

SCRUMBAN SIMULATION

A safe way to learn how to deal with
both planned and unplanned work
in an iterative approach.

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Scrumban: Setting the scene

Why Scrumban?



Will open a YouTube video

What is Scrumban?



- Planned work
- Timeboxed + focus

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- Unplanned work
- Flow

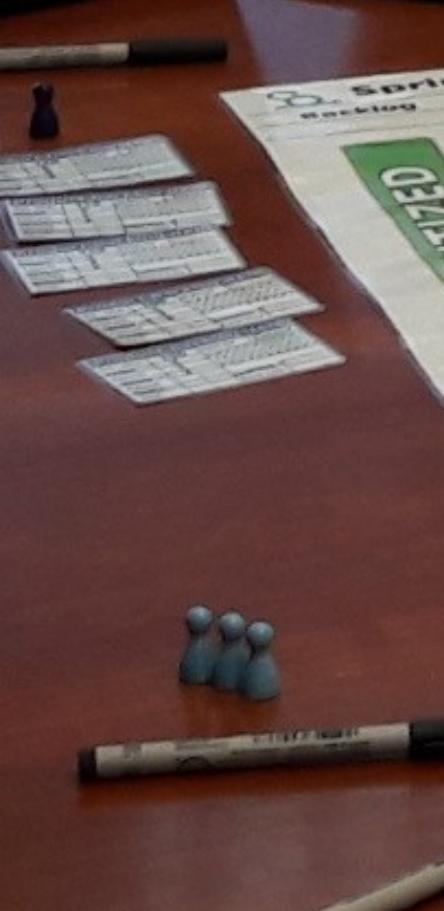


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Scrumban simulation

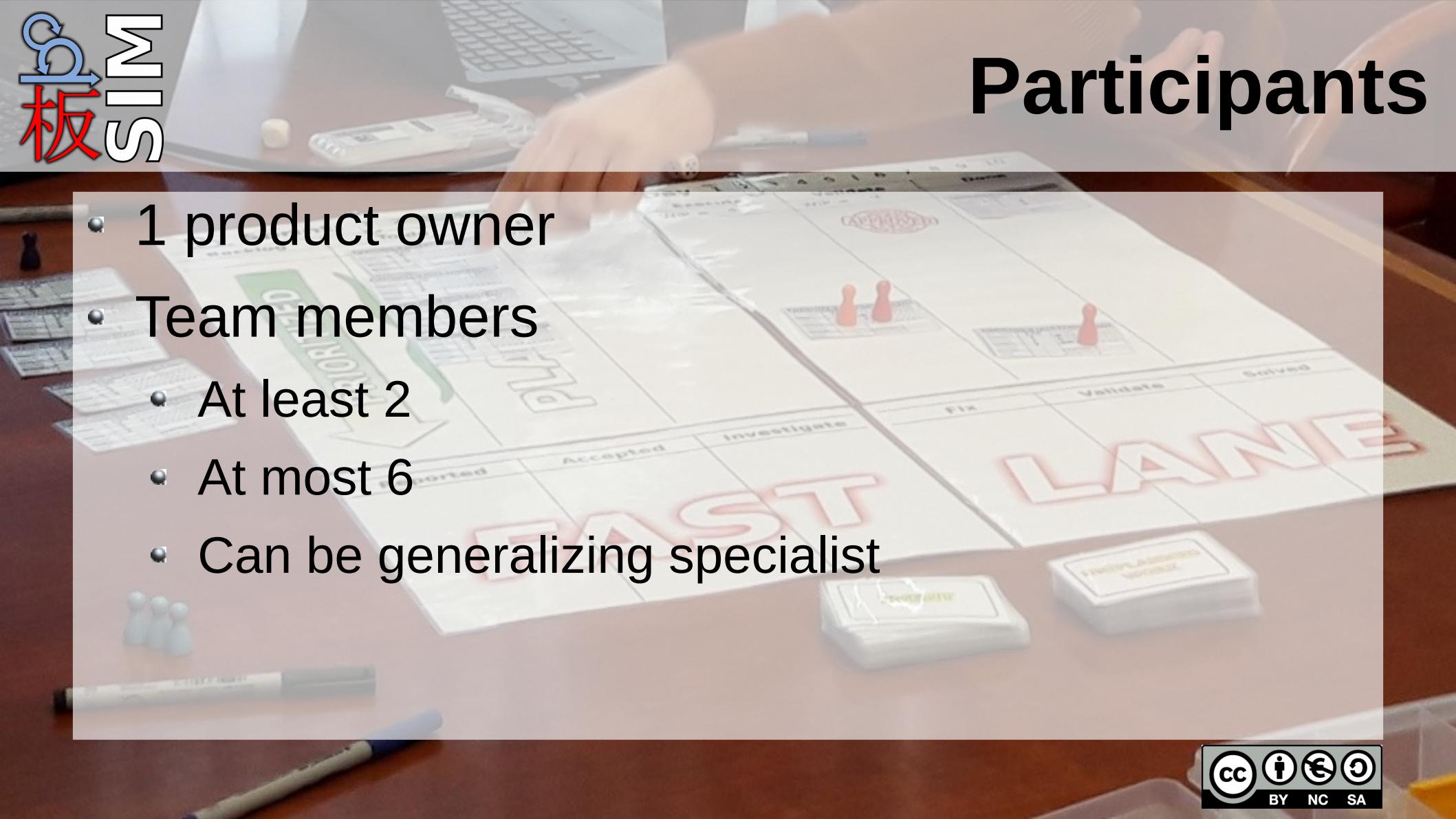


Objective



Participants

- 1 product owner
- Team members
 - At least 2
 - At most 6
 - Can be generalizing specialist



The board – planned work

Sprint: 1 2 3 4 5 →		Day Plan 1 2 3 4 5 6 7 8 9 10 Review/Retro									
Backlog	To do	Prepare	Execute	Validate	Done						
		WiP =	WiP =	WiP =							
ORITIZED	NNED			APPROVED	DONE						



The board – Unplanned work

Reported	Accepted	Investigate	Fix	Validate	Solved

FAST LANE



Cards

Product backlog item	
Bus. value	150
MoSCoW	Must
Prepare	3
Execute	4
Validate	2
Planned	
Started	
Done	
Lead time	
Cycle time	

Unplanned work	
Priority	High
Investigate	1
Execute	2
Validate	2
Reported	
Started	
Done	
Lead time	
Cycle time	

Event	
You are ill.	
You are absent for the rest of the week	



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Step by step explanation

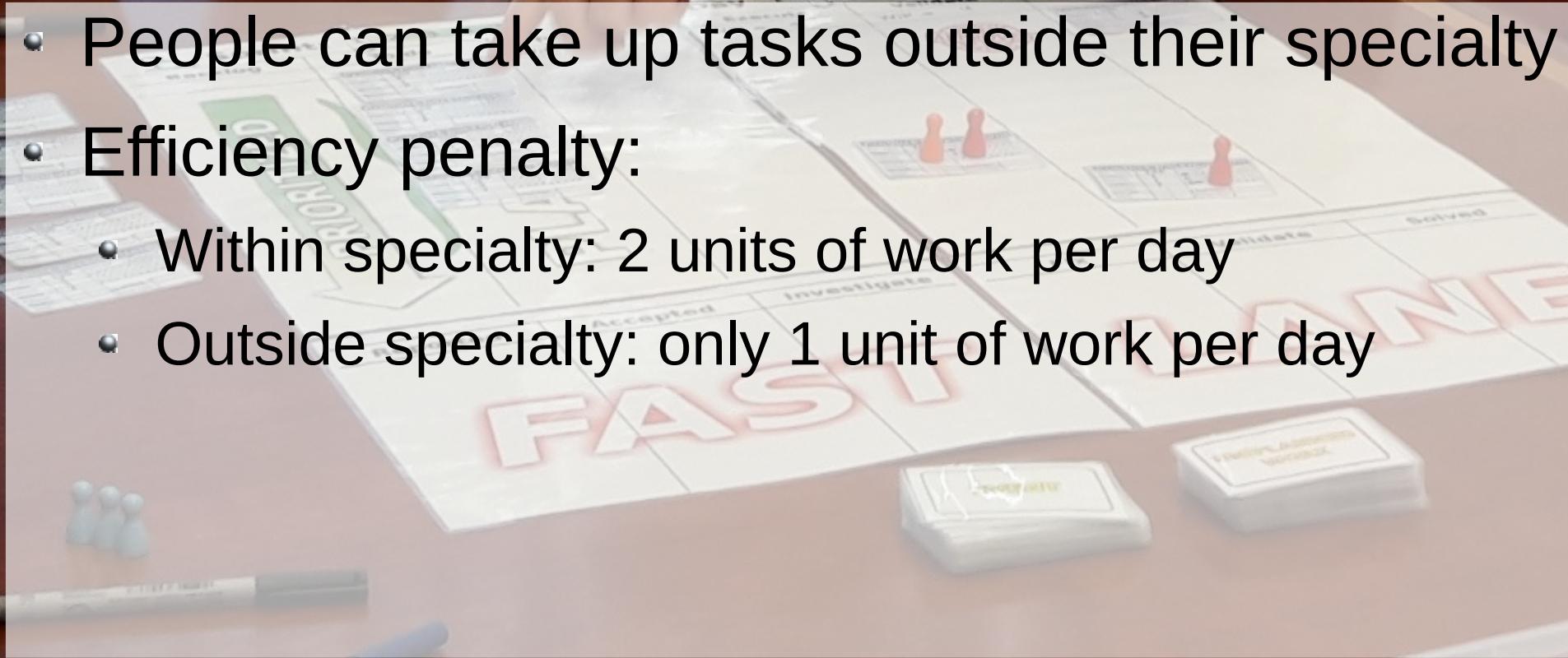


1. Preparation – Form a team

- Who will be the product owner?
- Who will do the execution work?
- Who will be more functional?
Combines prepare and validate tasks
- Or would you prefer 3 separate roles?
- Roles determine your team capacity

1. Preparation – Team & roles

- People can take up tasks outside their specialty
- Efficiency penalty:
 - Within specialty: 2 units of work per day
 - Outside specialty: only 1 unit of work per day



1. Preparation – WiP limits

- On activity level

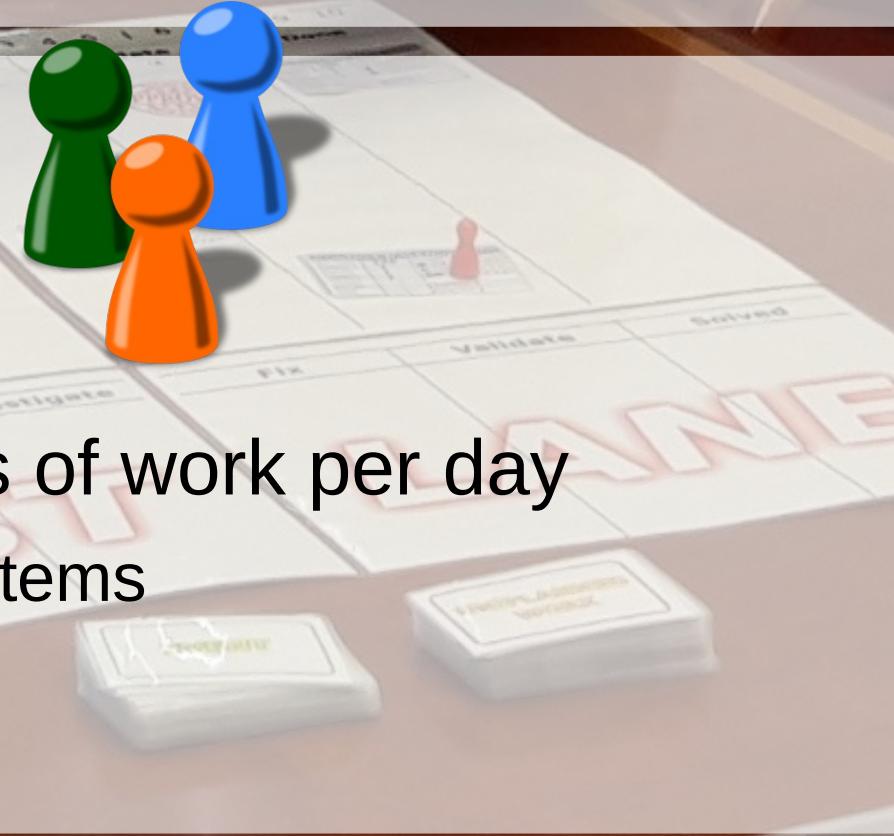
Prepare	Execute	Validate
WiP =	WiP =	WiP =

- On individual level
3 pawns per team member



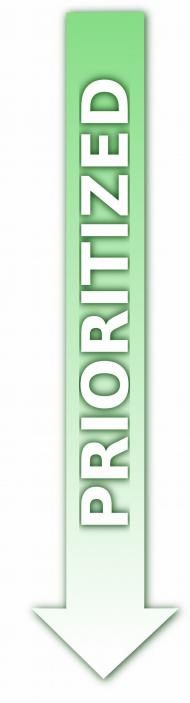
1. Preparation – WiP limits

- Why 3 pawns?
- A pawn is like an avatar
- Assign yourself to a task
- But you can only do 2 units of work per day
 - At most 2 different backlog items
- Extra pawn for e.g. events



2. Prioritization

- Product owner decides priorities
- Puts the backlog items in the Backlog column
 - First set of most important items
 - Ordered by priority



2. Prioritization – How?

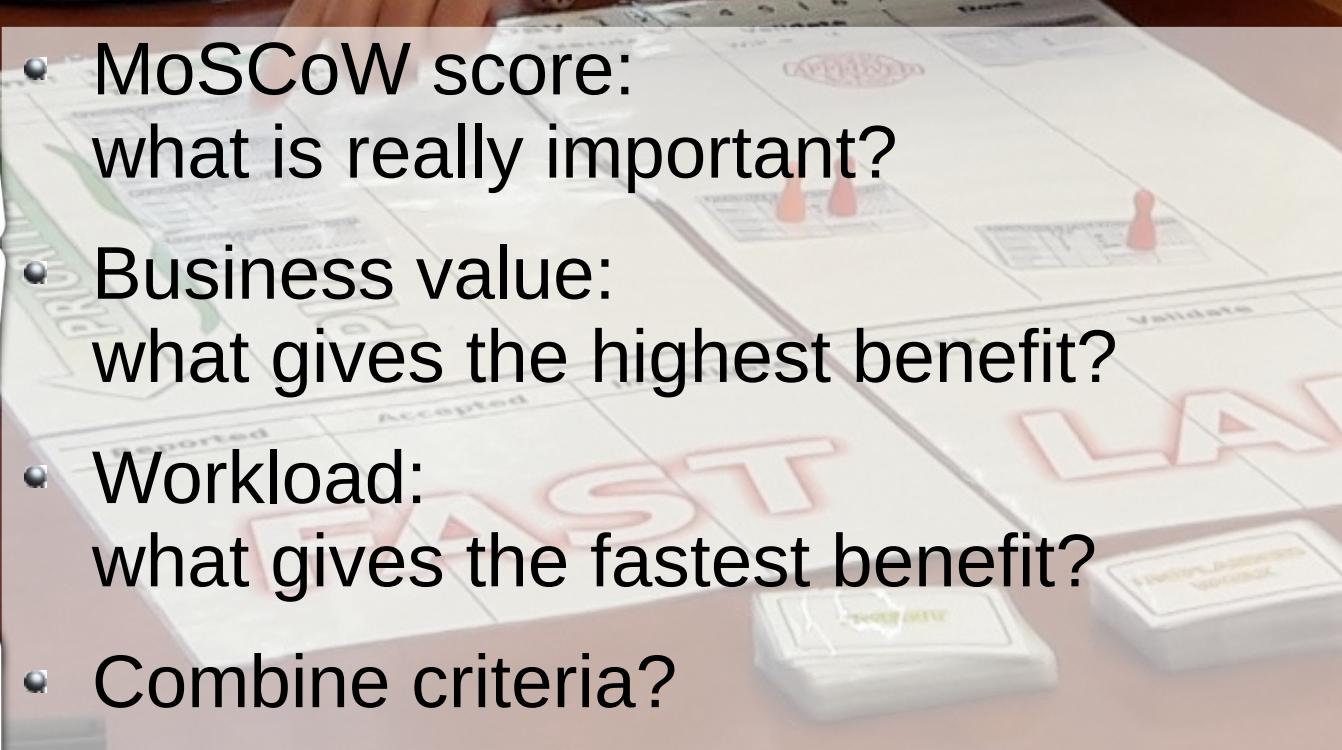
Product backlog item		MoSCoW	
Bus. value	150	Must	
Prepare	3		
Execute	4		
Validate	2		
Planned			
Started			
Lead time			
Cycle time			

Product backlog item		MoSCoW	
Bus. value	100	Should	
Prepare	1		
Execute	3		
Validate	2		
Planned			
Started			
Lead time			
Cycle time			

Product backlog item		MoSCoW	
Bus. value	60	Could	
Prepare	2		
Execute	4		
Validate	1		
Planned			
Started			
Lead time			
Cycle time			

Product backlog item		MoSCoW	
Bus. value	20	won't	
Prepare	1		
Execute	3		
Validate	1		
Planned			
Started			
Lead time			
Cycle time			

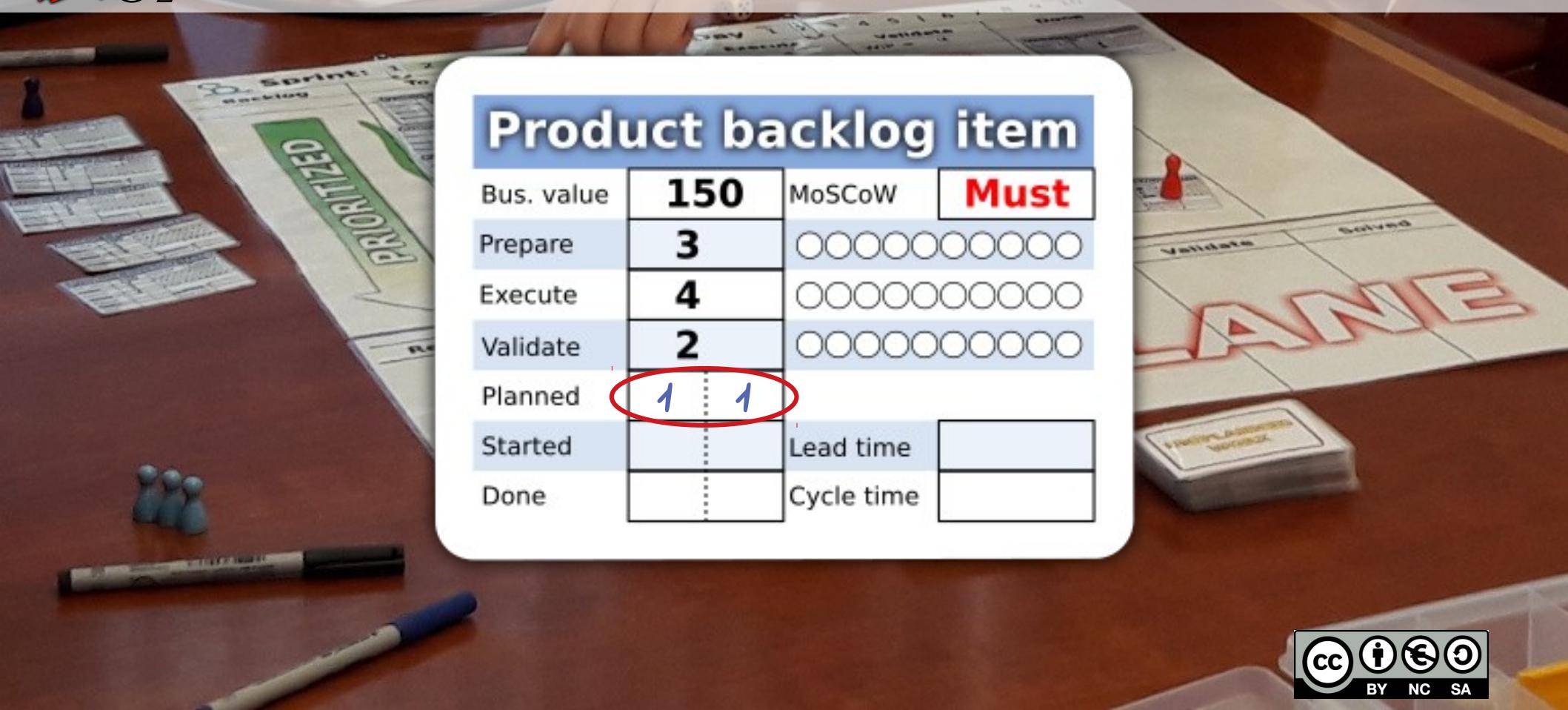
- MoSCoW score:
what is really important?
- Business value:
what gives the highest benefit?
- Workload:
what gives the fastest benefit?
- Combine criteria?



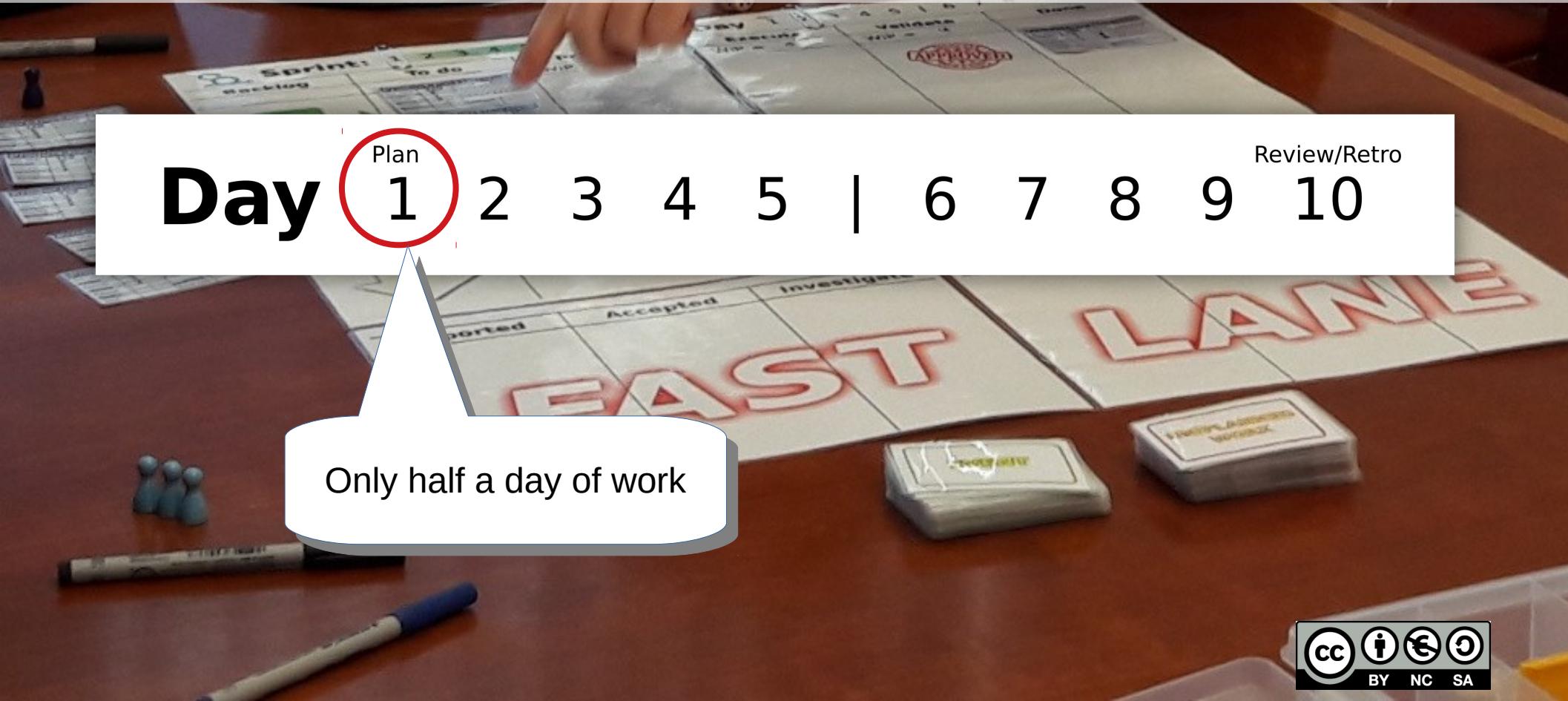
3. Planning

- Team determines capacity for next iteration
- Forecasts which backlog items they can implement according to capacity
- Move selected backlog items to To do column
- Now let the work begin...

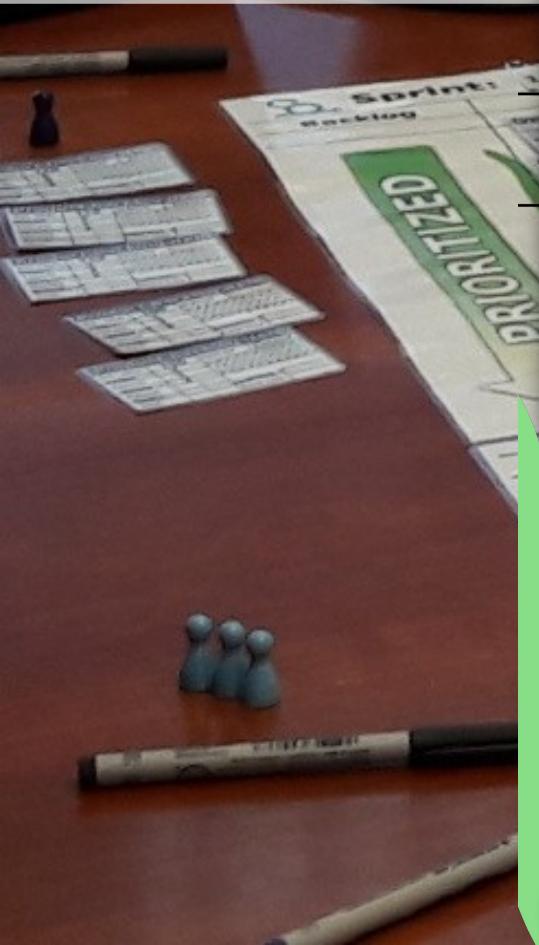
3. Planning – Advanced teams



4. Start working – first day



4. Start working

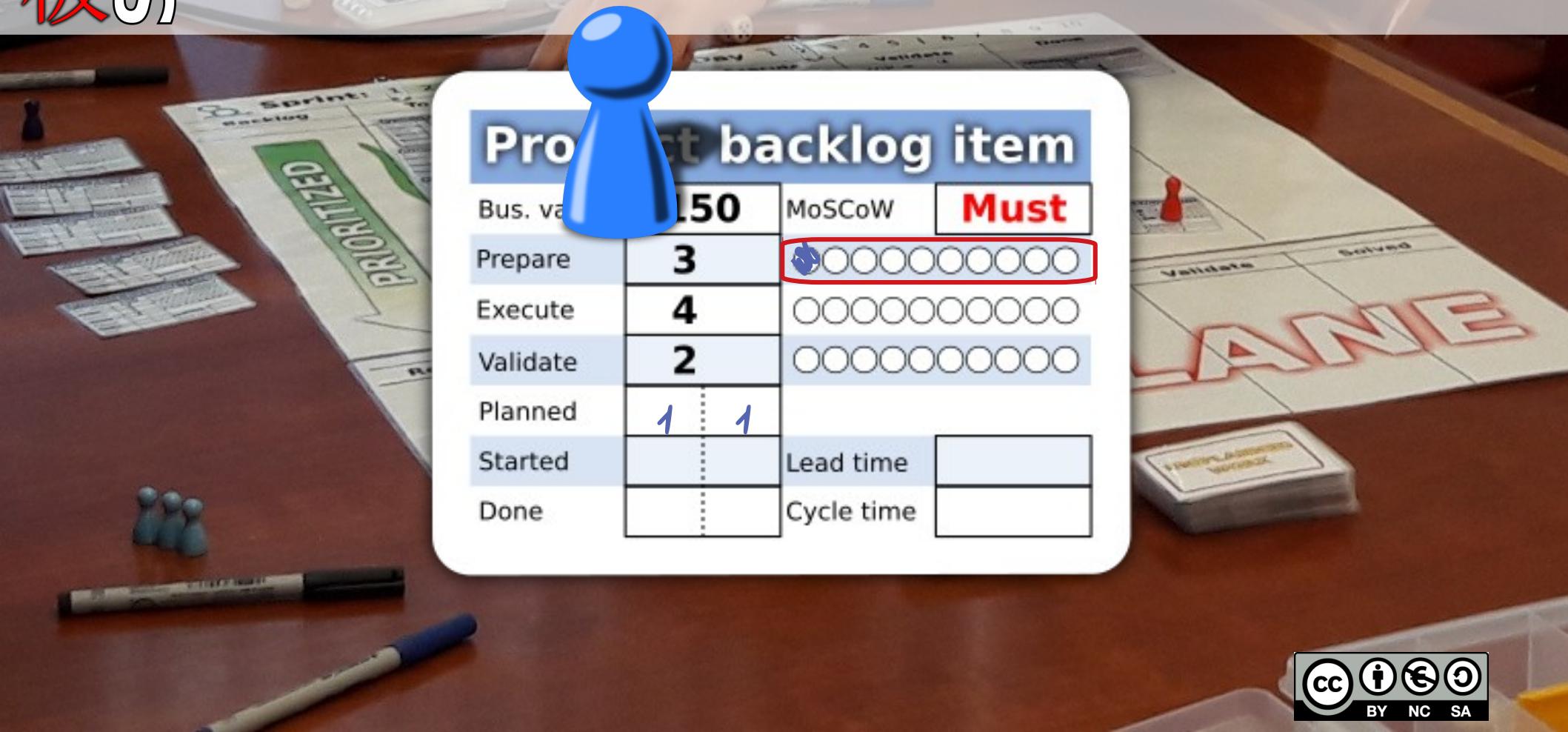


To do	Prepare
	WiP =

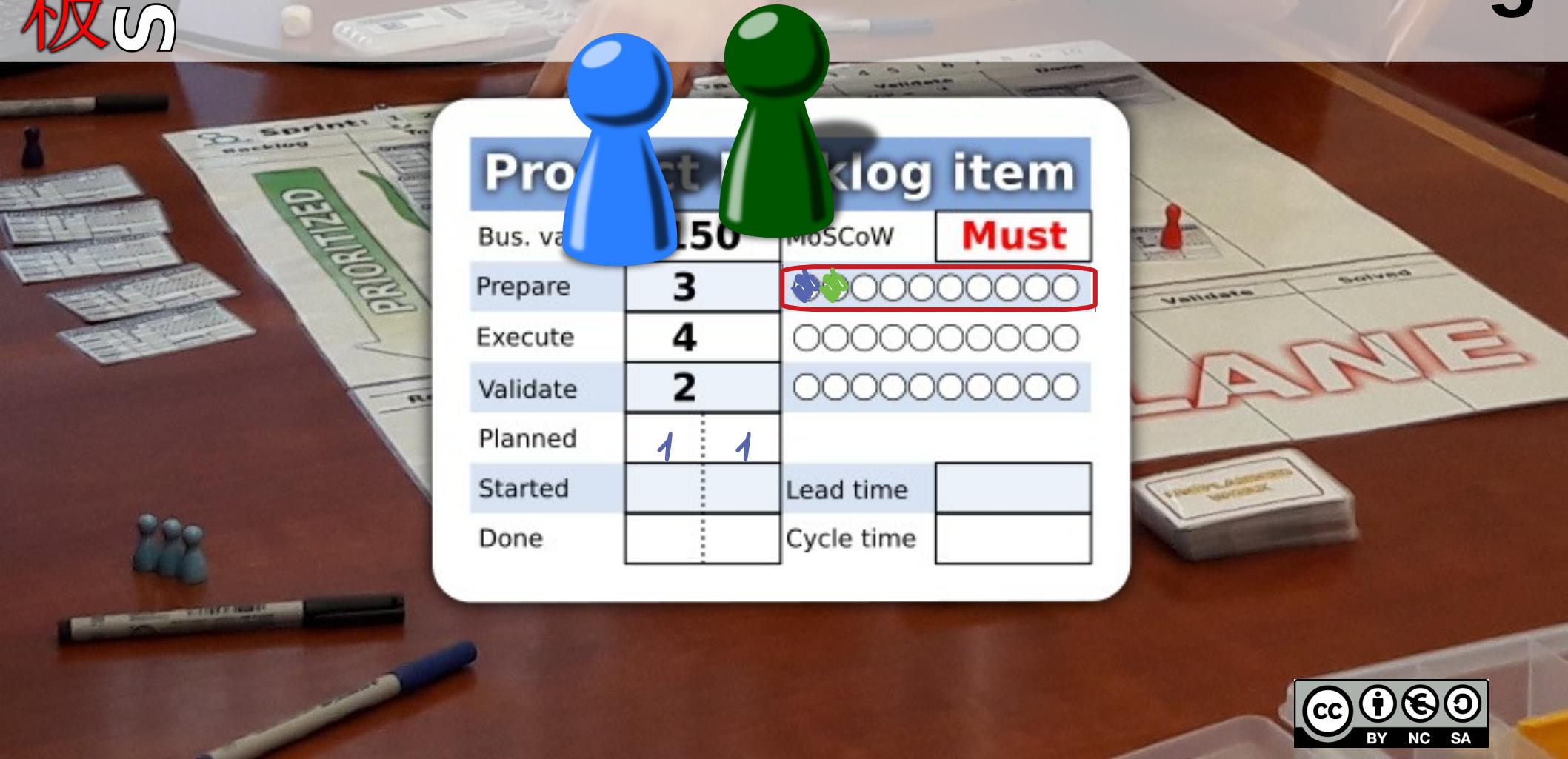
A close-up view of the Scrum Board SIM cards. The 'To do' column contains four cards, each labeled 'Product backlog item'. The first card has a 'Bus. value' of 150 and a 'MoSCoW' priority of 'Must'. The second card has a 'Bus. value' of 150 and a 'MoSCoW' priority of 'Should'. The third card has a 'Bus. value' of 100 and a 'MoSCoW' priority of 'Should'. The fourth card has a 'Bus. value' of 100 and a 'MoSCoW' priority of 'Could'. Each card has columns for 'Prepare', 'Execute', 'Validate', 'Planned', 'Started', and 'Done'. A large green arrow points from the 'To do' column to the 'Prepare' column on the board.



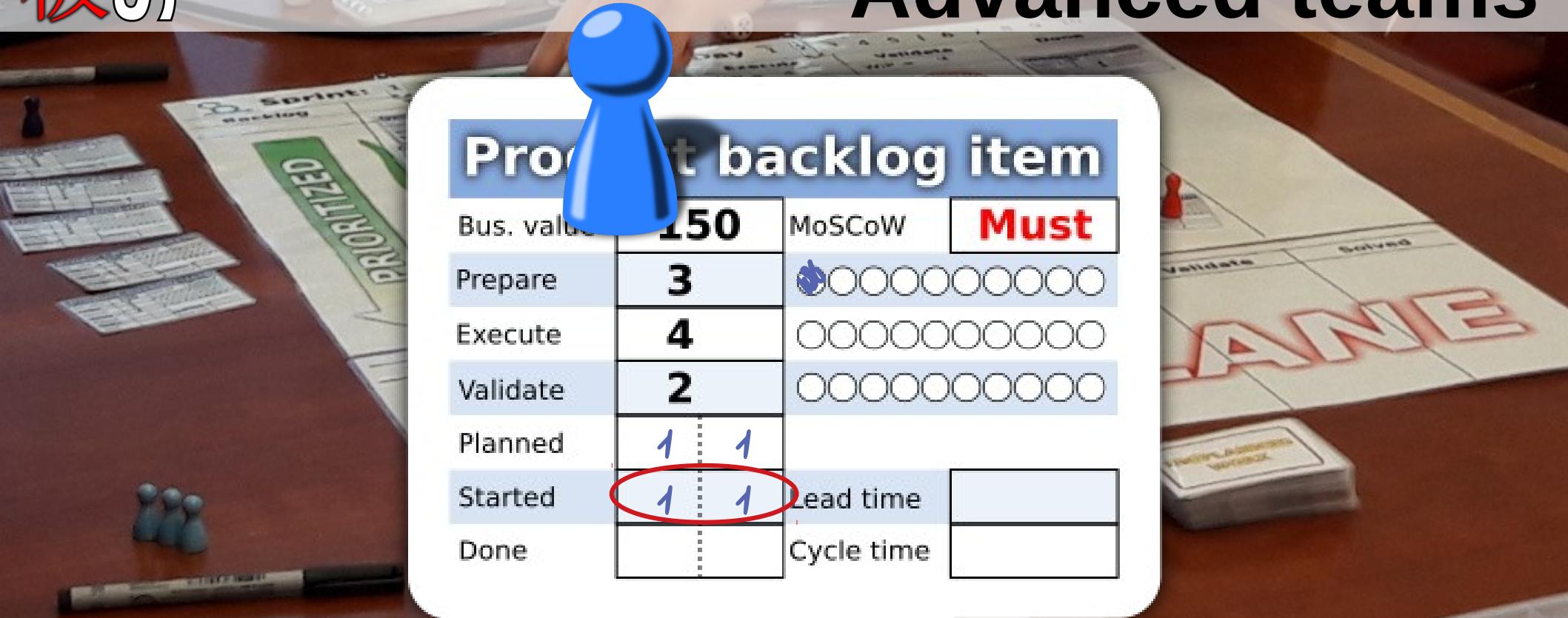
4. Start working



4. Start working



4. Start working Advanced teams

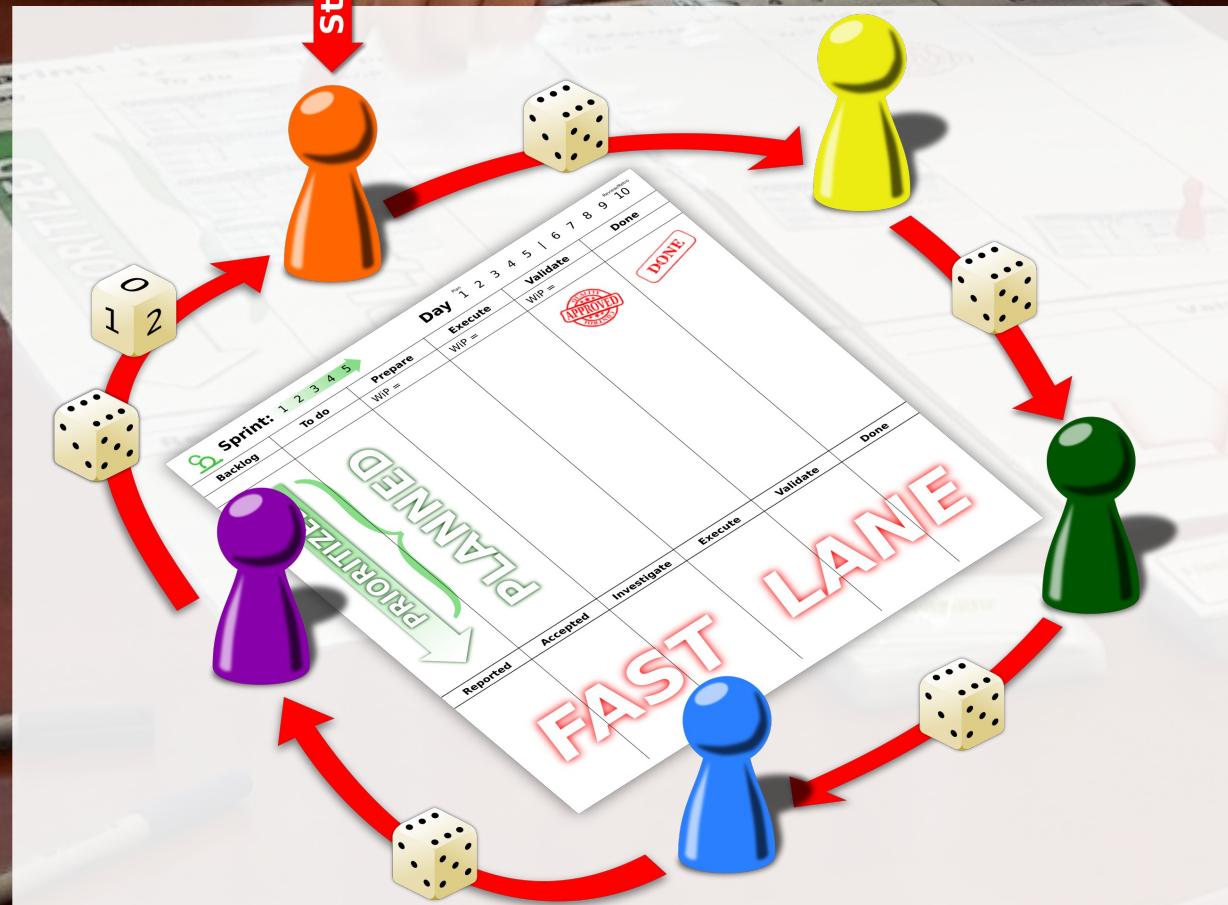




4. When an activity is done...

- You can remove your pawn
- Don't push items to the next stage
 - Pull the work
- Don't validate yourself what you implemented
 - Four eyes principle

5. Play in rounds





5. After each participant's round

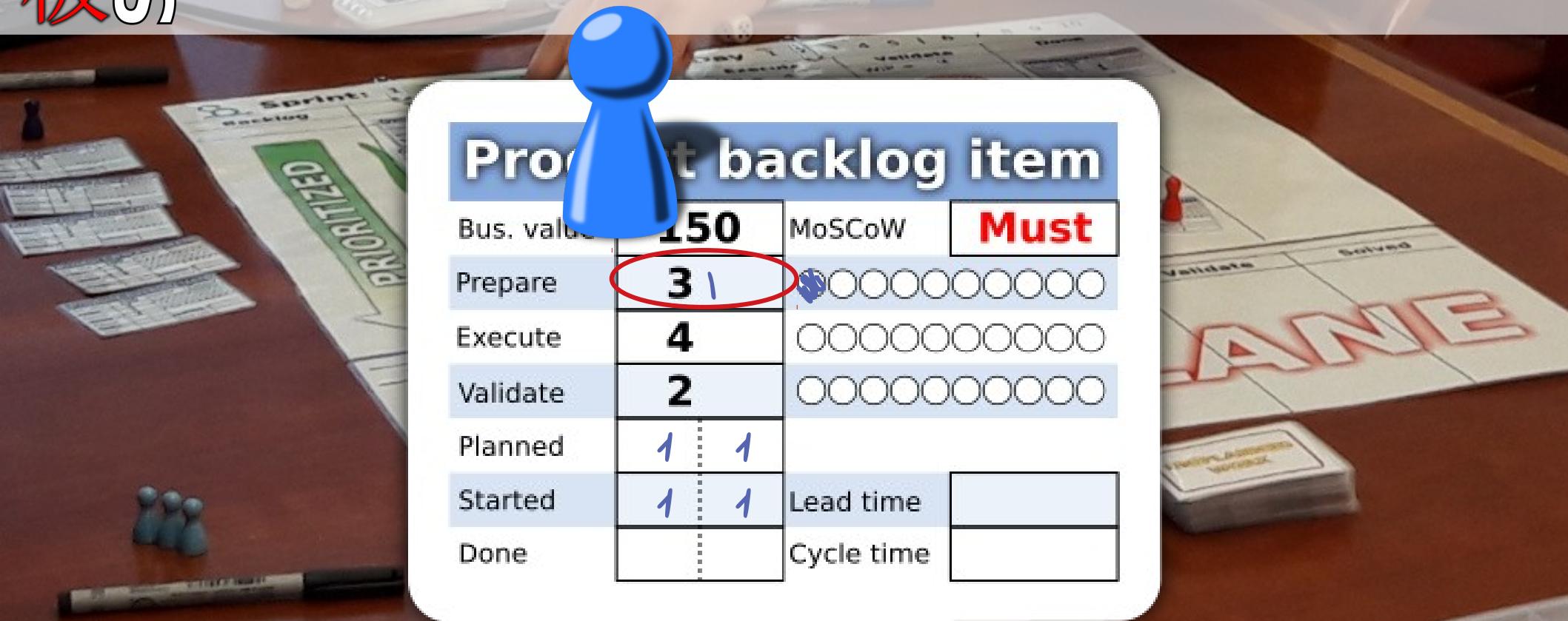
- Evolving insight - use the normal dice
 - 1: increase workload with 1 unit
 - 2: no action
 - 3: no action
 - 4: take an event card
 - 5: block item you last worked on
 - 6: unblock any blocked item



5. Why evolving insight?

- Something can take longer than expected
- You may need to wait for someone/something (a decision?)
- Or the opposite – something got clarified
- Something unforeseen can just happen (events)

5. Increase workload



5. Blocked item



6. End of day

- Use the Unplanned work dice
 - 0: lucky you – no unplanned work
 - 1: take 1 unplanned work card
 - 2: take 2 unplanned work cards
- Product owner decides what to do
 - Act immediately, plan or park



6. Accepting unplanned work

The image shows a ScrumBoard SIM game board. On the left, there's a row of cards labeled "PRIORITYIZED". In the center, a large white box contains two columns: "Reported" and "Accepted". Each column has three cards. A green arrow points from the "Reported" column to the "Accepted" column. The cards are labeled "Unplanned work" and have columns for Priority, Investigate, Execute, Validate, Reported, Started, and Done. The "Accepted" column also includes Lead time and Cycle time. The word "FAS" is overlaid in large red letters across the middle of the board.

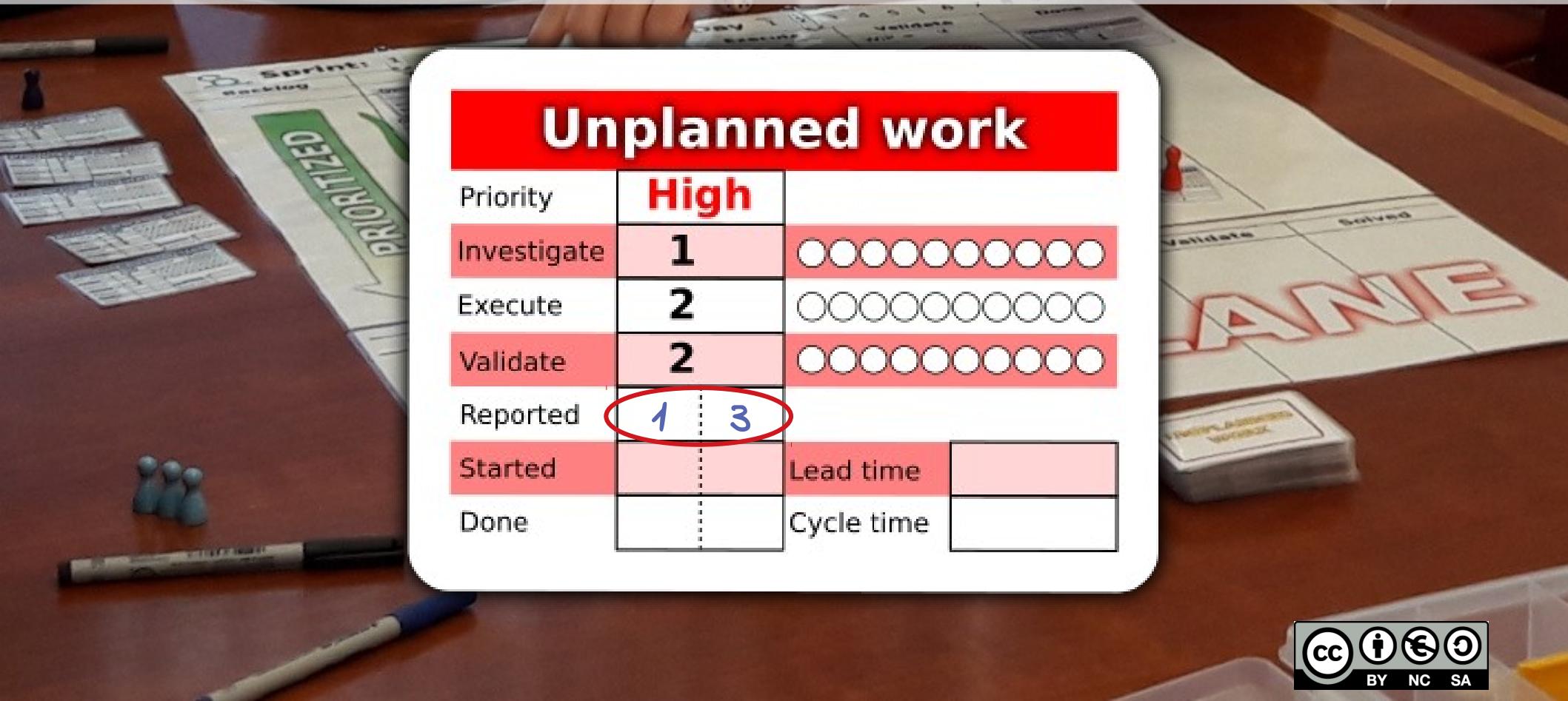
Reported		Accepted	
Unplanned work	Unplanned work	Unplanned work	
Priority	High	Priority	High
Investigate	1	Validate	2
Execute	2	Reported	
Validate	2	Started	
Reported		Lead time	
Started		Cycle time	
Done			

FAS

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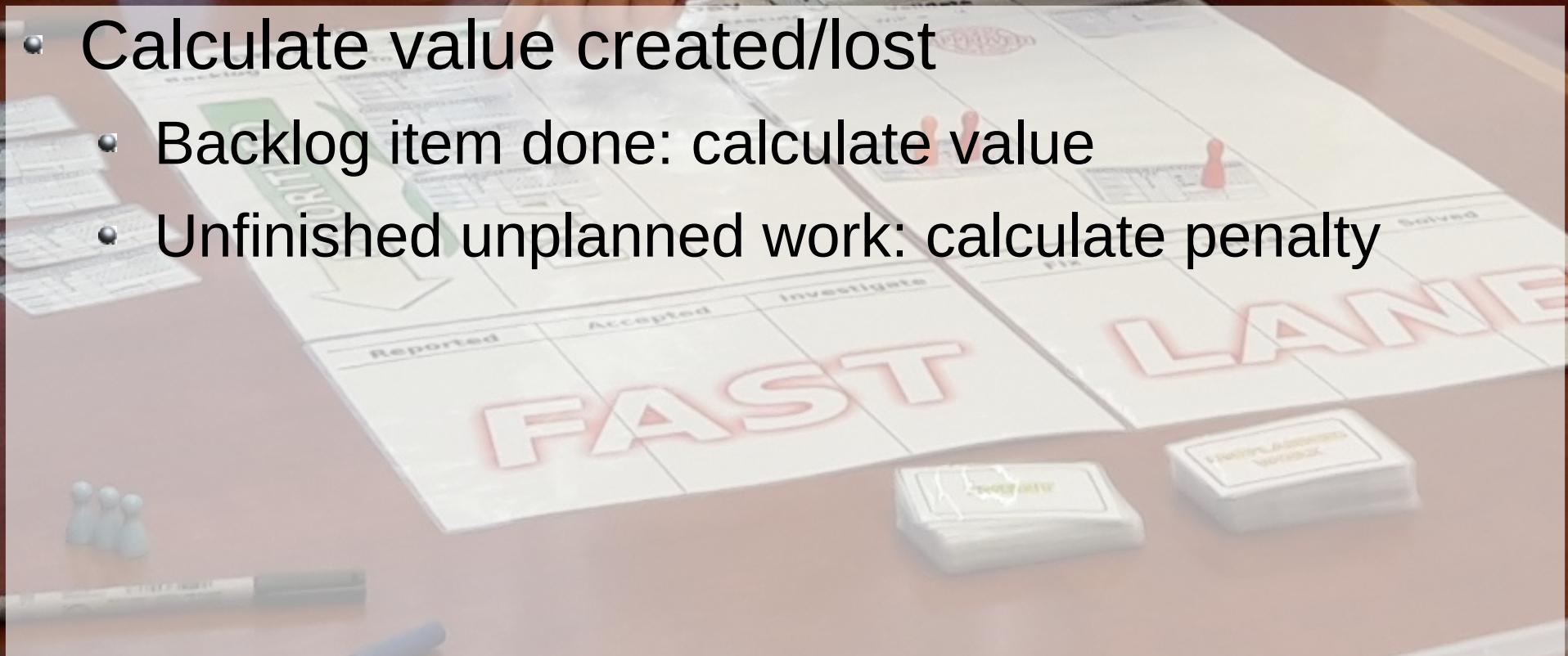
6. Unplanned work

Advanced teams



6. End of day

- Calculate value created/lost
 - Backlog item done: calculate value
 - Unfinished unplanned work: calculate penalty



6. Create value

Product backlog item

Bus. value	150	MoSCoW	Must
Prepare	3	○○○○○○○○○○	
Execute	4	○○○○○○○○○○	
Validate	2	○○○○○○○○○○	
Planned			
Started		Lead time	
Done		Cycle time	

Business value x multiplier:
Must have: business value x 2
Should have: business value x 1
Could have: business value x 0,5
Won't have: business value = 0

6. Loose value

Penalty per day for not finishing unplanned work:
-1 for low priority
-5 for medium priority
-10 for high priority

Unplanned work

	High	
Investigate	1	○○○○○○○○○○
Execute	2	○○○○○○○○○○
Validate	2	○○○○○○○○○○
Reported		
Started		Lead time
Done		Cycle time



Value creation

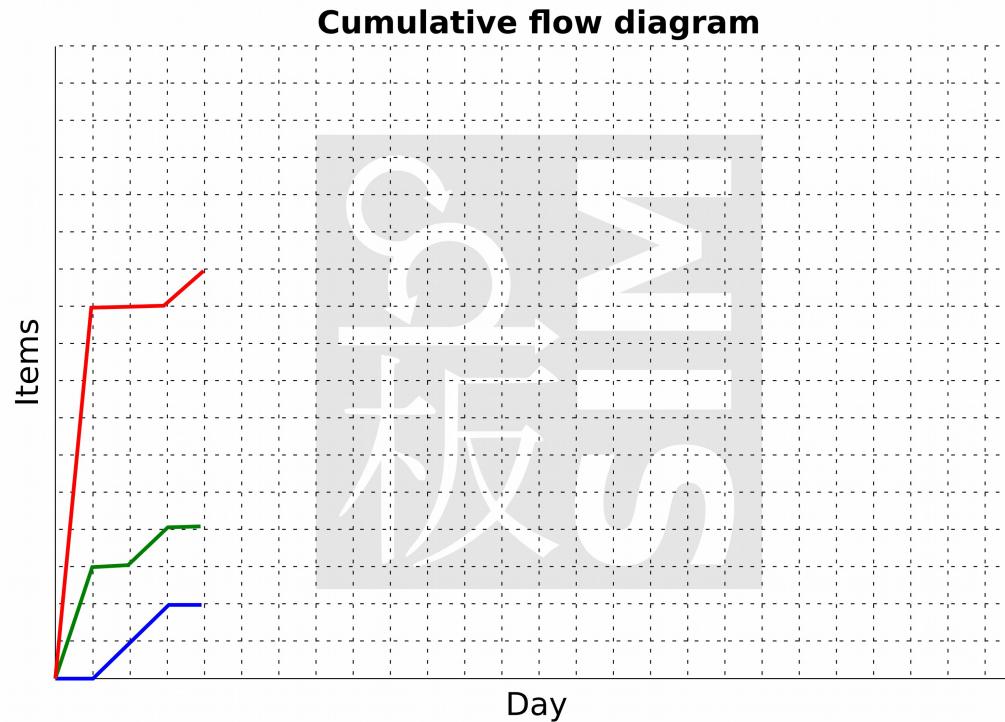
Team name:

	Iteration 1	Iteration 2	Iteration 3	Iteration 4	Iteration 5
Day 1					
Day 2					
Day 3					
Day 4					
Day 5					
Day 6					

6. End of day

Advanced teams

- Update cumulative flow diagram





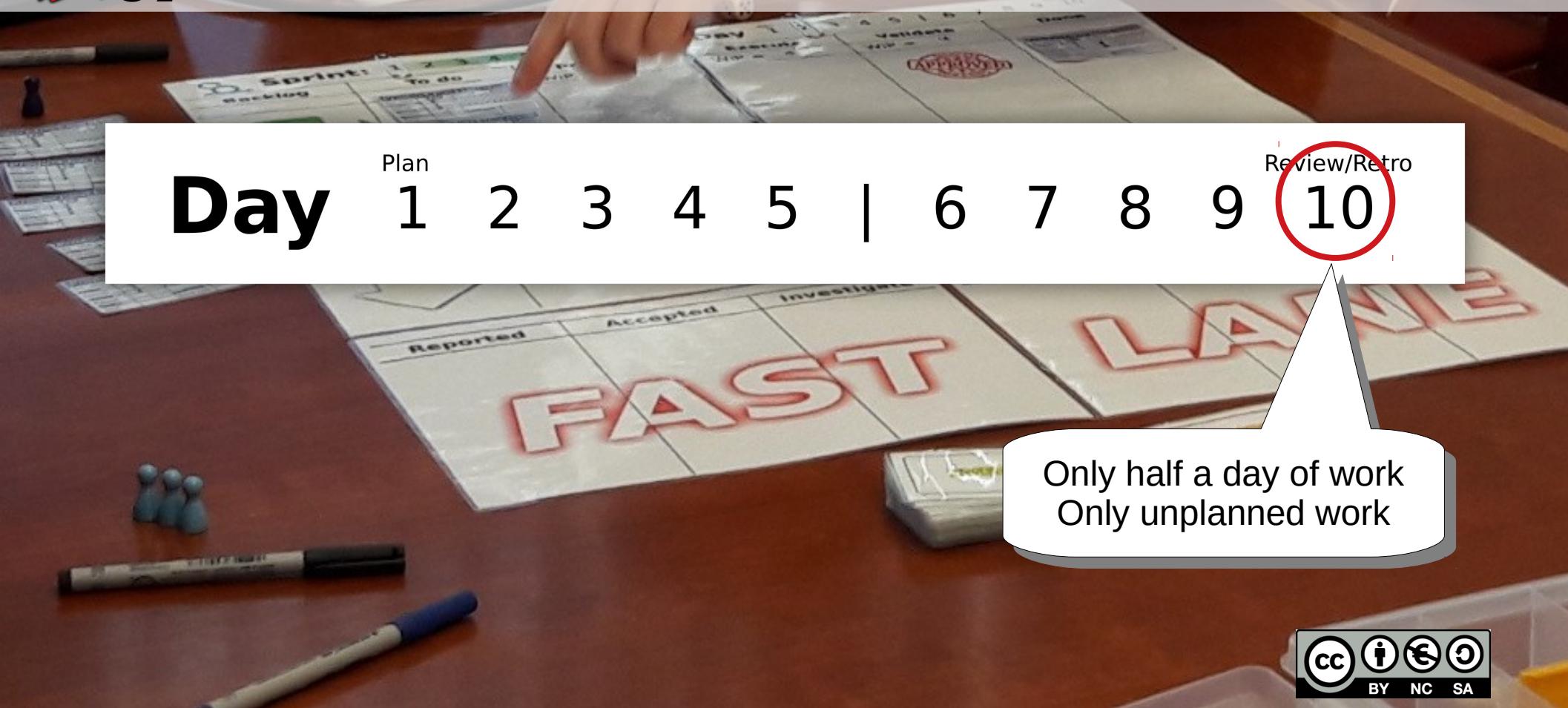
7. Item done – advanced teams

Product backlog item

Bus. value	150	MoSCoW	Must
Prepare	3	3 blue icons	3 white icons
Execute	4	4 green icons	2 white icons
Validate	2	2 red icons	8 white icons
Planned	1		
Started	1		Lead time
Done	1	6	Cycle time

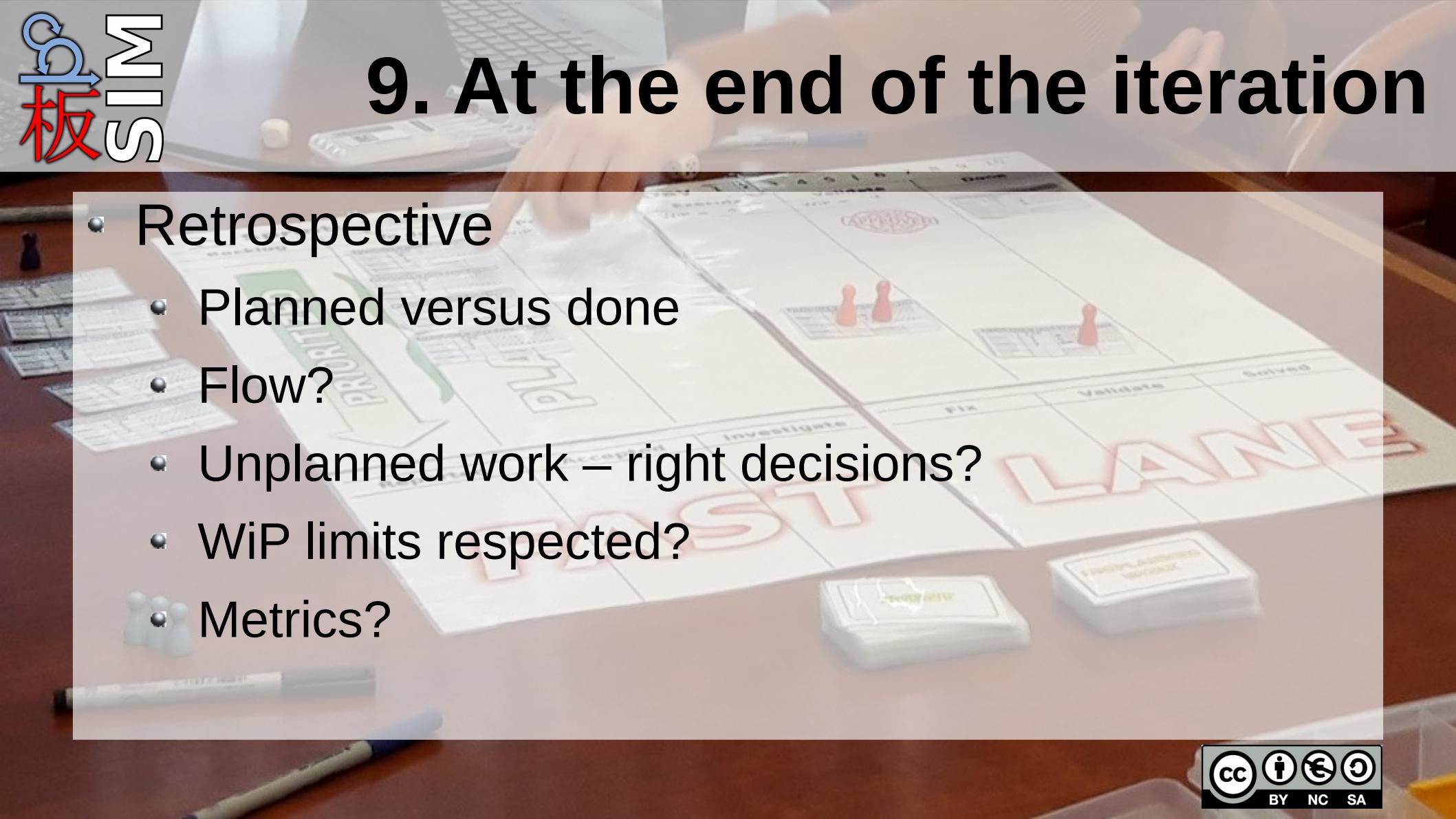
The board background shows a 'Sprint 1 Backlog' with a 'PRIORITYIZED' arrow, several cards, pens, and a red marker.

8. Last day of the iteration



9. At the end of the iteration

- Retrospective
 - Planned versus done
 - Flow?
 - Unplanned work – right decisions?
 - WiP limits respected?
 - Metrics?





Enjoy the simulation!



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Debrief – What did you learn?