

# Technology Start-ups Lecture 12

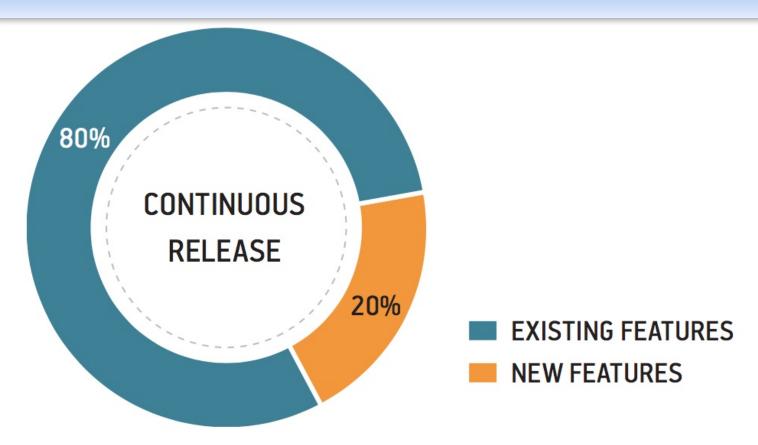
#### Don't Be a Feature Pusher

John Cavazos

Dept of Computer & Information Sciences

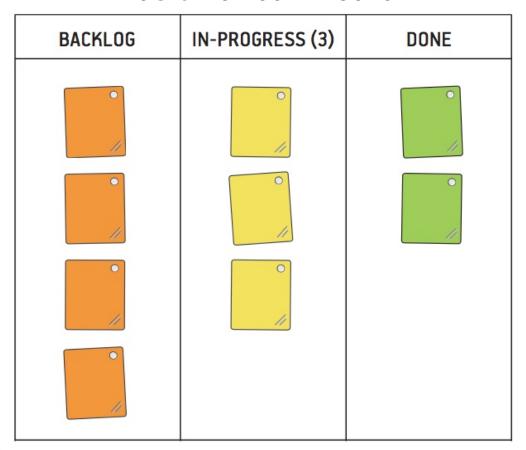
University of Delaware

- Most features dilute the UVP
- Don't give up on MVP too early
  - Put down the compiler and understand why customers aren't buying!
- All features have a hidden cost
- Still don't know what customers want

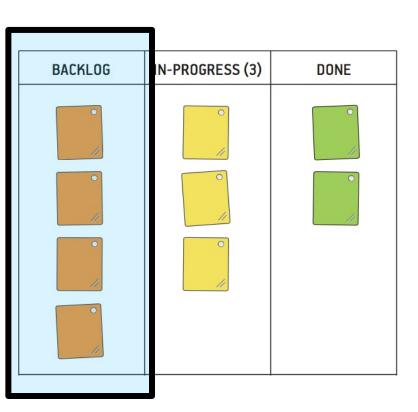


After launch, 80% of time should be spent continuously improving existing features





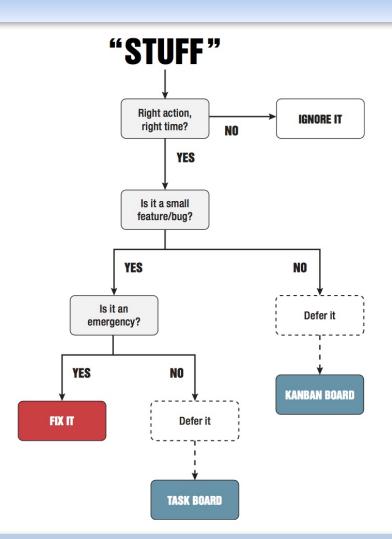




Backlog (aka "TODO")

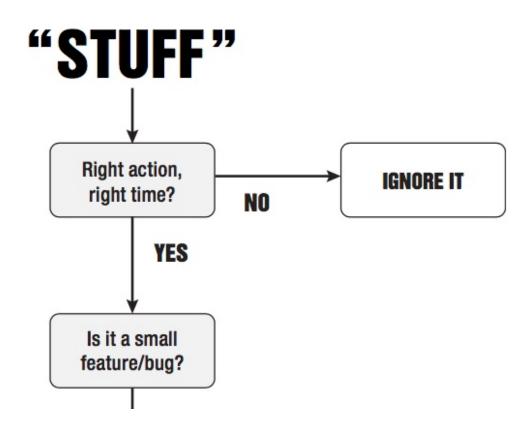
- Only MMF go here
  - (MMF= minimal marketable features)
- Smaller tasks that makeup MMF go in a lighter-weight task board



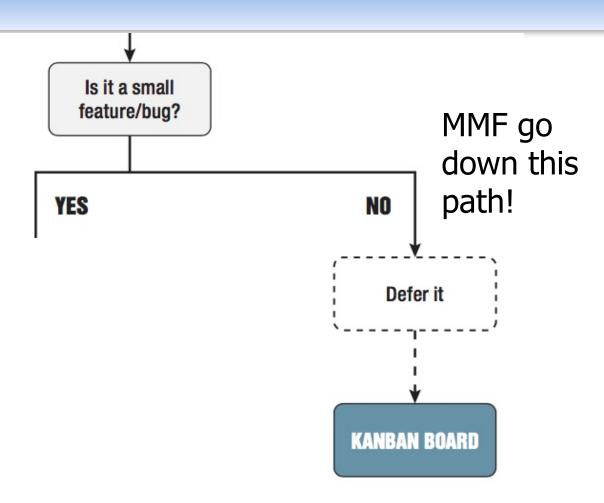


Use this workflow!

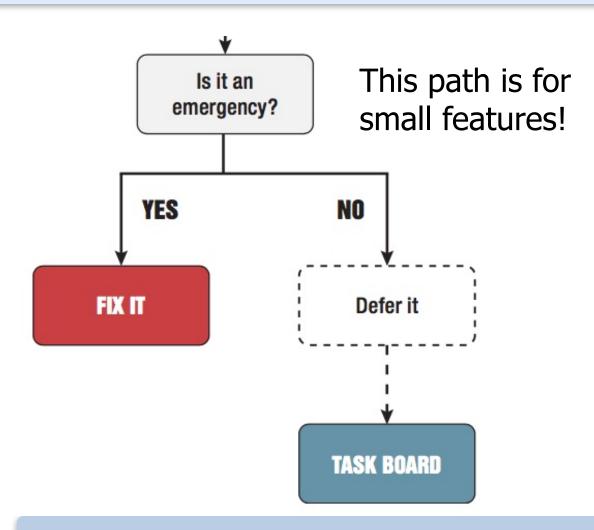




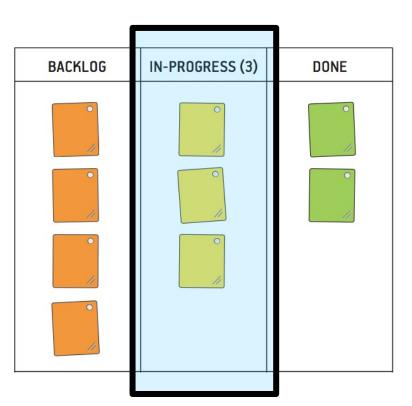








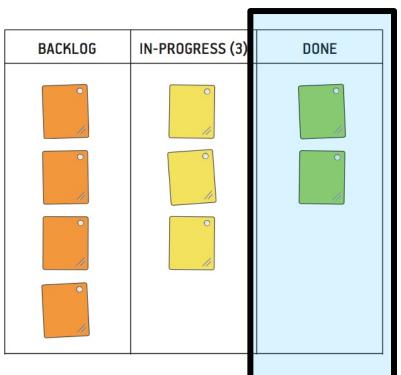




In-Progress (aka "Doing")

- WIP in paranthesis
  - (Work-In-Progress limit)

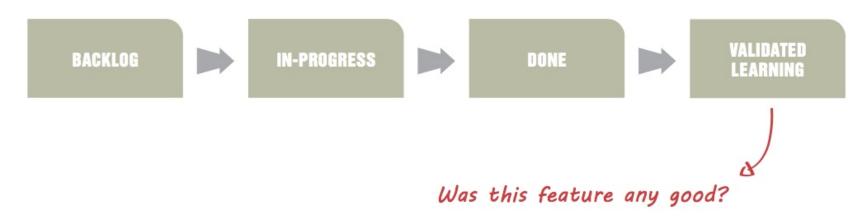




Done here is arbitrary

- Code complete
- Testing complete

Book recommends this means "learning validation" complete



Or, add a new phase in your Kanban board for "validated learning"



## Advanced Kanban Board

#### Goal: Work on MVP version 1.0 (defined in Dev-Doc.pdf)

BACKLOG	IN-PROGRESS (3)					DONE	VALIDATED LEARNING
BACKLOG	IN-PROGRESS	DONE	CODE	PARTIAL ROLLOUT	VALIDATE QUALITATIVELY	FULL ROLLOUT	VERIFY QUALITATIVELY
			0				

Goal: Add a goal on top to get everyone on same page!



### Advanced Kanban Board

#### Goal: Work on MVP version 1.0 (defined in Dev-Doc.pdf)

BACKLOG	IN-PROGRESS (3)					DONE	VALIDATED LEARNING
BACKLOG	IN-PROGRESS	DONE	CODE	PARTIAL ROLLOUT	VALIDATE QUALITATIVELY	FULL ROLLOUT	VERIFY QUALITATIVELY
			0				

If feature fails validated learning it can be 1) Killed or 2) sent back to previous stage



#### Advanced Kanban Board

#### Goal: Work on MVP version 1.0 (defined in Dev-Doc.pdf)

BACKLOG	IN-PROGRESS (3)					DONE	VALIDATED LEARNING
BACKLOG	IN-PROGRESS	DONE	CODE	PARTIAL ROLLOUT	VALIDATE QUALITATIVELY	FULL ROLLOUT	VERIFY QUANTITAVIELY
	0		0				

Qualitative learning quicker than Quantitative learning

## Backlog

- Use feature workflow
- Customer-pulled features
  - Call customers:
    - 1. try to identify root problem
    - 2. Try to talk them out of it
- Internally-pulled features
  - Same as above

#### Mockup-Demo-Code

- For each feature create a mockup
  - Start with paper sketches, but quickly switch to HTML/CSS
- Conduct interviews with demo
  - Validate feature
  - Move forward after strong signal
- Code



#### Validate Qualitatively

Partial rollout

- Release to a small number of customers
- Conduct interviews as before
  - Iterate to get strong signal or to correct any issues

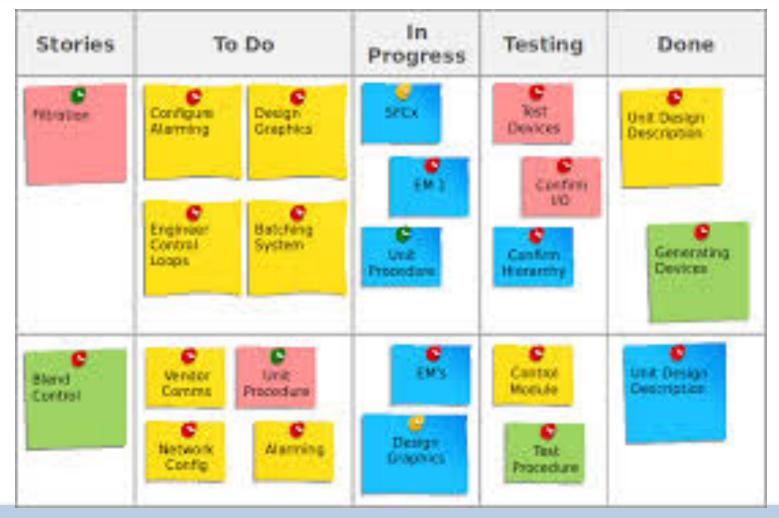


### Verify Quantitately

- 1. Full rollout
  - Reduce WIP from previous stage
- 2. Verify
  - Cohort testing

Split-testing if feature did not receive strong signal from qualitative interviews (previous stage)







#### Scrum Board vs Kanban Board

#### **Stories**

1. A set of tasks that form a cohesive feature (similar to an MMF)

### **Sprint**

- The amount of time to finish stories
  - 1 to 2 weeks max
  - Main difference to a Kanban board (no sprint)