

# SER516

# Software Agility:

# Project and Process Management

## Lecture 09. Product Backlog

**Javier Gonzalez-Sanchez**

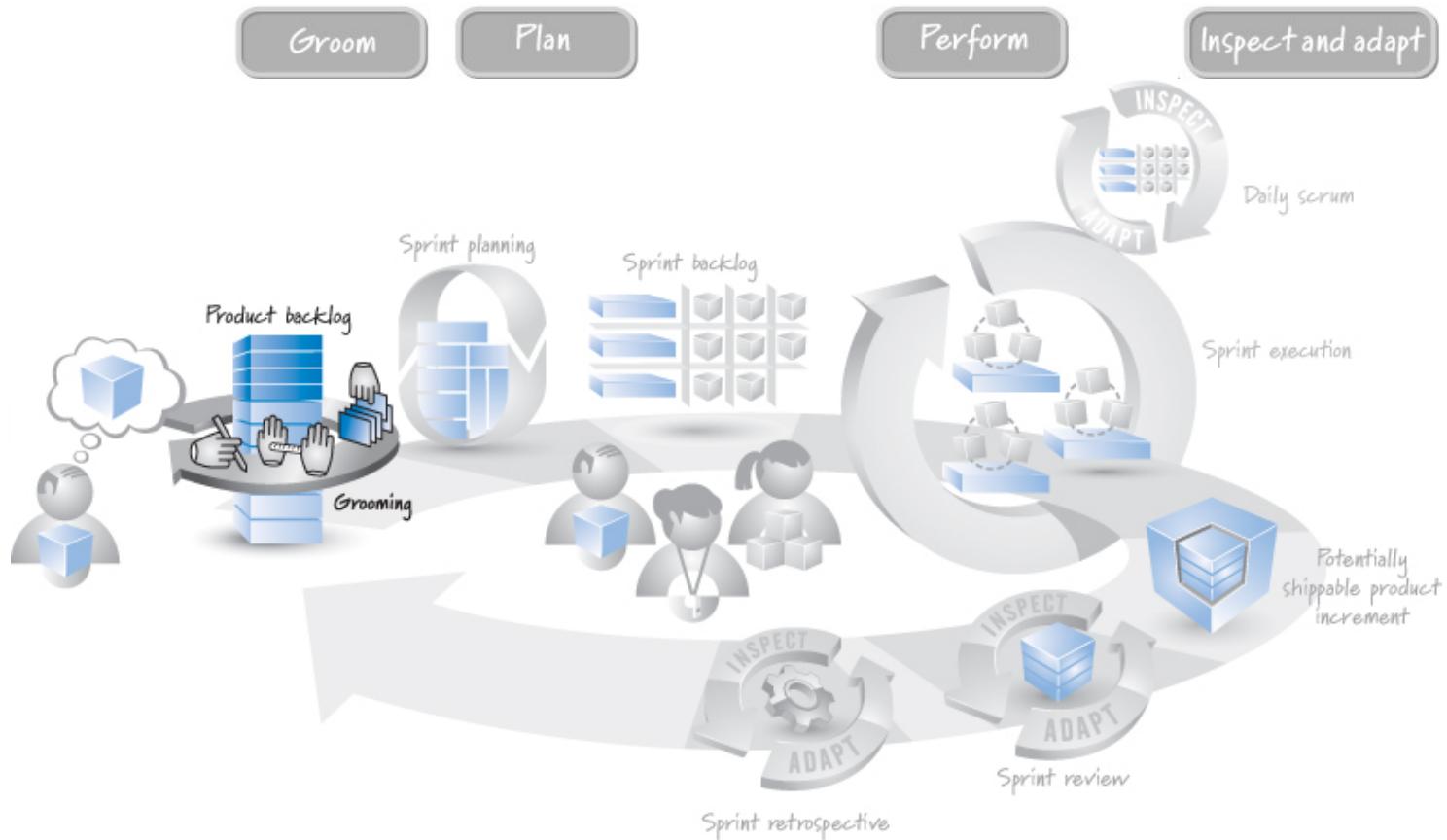
[javiergs@asu.edu](mailto:javiergs@asu.edu)

[javiergs.engineering.asu.edu](mailto:javiergs.engineering.asu.edu)

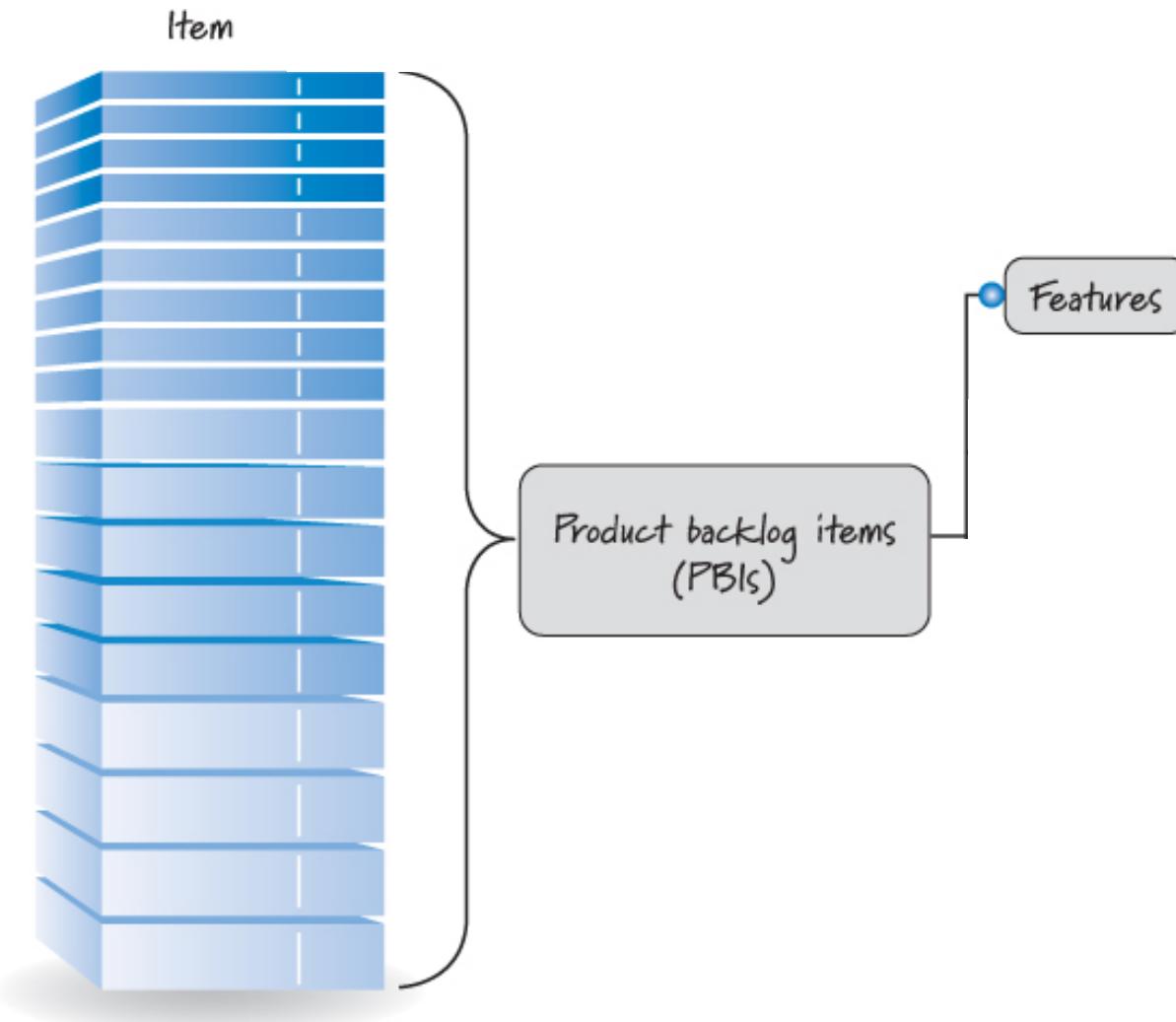
Office Hours: By appointment

# Definition

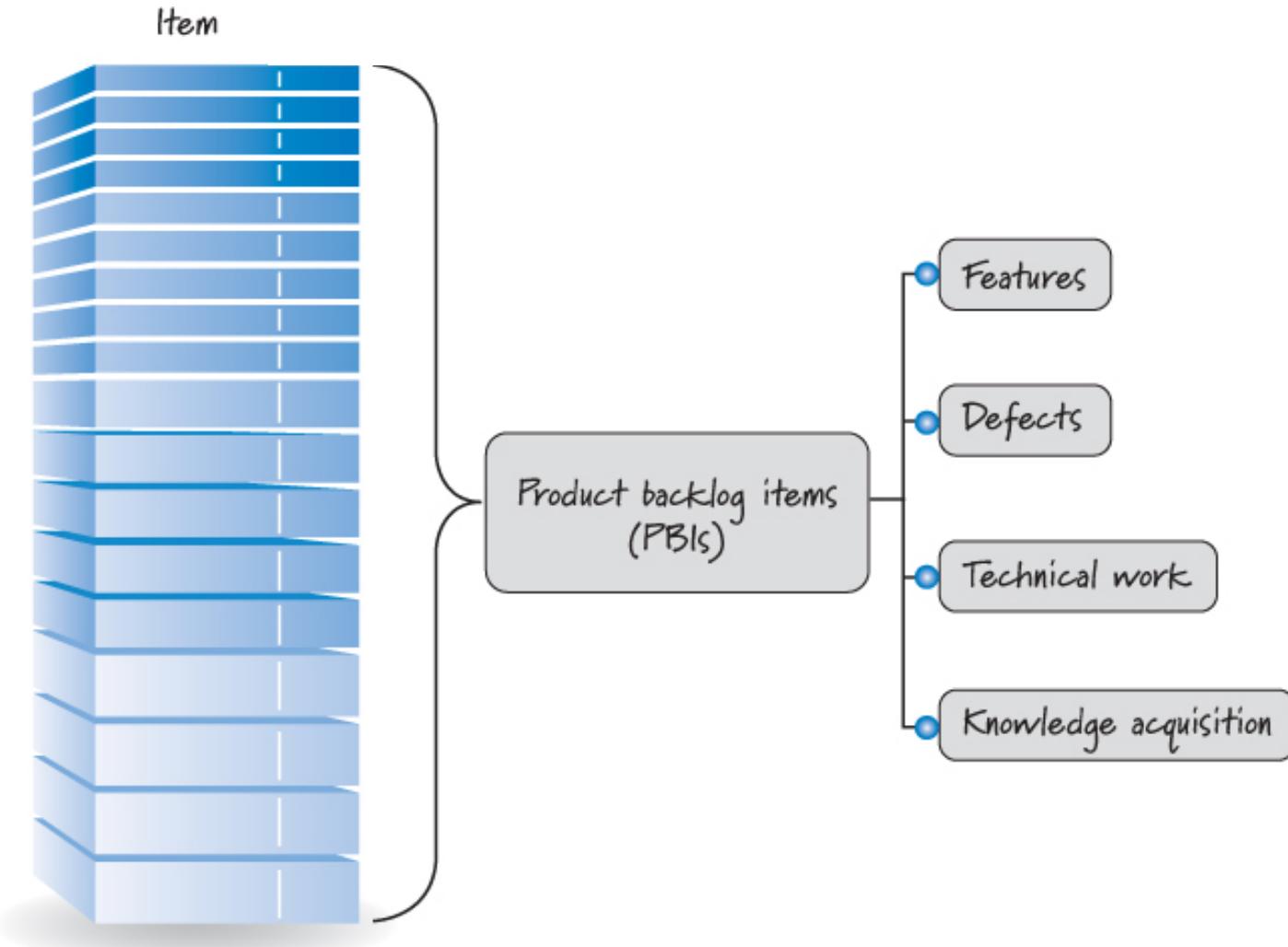
- **Product Backlog:**  
A **prioritized** list of desired product functionality.



# Definition



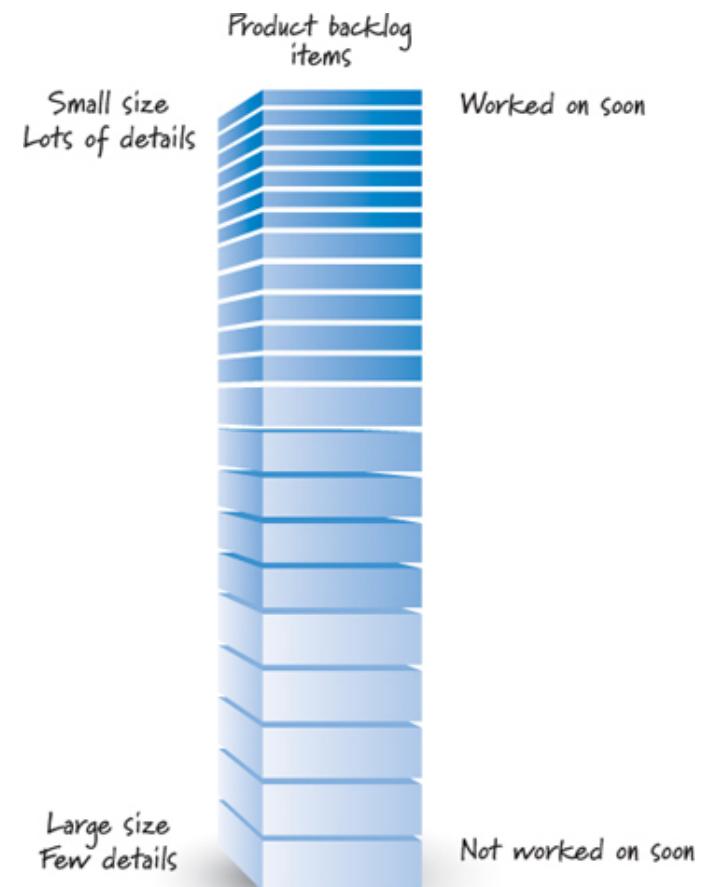
# Definition



# Key Characteristics (DEEP)

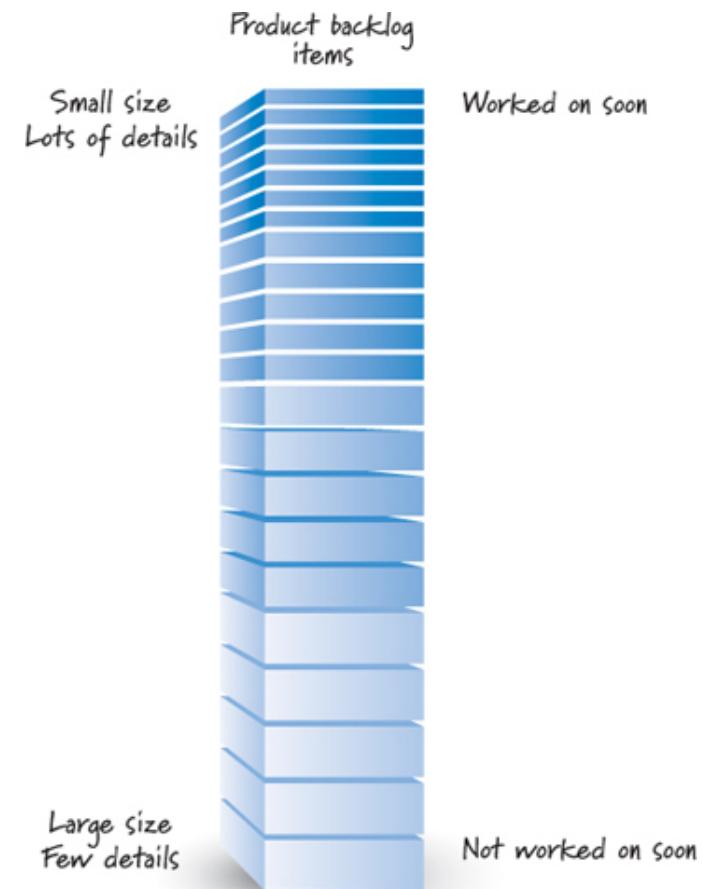
- **Detailed Appropriately**

Stories at the top,  
Epics at the bottom



# Key Characteristics (DEEP)

- **Detailed Appropriately**
- **Emergent**
  - Constantly updating
  - Rebalance and Reprioritize



# Key Characteristics (DEEP)

- Detailed Appropriately

- Emergent

- **Estimated**

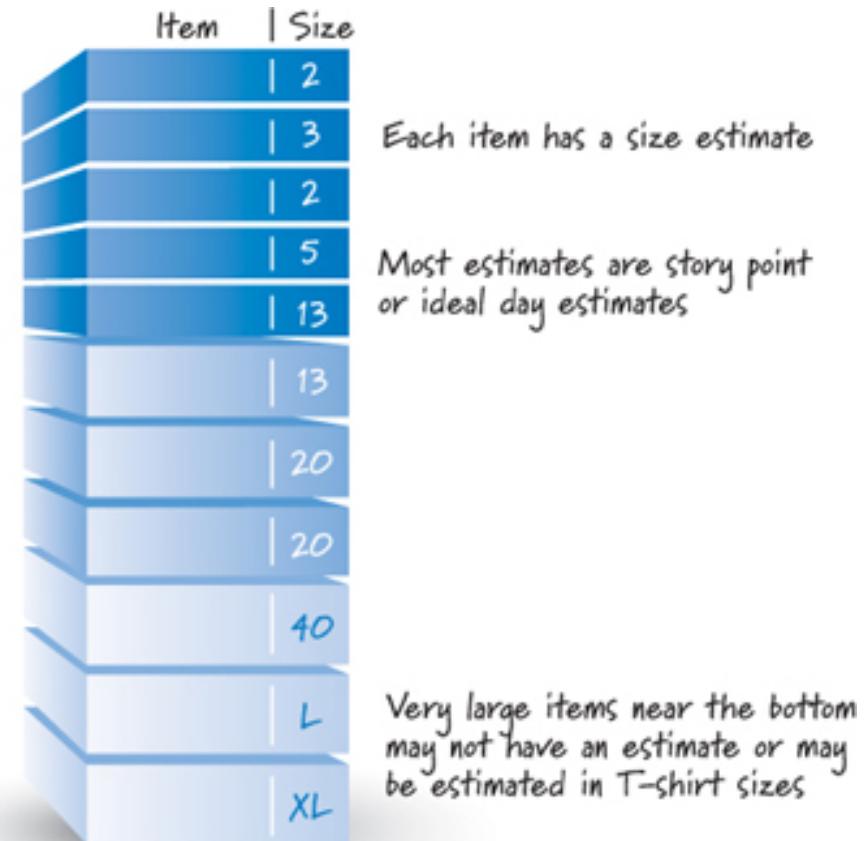
Estimated Size, i.e. Effort.

For stories:

- a) story points
- b) ideal days

For epics:

- a) L, XL, XXL ...
- b) nothing



# Estimation | Planning Poker Technique

Card(s)	Interpretation
0	Task is already completed.
1/2	The task is tiny.
1, 2, 3	These are used for small tasks.
5, 8, 13	These are used for medium sized tasks.
20, 40	These are used for large tasks.
100	This is used for very large tasks.
$\infty$	The task is huge.
?	I have no idea how long this task is going to take.

Pseudo – Fibonacci: 1, 2, 3, 5, 8, 13, ...

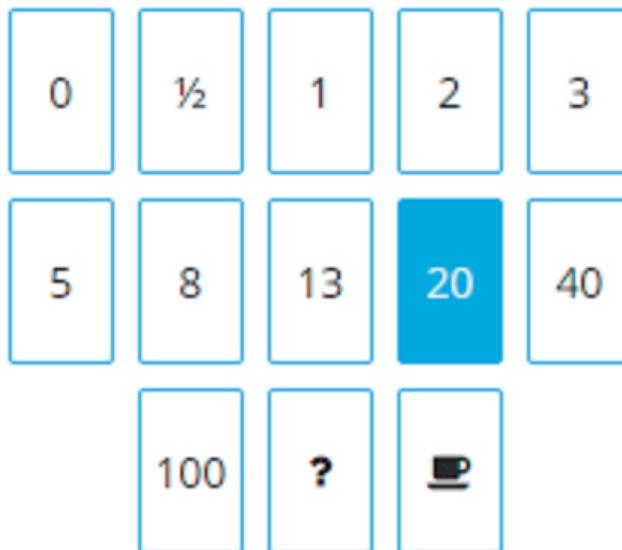
Binary – 1, 2, 4, 8, 16, 32 ....

Linear – 1, 2, 3, 4, 5, 6, ...

# Estimation | Planning Poker Technique

## My Project

User can join session



Active Stories 3

Completed Stories 0

All Stories 3

+ New Story

# Key Characteristics (DEEP)

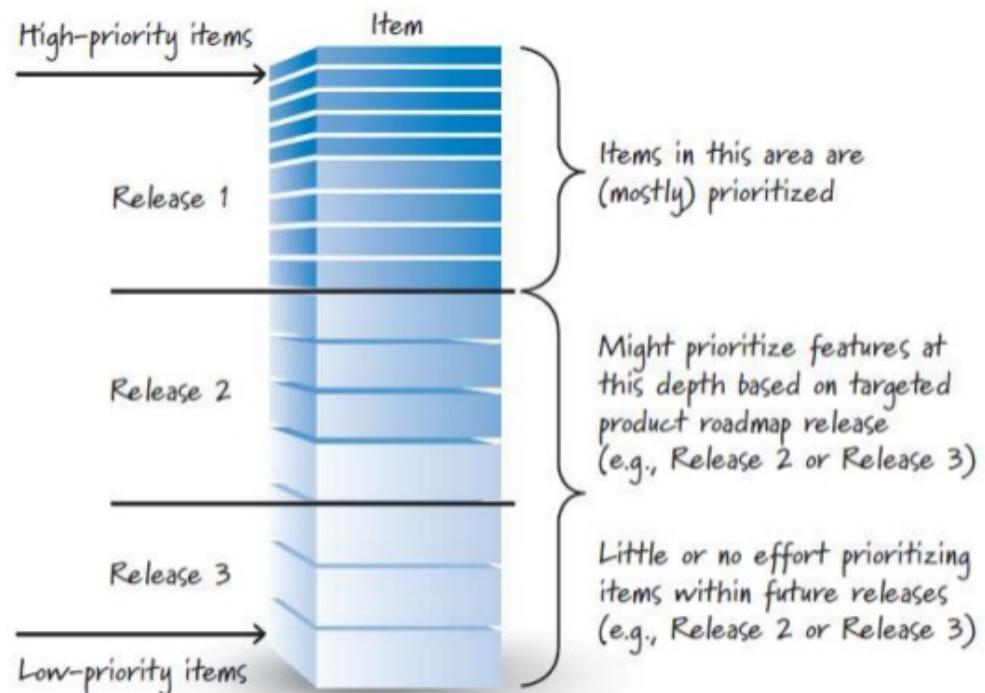
- Detailed Appropriately

- Emergent

- Estimated

- **Prioritized**

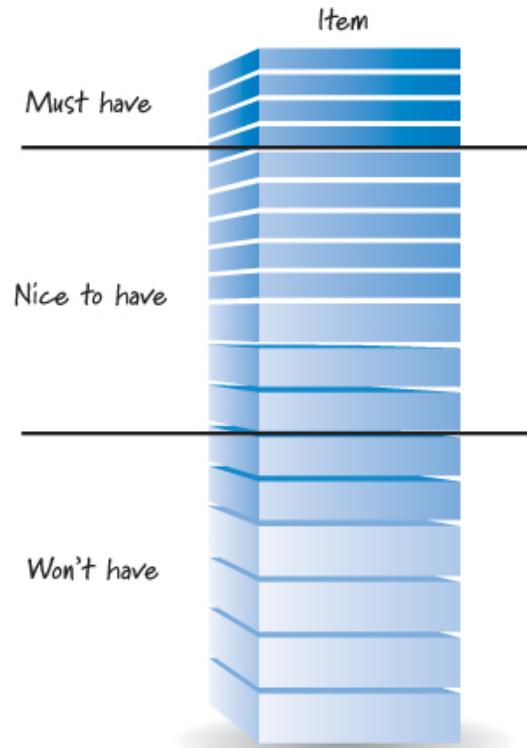
Think about releases



# Key Characteristics (DEEP)

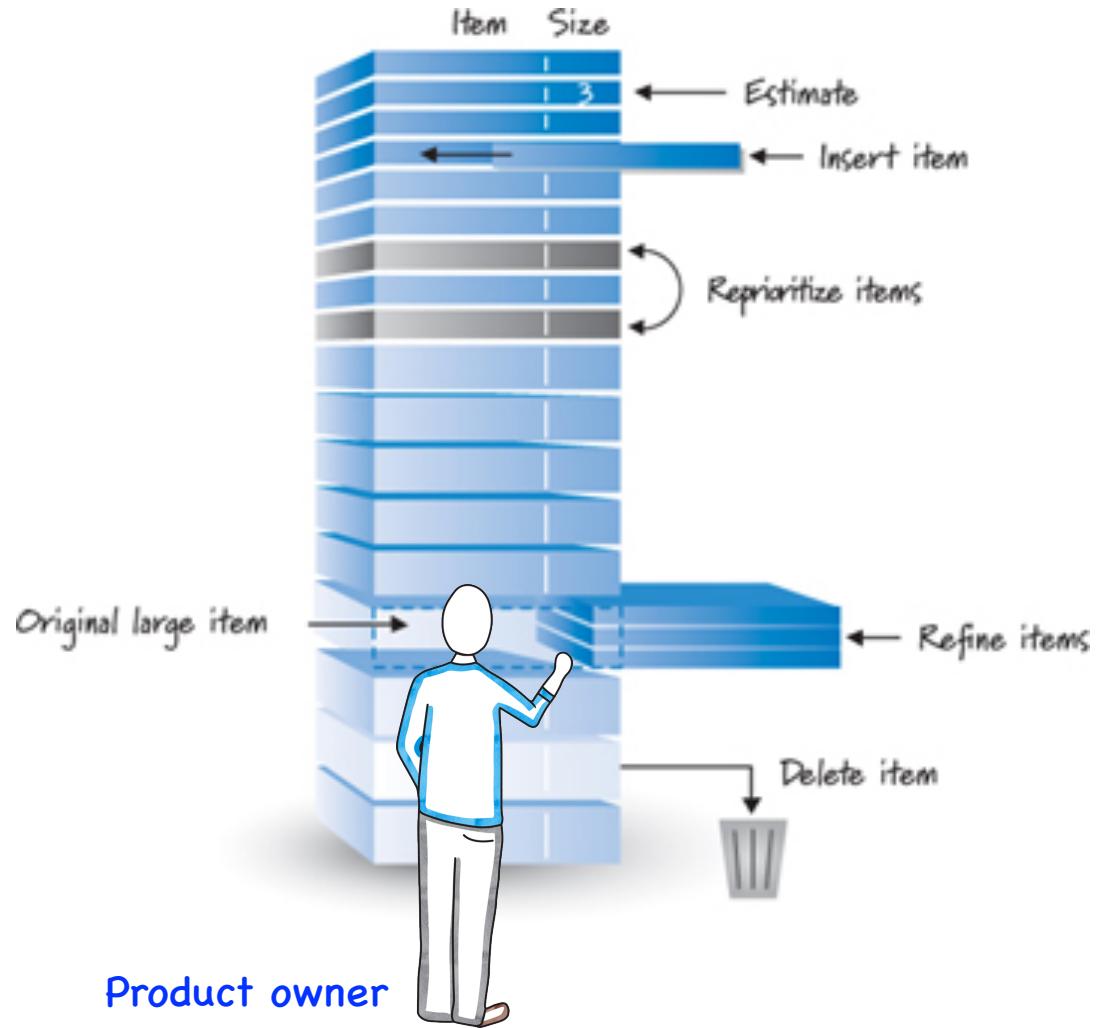
- Detailed Appropriately
- Emergent
- Estimated
- **Prioritized**

Think about releases

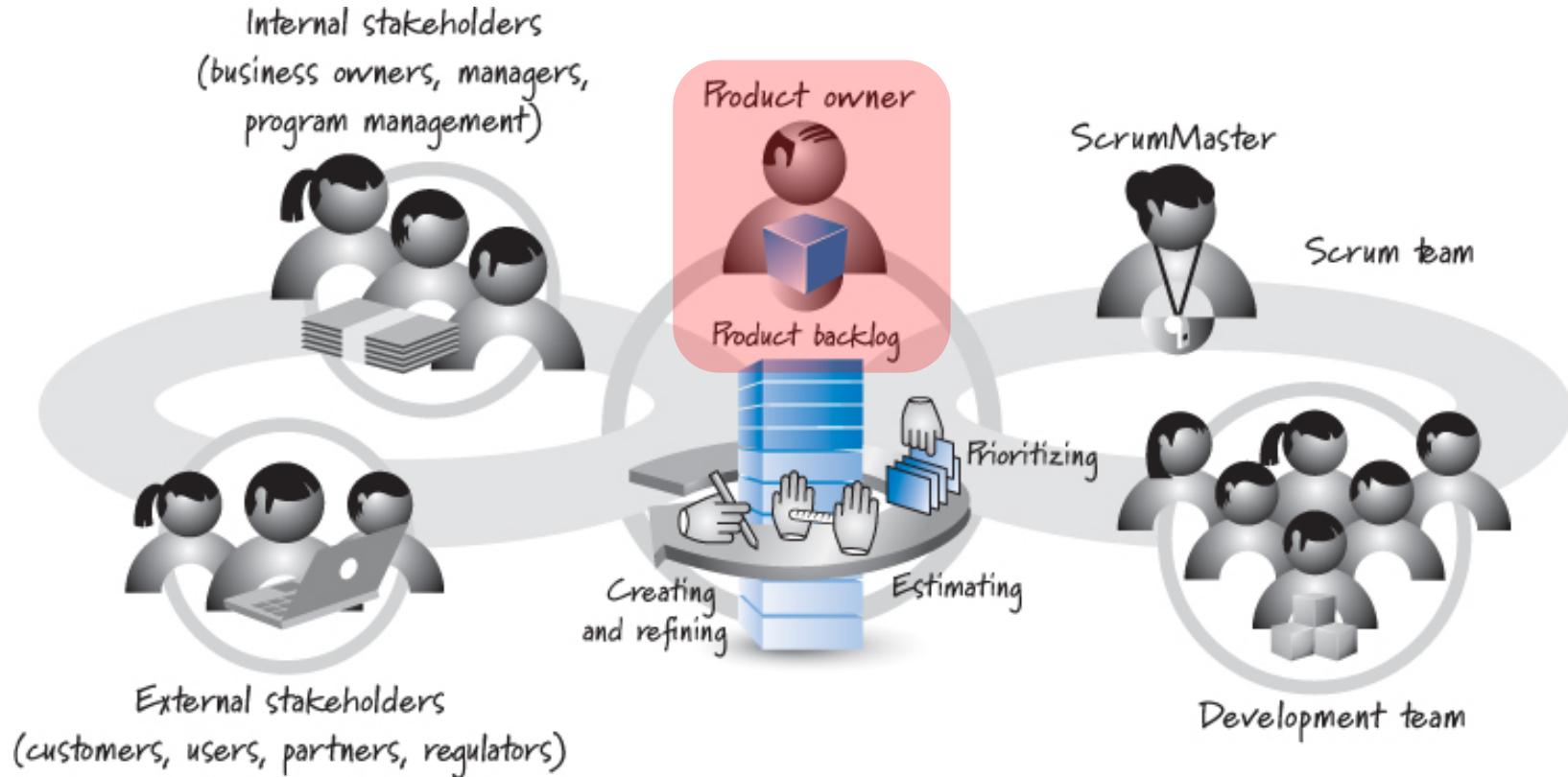


# Grooming

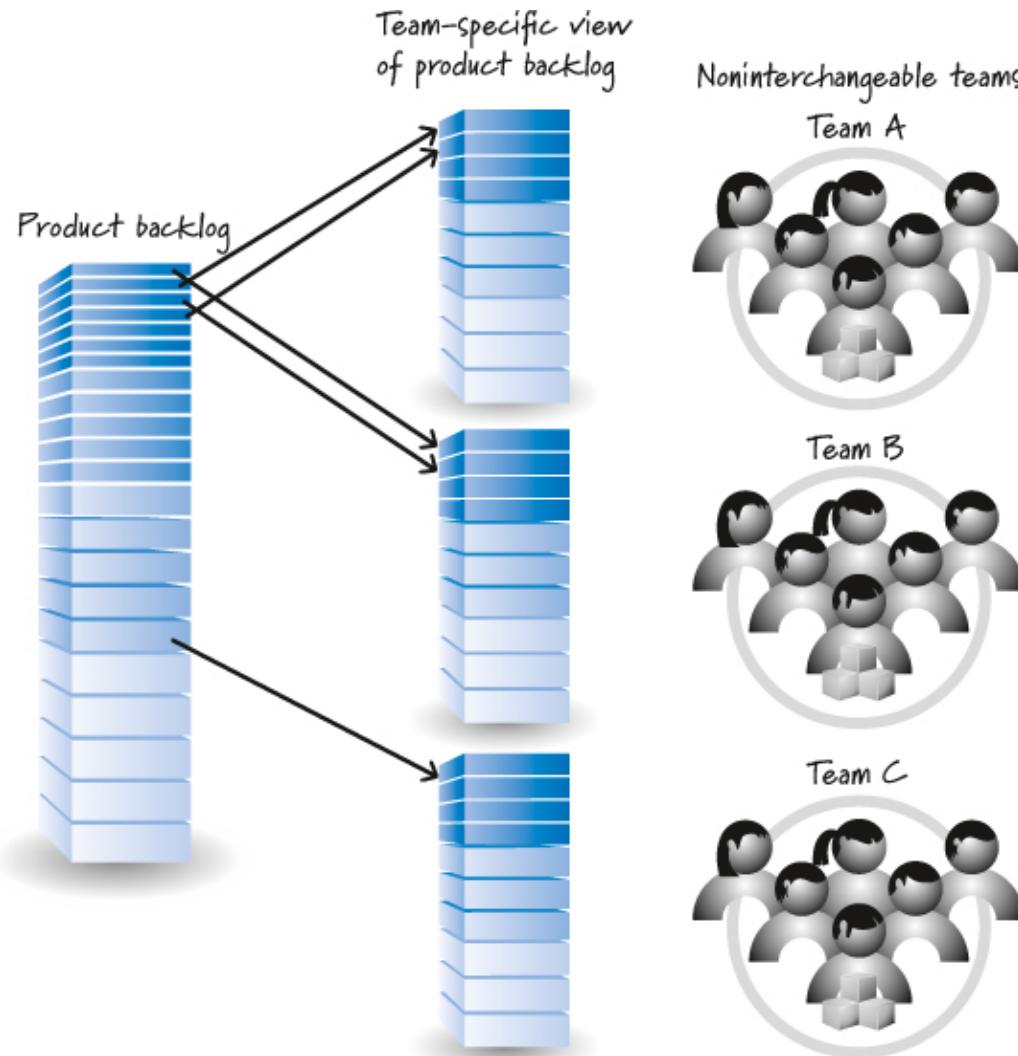
- Refining details
- Re-estimating
- Re-Prioritizing



# Grooming is Collaborative



# Hierarchical Backlogs



# Practice

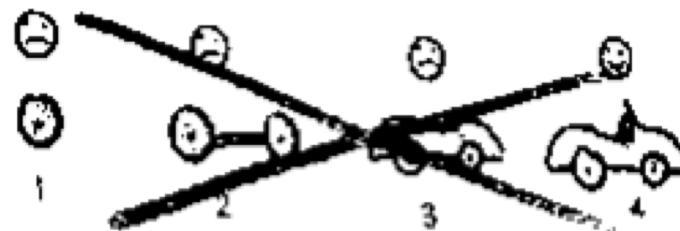
```
types.Operator):
    X mirror to the selected
    select.mirror_mirror_x"
```

# Creating Stories

## Storyboard

Epic(s)

Not like this



Theme(s)

Like this!



- a) Who
- b) What, What if
- c) Why

Stories (**INVEST**)  
Priority  
Estimation

|

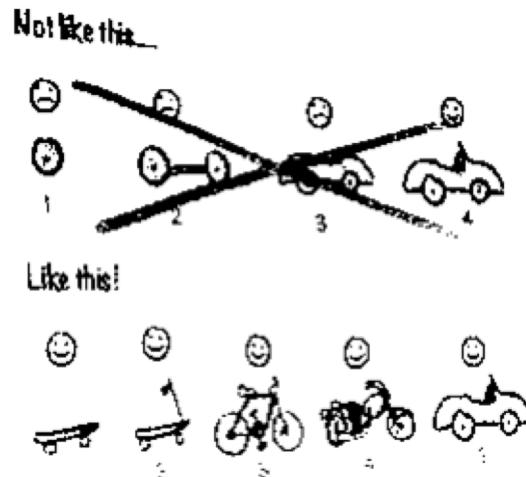
# Creating Stories | Example

## Storyboard

Epic(s)

Theme(s) \*

- a) Who
- b) What, What if
- c) Why



Stories (**INVEST**)  
Priority  
Estimation

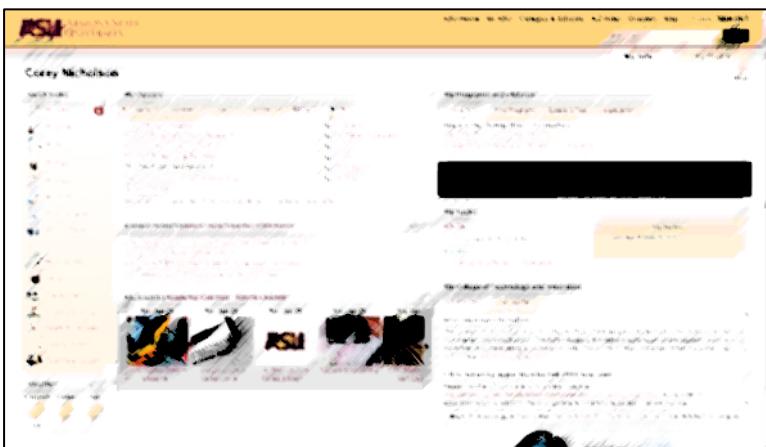
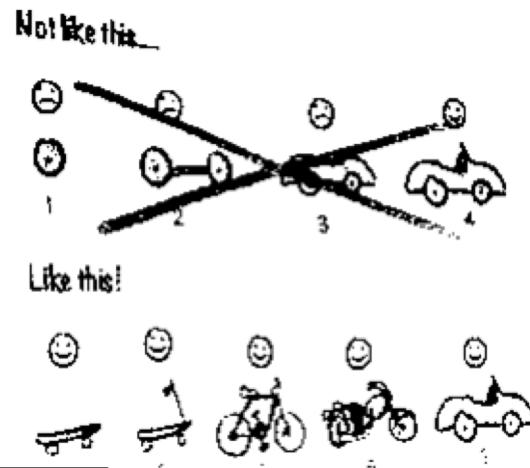
# Creating Stories | Example

## Storyboard

Epic(s)

Theme(s) \*

- a) Who
- b) What, What if
- c) Why



Stories (**INVEST**)  
Priority  
Estimation

# Homework

# Homework



PBI	P	E

- **Define** PBI for the described project (see next slide)
- **Prioritize** the PBIs (1 is highest priority)
- **Estimate** the PBIs (apply **Planning Poker**)

Think carefully about Estimated values.

# Reference

- Essential Scrum – Chapter 6.

```
    mirror_mod = modifier_obj
    mirror_mod.mirror_object = mirror_object
    if operation == "MIRROR_X":
        mirror_mod.use_x = True
        mirror_mod.use_y = False
        mirror_mod.use_z = False
    if operation == "MIRROR_Y":
        mirror_mod.use_x = False
        mirror_mod.use_y = True
        mirror_mod.use_z = False
    if operation == "MIRROR_Z":
        mirror_mod.use_x = False
        mirror_mod.use_y = False
        mirror_mod.use_z = True
```

```
selection at the end -add
```

```
    ob.select= 1
    mirror_ob.select=1
    bpy.context.scene.objects.active = mirror_ob
    ("Selected" + str(modifier_index))
```

## SER516 – Software Agility

Javier Gonzalez-Sanchez

[javiersgs@asu.edu](mailto:javiersgs@asu.edu)

OPERATOR Spring 2020

**Disclaimer.** These slides can only be used as study material for the SER516 course at ASU.

They cannot be distributed or used for another purpose.