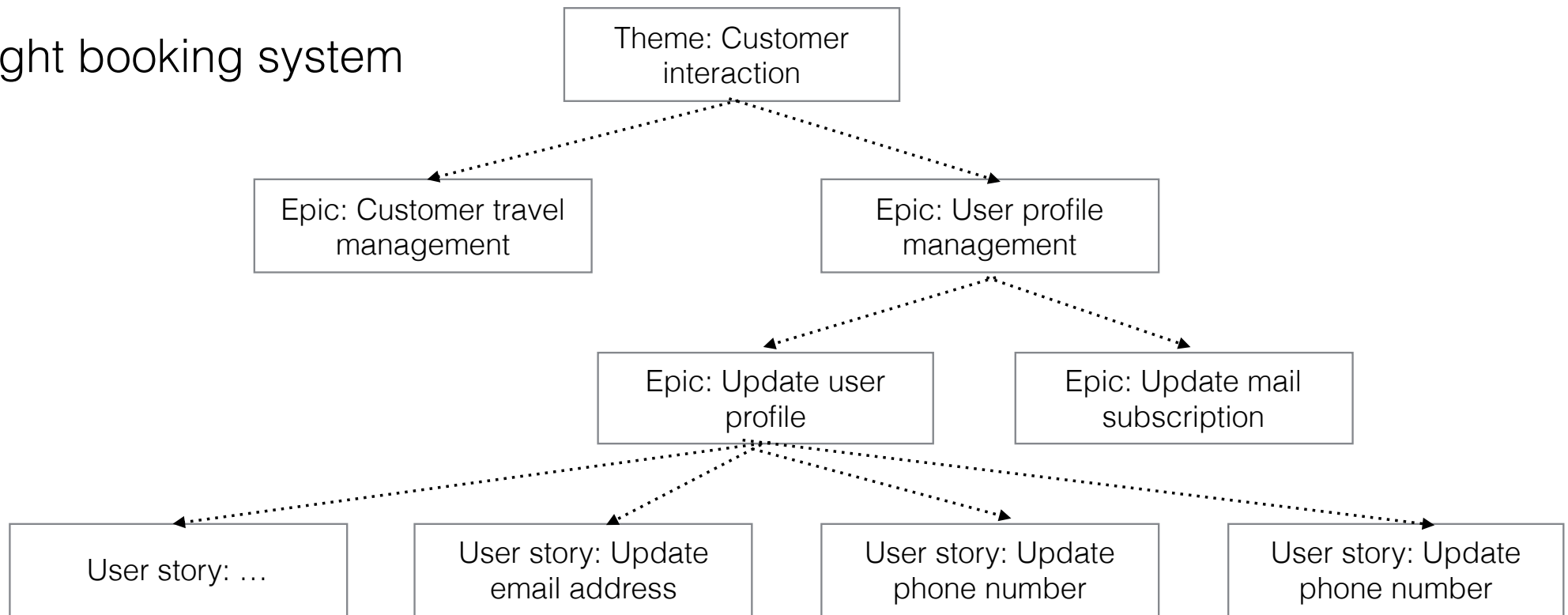# DAT255: Scaling Agile

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Backlog priority

- Backlog priority = ROI + risk reduction

  - ROI - return on investment, i.e. customer value / investment

  - Project risk (mitigated by knowledge)

    - Lack of competence

    - Technical risks

    - Budget risk

- Time

- Quality risk (mitigated through backlog priority)

  - Technical debt

- Backlog risk (mitigated by saying no to too many backlog items)

  - Backlog age

  - Backlog size

Backlog items

- Themes group Epics into high-level areas

- Epics — User stories — Tasks

- Product backlog fields:

Type	ID	Name	Priority	Estimate	Description	DoD	Asignee	Theme ID	Epic ID
Theme	x	x							
Epic	x	x	x	x	x	x		x	
User story	x	x	x	x	x	x	x		x

Break down backlog items

Flight booking system

User story (or epics) estimates

- User story: use story points, Epics: use epics points

- Methods:

  - Planning poker

  - Sort all user stories in size order, group and assign story points

Sprint planning

1. Sprint goal, walk through of backlog by product owner

2. Check velocity: Estimated number of story points this sprint = (Completed story points last spring / Total time last sprint) * Time this coming sprint

3. Select user stories to be included in this sprint (use value from 2.)

4. Break down user stories to tasks and estimate tasks in hours

- A product owner can affect what stories are brought into a sprint by reprioritising the backlog or change the scope of user stories
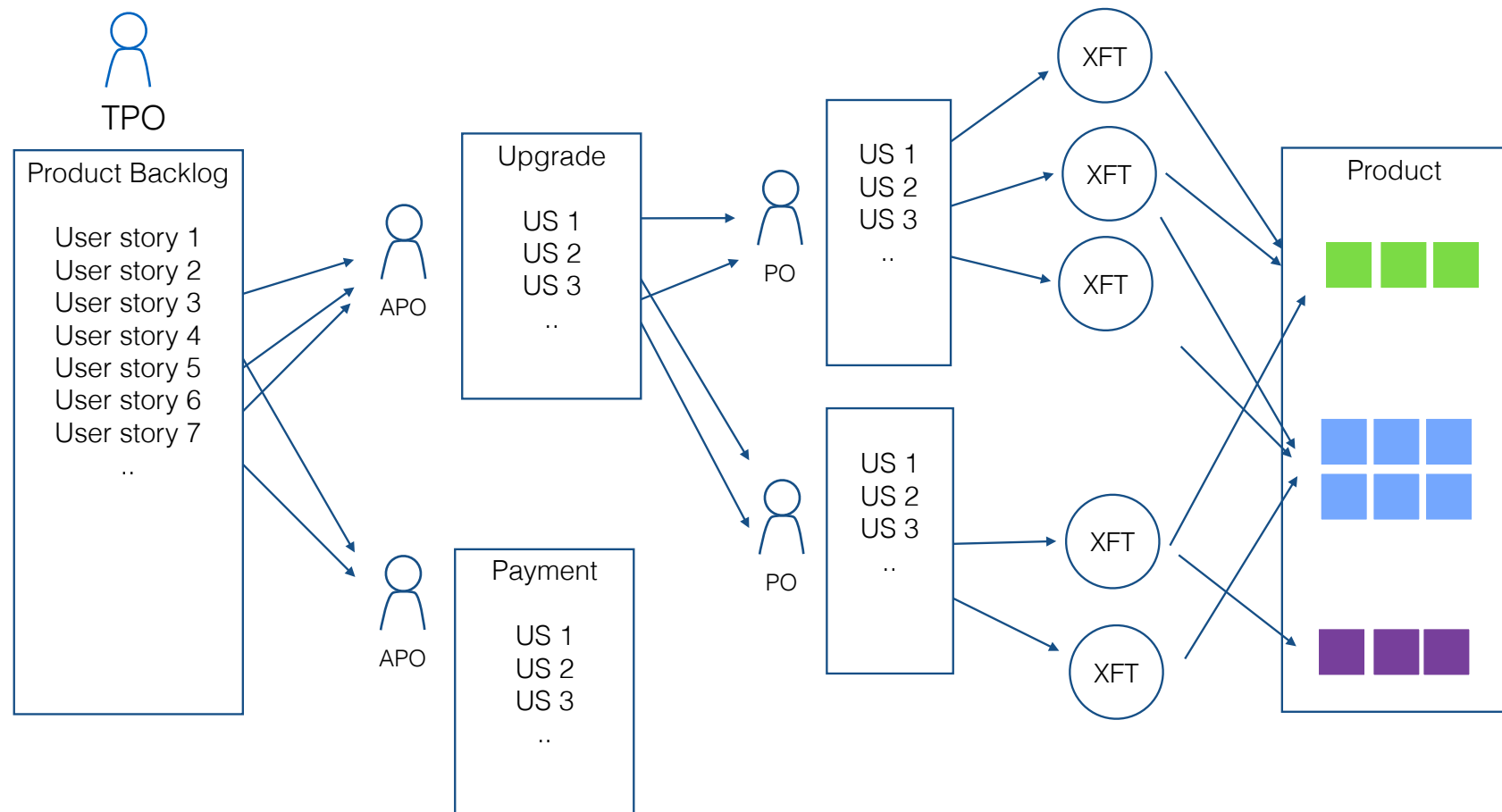
Definition of done

- Look at the delivery chain

  - Team > code review > static code analysis > build module > module test > system test with new module > integrate module in baseline > build complete system > re-rest of baseline build > Customer delivery

  - Decide what parts of the delivery chain that needs to be included in definition of done

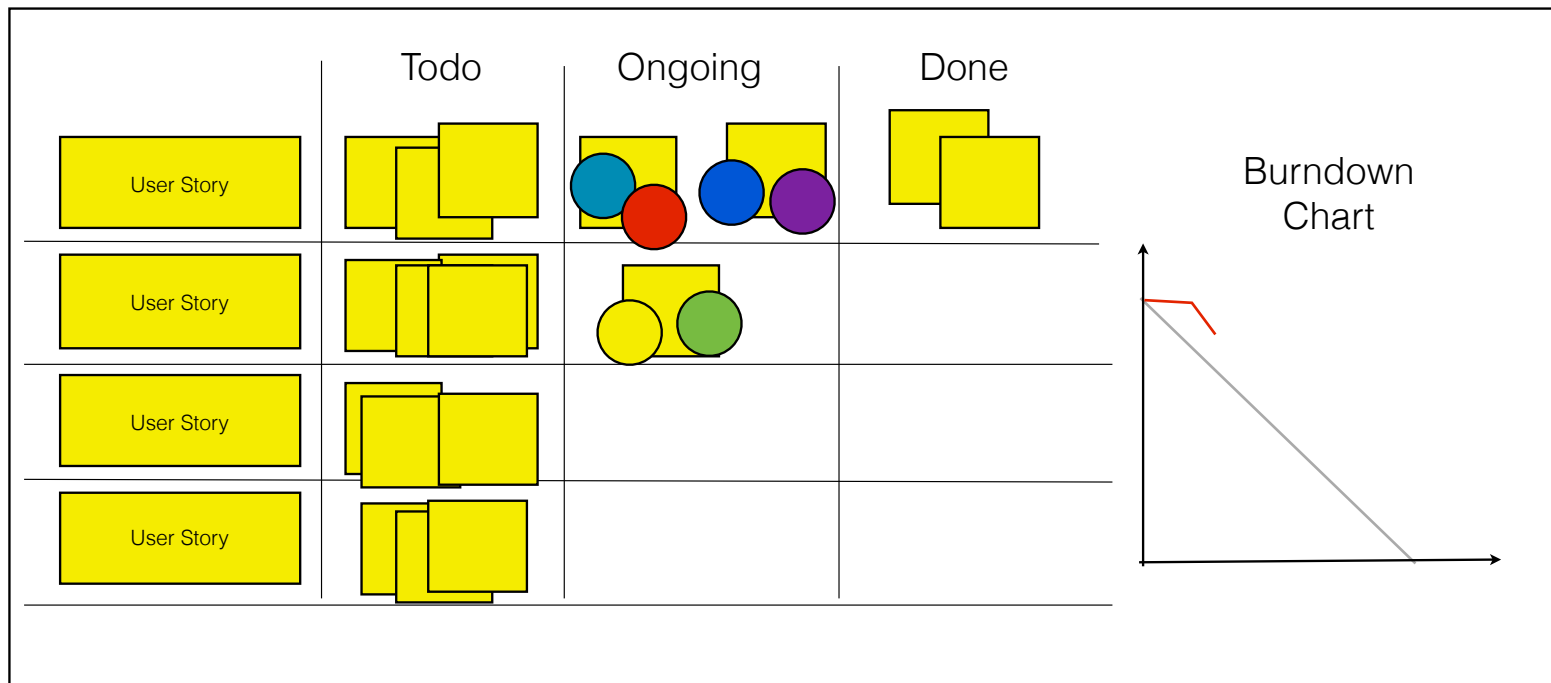 - Add documentation, to write automatic module test cases etc.

Scaling agile

- Scale because of large organisation or complex product

- Component teams vs. feature teams (with component teams it is not possible to follow backlog priority, feature teams are a must)

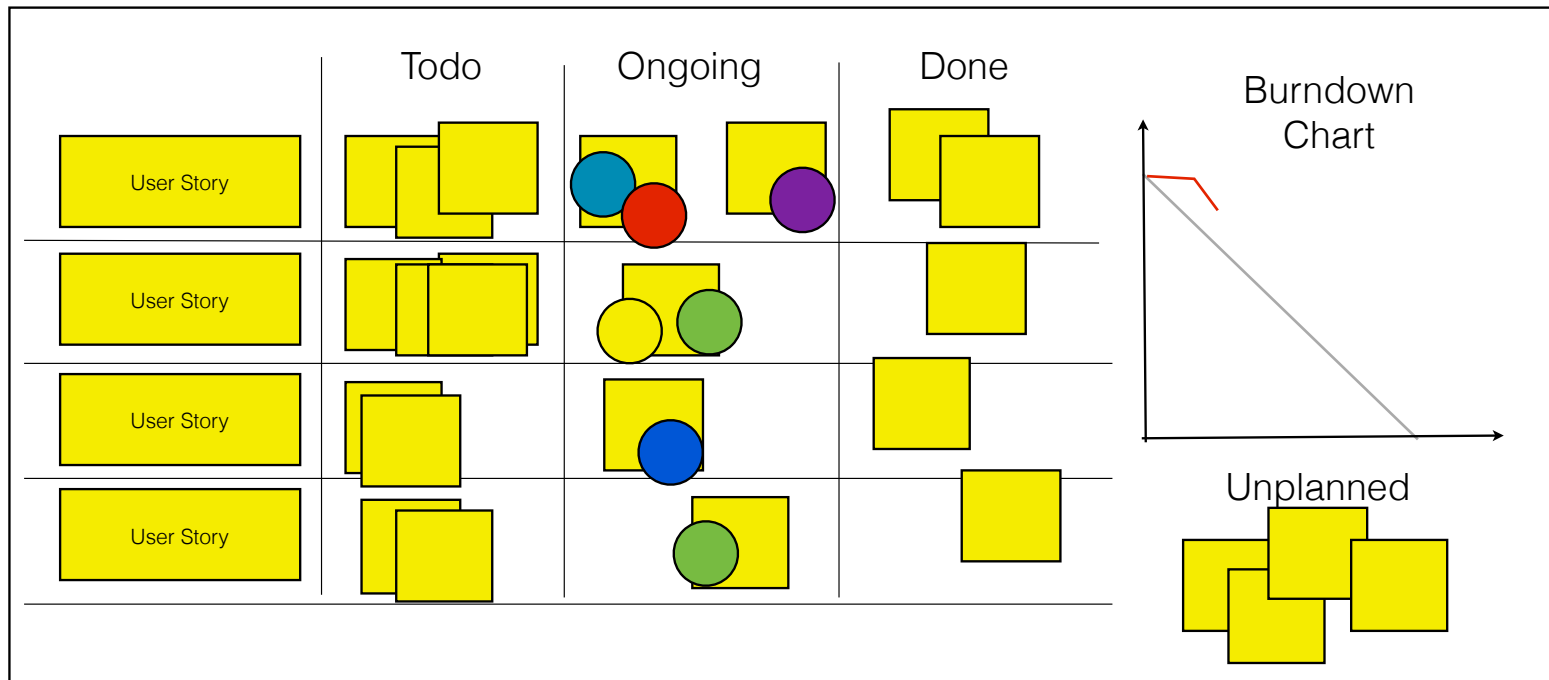- Scale the organisation if necessary, use requirement areas (keep feature teams)

Scaling Agile - large organisation

Sprint board

Sprint board - common mistakes

	Todo	Ongoing	Done
User Story			
User Story			
User Story			
User Story			

Burndown Chart

Unplanned

Not working in priority order on user stories
A lot of unplanned tasks