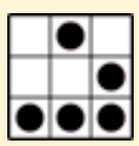
Simple devops workflows with Kanban

Jochen Lillich



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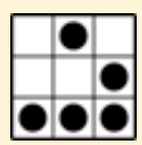

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About me

Jochen Lillich

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* 1970

Linux Sysadmin & Trainer

IT Manager at WEB.DE, 1&1

Founder & CTO at freistil IT

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“Ops for Devs”

DrupalCONCEPT: Drupal PaaS

Devops is hard

The problems

Broad horizon

Many principals

Isolated projects

High task variance

Frequent interruptions

The consequences

Fluctuating load

Missing overview

Low planning reliability

Dissatisfaction, mistrust

External influence

What is Kanban?

Toyota 1947

Lean Manufacturing

Shorten lead time

Increase productivity

Create satisfaction and trust

Visualization

Pull principle

Donnerstag, 23. August 12

Admission Ticket
Please return this ticket
at the exit.(5:00pm closed)

Core attributes

Visualize the order flow.

Limit work in progress.

Measure and control flow.

Define rules explicitly.

Build feedback loops.

Use models for improvement.

Kanban in practice

Visualization

Backlog	Planned	Development		Delivery	Production!
	2	2		1	
		in progress	finished		
C	B	A			

Order types

Requirement

Feature

User Story

Change Request

Production Defect

Maintenance

Service Level Agreements

Vague

Standard

Deadline

Urgent

Order entry

Size appropriately

Weight efficiently (or not at all)

Fill regularly

Delivery

- Regularly
  - Creates trust
  - No Time Boxing
- Ad hoc
  - Needs high maturity
  - Continuous Deployment

Standup Meeting

Frequency: daily

Goal: process improvement

Operations Review

Similar to retrospective

Frequency: unregular

Participants: IT and management

Goal: Continuous improvement

Comparison

Kanban vs. Waterfall

Waterfall: Product passes through phases

Kanban: Product parts pass through stations

Quicker results

More reliable commitments

Higher satisfaction

Kanban vs. Scrum

No fixed roles

Specialization is allowed

Iterations are optional

No Time Boxing

Planning and delivery are independent

Kanban vs. Scrum

Lead time as central metric, not team speed/ velocity

New orders can come in at every time

Order size is not limited

Estimations are not mandatory

A day in

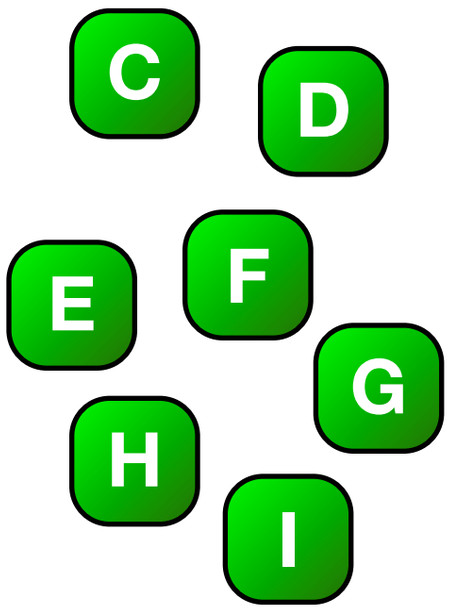
Kanban Land

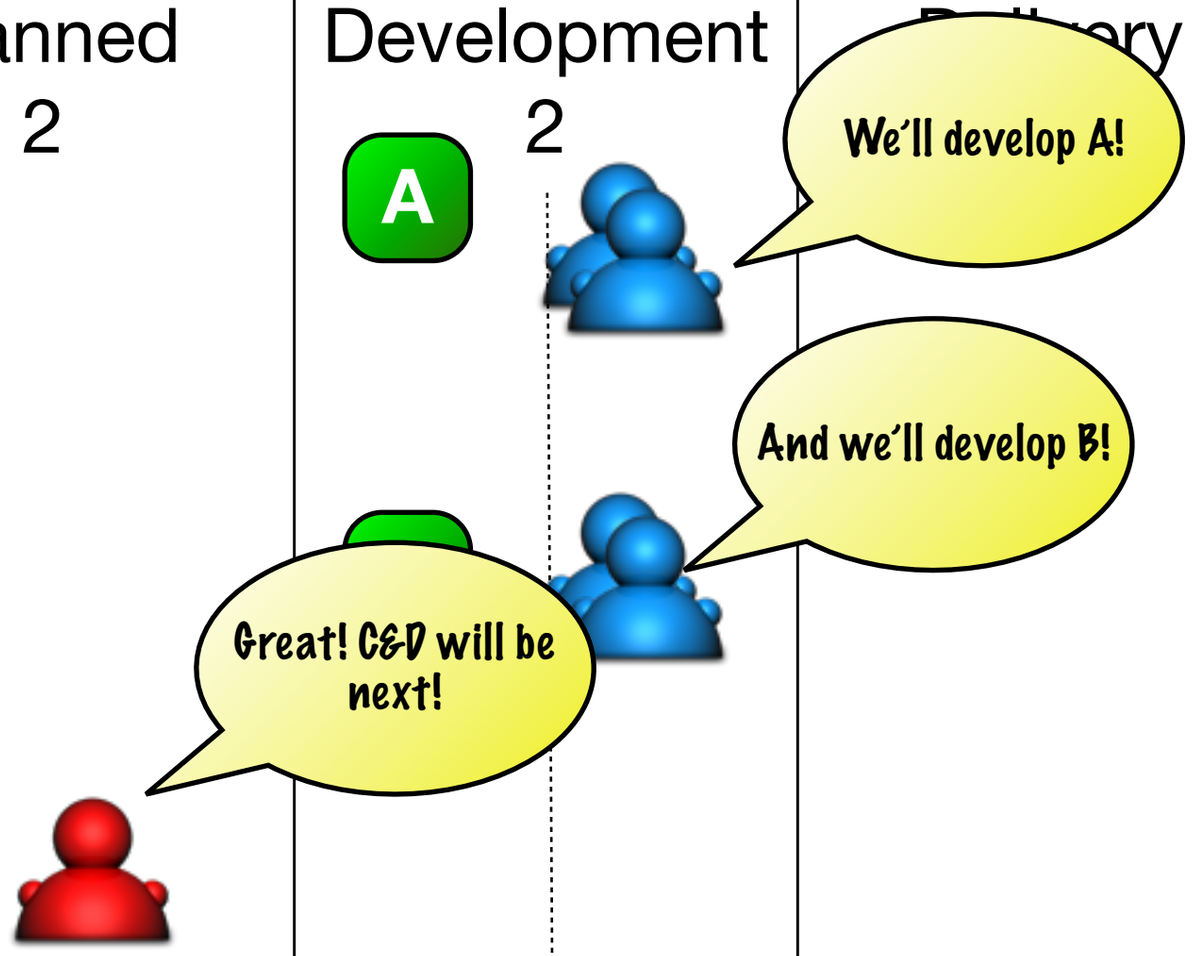
Backlog	Planned 2	Development 2	Delivery 1	Production!
A B C D E F G H I				

Backlog	Planned 2	Development 2	Delivery 1	Production!
C D E F G H I	A B	A & B are the most important.		

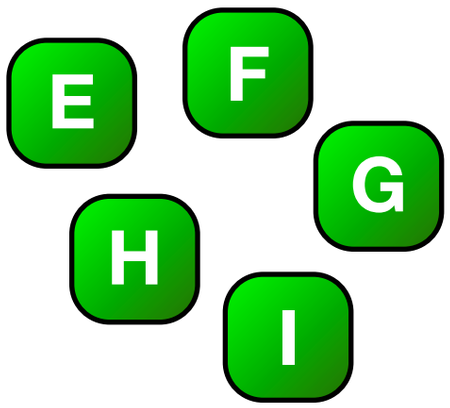
Donnerstag, 23. August 12

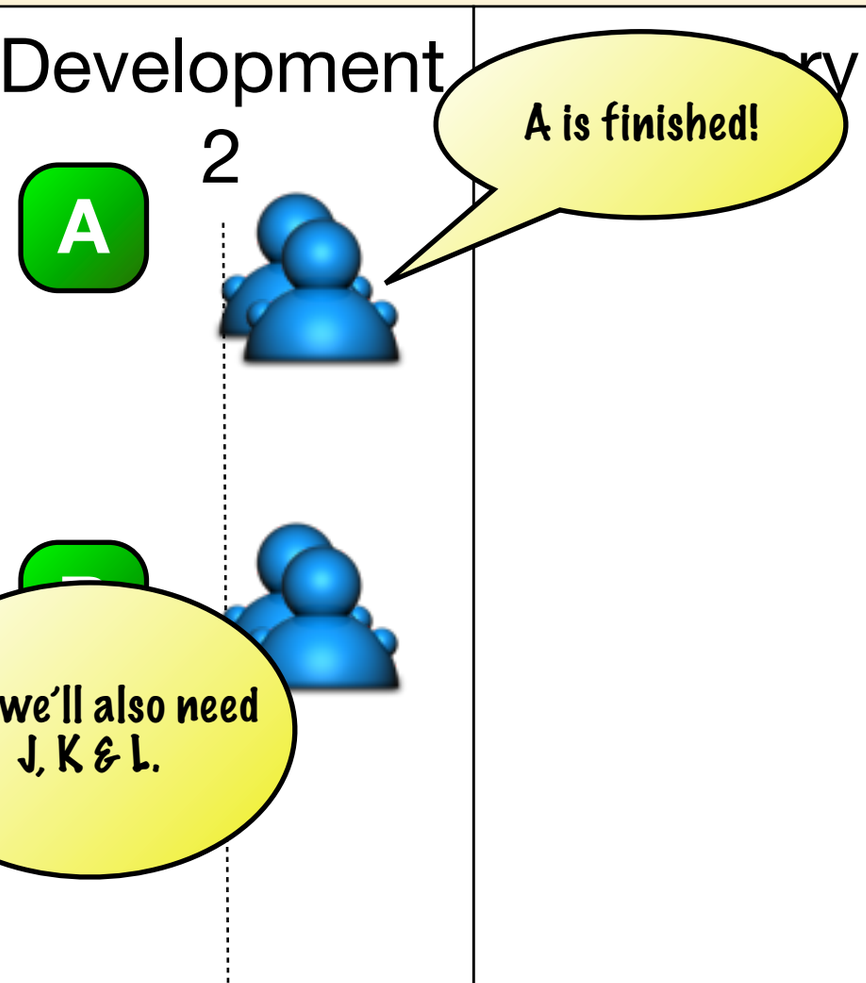
Backlog	Planned 2	Development 2	Delivery	Production!
C D E F G H I		A		





Backlog	Planned 2	Development 2	ry	Production!





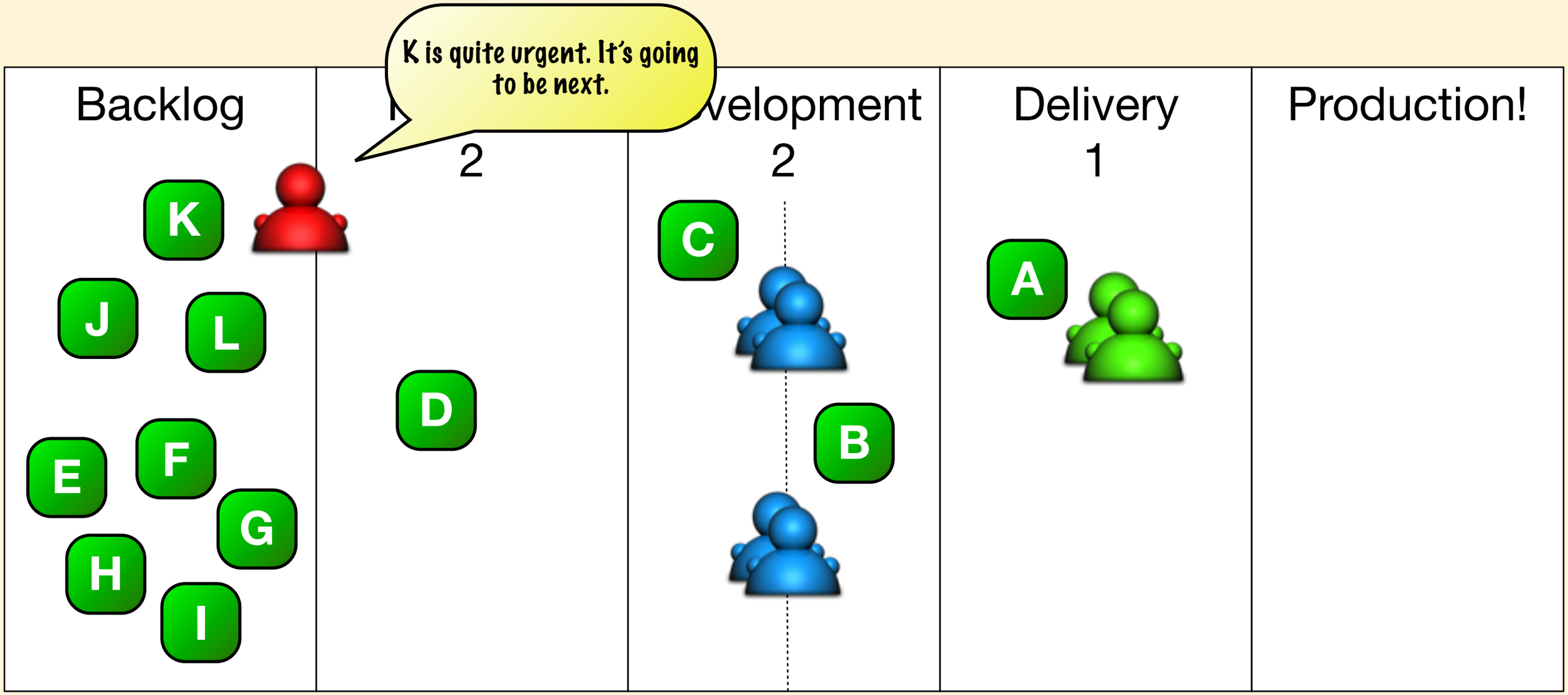
Backlog	Planned 2	Development 2	Delivery 1	Production!
K J L E F G H I	C D	A B		

Backlog	Planned 2	Development 2	Delivery 1	Production!
K, J, L, E, F, G, H, I	D	C, B	A	

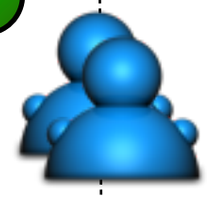
Backlog	Planned 2	Development 2	Delivery 1	…n!
K, J, L, E, F, G, H, I	D	C, B	A	

Shit! The build is broken!

We'll get D. Oh wait, we would exceed the limit!

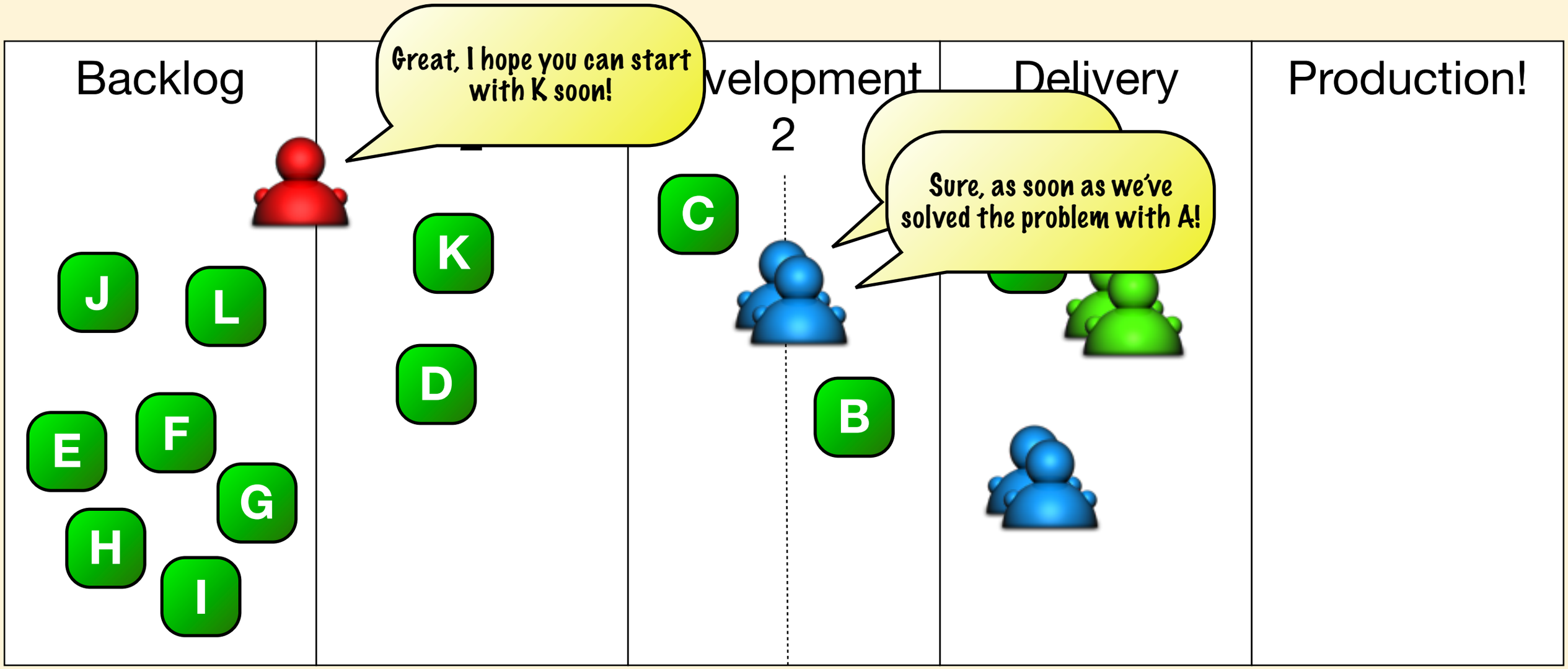

K is quite urgent. It's going to be next.
Backlog
2
velopment
2
Delivery
1
Production!
K
J
L
D
C
A
B
E
F
G
H
I

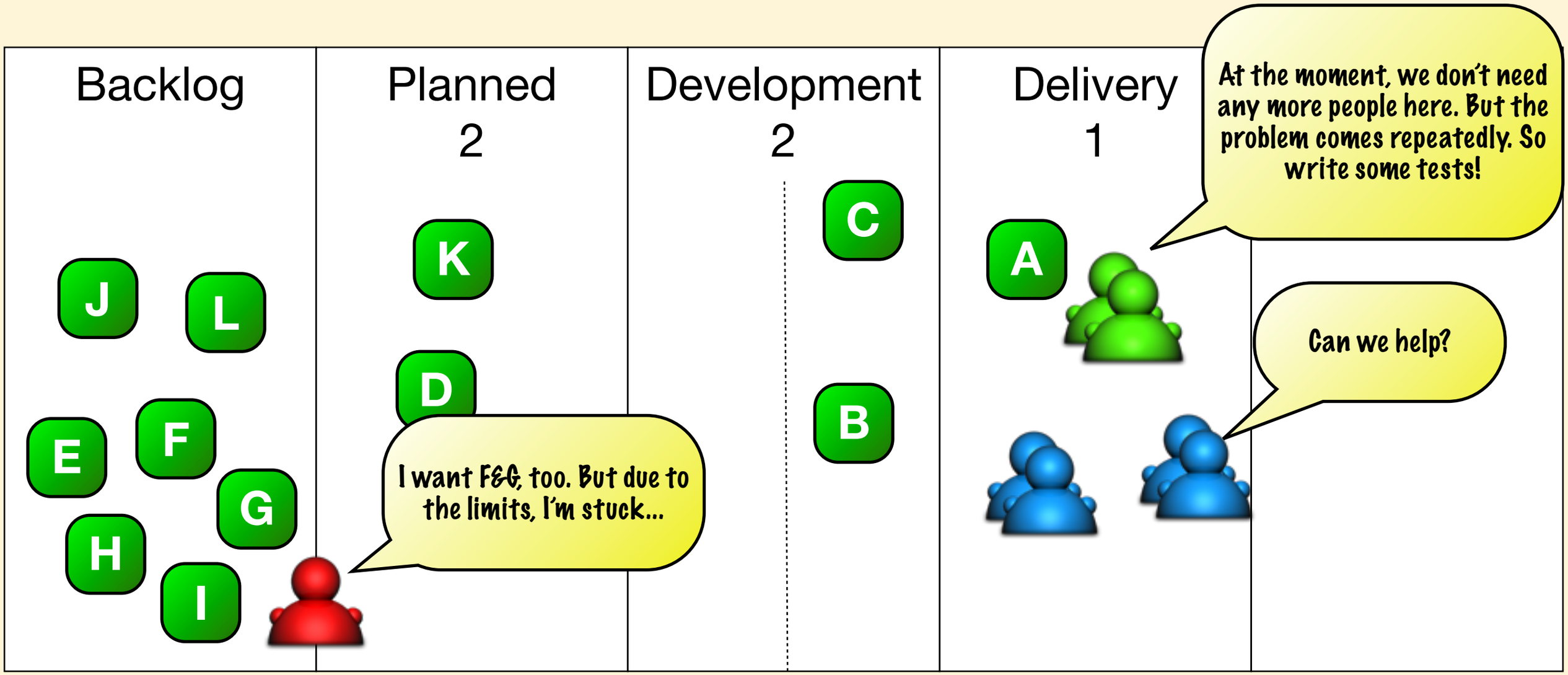
Backlog	Planned 2	Development 2	Delivery 1	Production!
J L E F G H I	K D	C B	A	

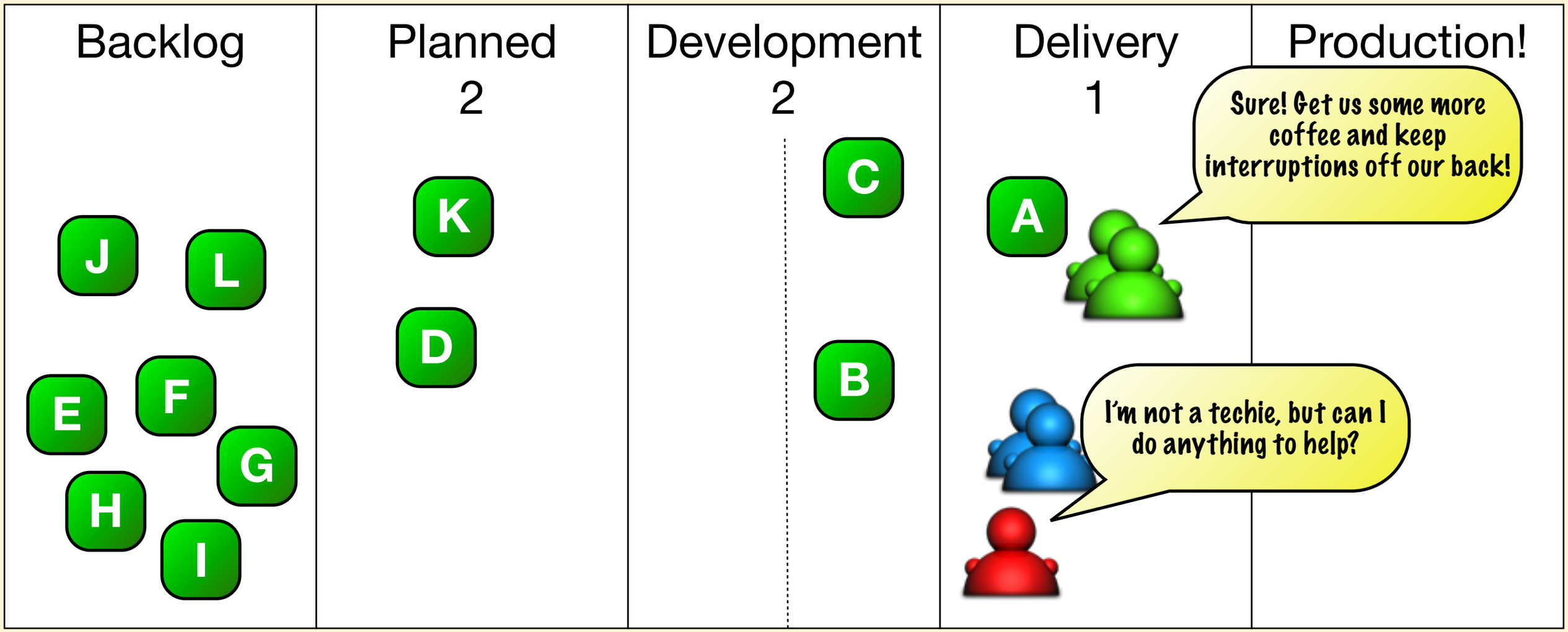


Get us some coffee! And then we'd like to know what that watchdog entry means!

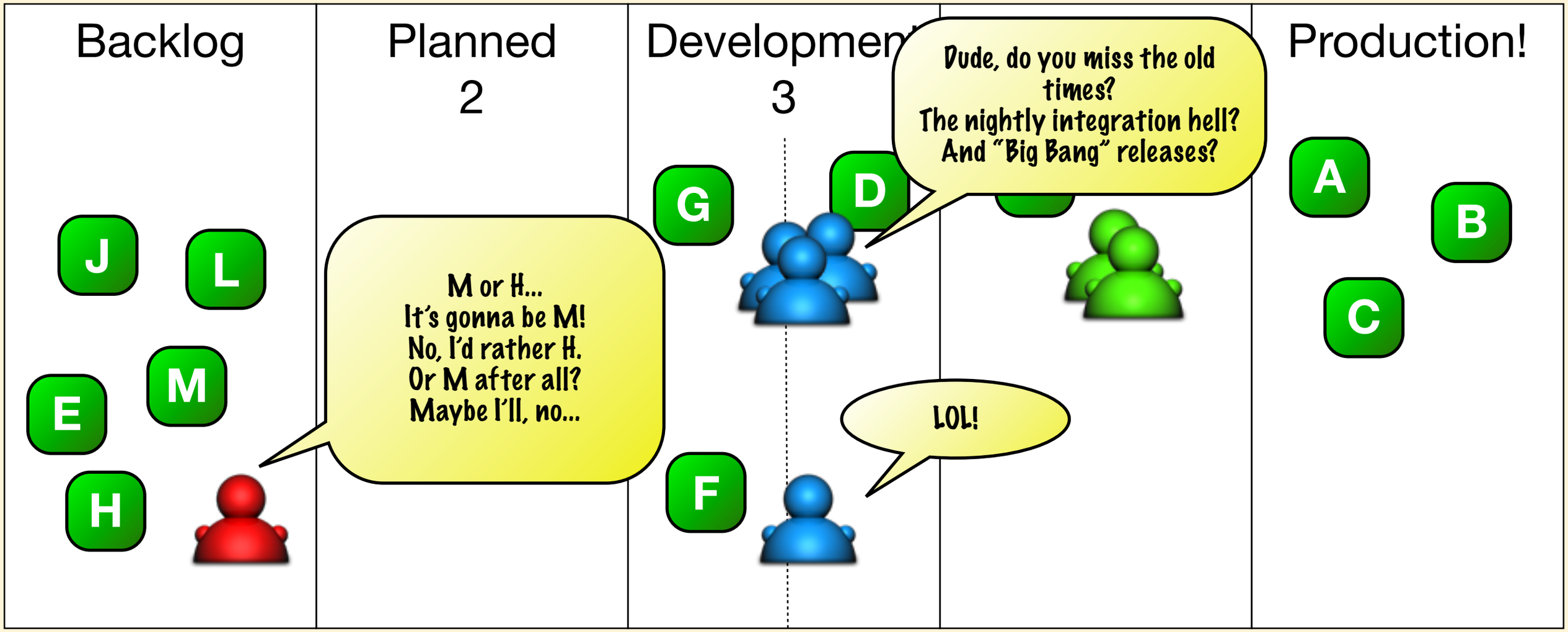
How can we help you?


Backlog
Great, I hope you can start with K soon!
velopment
2
Delivery
Production!
Sure, as soon as we've solved the problem with A!
C
K
J
L
D
B
E
F
G
H
I


Backlog
Planned
2
Development
2
Delivery
1
J
L
K
C
A
At the moment, we don't need any more people here. But the problem comes repeatedly. So write some tests!
Can we help?
D
B
E
F
G
H
I
I want F&G, too. But due to the limits, I'm stuck...



And somewhat later...


Backlog
Planned
2
Development
3
Production!
J
L
M
E
H
G
D
F
A
B
C
M or H...
It's gonna be M!
No, I'd rather H.
Or M after all?
Maybe I'll, no...
Dude, do you miss the old times?
The nightly integration hell?
And "Big Bang" releases?
LOL!

Links

Literatur

David J. Anderson: "Kanban: Successful Evolutionary Change for Your Technology Business"

Websites

"Kanban and Scrum"
http://www.infoq.com/minibooks/kanban-scrum-minibook

Limited WIP Society www.limitedwipsociety.org

IT-Agile.de
http://www.it-agile.de

Podcasts

ITK Podcast

http://itkanban.com/category/podcast/

Thank you!

Please rate my session:
http://bit.ly/dc12kanban