DESIGN THINKING, SECURITY, AND YOUR LIFE

DECSECOPS DAYS

Alex Cowan

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WHO AM I?

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WHAT IS DEVSECOPS?

INDIVIDUALS INTERACTIONS	>	PROCESSES TOOLS
WORKING SOFTWARE	>	COMPREHENSIVE DOCUMENTATION
CUSTOMER COLLABORATION	>	CONTRACT NEGOTIATION
RESPONDING TO CHANGE	>	FOLLOWING A PLAN

Source: adapted from 'Manifesto for Agile Software Development'

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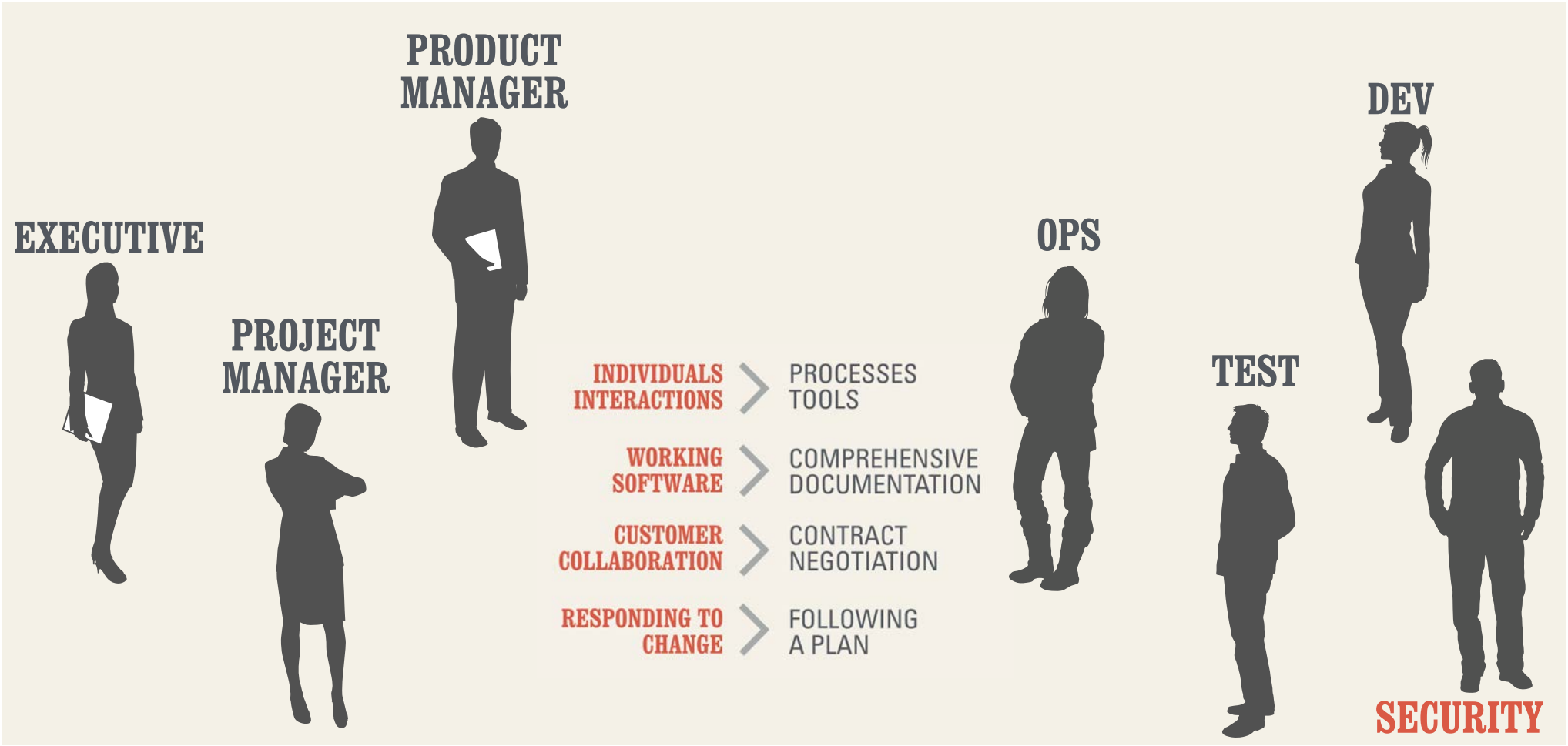
WHAT IS DEVSECOPS?



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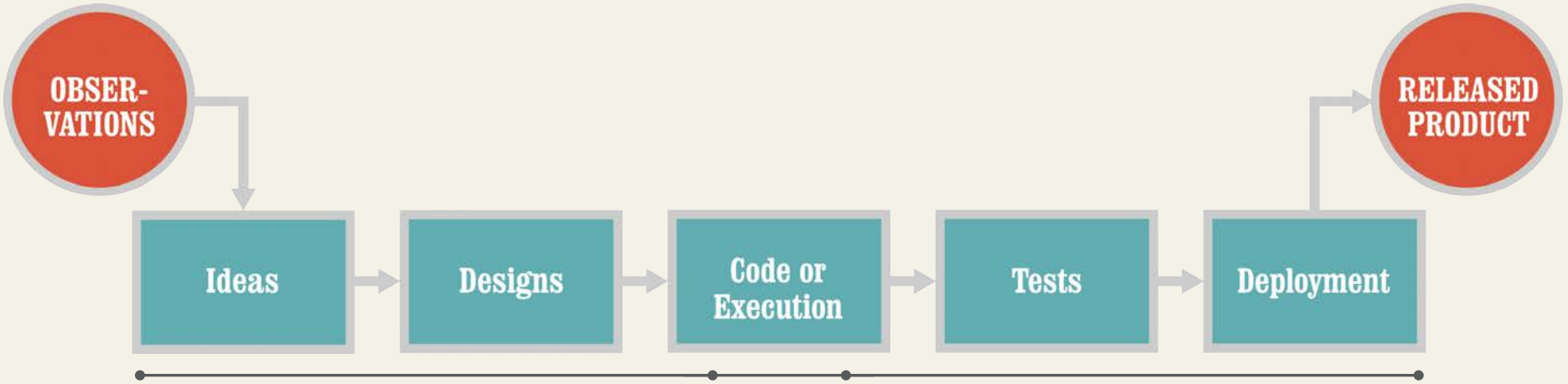
HOW DO YOU DEVSECOPS?



Continuous Design

Features w/ High Engagement
Total Features Released

Agile Development

Total Features Released

Continuous Delivery

Frequency of Releases

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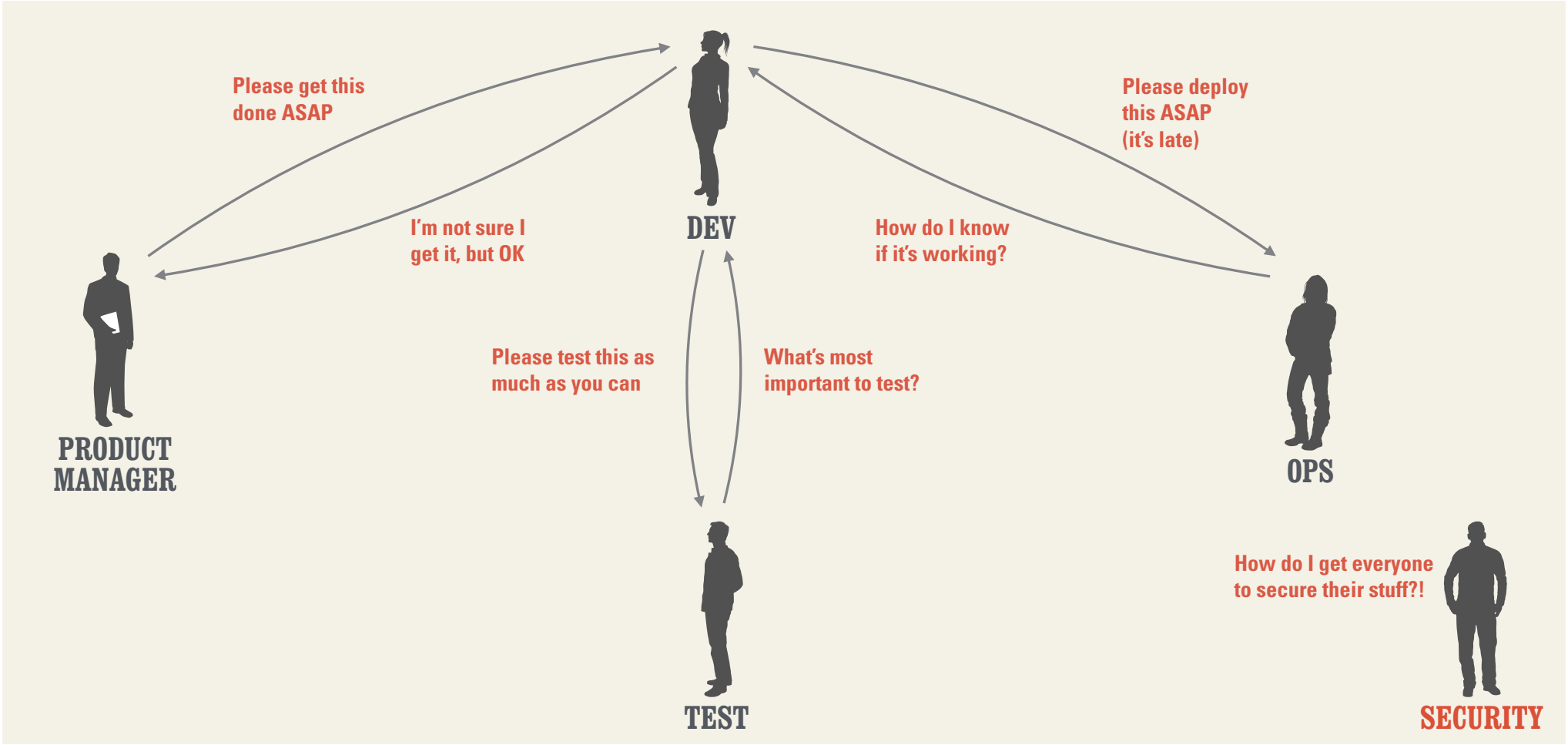
HOW DO YOU DEVSECOPS?



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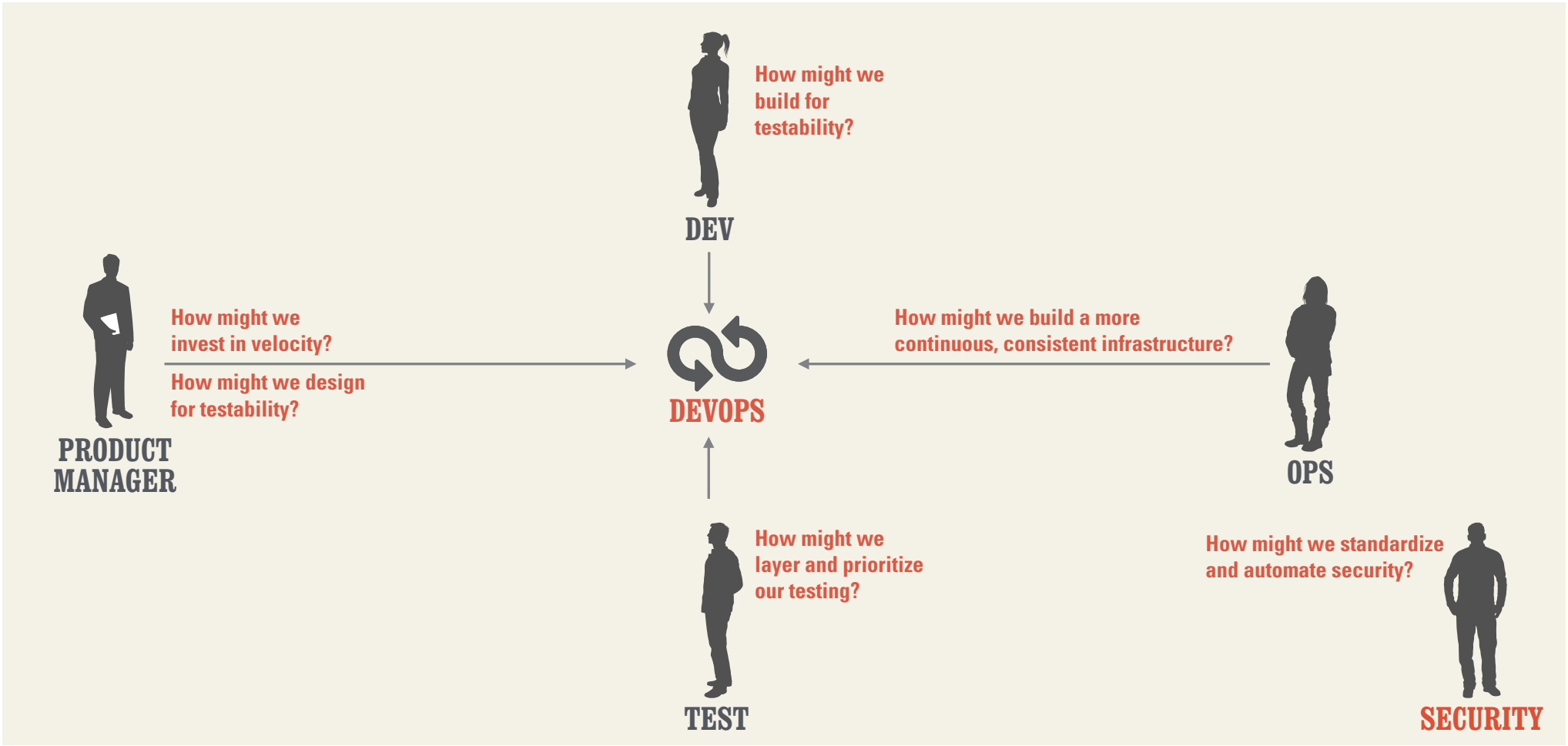
HOW DO YOU DEVSECOPS?



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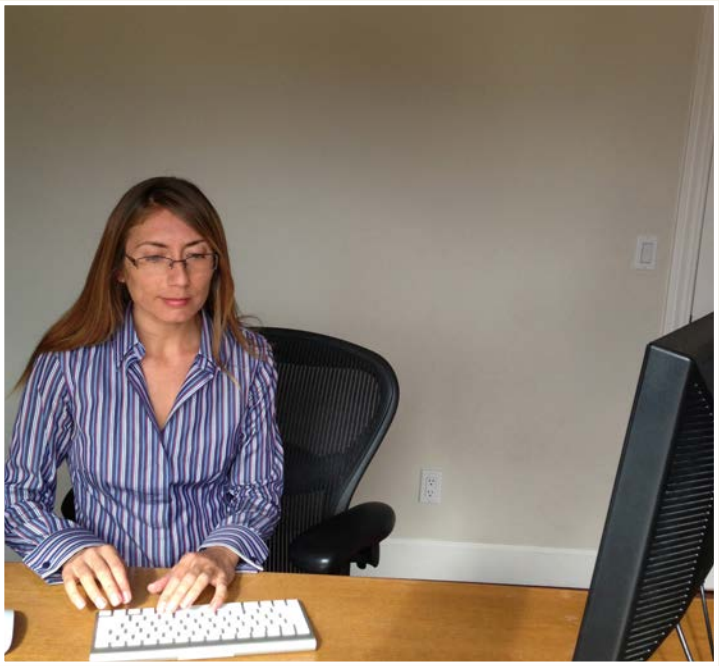
WHO IS PAULA THE PRODUCT MANAGER?



WHAT'S IMPORTANT?

a) Finding product/market fit
b) Driving focused collaboration

WHAT'S HARD?

a) Managing uncertainty
b) Making time to test ideas
c) Security

WHERE ARE WINS?

a) Init HDD

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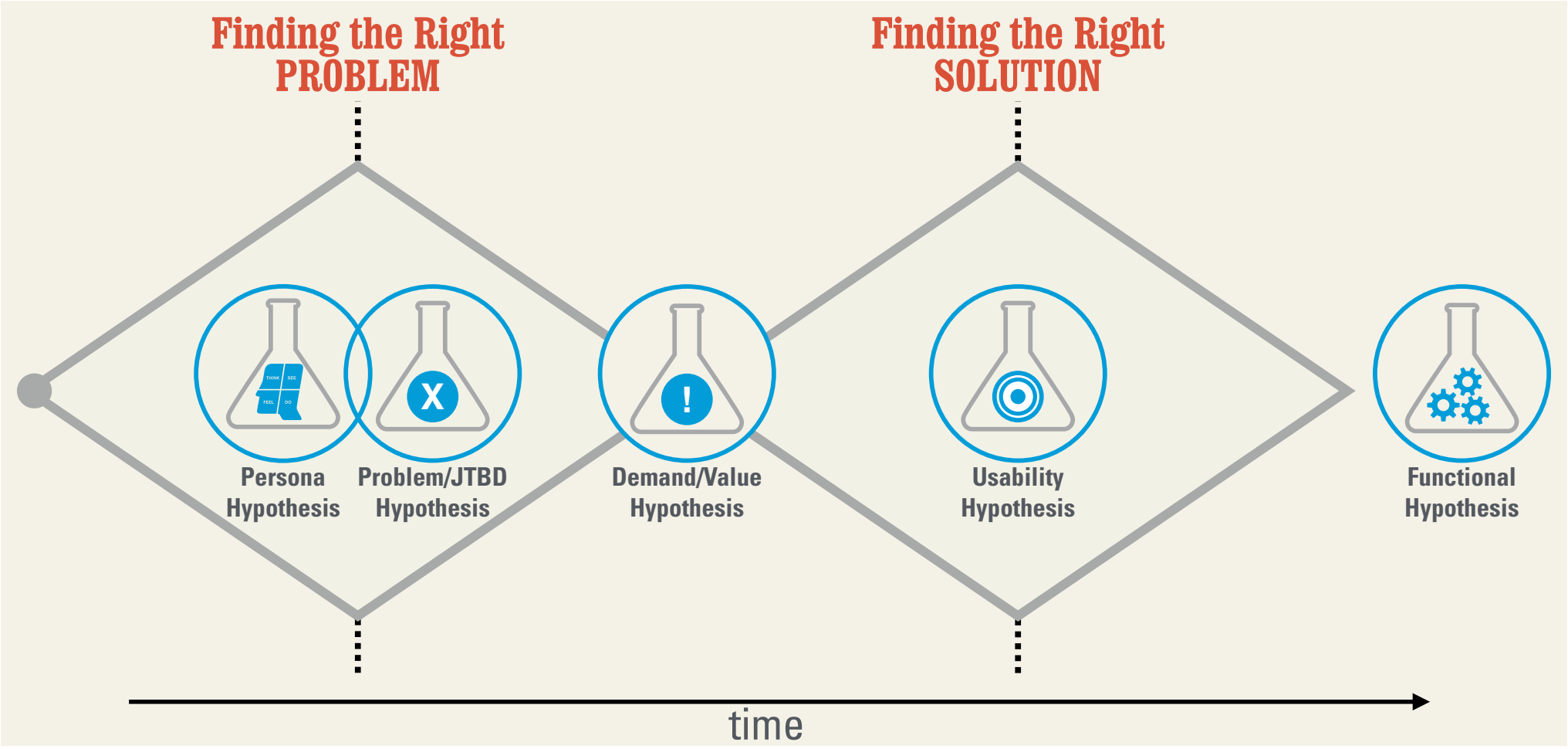
HOW DO YOU DO HYPOTHESIS-DRIVEN DEVELOPMENT?



Source: adapted from 'The Design of Everyday Things'

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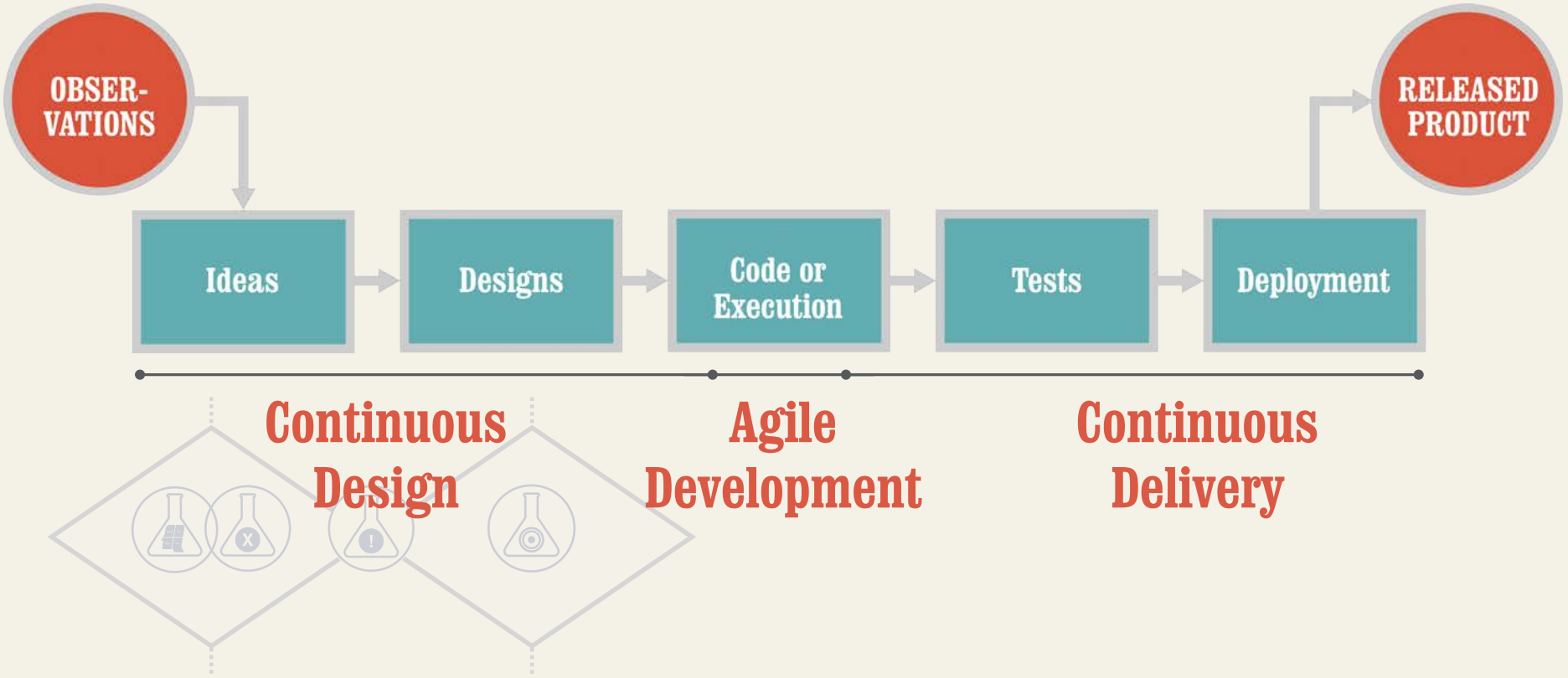
HOW DO YOU DO HYPOTHESIS-DRIVEN DEVELOPMENT?



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WHO IS DANA THE DEVELOPER?

WHAT'S IMPORTANT?

a) Connecting the dots
b) Managing change
c) Aligning with infrastructure

WHAT'S HARD?

a) 'Changing requirements'
b) Making time to test
c) Security

WHERE ARE WINS?

a) Init TDD-ish
b) Manage via metrics
c) Help build the infrastructure

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HOW DO YOU WRITE TESTABLE USER STORIES?

EPIC STORY

'As Trent the HVAC technician, I want to know the pricing and availability of a part that needs replacing so I can decide my next steps.

CHILD STORIES

A) 'I know the part number and I want to find it on the system so I can find out its price and availability.'

B) …

ANALYTICS

How often is this search used per transaction relative to the alternatives?

How often does this search lead to a part order?

- Searches of this type relative to others
- Sequence of this search relative to other search types
- Conversion to order from this type of search (%)

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WHO IS TREY THE TESTER?

WHAT'S IMPORTANT?

a) Repeatability
b) Automation
c) Adaptation

WHAT'S HARD?

a) Murky prioritization
b) Making time to automate
c) Security

WHERE ARE WINS?

a) Standardization
b) Automation
c) Self-service

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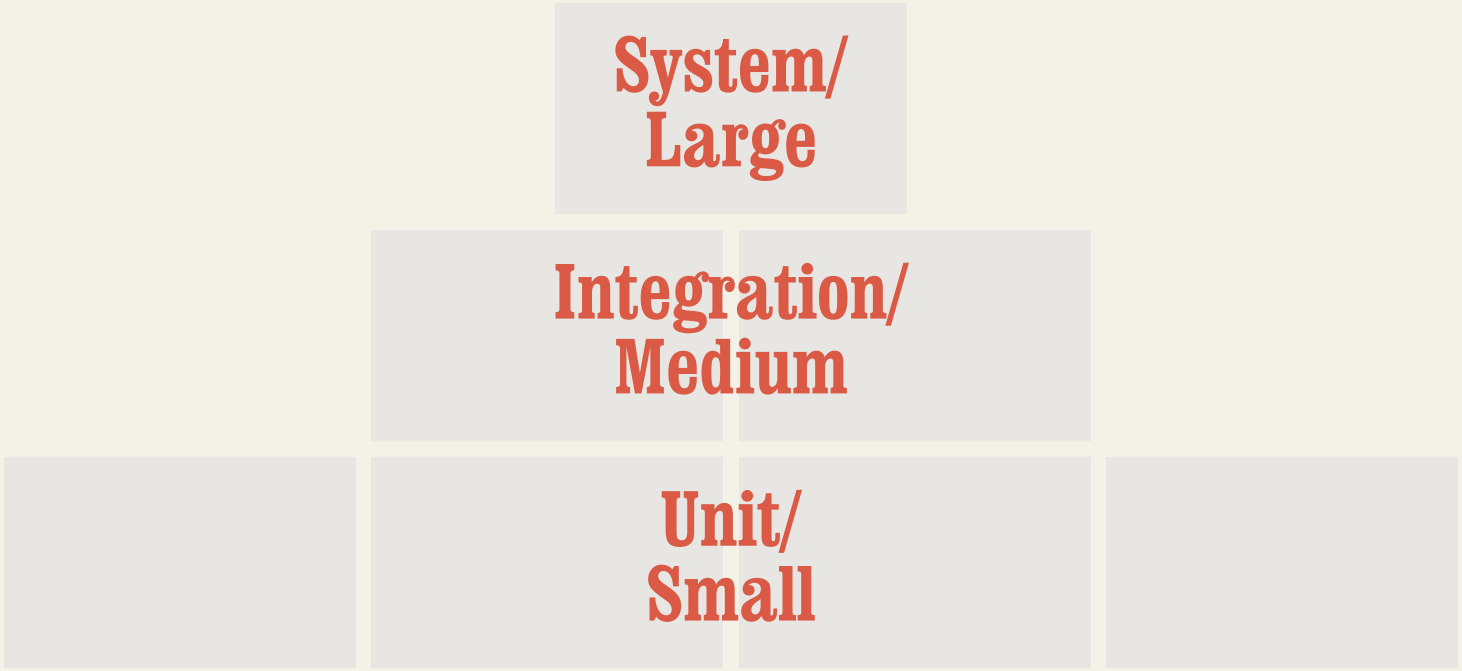
HOW DO YOU LAYER TEST INVESTMENTS?



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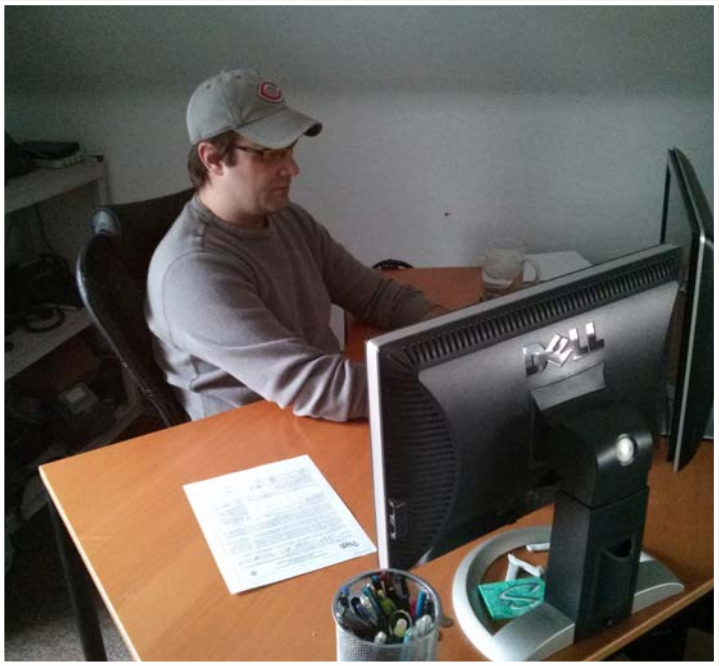
WHO IS ESTEBAN THE OPS ENGINEER?



WHAT'S IMPORTANT?

a) Stability
b) Standardization
c) Automation

WHAT'S HARD?

a) Taming the beast
b) Making time to automate
c) Security

WHERE ARE WINS?

a) Standardization
b) Automation
c) Self-service

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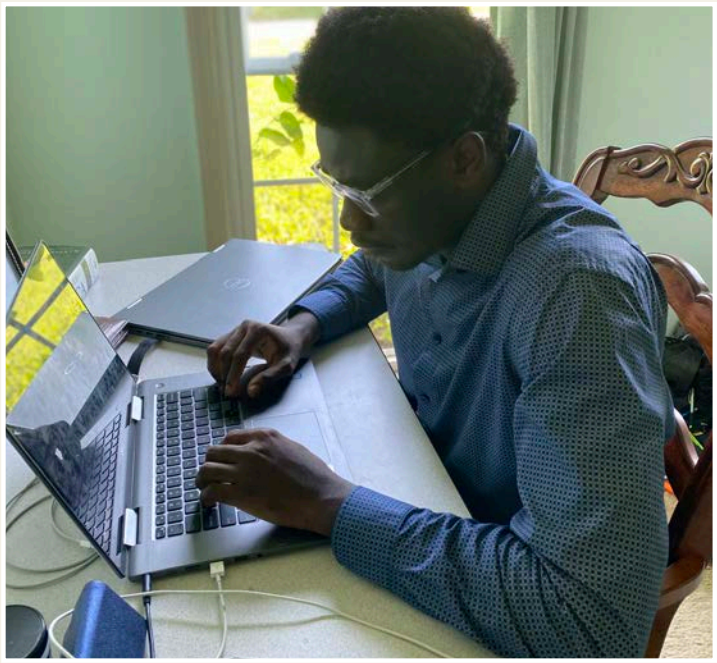
WHO IS STEVE THE SECURITY ENGINEER?



WHAT'S IMPORTANT?

a) Security
b) Security
c) Security

WHAT'S HARD?

a) All the little places
b) Getting into the picture
c) Security

WHERE ARE WINS?

a) Standardization
b) Automation
c) Self-service

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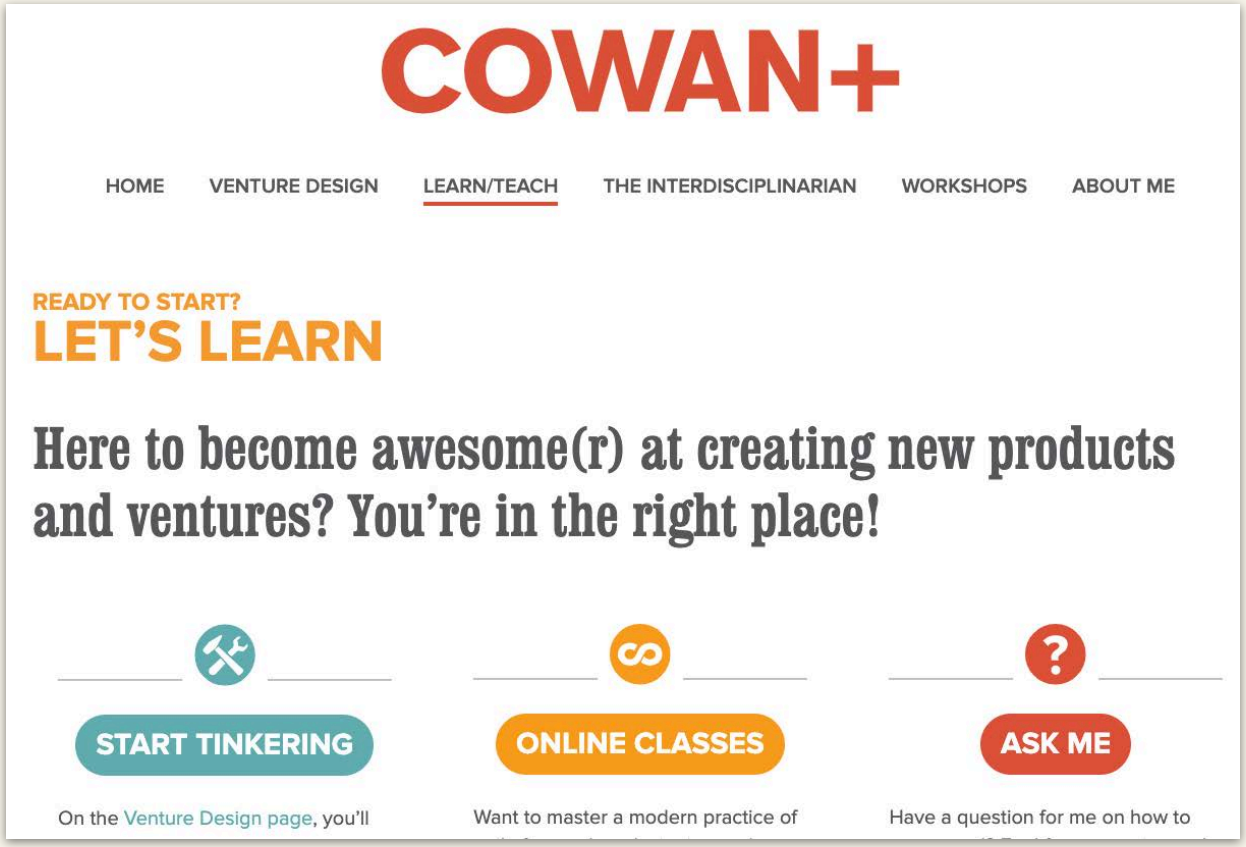
WHERE'S MY STUFF?



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