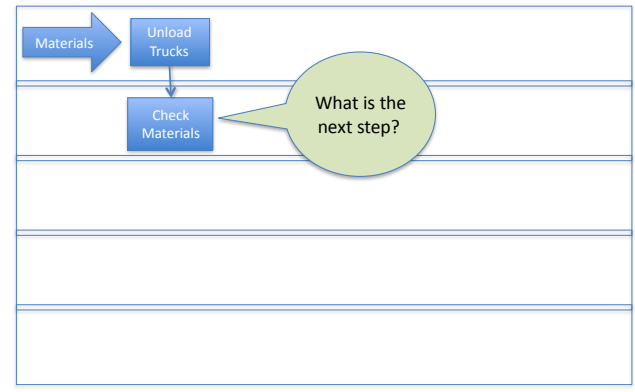
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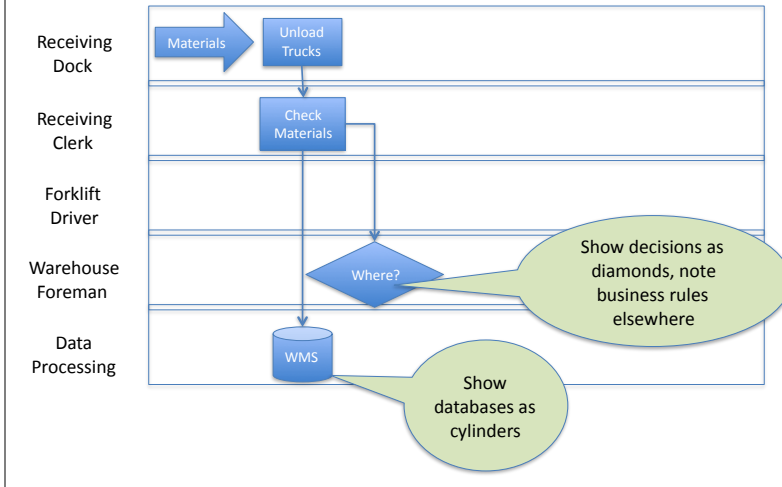


Swim Lane Process Mapping

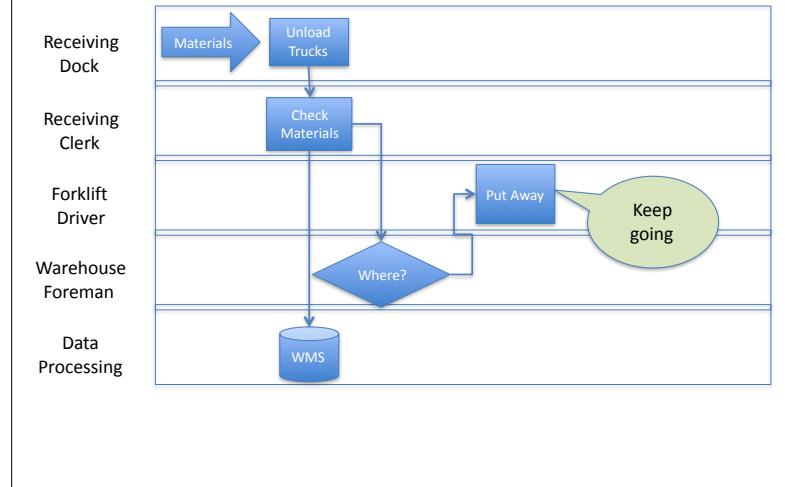
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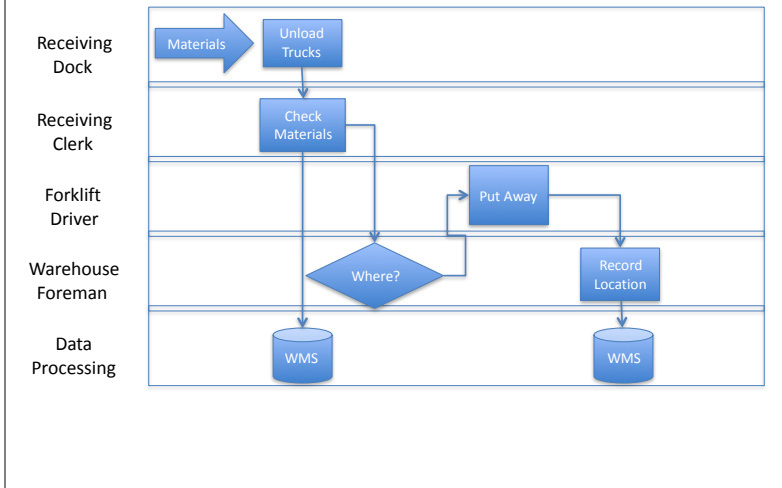
Swim Lane Process Mapping



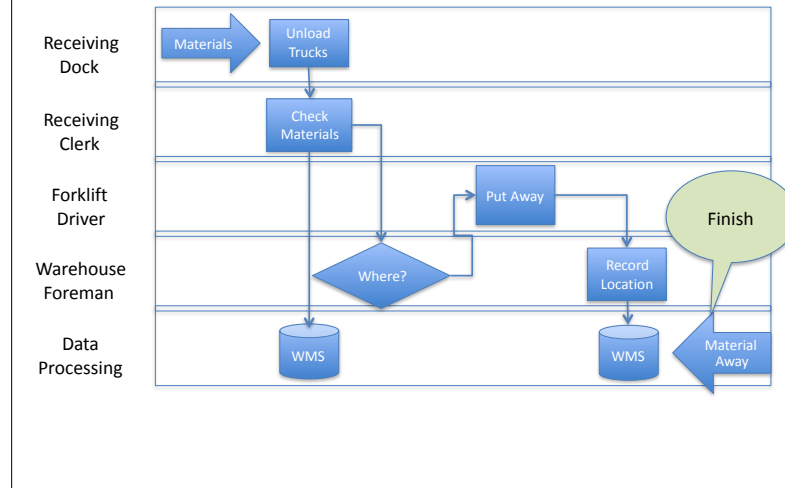
Swim Lane Process Mapping



Swim Lane Process Mapping



Swim Lane Process Mapping



Team Exercise: The Sales Order Process Case

Instructions:

- 1. Read through the case.*
- 2. Work with your team.*
- 3. Identify the actors – Who are all of the people/departments/systems involved?*
 - Share with the class*
- 4. Actions – What are the steps they perform in the process?*
 - Share with the class*
- 5. Sequence – Map the process in sequence using the swim lane method.*
 - Share with the class*