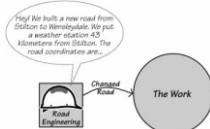


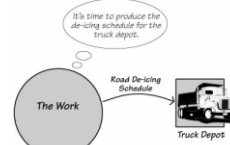
Business Events

- Any system or piece of work responds to *things that happen* outside it. We call these happenings *business events*.
- A business event takes place *outside* the scope of the work.
- The work learns that it has happened through the arrival of an *incoming flow of information*.
- Business events are *determined using* the flows from the adjacent systems on the context diagram.



Time-Triggered Business Events

- A *time-triggered* business event happens when a prearranged time is reached.
- This is based on either
 - a *periodic occurrence* (for example, the end of the month, or 5 P.M. each day),
 - a *fixed time interval* (three hours since the last occurrence), or
 - a certain *amount of time elapsing* since another business event (30 days after sending out an invoice).



Finding Business Events

- You need some *knowledge of the work* to figure out the business events.
- Identify *key roles* (aka user types) from key stakeholders.
- Identify *business events* caused by a key role's action.



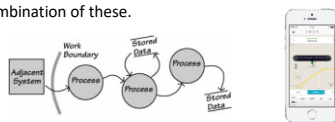
Example

- Calling a cab.
- Waiving vs. calling vs. touching.



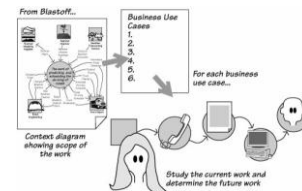
Business Use Cases

- When a business event happens, the work responds by initiating a *business use case*.
- The business use cases are the work's responses to the business events.
- The work's response to the business event is to continue processing until all *active tasks* (the processes) have been completed and all data retrieved or stored.
- The business use case is a *collection of identifiable* processes, data that is retrieved and/or stored, output generated, messages sent, or some combination of these.



Determining Business Use Cases

- From the work context diagram, you *determine* the business events and the resulting business use cases.
- The business use cases are studied *until* the analyst understands the desired functionality of the work and the part of that functionality to be performed by the product.



Scenario (Workflow)

- The **scenario** tells the story of a business use case.



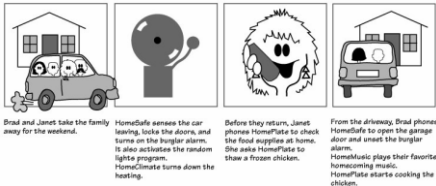
Documenting Scenario: *Storyboards* [1]

- Storyboards** are a prototyping technique borrowed from the film and cartoon industries.
- When a cartoonist is planning a cartoon, he sketches a number of linked pictures.
- These pictures identify the story line and guide the cartoonist in how many detailed pictures he needs to draw.

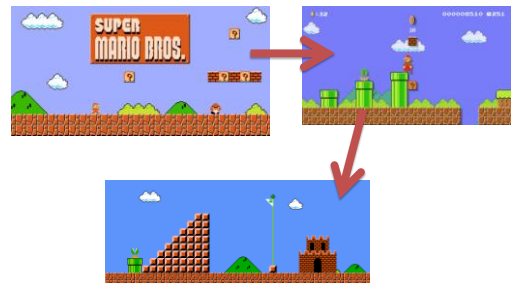


Building a Storyboard

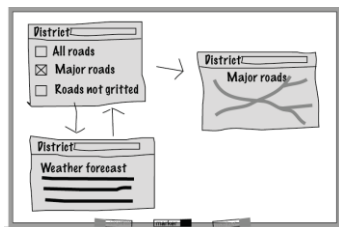
- Building a storyboard** means thinking of the proposed functionality as a story and breaking it into a series of steps, or discrete actions.
- Draw each action as a panel of the story.



Documenting Scenario: *Pictures*

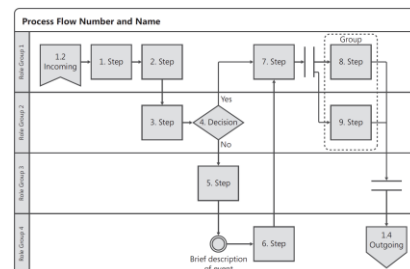


Documenting Scenario: *Quick and Dirty Prototypes*



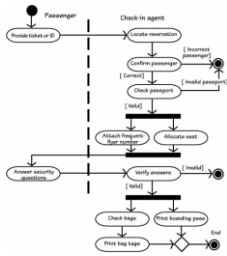
<https://balsamiq.com/>

Documenting Scenario: *Process Flow* [2]



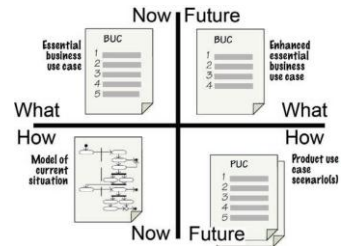
<https://www.lucidchart.com>

Documenting Scenario: *Activity Diagram*



See Software Requirements:
04.1. Unified Modeling
Language for details.

The Brown Cow Model



Further Reading

- Tom DeMarco (1979). Structured Analysis and System Specification.
– Data-flow diagram.
- Stephen M. McMenamin and John F. Palmer (1984). Essential Systems Analysis.
– Event-partitioning approach.
- Edward Yourdon (1989). Modern Structured Analysis. Prentice Hall.

Thank You & See You Again

