Blockers - Treasures of Improvement

Lean Kanban North Amerika - LKNA15, June 9, 2015, Miami Beach, FL

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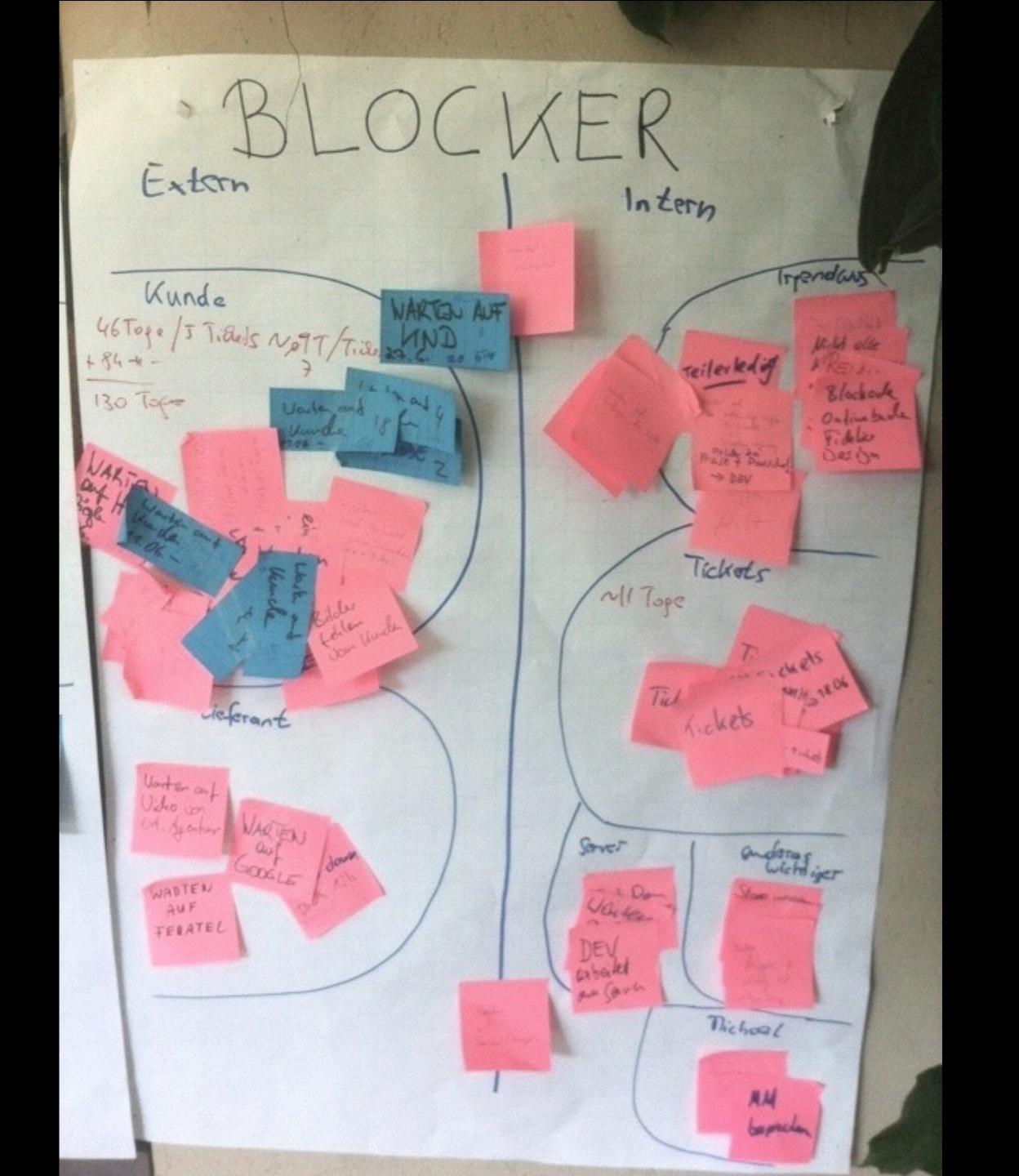
what could we do?

-> increase WIP limit in DEV

-> solve problems

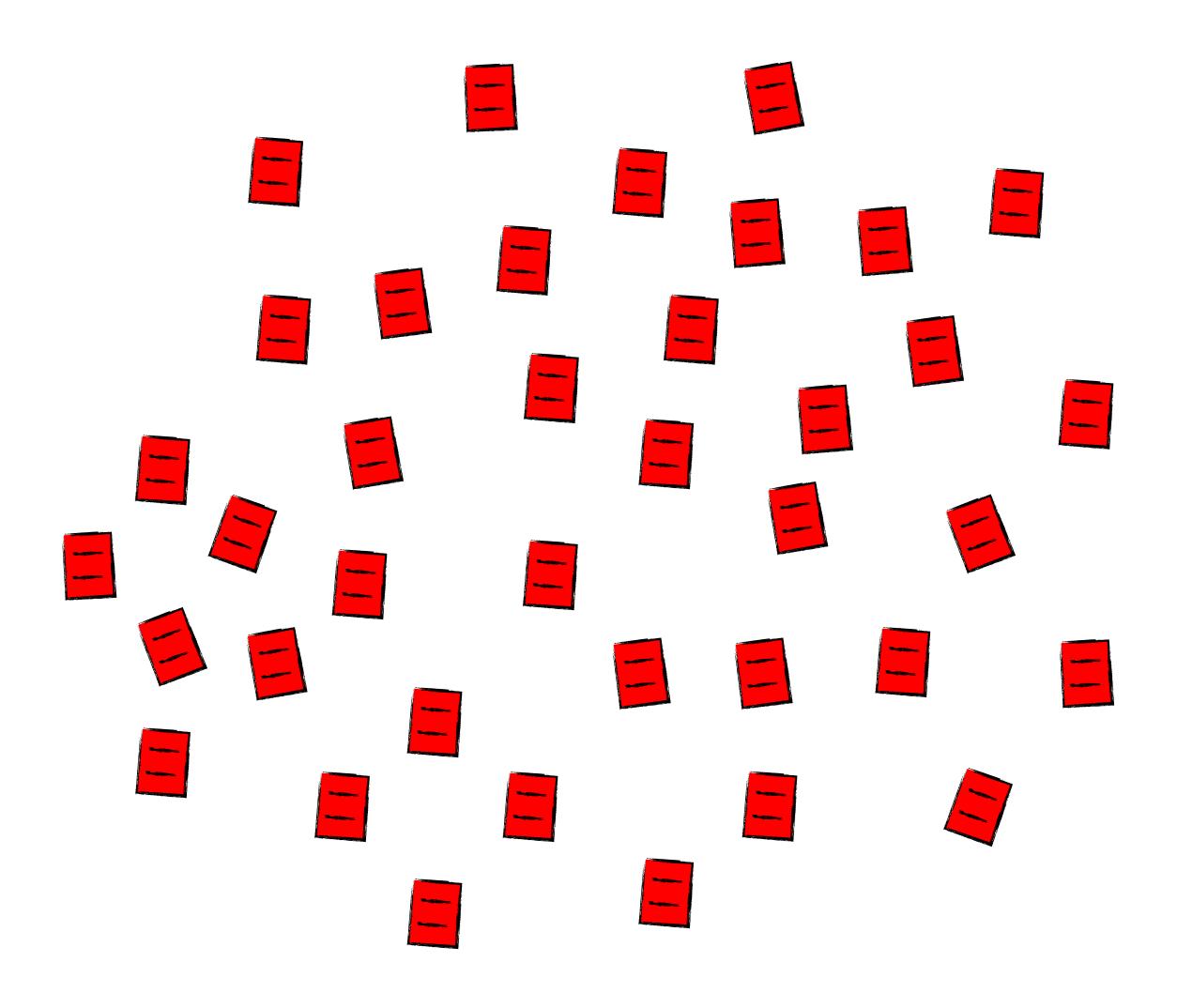
(4) DEV READY	(3) ANALYZE		(2) DEVELOP		(2) TEST		(00) READY 2 DEPLOY
	IN PROG.	DONE	IN PROG.	DONE	VERIF.	UAT	
		国		33		国	





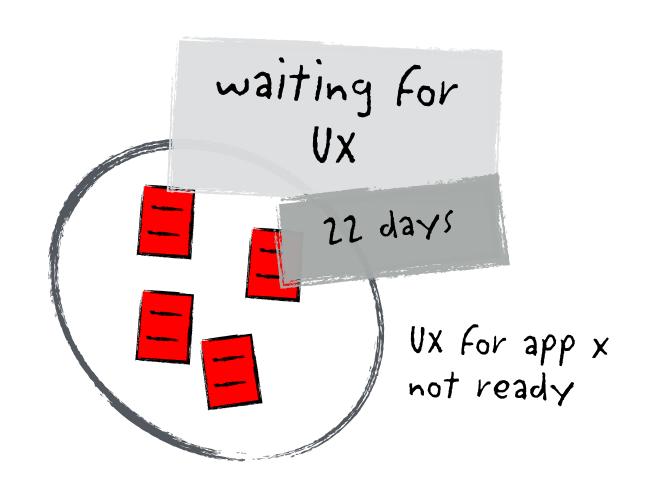
SOUND REASON Text and photos for reservation DAYS BLOCKED

collect blockers



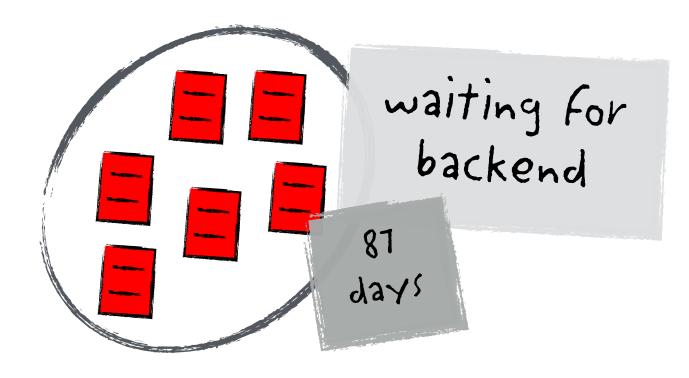
no pictures customer A missing pictures customer D waiting for texts customer B

cluster blockers

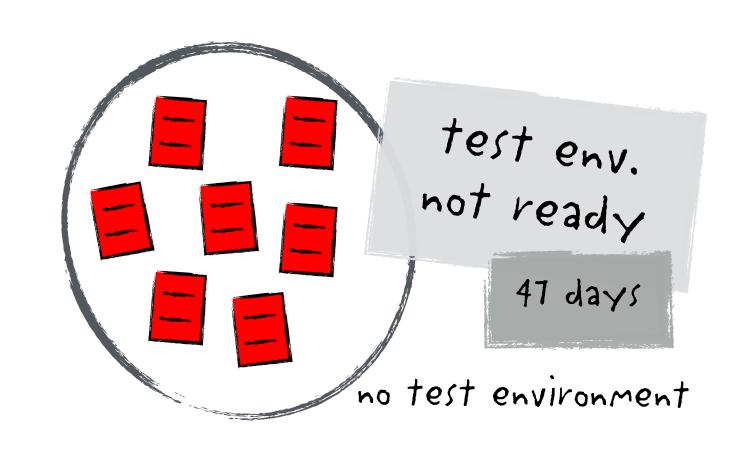


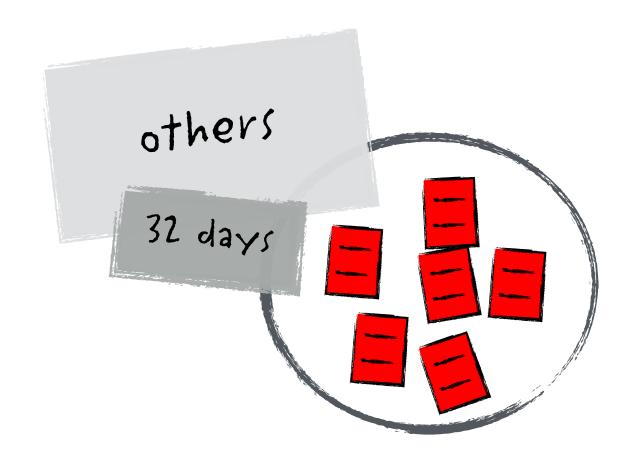


waiting for backend



backend not ready





understand problem

?- WHY is content missing? !- The customers don't send it.

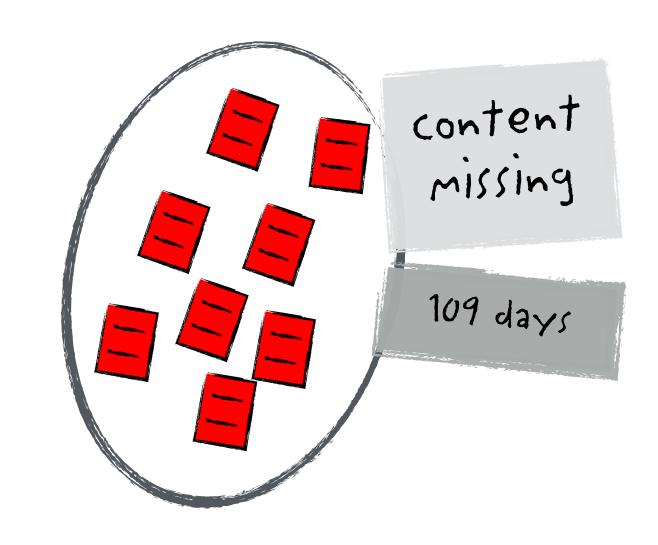
? - WHY don't they send it?

!- Often they don't know what we need.

?- WHY don't they know what we need?

!- We don't tell them always.

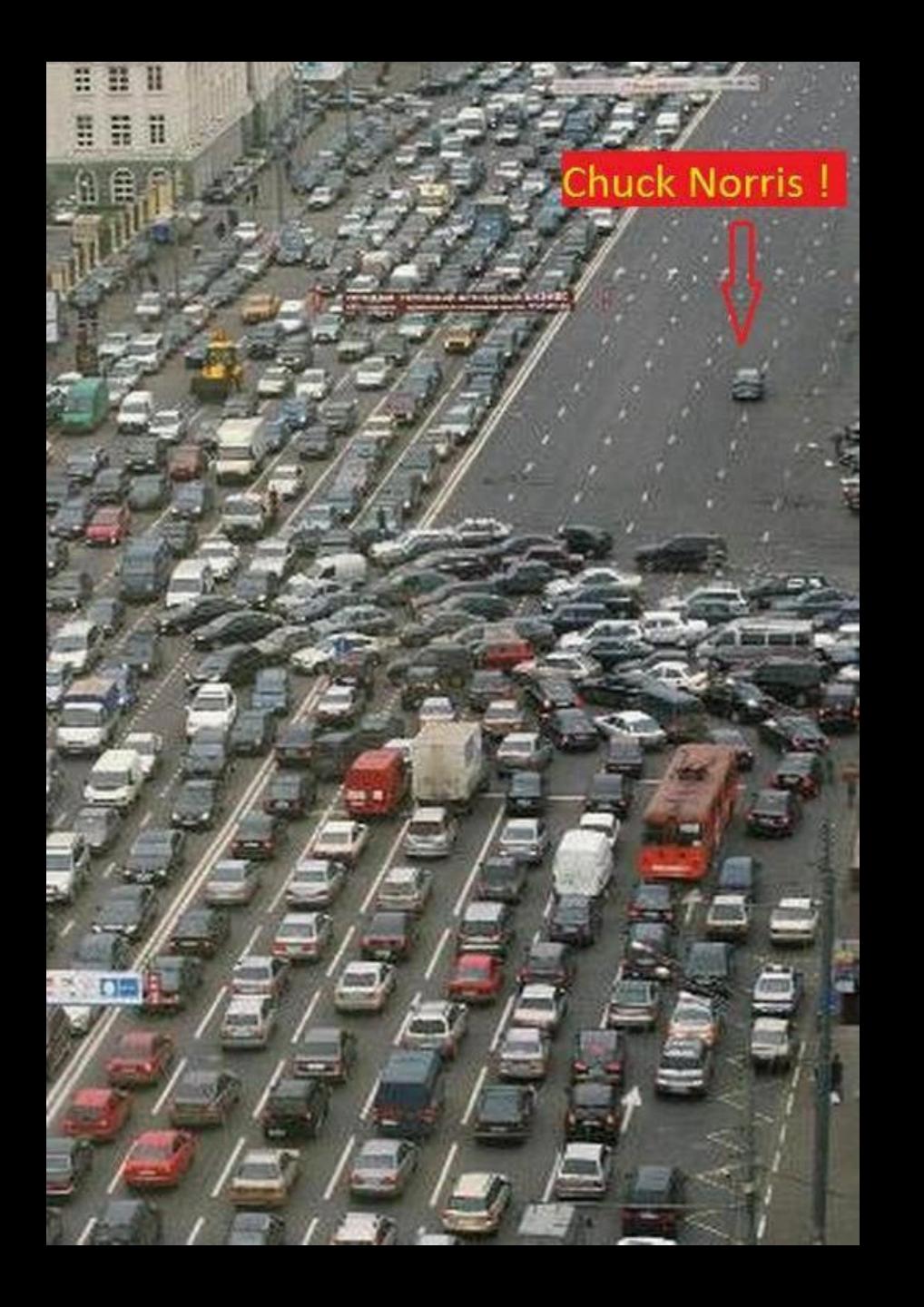
-> Maybe it'd be smart to tell them ALWAYS ...

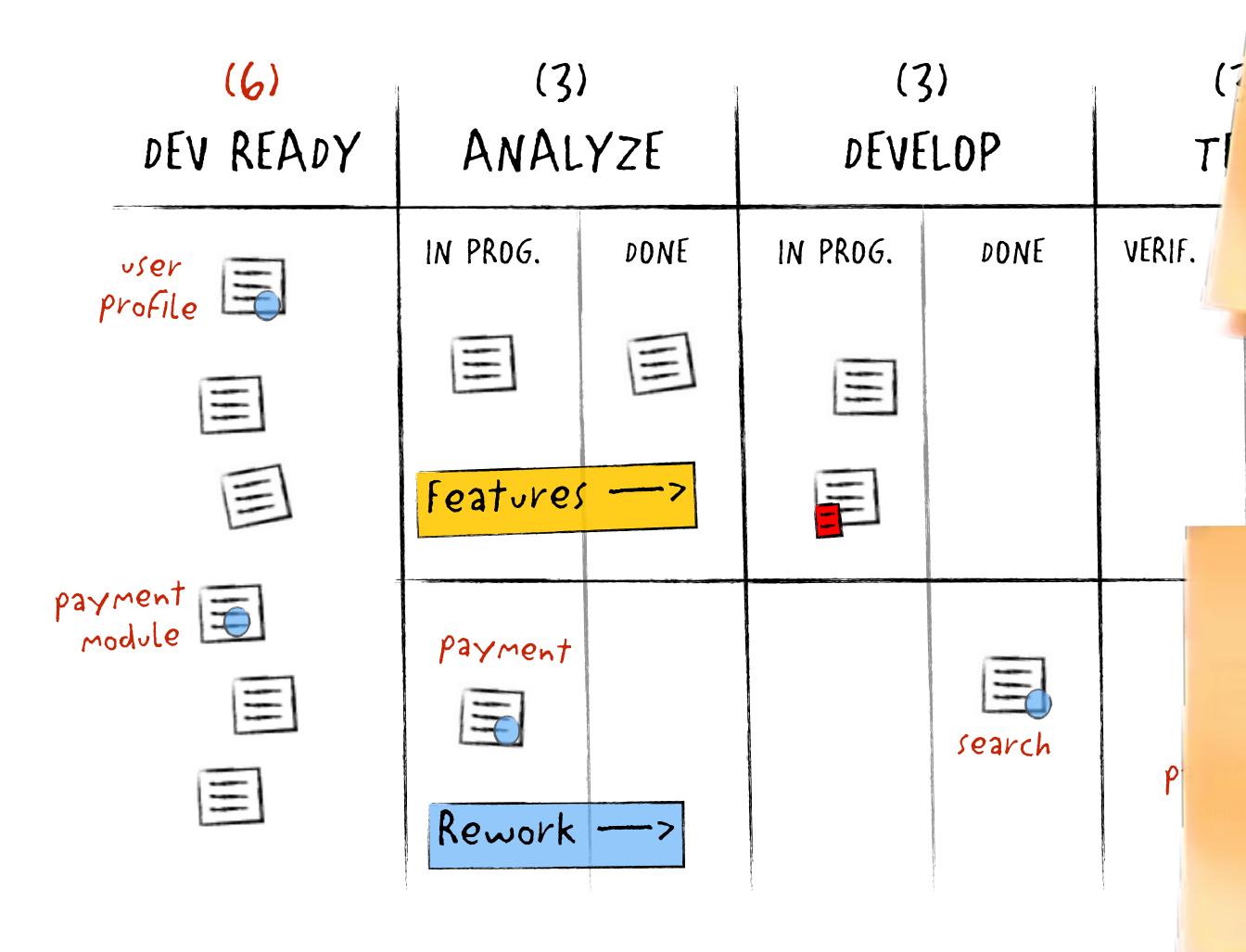


Find Solution

Add an item to the Definition of Done checklist in the ANALYSIS activity:

-> INFORM CUSTOMER ABOUT CONTENT DELIVERIES



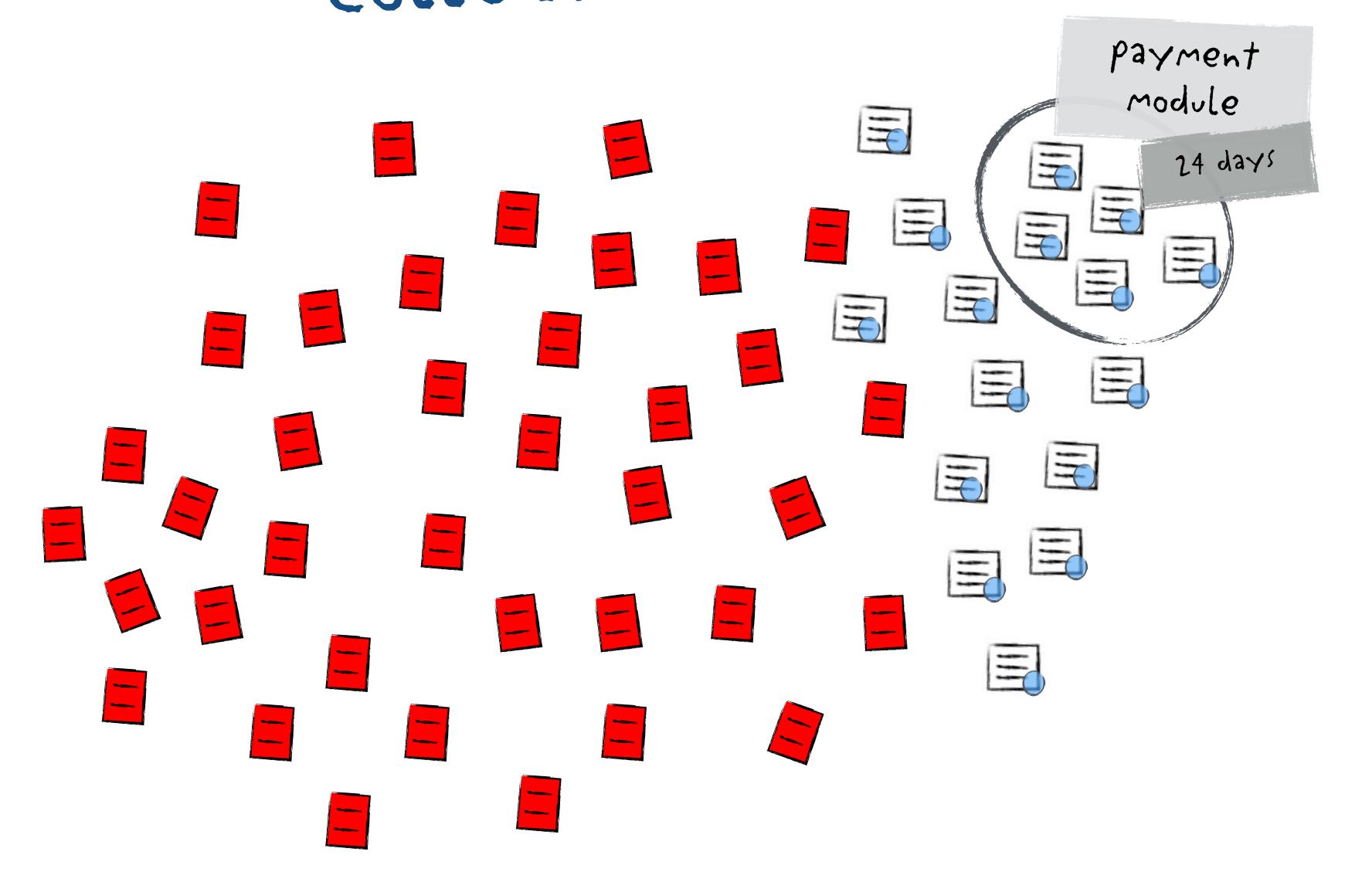


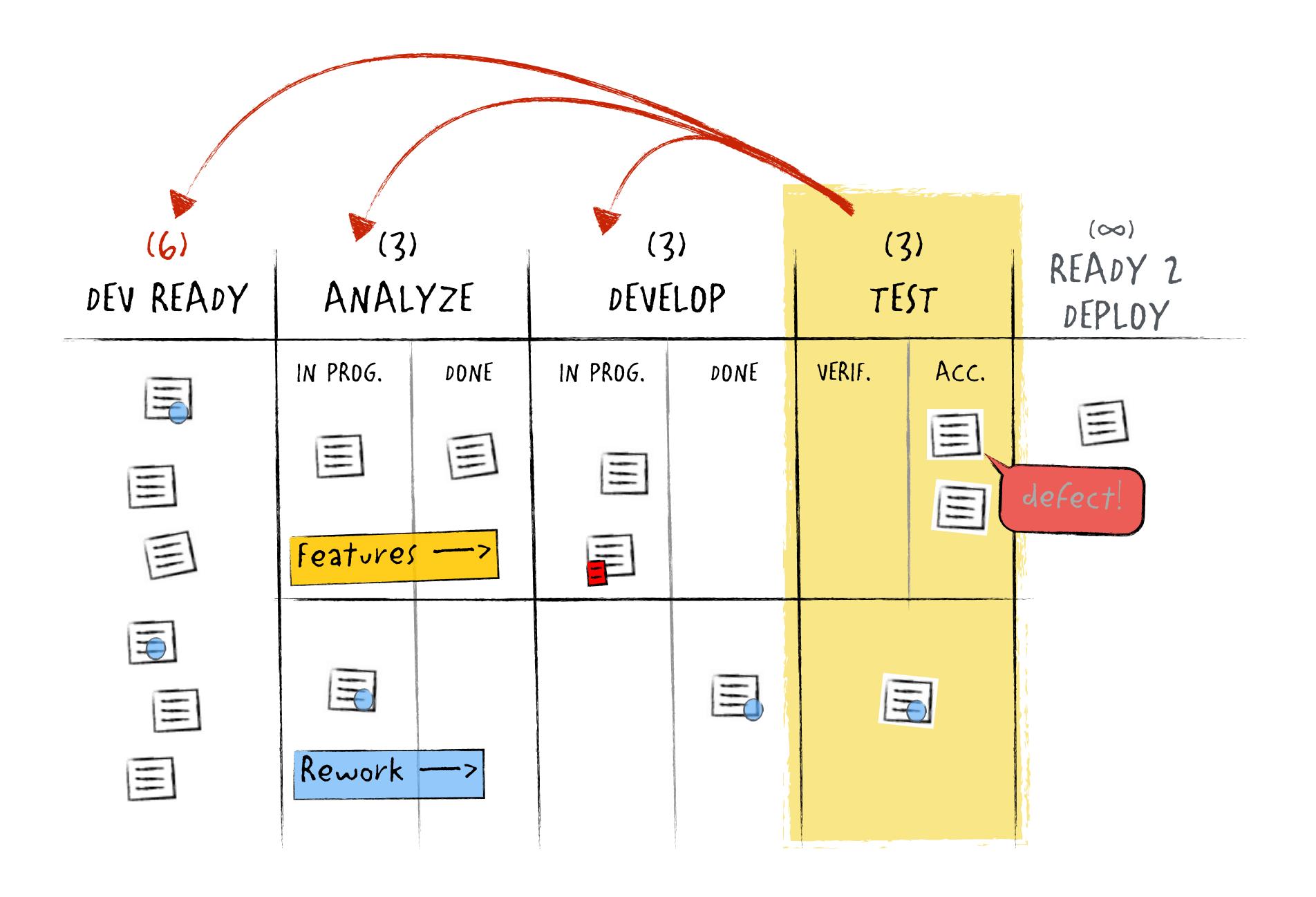
A large percentage of SUPPORT REQUESTS is actually rework!

REWORK and SUPPORT are blocking you from doing valuable stuff!

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collect blockers





BUG FIXING IS NO NEW WORK

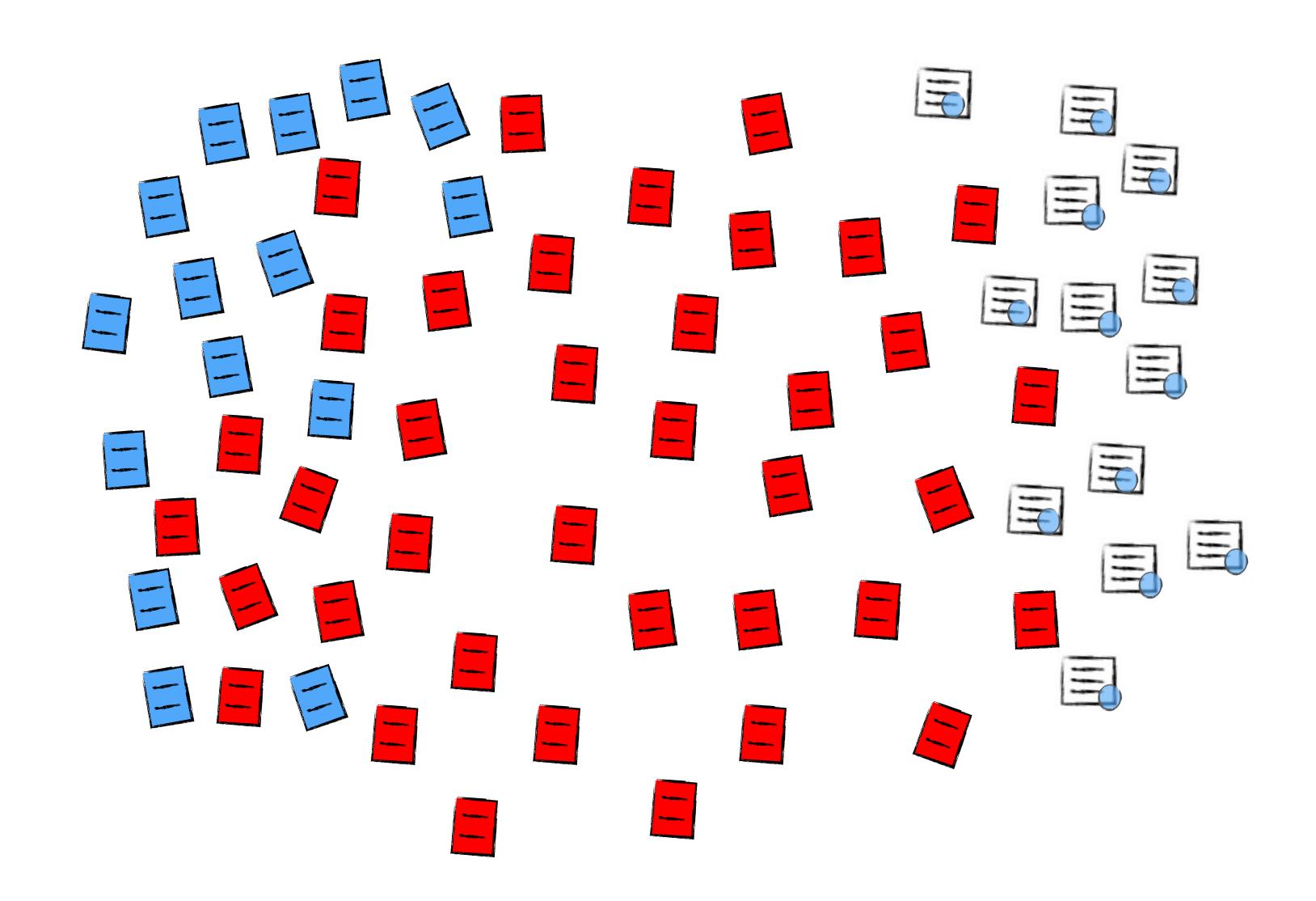
don't allow return traffic

(6)	(3)		(3)		(3)		(∞) READY 2
DEV READY	ANALYZE		DEVELOP		TEST		DEPLOY
	IN PROG.	DONE	IN PROG.	DONE	VERIF.	Acc.	
	国						defect
	features	>					
	real or c.						
	Double						
	Rework						

DEFECTS ARE BLOCKERS!

(6) DEV READY	(3) ANALYZE		(3) DEVELOP		(3) TEST		(∞) READY 2 DEPLOY
	IN PROG.	DONE	IN PROG.	DONE	VERIF.	Acc.	
	Rework	>					

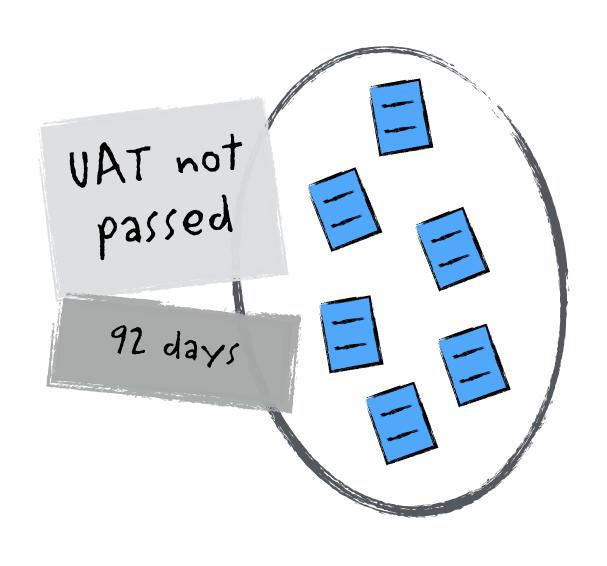
collect blockers

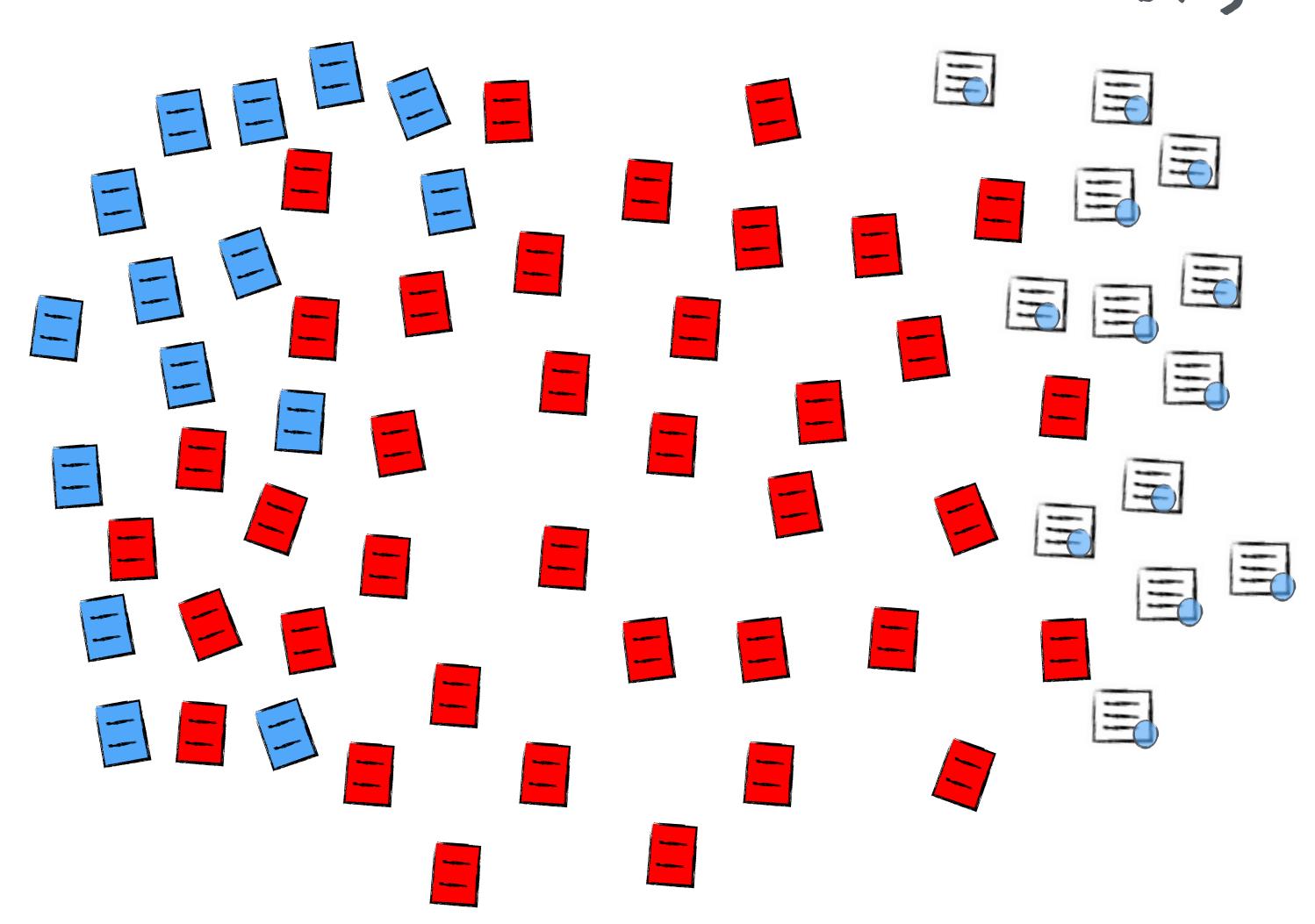




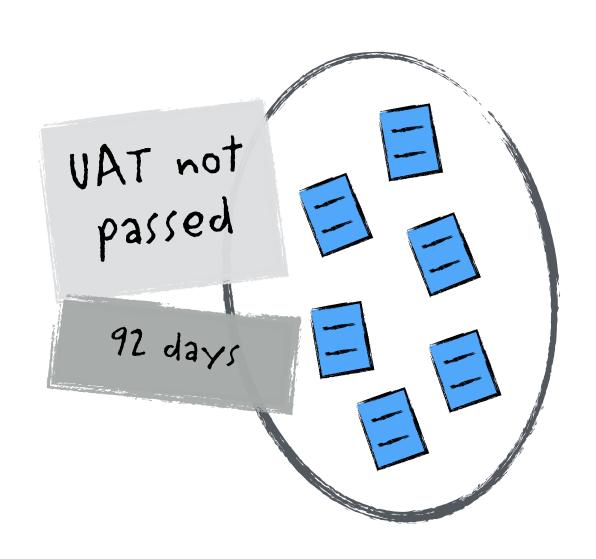
Collect blockers

CLUSTER BLOCKERS







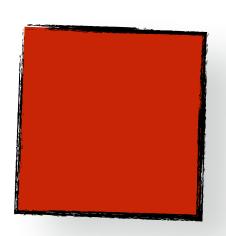


UNDERSTAND THE PROBLEM

- ?- WHY are we blocked by UAT?
- !- Customers are not satisfied with what we deliver.
- ? WHY aren't they satisfied?
- !- There's a mismatch on what they want and what we deliver.
- ?- WHY is this mismatch?

FIND A SOLUTION

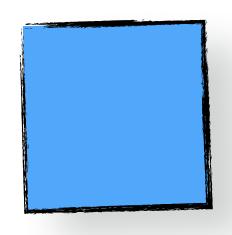
- -introduce review activity after analysis
- -participants: customer, BAs, DEVs & Testers



BLOCKERS

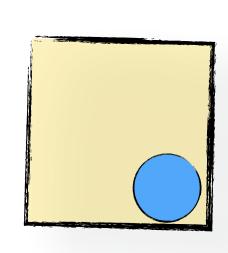
- anything that prevents flow of work items

what's worth collecting & analyzing?



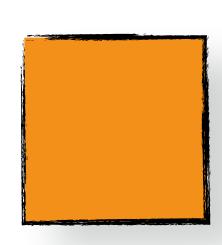
BUGS & DEFECTS

- anything you have to spend additional effort on because of bad quality (bugs, defects, etc.)



REWORK & SUPPORT REQUESTS

- defects in the live environment
- queries from customers



CONSCIOUS POLICY VIOLATIONS

- write the reason of the violation on a sticky and attach it to the work item
- collect & cluster policy violations
- understand & improve

content

109 days

What cluster should you solve first?

We're often fooled by biases...

- The ones with the highest delay
- The ones "we" own because we're in control
- The simple ones because we want to see quick results
- The most recent ones they're fresh in memory

waiting for UX
22 days

reviewer X not available

UAT not

passed

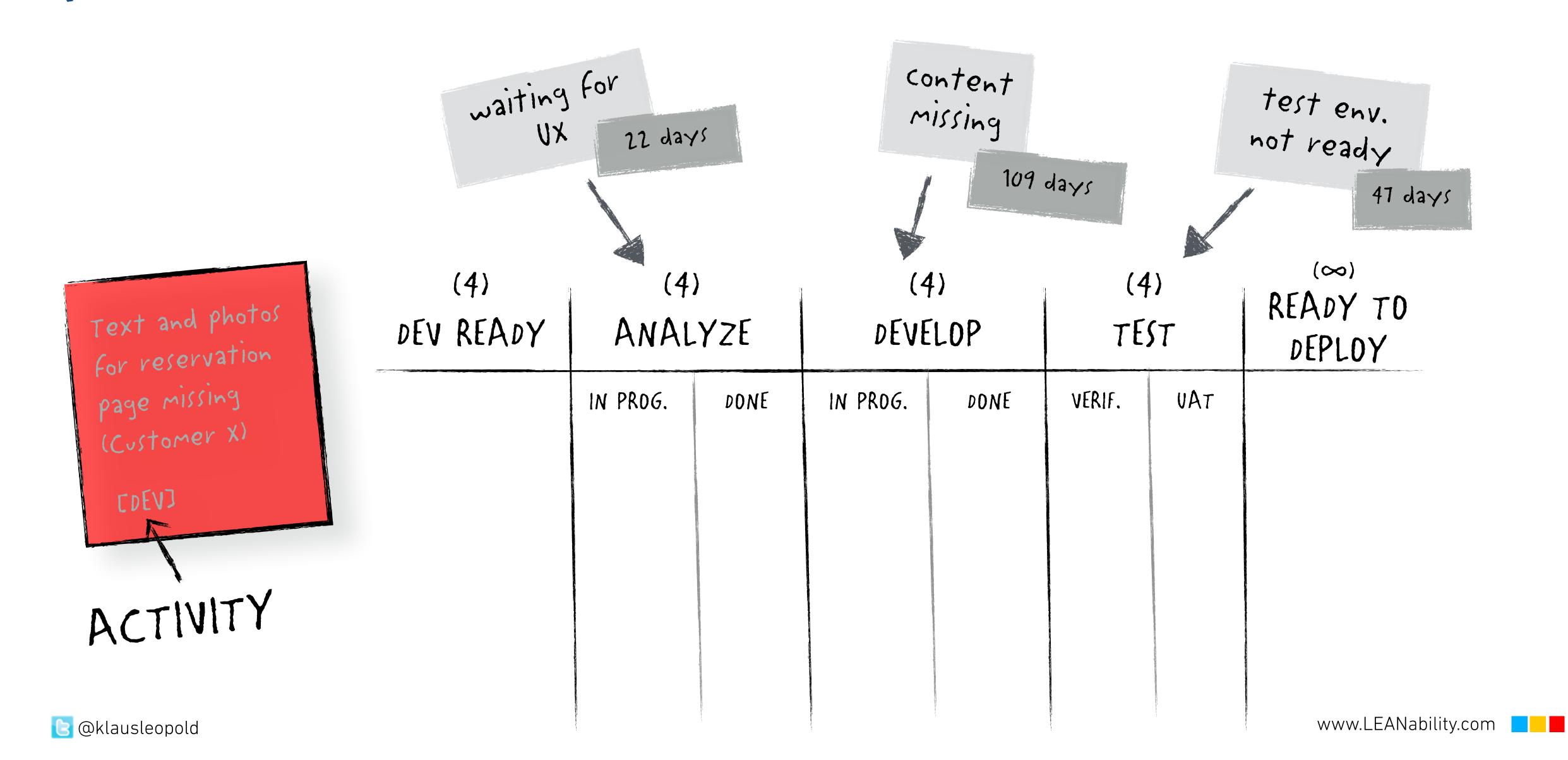
waiting for backend

92 days

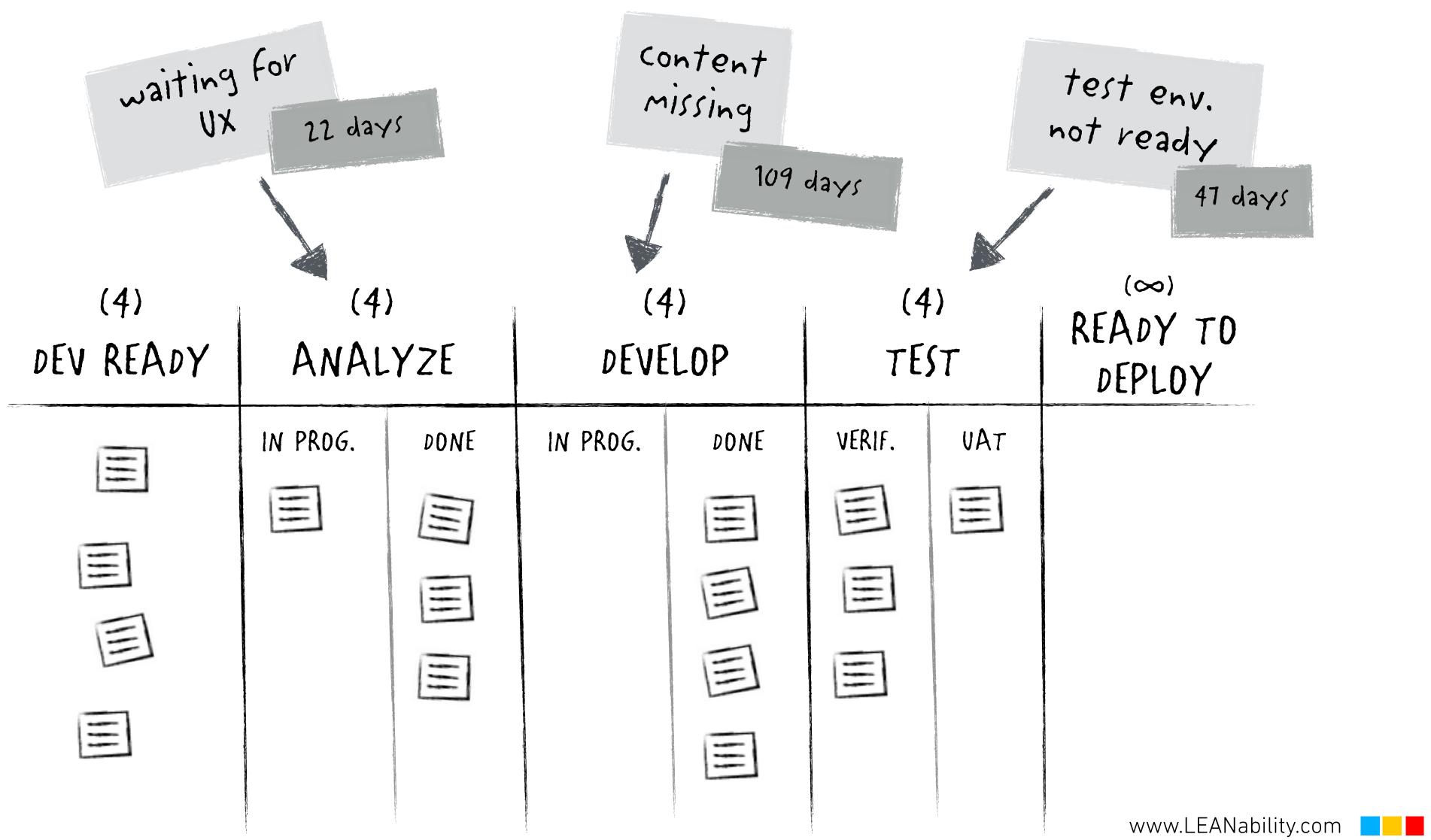
87 87

> test env. not ready

1. Fix clusters that constrain the system

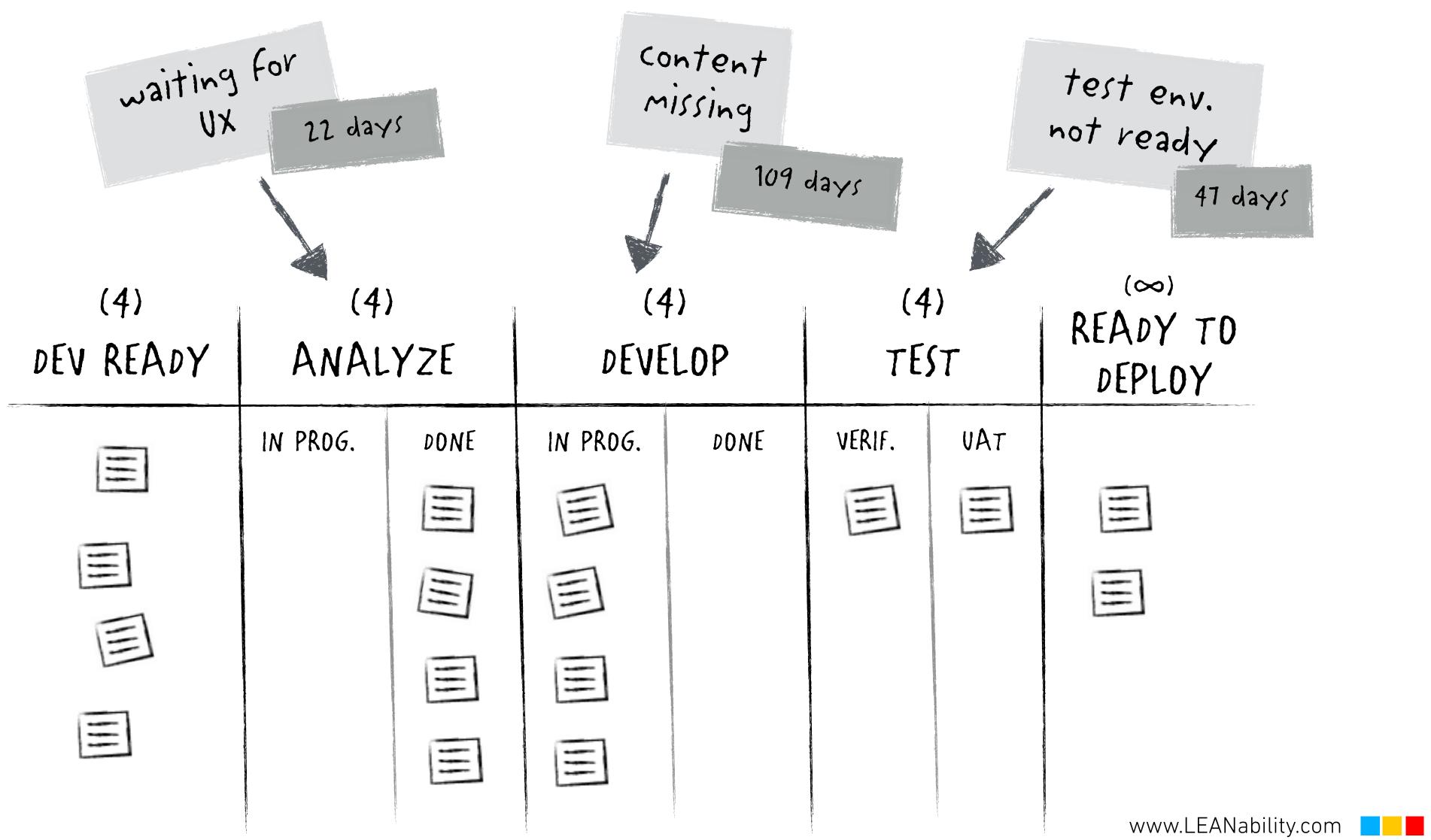


1. Fix clusters that constrain the system





1. Fix clusters that constrain the system

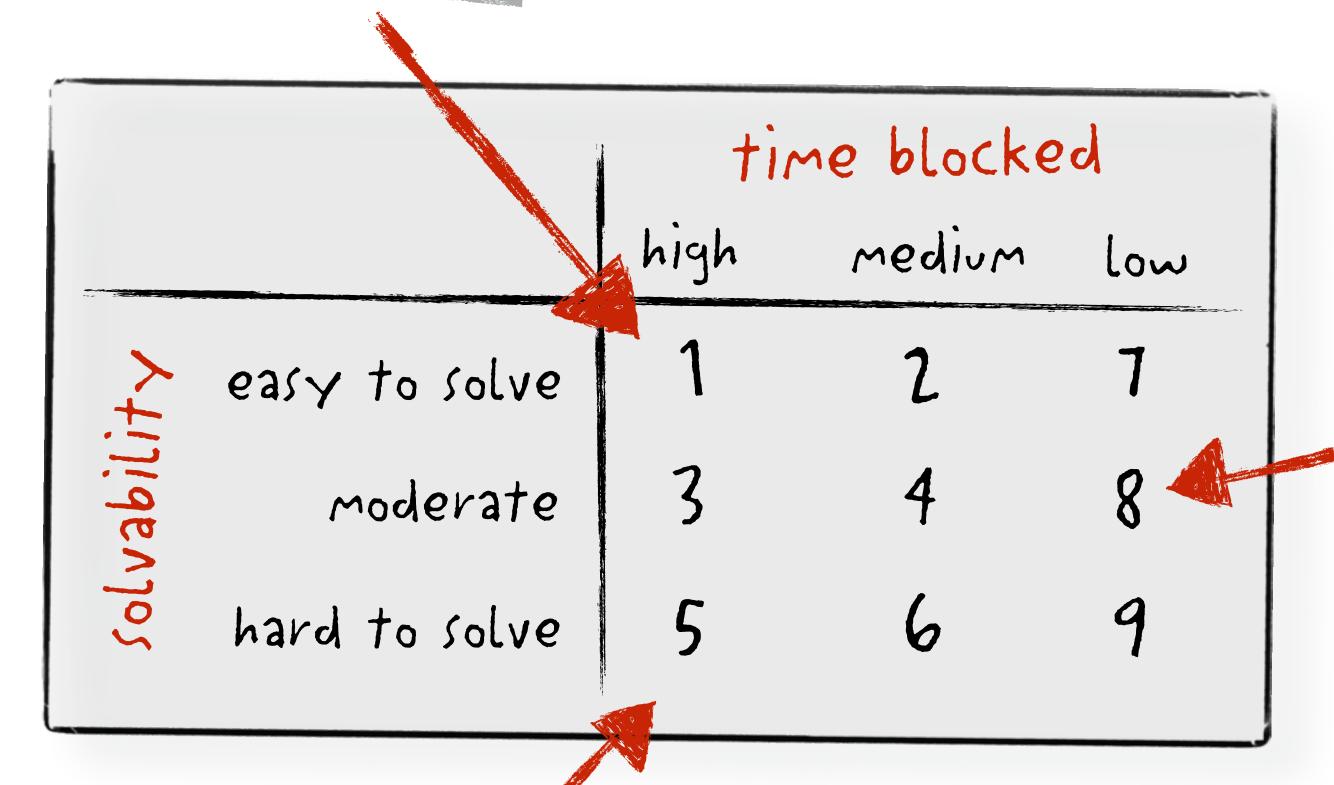




solution: DoD-Item to inform customer about content

content missing 109 days

2. Weight resolution effort against blocker impact



reviewer X not available

solution: talk to reviewer X and find a solution with him

waiting for backend

solution: merge/restructure back-end and front-end teams

87 days

PROBLEM

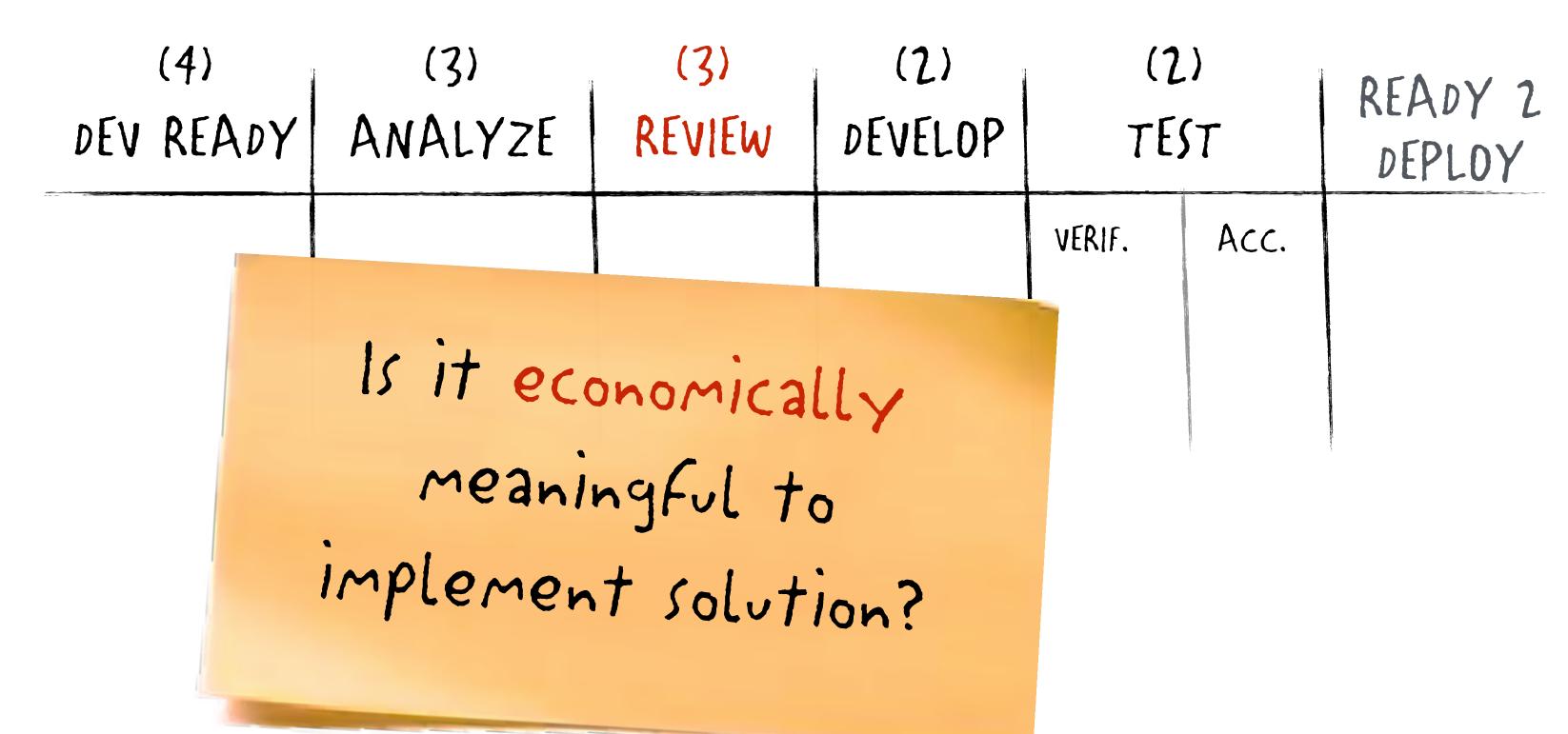
3. Think about economics

VAT not Passed

92 days

SOLUTION

- -introduce review activity after analysis
- -participants: customer, BAs, DEVs & Testers



0EV READY	(3) ANALYZE	(3) REVIEW	(2) DEVELOP	(2) TEST		READY 2 DEPLOY
				VERIF.	Acc.	

Is it economically meaningful to meaningful to implement solution?

LET'S THINK ABOUT IT...

- additional review increases lead time for all work items

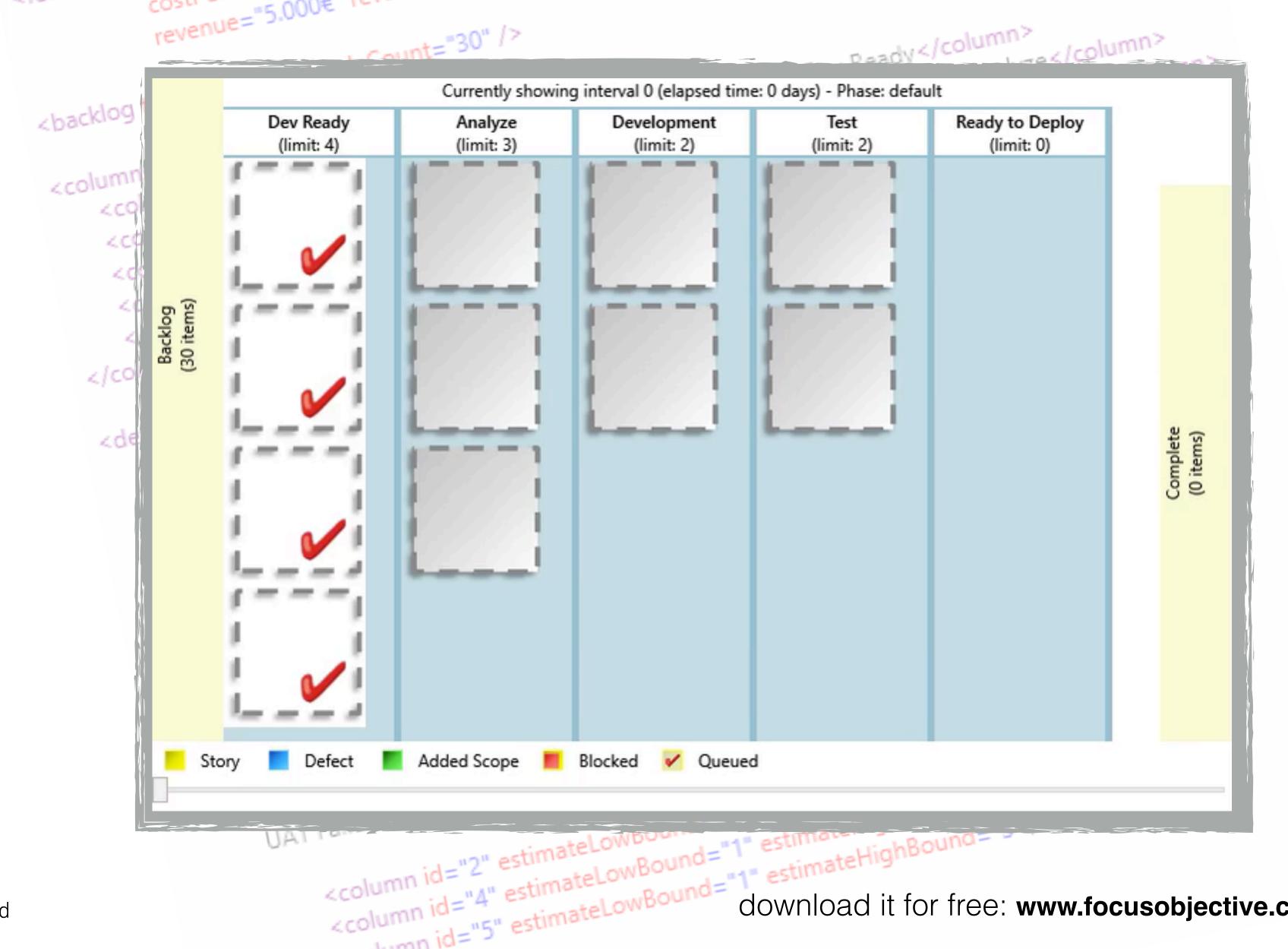
 * higher lead time -> worse TTM & pot. higher CoD
- -lower lead times for items with potential defects

 * lower lead times -> improved TTM & less CoD
- less effort for defect fixing

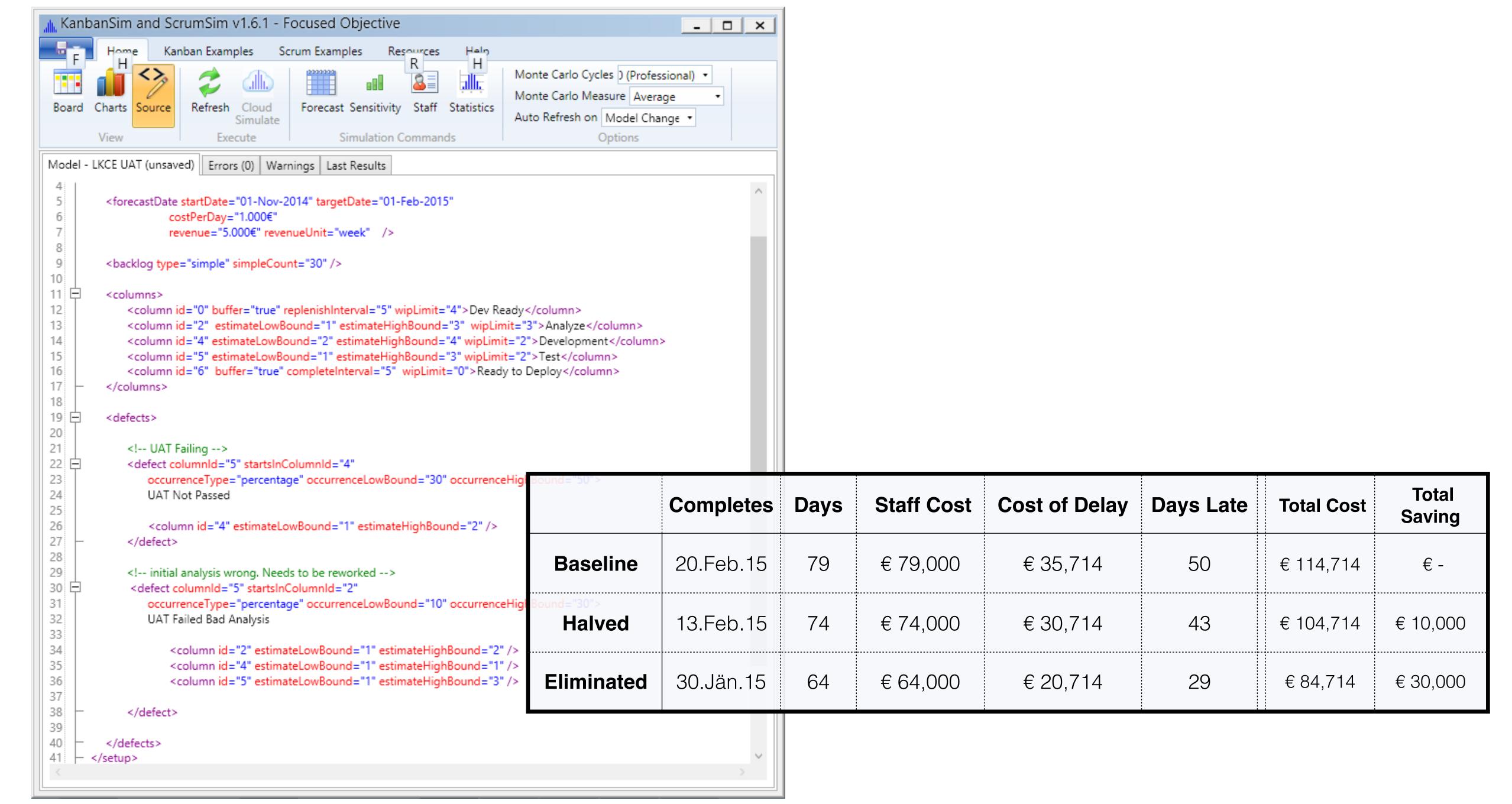
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<forecastDate startDate="01-Nov-2014" targetDate="01-Feb-2015"</pre> costPerDay="1.000€" />
revenue="5.000€" revenueUnit="week" />

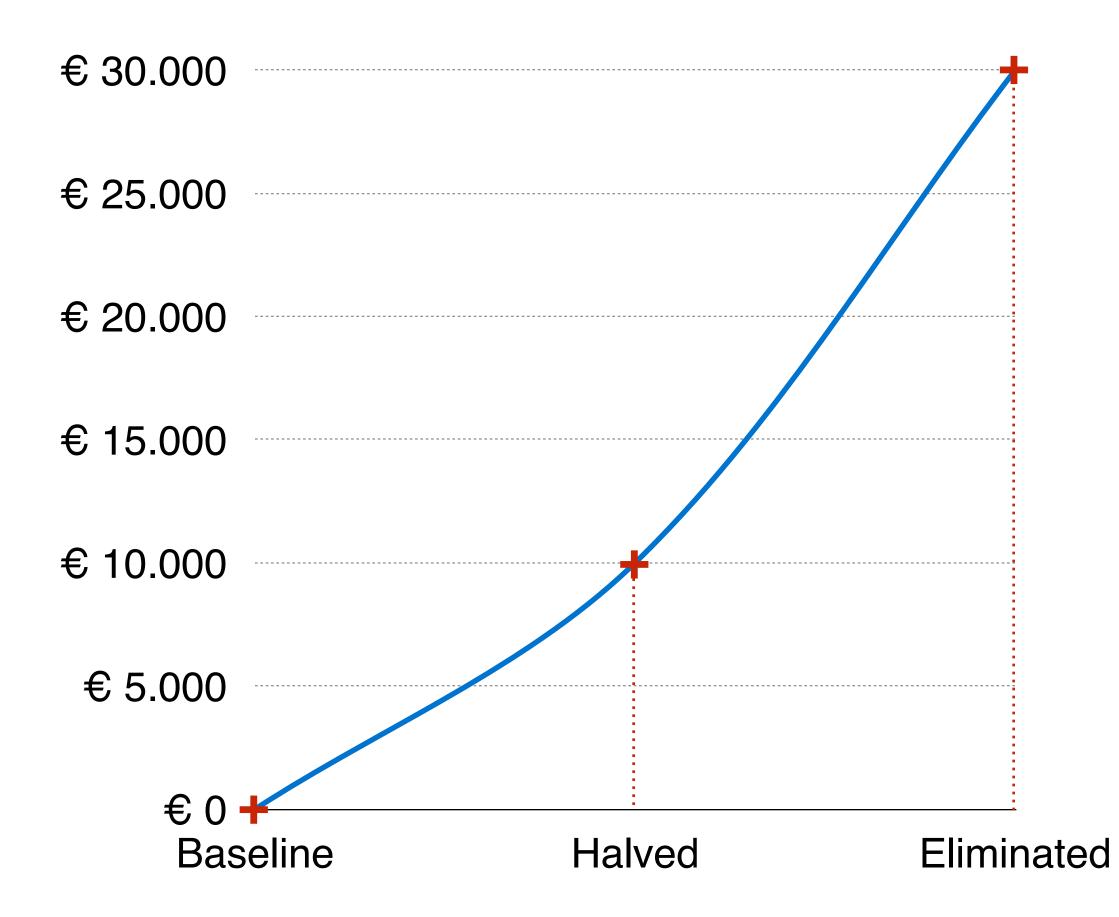
ECONOMIC SIMULATION







	Completes	Days	Staff Cost	Cost of Delay	Days Late	Total Cost	Total Saving
Baseline	20.Feb.15	79	€ 79,000	€ 35,714	50	€ 114,714	€ -
Halved	13.Feb.15	74	€ 74,000	€ 30,714	43	€ 104,714	€ 10,000
Eliminated	30.Jän.15	64	€ 64,000	€ 20,714	29	€ 84,714	€ 30,000





- BLOCKER HANDLING
- collect & cluster blockers
- understand problem
- Find solution
- evaluate clusters
- * think about constraints
- * weight effort against impact
- * economics is your friend

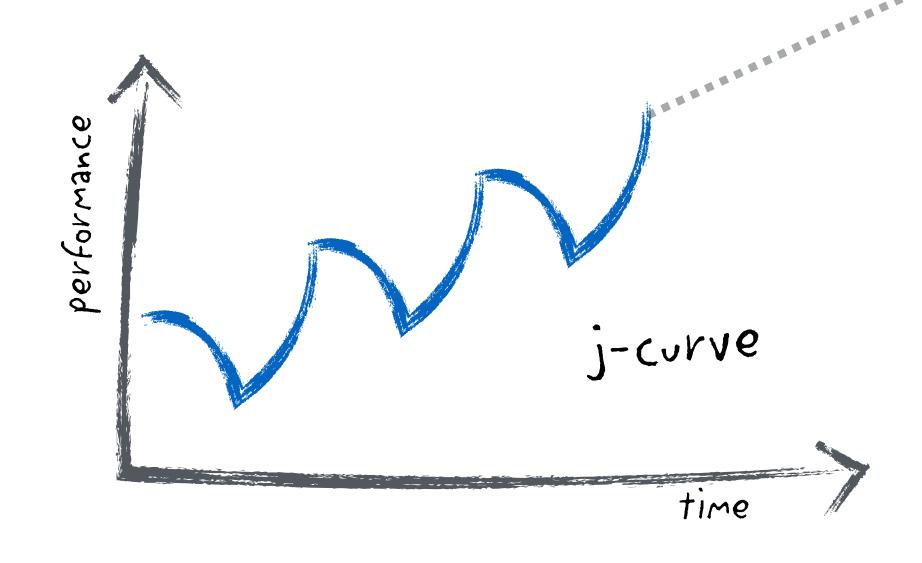
CADENCE

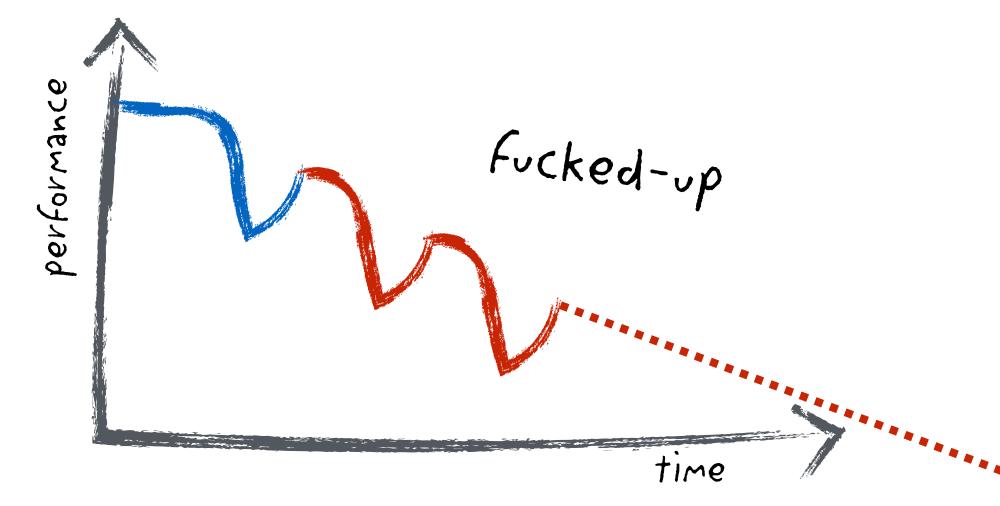
WHAT ELSE TO CONSIDER?

- trade-off: quantity of blockers vs.
 - narrow time Frame
- 4-weekly cadence is a good start
- adapt cadence to your needs

MEETING FORMAT

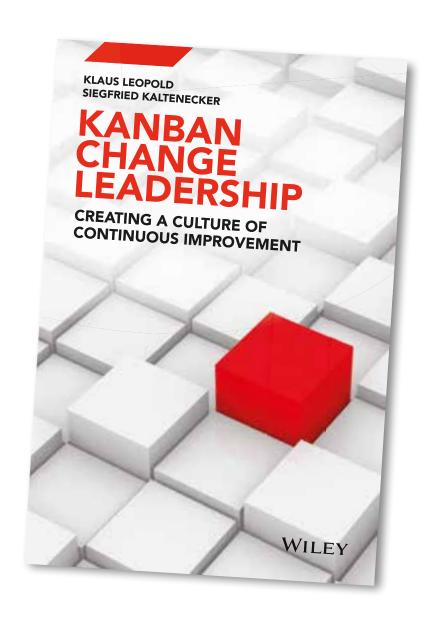
- Use established improvement meetings for it
- participants:
 - * on team level the team
 - * on higher flight levels, multi-tier systems work with delegates





(3) DEV READY	(2) ANALYZE		(2) DEVELOP		(2) TEST		(00) READY 2 DEPLOY	
		ONE	IN PROG.	DONE	VERIF.	Acc.		
(1) READY	DEV-WORK —> (2) PREPARE IN PROG. DONE		(1) REALIZE IN PROG. DONE		(2) VALIDATE		SUCCESS	
							FAILED	
	IMPROVEMEI	NTS —						





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Thanks to Troy Magennis for working with me on this topic!

"Using Blocker Clustering, Defect Clustering, and Prioritization for Process Improvement", Klaus Leopold and Troy Magennis, InfoQ, http://bit.ly/InfoQblocker