

**Always
Be
Splitting**



You're going to learn how to take a project
from an idea to a working product
in a structured way



You're going to learn how to take a project
from an idea to a working product
in a structured way
through practical exercises

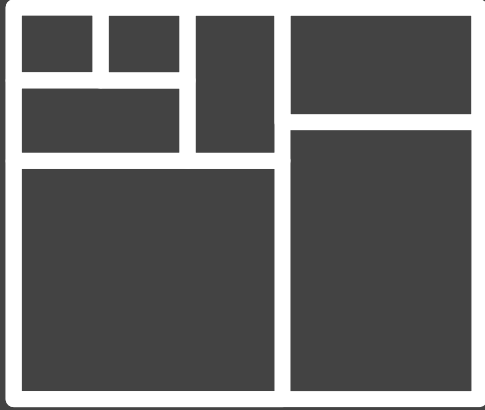


me

JavaScript Developer, Scrum Master

@maciejsmolinski
maciejsmolinski.com





Exercise

We're building **an ecommerce platform** from scratch.
What do we need to build?





Turns out we have **3 months** to build it.
How do we prioritise our work?



MoSCoW



MUST HAVE

o

S

C

o

W



MUST HAVE

o

SHOULD HAVE

C

o

W



MUST HAVE

o

SHOULD HAVE

COULD HAVE

o

W



MUST HAVE

o

SHOULD HAVE

COULD HAVE

o

WON'T HAVE



Exercise

Use MoSCoW to categorize items in our backlog.
Write letters **M**, **S**, **C** or **W** next to the item's name.



? ?

?



We still don't know if **3 months**
deadline is realistic, do we?

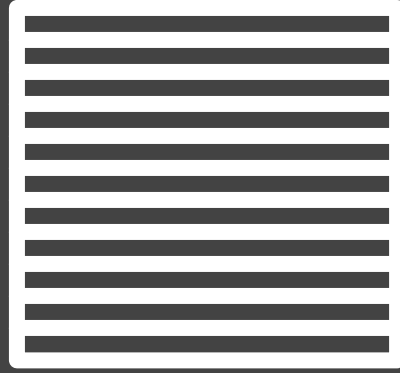


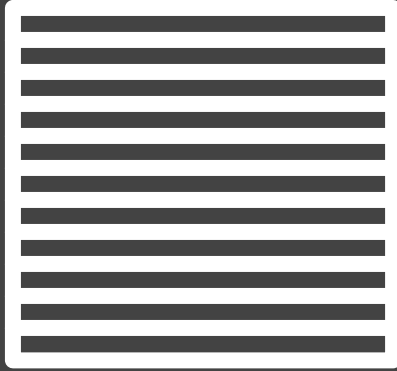
How can we find out?



We can **split our backlog**
to iterations, right?

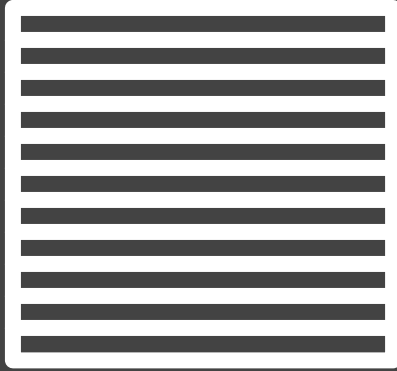






1st iteration



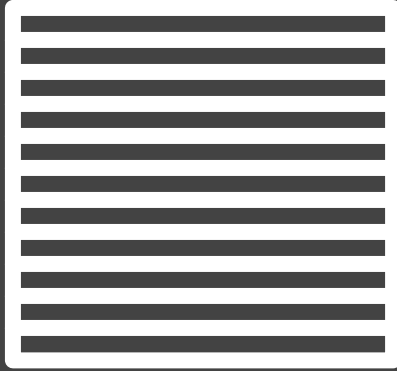


1st iteration



2nd iteration



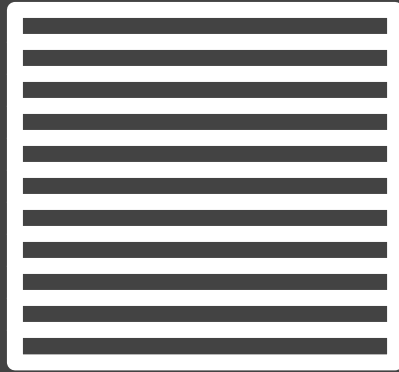


1st iteration

2nd iteration

3rd iteration





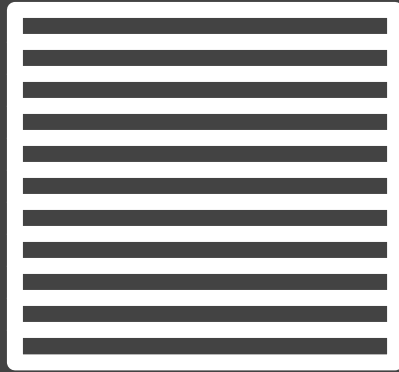
1st iteration

2nd iteration

3rd iteration

4th iteration





1st iteration

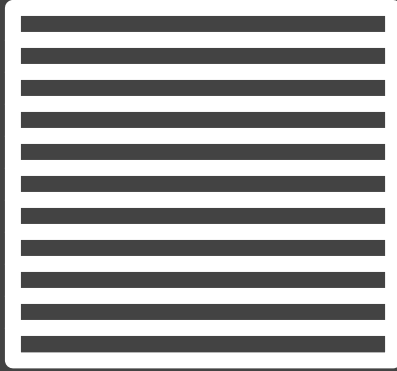
2nd iteration

3rd iteration

4th iteration

5th iteration





1st iteration



2nd iteration



3rd iteration



4th iteration

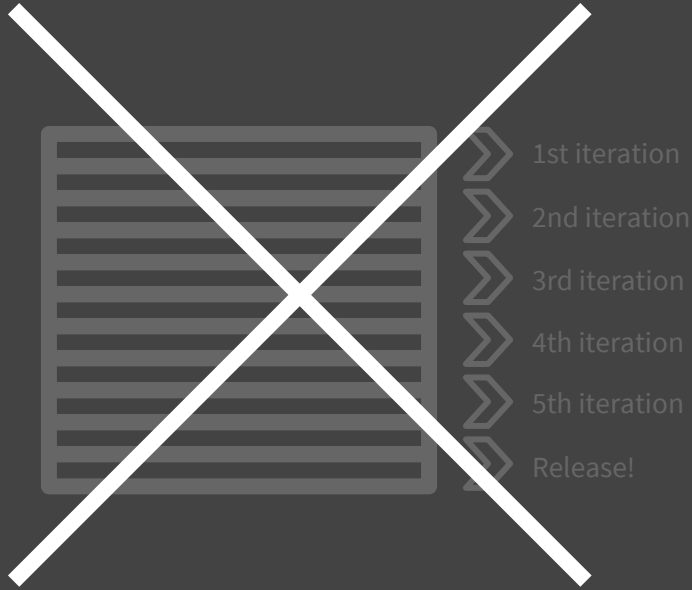


5th iteration



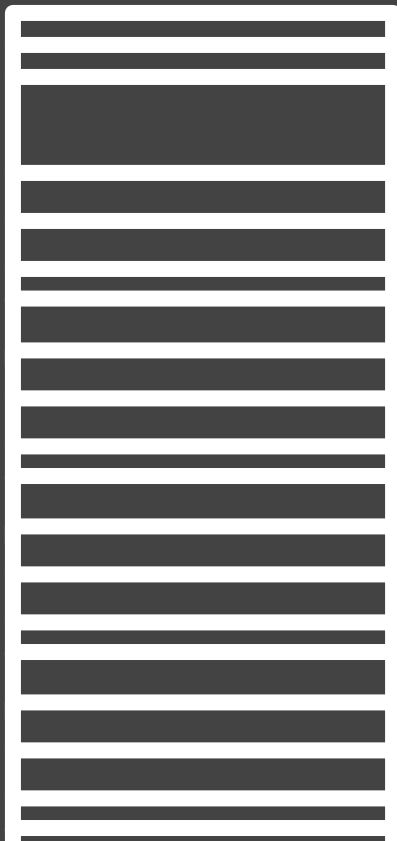
Release!





It's not realistic,
is it?





This is what backlog
items look like in
reality



We **don't know how long** will
the backlog **items take to implement**
until we define them very well

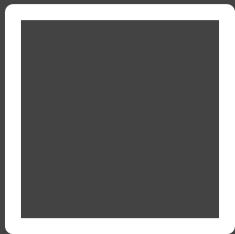


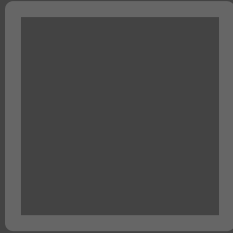
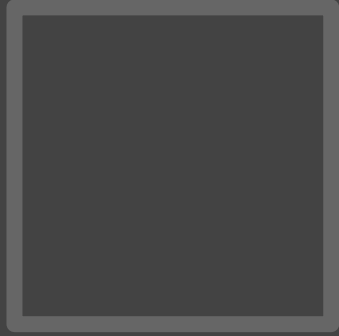
However, we **can estimate**
how big they are



So that we can **group them**
into deliverables later on







BIG



BIG



MEDIUM



BIG

SMALL

MEDIUM



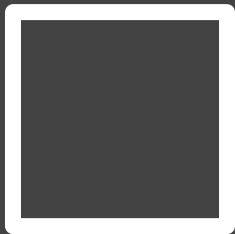
Exercise

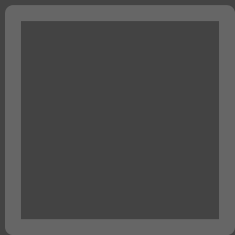
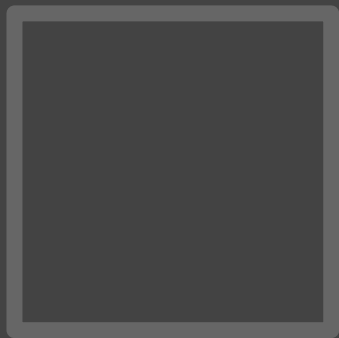
Add **big**, **medium** and **small** labels to the items in our backlog

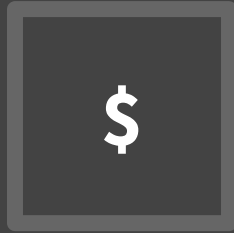
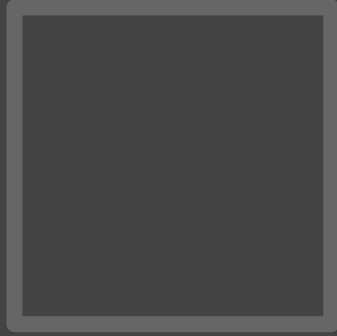


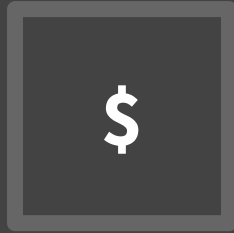
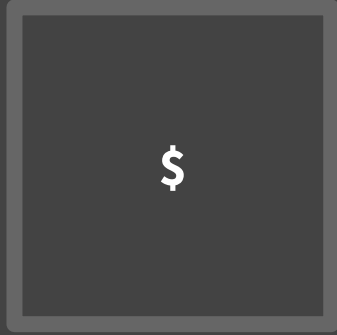
Bonus: We can estimate the **value**
of backlog items in the same way

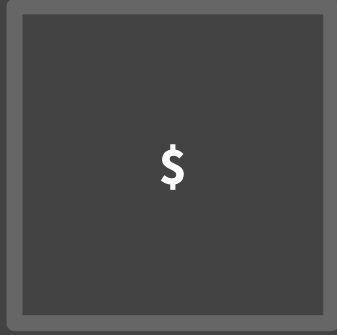












Bonus: Exercise

Add \$\$\$, \$\$ and \$ labels representing value of the item to all items in our backlog



Bonus: Bang for the buck

(value for money, same but different)



Bonus: Bang for the buck

(value for money, same but different)

Small item that brings a lot of value



Bonus: Bang for the buck

(value for money, same but different)

size=1 value=3 value/size = 3/1 = 3

Small item that brings a lot of value



Bonus: Bang for the buck

(value for money, same but different)

size=1 value=3 value/size = 3/1 = 3

Small item that brings a lot of value

Big item that doesn't bring a lot of value



Bonus: Bang for the buck

(value for money, same but different)

size=1 value=3 value/size = $3/1 = 3$

Small item that brings a lot of value

Big item that doesn't bring a lot of value

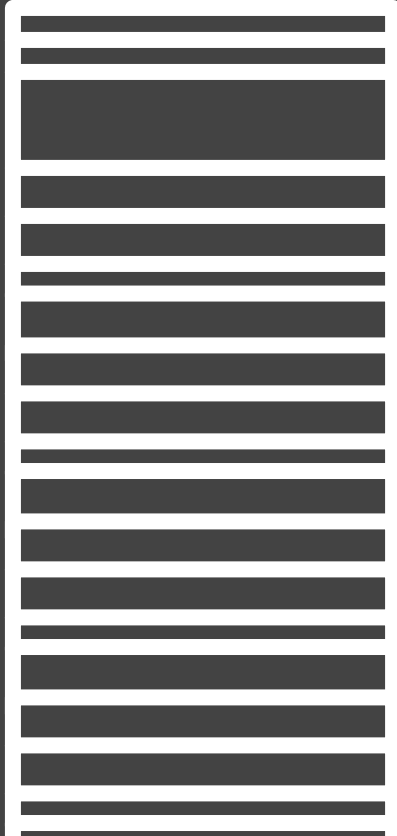
size=3 value=1 value/size = $1/3 = 0.33$



Bonus: Exercise

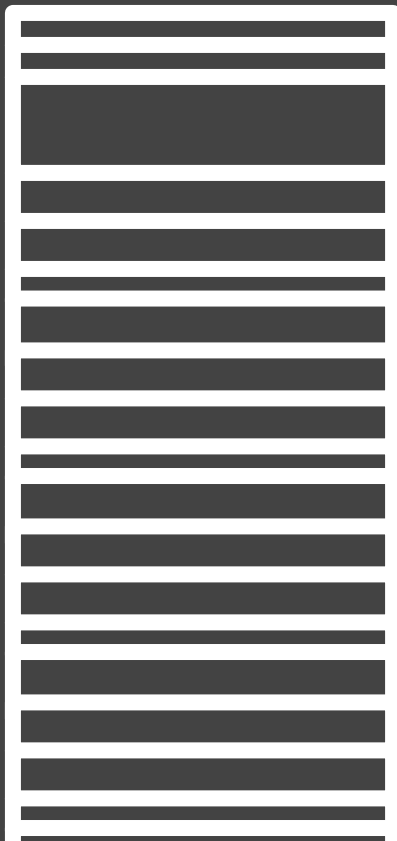
Calculate the **bang for the buck** (value/size)
for all items in our backlog





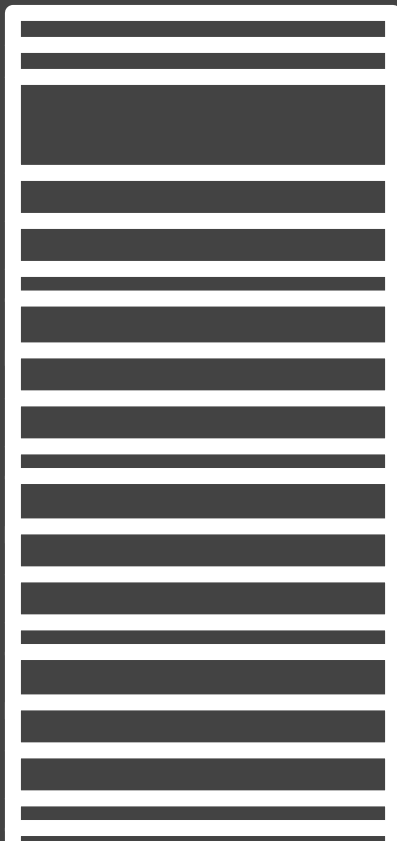
Now that we know
**some items are
small, some
medium and some
large** we have a
feeling how big the
project is





We also know
iterations might **not**
be the same every
time





But we still **feel**
we can deliver



Until this happens...



“Guys, turns out XYZ is
more complicated
than I originally thought”



“... we need to **carry this over**
to the next iteration”



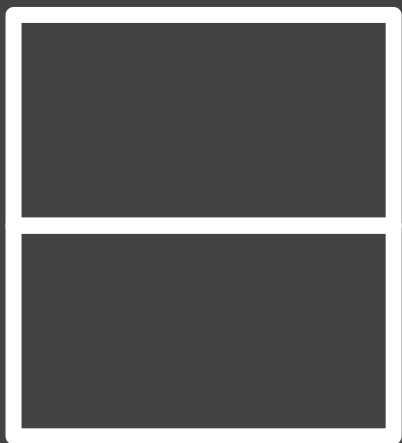
Question

What happened **and why** did it happen?



Item depended on another one?
Item was too big?
We didn't investigate beforehand?







Things that **slowed us down**





50% delivered

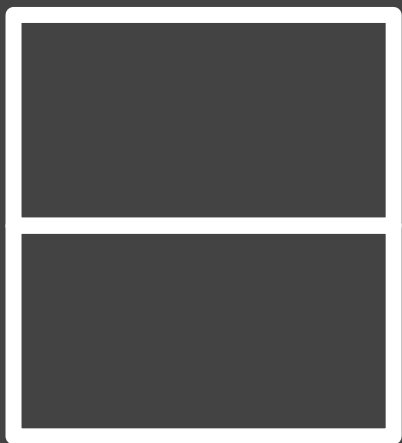


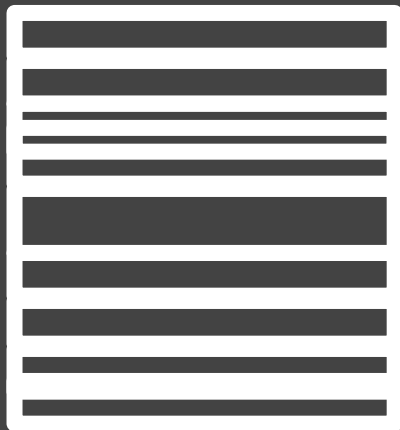
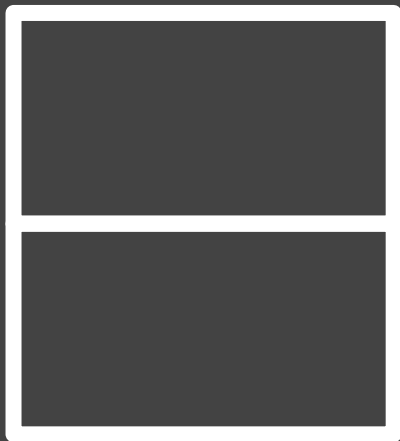
The **result**



What if ...?









Things that **slowed us down**





50% delivered





50% delivered

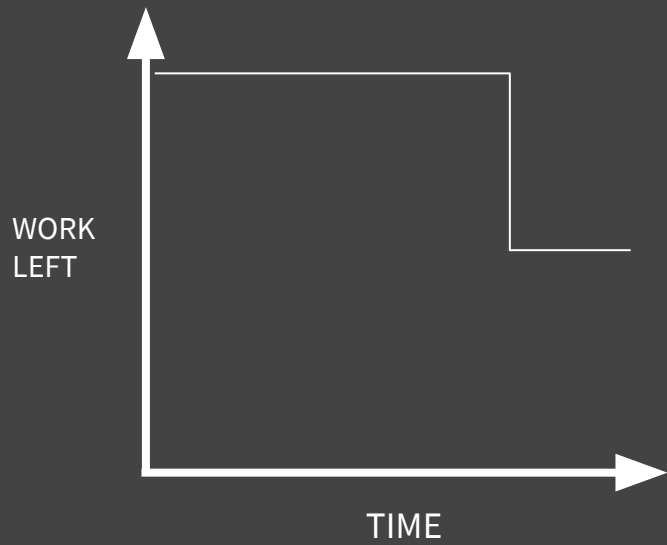


80% delivered

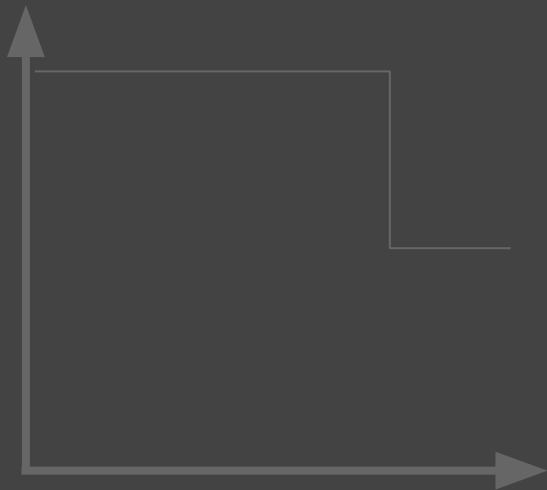


Presented different way...





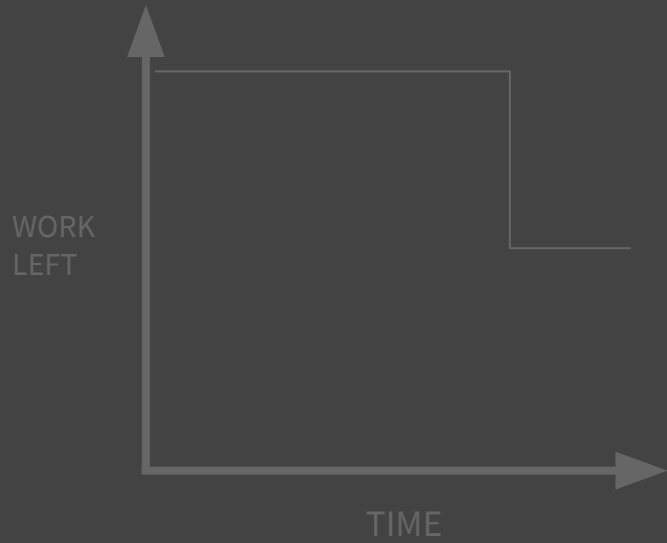
WORK
LEFT



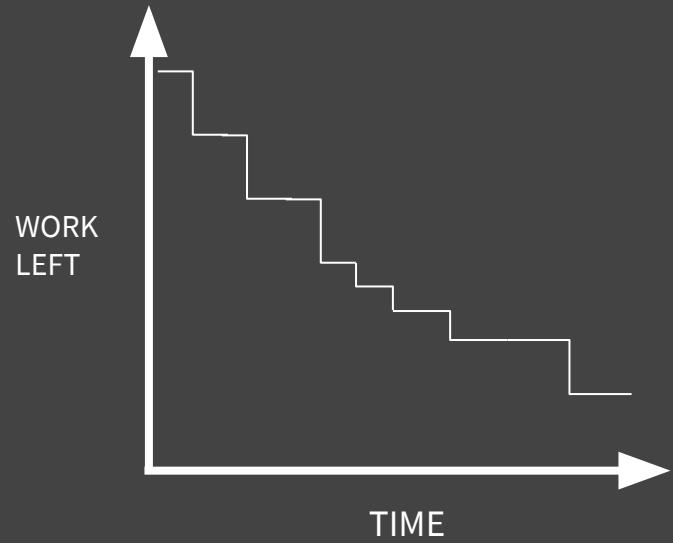
TIME

VS

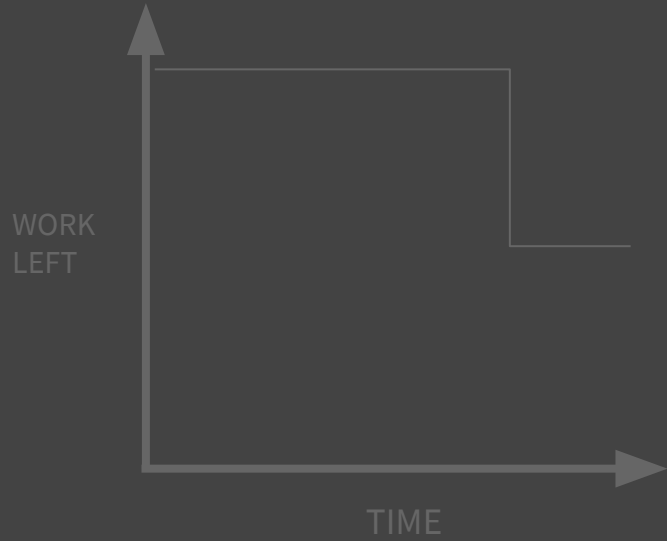




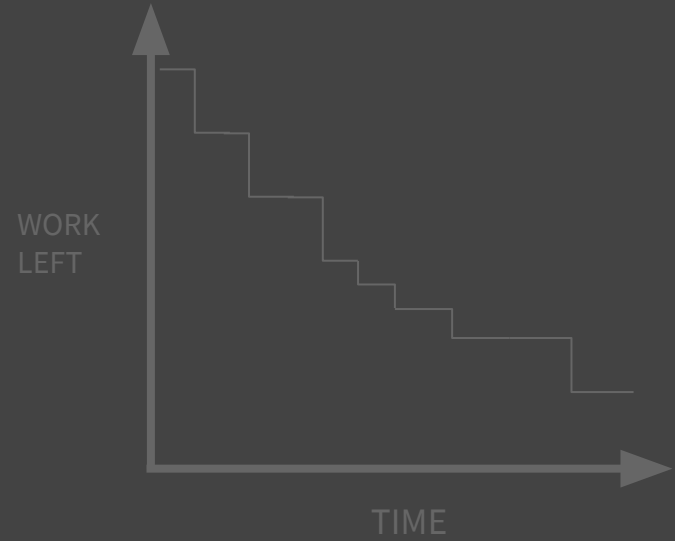
vs



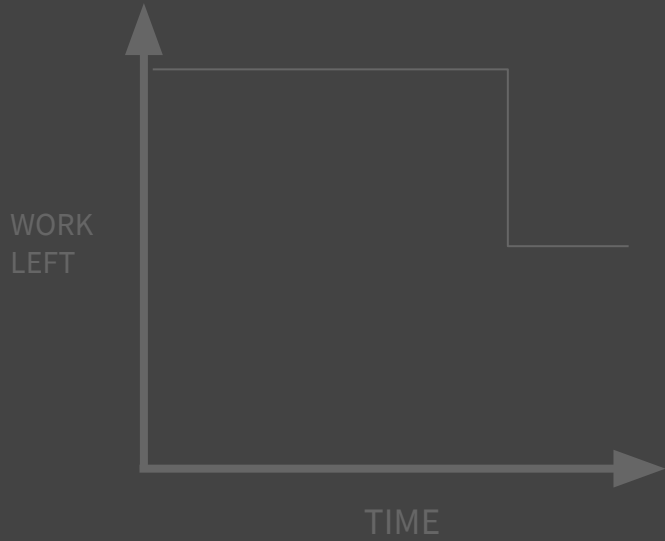
Are we **on track**?



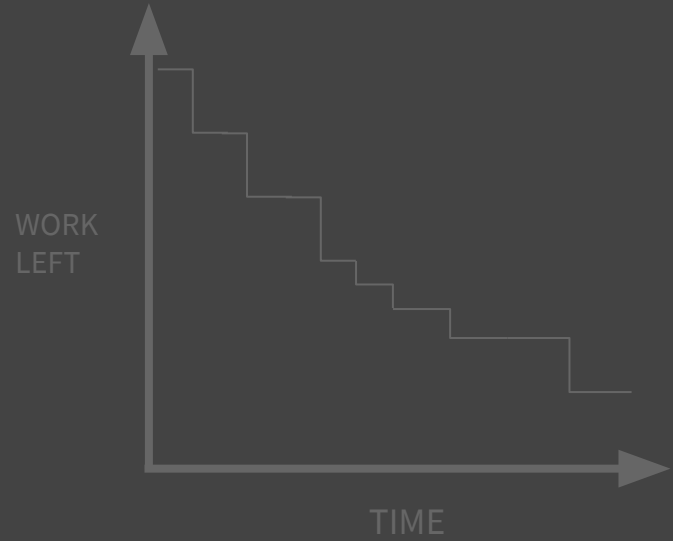
vs



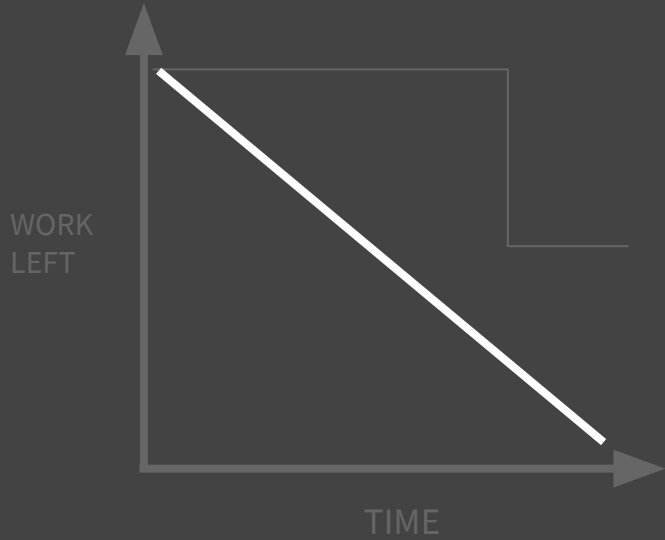
Are we **on track**?
Are we going to **deliver**?



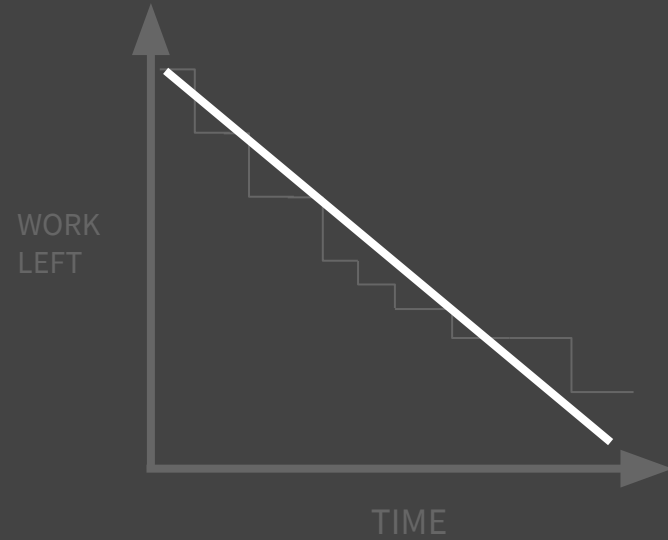
vs



Are we **on track**?
Are we going to **deliver**?

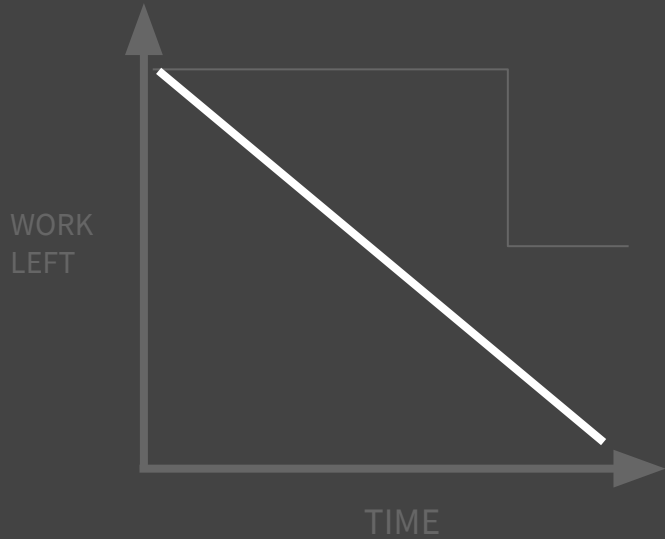


vs

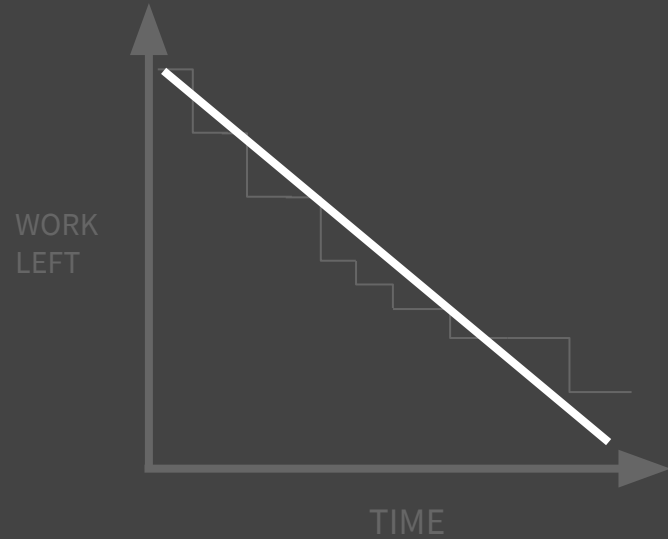


Are we **on track**?

Are we going to **deliver**?



vs

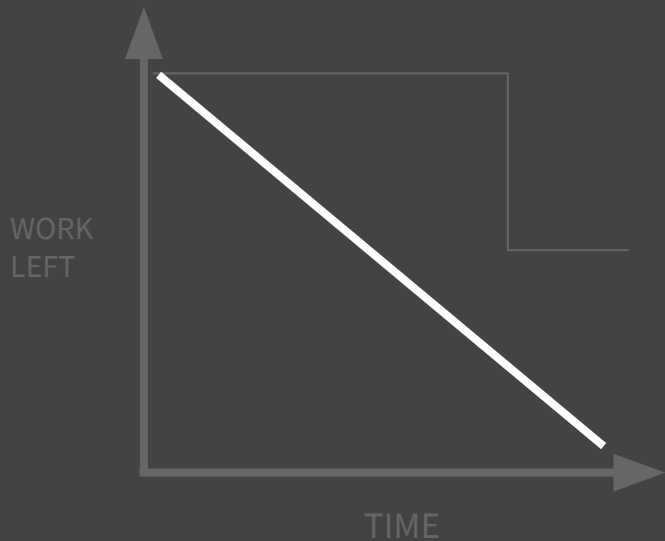


- We're working on it, do not disturb
- We'll find out when the iteration is over



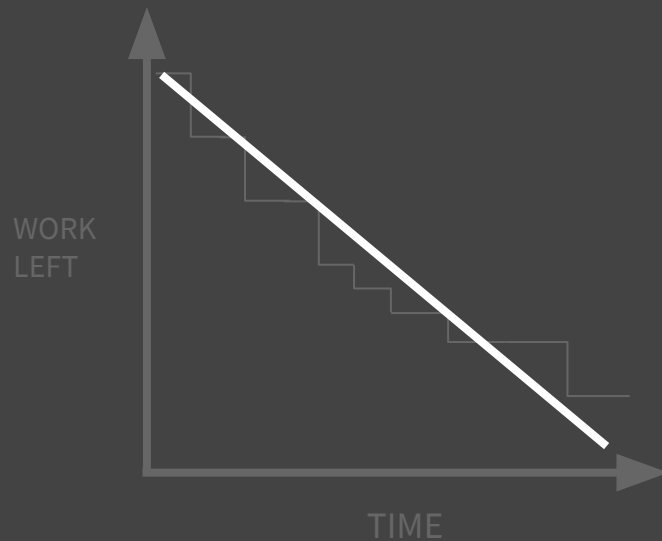
Are we **on track**?

Are we going to **deliver**?



- We're working on it, do not disturb
- We'll find out when the iteration is over

vs



- We're on track
- 80% yes, 20% maybe



Exercise

Come up with a **set of adjectives** defining a good/healthy backlog item

examples: small, testable



INVEST



INDEPENDENT

**N
V
E
S
T**



INDPENDENT

NEGOTIABLE

V

E

S

T



INDEPENDENT

NEGOTIABLE

VALUABLE

E

S

T



INDEPENDENT

NEGOTIABLE

VALUABLE

ESTIMABLE

S

T



INDEPENDENT

NEGOTIABLE

VALUABLE

ESTIMABLE

SMALL

T



INDEPENDENT

NEGOTIABLE

VALUABLE

ESTIMABLE

SMALL

TESTABLE



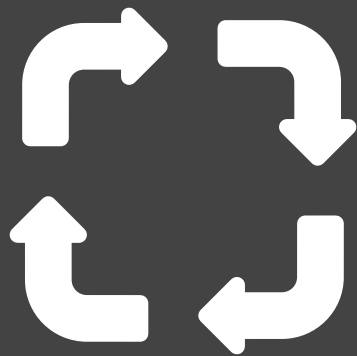
Exercise

Pick one large backlog item. **Split it to small deliverables** keeping in mind the adjectives you just defined

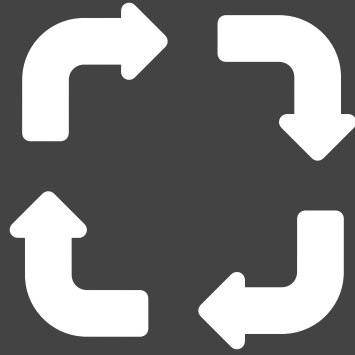


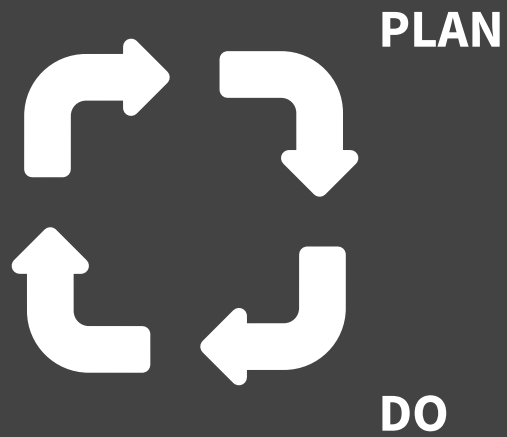
Refine
Review
Retrospect
Repeat

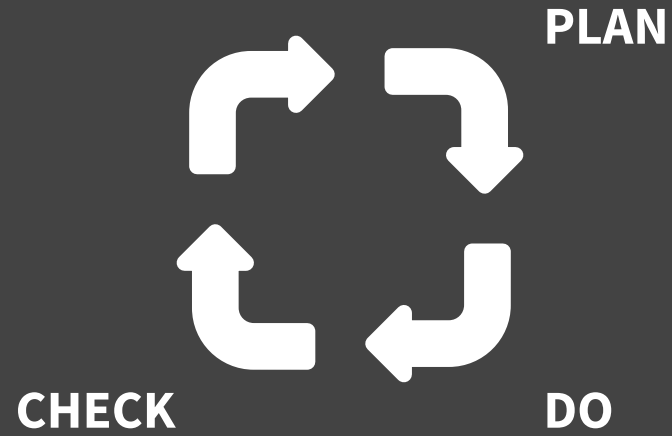


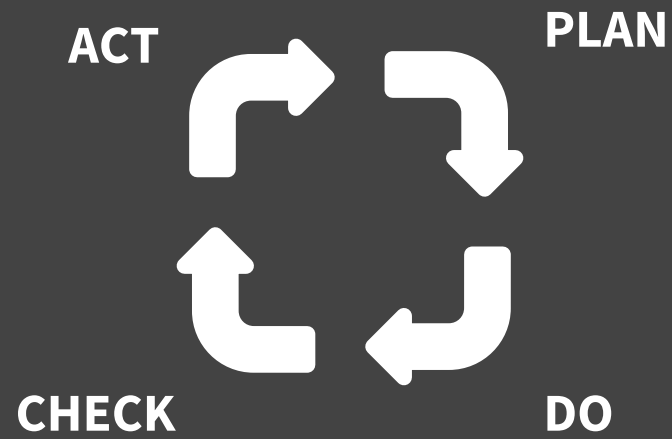


PLAN









What's next?

Backlog Health • Backlog Grooming

Planning Poker • Affinity Estimation

The cone of uncertainty • Iteration Goals/Objectives

Negotiating Scope • Acceptance Criteria

ATDD • Spikes/Investigations



Q&A



Thanks!

