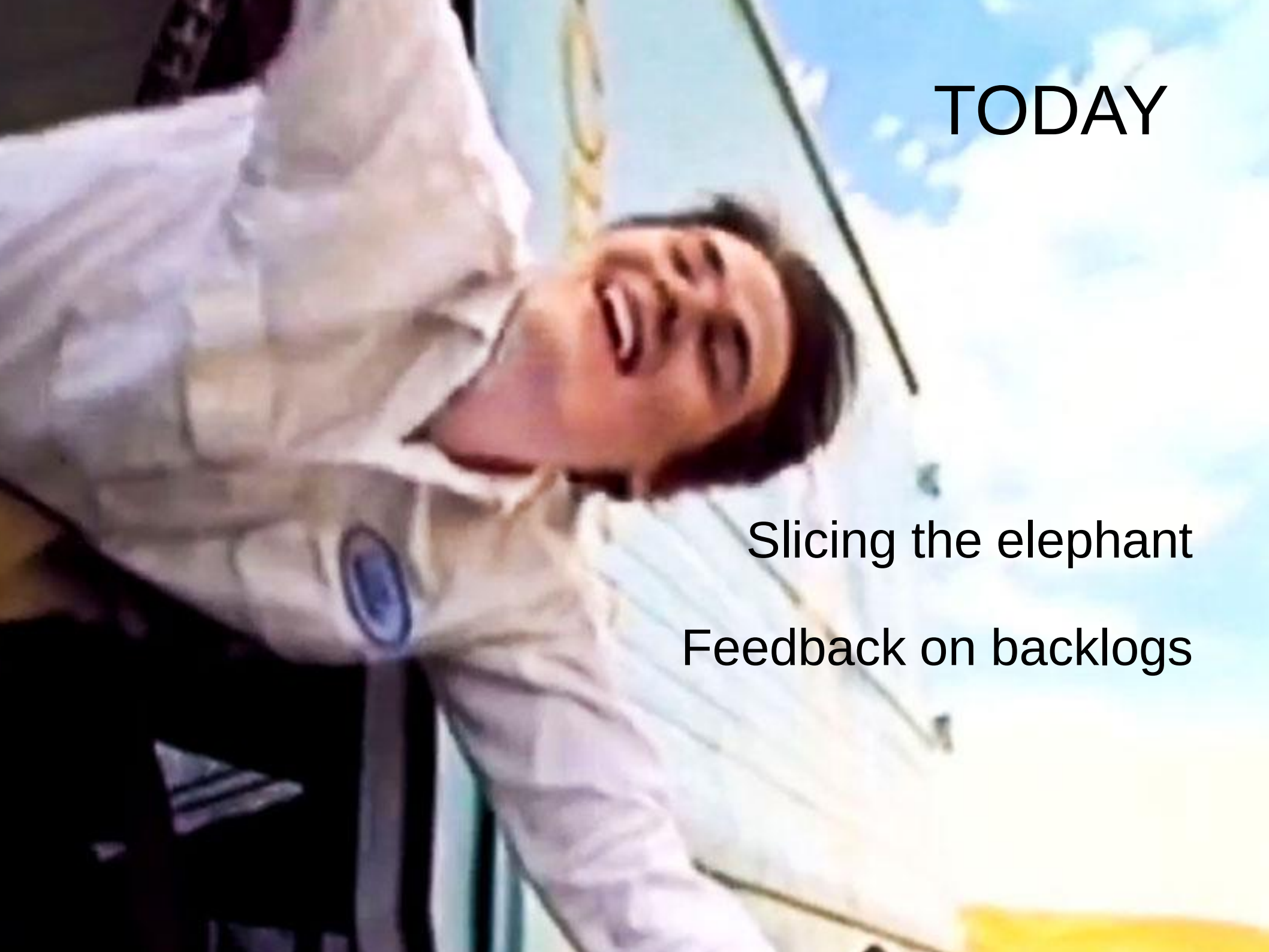
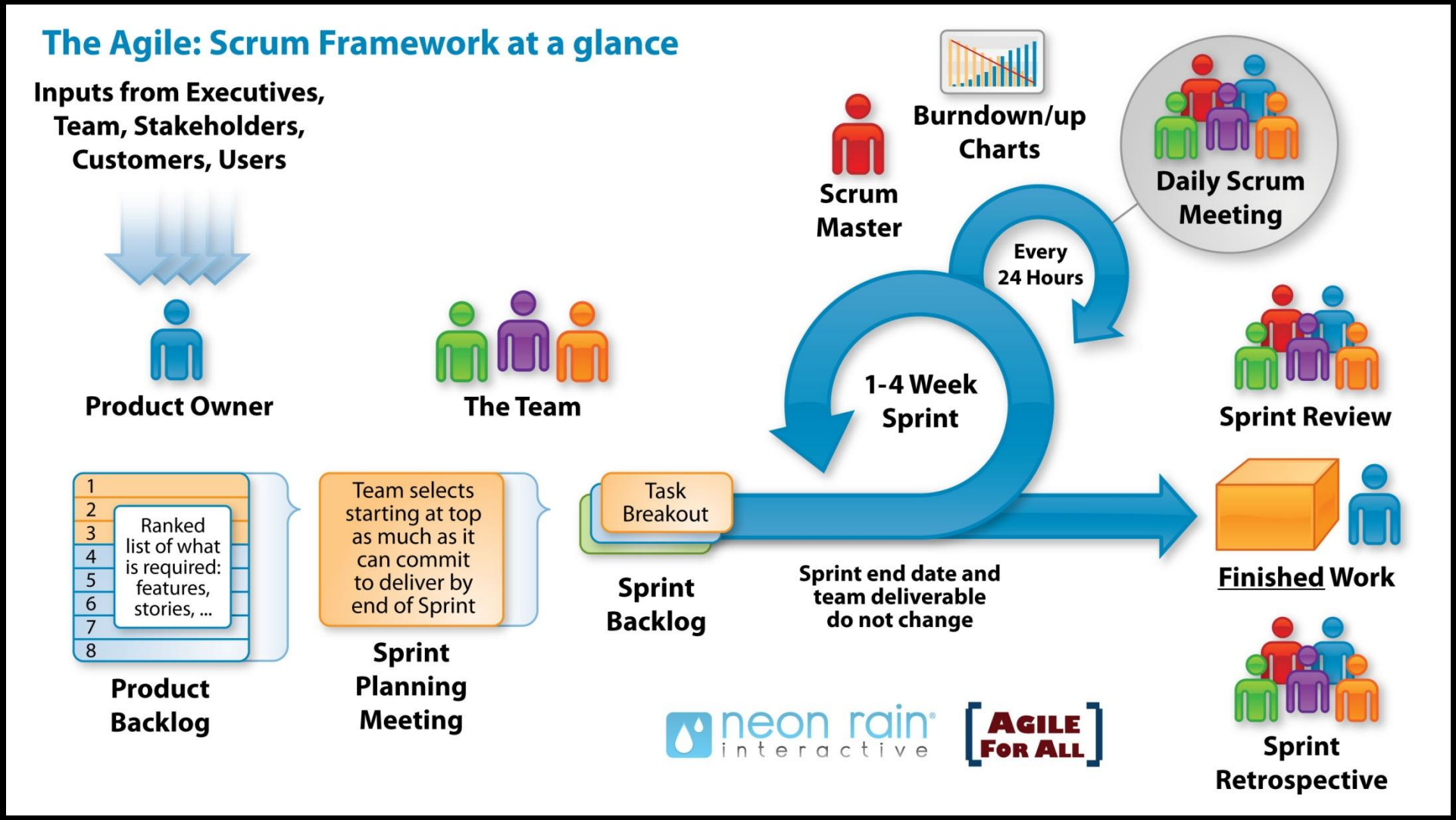
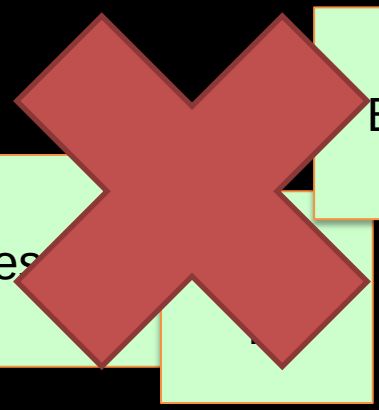
DAT255 / DIT543
SOFTWARE ENGINEERING PROJECT


TODAY
Slicing the elephant
Feedback on backlogs

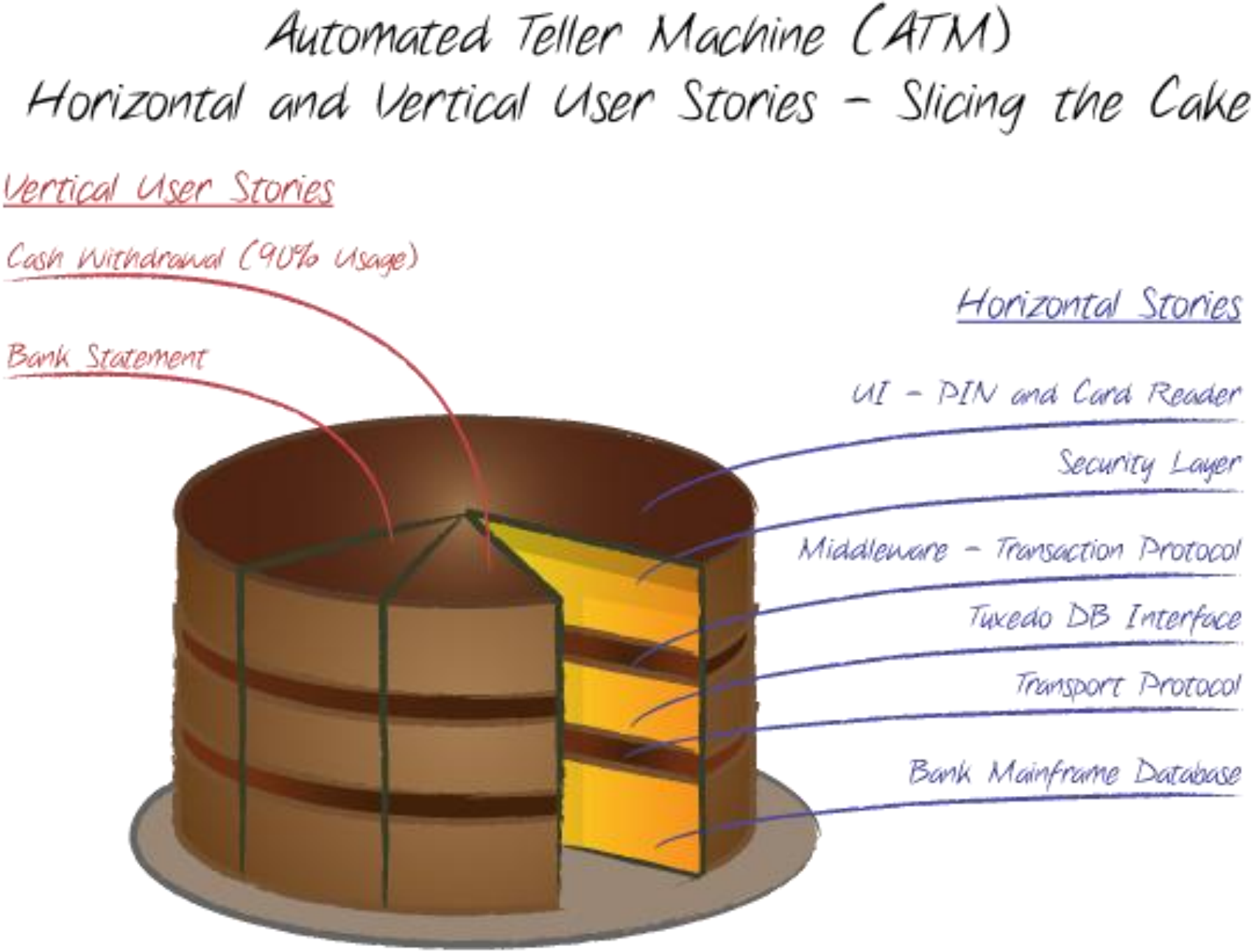
SCRUM


The Agile: Scrum Framework at a glance
Inputs from Executives, Team, Stakeholders, Customers, Users
Product Owner
The Team
Scrum Master
Burndown/up Charts
Daily Scrum Meeting
Every 24 Hours
1-4 Week Sprint
Sprint Review
1
2
3
4
5
6
7
8
Ranked list of what is required: features, stories, ...
Product Backlog
Team selects starting at top as much as it can commit to deliver by end of Sprint
Sprint Planning Meeting
Task Breakout
Sprint Backlog
Sprint end date and team deliverable do not change
Finished Work
Sprint Retrospective
neon rain interactive
AGILE FOR ALL

STORIES	TODO
As a student, I want to purchase a parking pass so that I can drive to school.	Coding, Tes, Build, Demo
As a student, I want to purchase a parking pass so that I can drive to school.	Integrate parking pass into datamodel, Create connection to payment service, Design GUI for purchase process, Define parking pass validation scheme

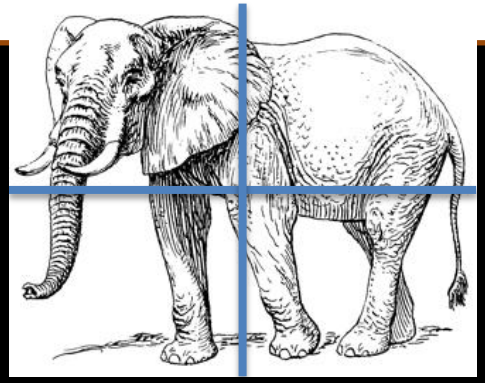


SLICING



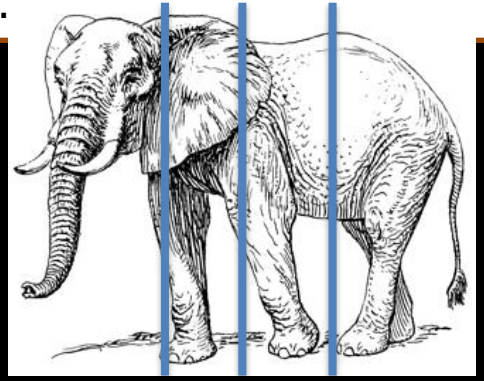
http://www.deltamatrix.com/horizontal-and-vertical-user-stories-slicing-the-cake

As a student, I want to purchase a parking pass so that I can drive to school.



- Integrate parking pass into datamodel
- Create connection to payment service
- Design GUI for purchase process
- Define parking pass validation scheme

As a student, I want to purchase a parking pass so that I can drive to school.



- Implement purchase process without payment
- Integrate payment into the purchase process
- Allow users to see their past orders
- Define parking pass validation scheme

ELEPHANT CARPACCIO

Vision: Retail calculator – calculate prices for delivery to other countries
Three Inputs:

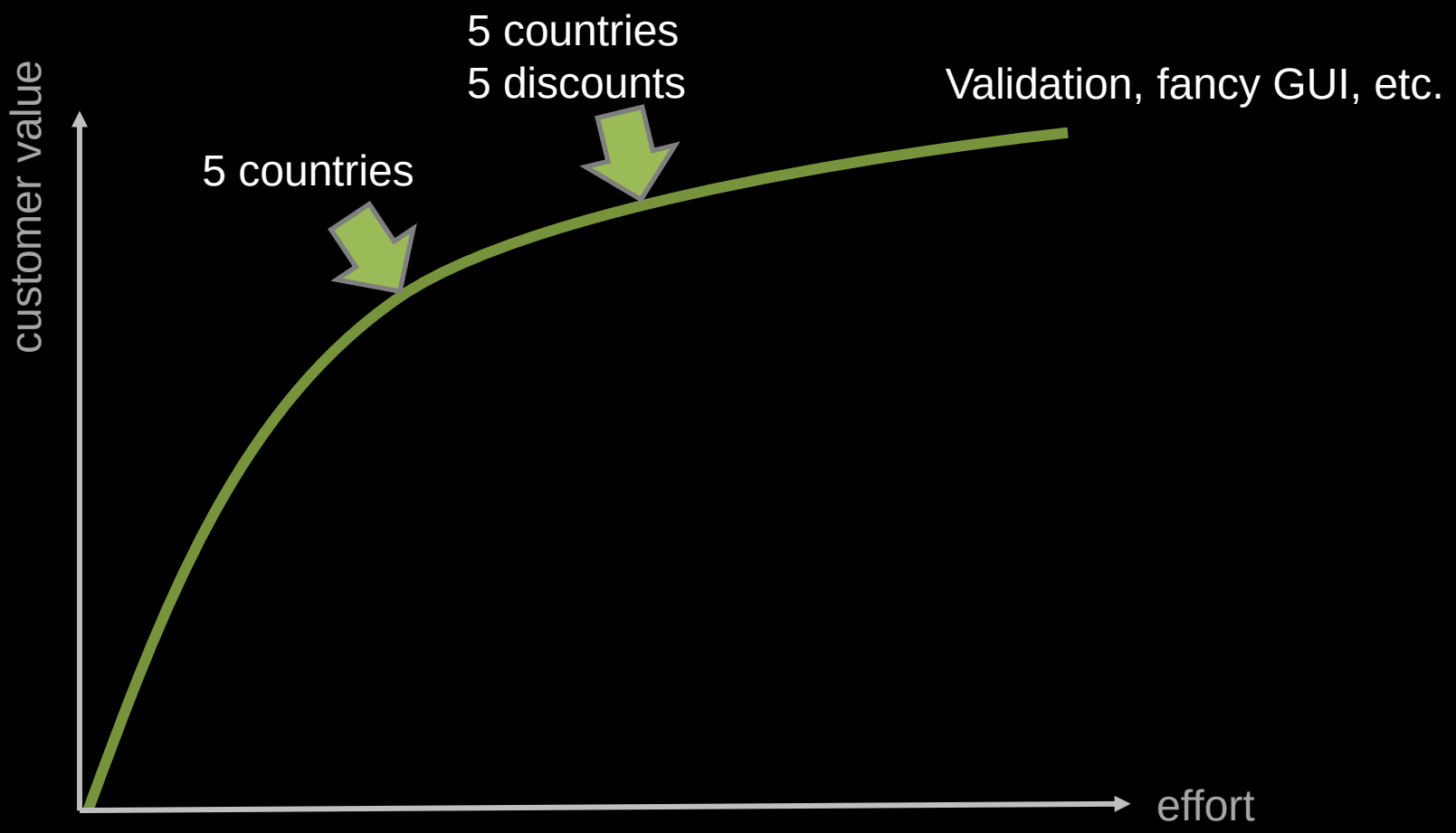
1. How many items
2. Price per item
3. 2-letter country code

Output: total price of the order.
Algorithm: Give a discount based on total price,
then add state tax based on country code
and discounted price.

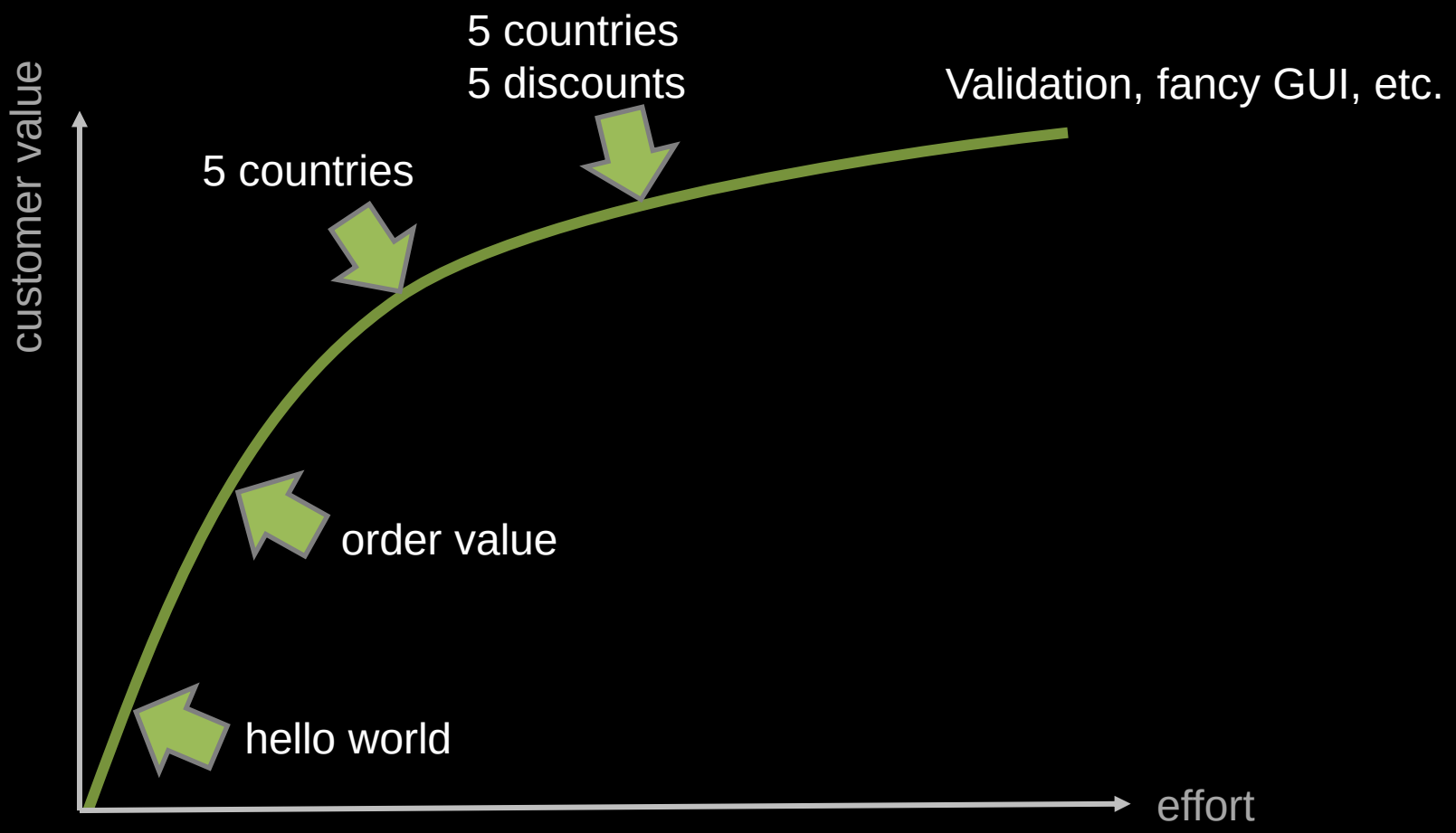
Slice user stories as small as possible!

Country	VAT
Belgium (BE)	21%
Germany (DE)	19%
Hungary (HU)	27%
Sweden (SE)	25%
United Kingdom (UK)	20%

Amount	Discount
10.000 SEK	2%
50.000 SEK	3%
100.000 SEK	5%
200.000 SEK	8%
500.000 SEK	10%



- Split "5 states, 5 discounts" into as many slices as possible
- Each slice must have UI, input & output, and be visibly different from last slice



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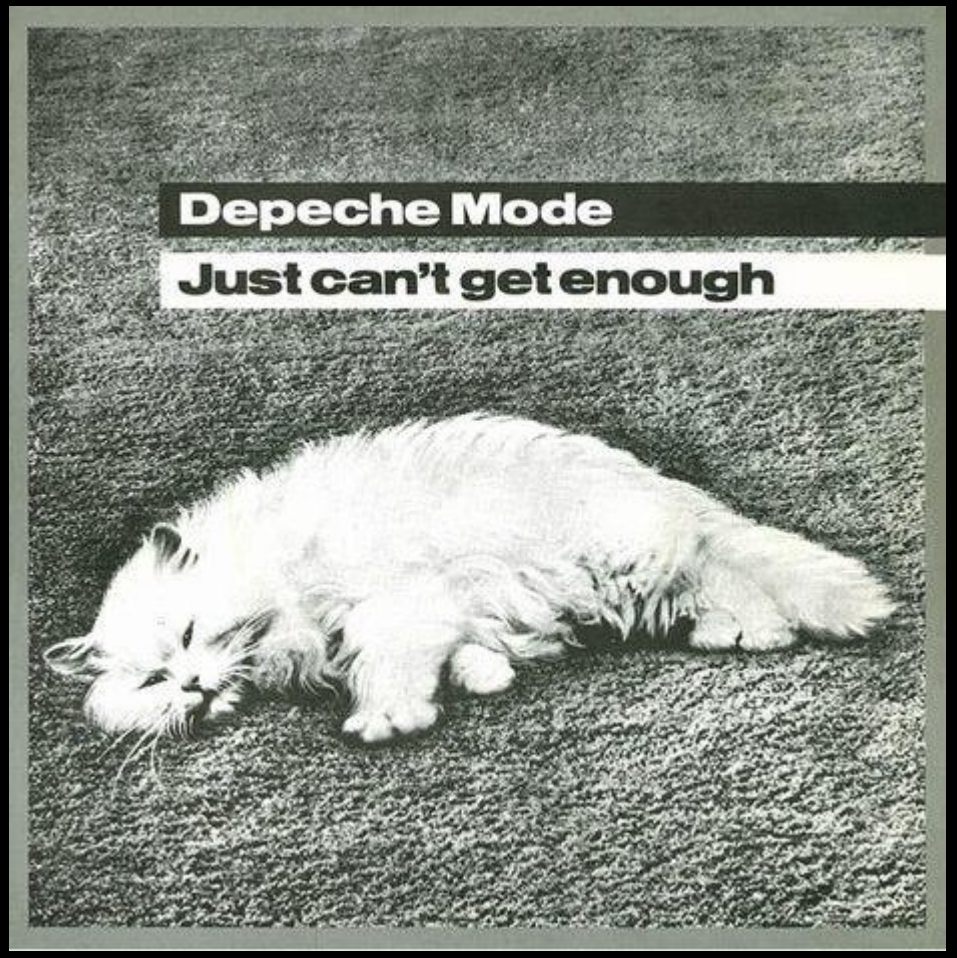
http://scrumtrainingseries.com/
Series of webinars on different Scrum topics (with quiz!)

https://scrumalliance.org/community
Articles about Scrum in practice

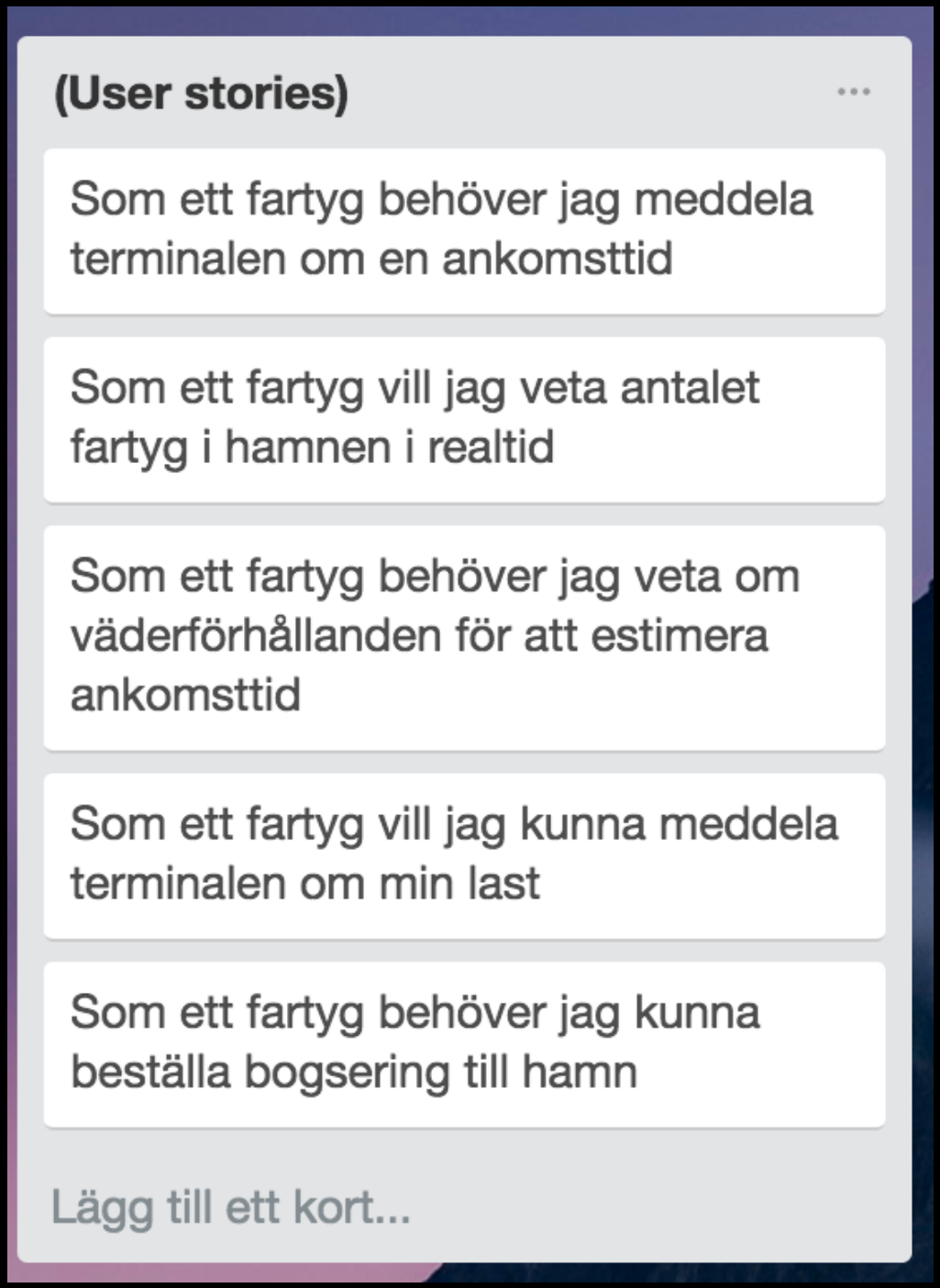
http://www.solutionsiq.com/what-is-scrumban/
Discusses combining Scrum and Kanban

http://scrumandkanban.co.uk/slicing-stories-vertically/
A chart on splitting user stories

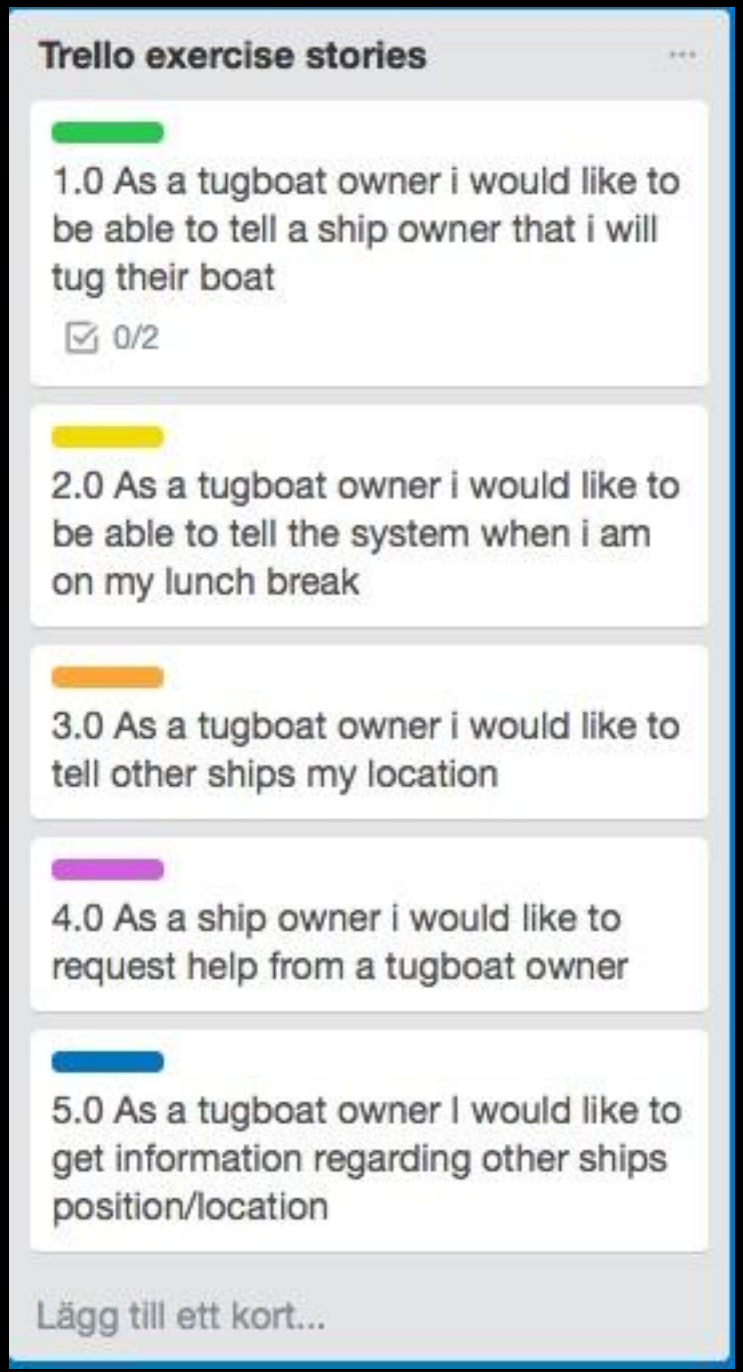


[Cohn, 2005] Mike Cohn. *Agile Estimating and Planning*. Prentice Hall, November 2005

[Buglione & Abran, 2013] Buglione, Luigi, and Alain Abran. *Improving the user story agile technique using the invest criteria*. Eighth International Conference on Software Process and Product Measurement (IWSM-MENSURA), IEEE, 2013.



I	Independent
N	Negotiable
V	Valuable
E	Estimable
S	Small
T	Testable



I	Independent
N	Negotiable
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I	Independent	User stories should not overlap and they should be formulated so they can be implemented in any order.
N	Negotiable	A user story should be an invitation for a conversation. It can be changed, augmented, and redacted; of course, always in dialog with the Product Owner!
V	Valuable	Each user story should deliver value, either to the Product Owner or to Scrum Team.
E	Estimable	It must be possible to assign effort to each user story. A story that can not be estimated is not complete!
S	Small	A user story must be a manageable task. If its completion takes longer than 3 or 4 days, it must be broken down!
T	Testable	There must be clear, testable criteria to define when the story is done in the eyes of the Product Owner and the Scrum Team.

[Buglione & Abran, 2013]

http://xp123.com/articles/invest-in-good-stories-and-smart-tasks/

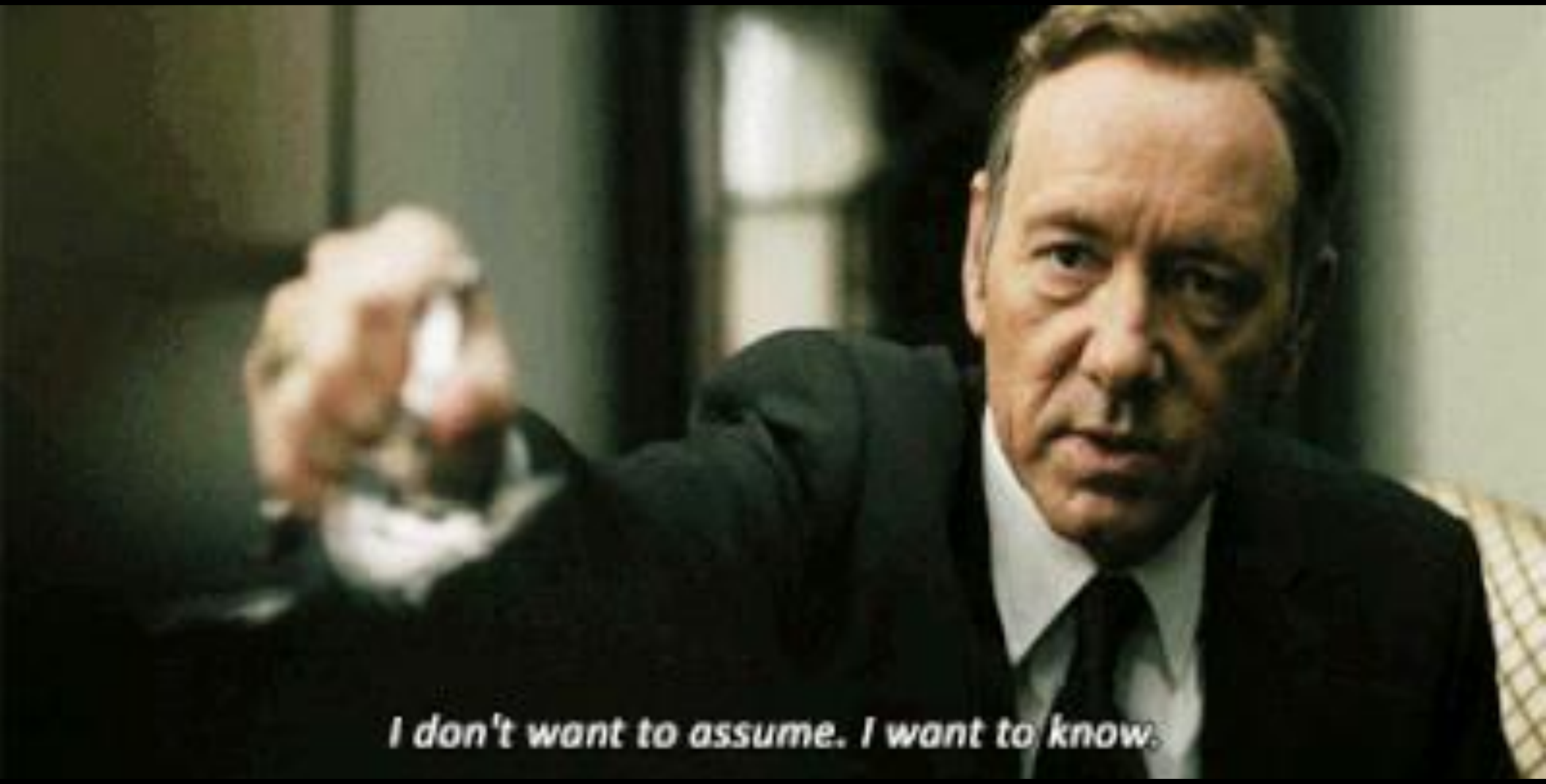
Vertical slices!

INVEST criteria!

Priorisation!

Definition of Done!

Difference between Product and Sprint Backlog!


I don't want to assume. I want to know.

REALITY CHECK

What was the purpose of the lecture?
Which learning objectives were covered? How?
What was the relationship to the course assessment?

QA

'Questions don't have to make sense, Vincent', said Miss Susan.

'But answers do'

Terry Pratchett
Thief of Time, 2001