



Improve
QUALITY SERVICES

Capturing Agile Requirements by Examples (CARE)

or: How to create software the end-user really CAREs about!

Workshop TestNet 2019



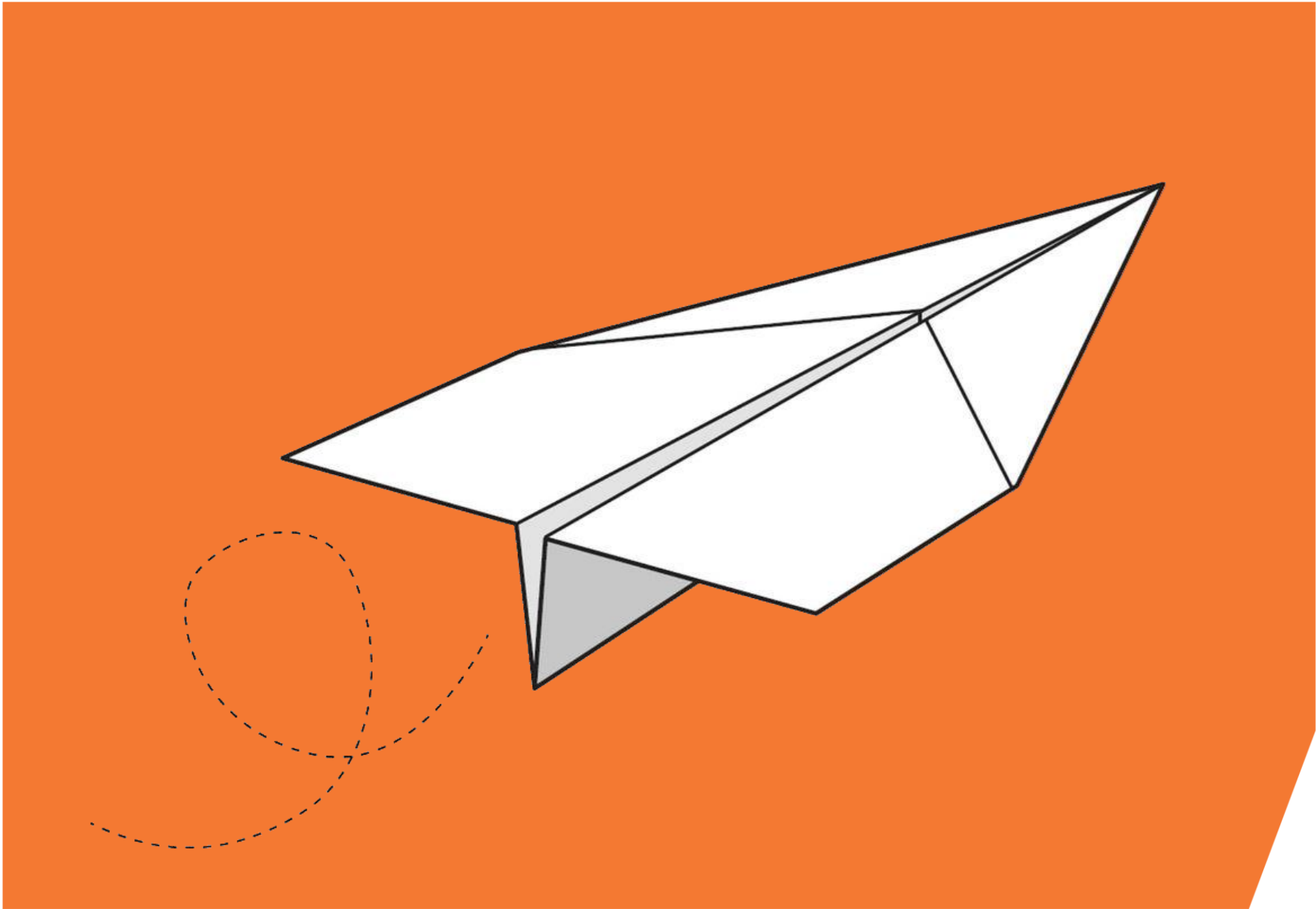
consult.



train.



practice.



Workshop Testnet

' Fear leads to risk,
risk leads to process,
process leads to hate....

and suffering and Gantt charts'



Dan North

Wie?

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Workshop Testnet

- WORKSHOP AFSPRAKEN:
 - Veilige omgeving
 - Wederzijds vertrouwen
 - Respect
- DOEL: Agile Requirements opstellen als team-effort (en deze inzetten voor (automatische) testuitvoering)



Behaviour Driven Development

Behaviour Driven Development

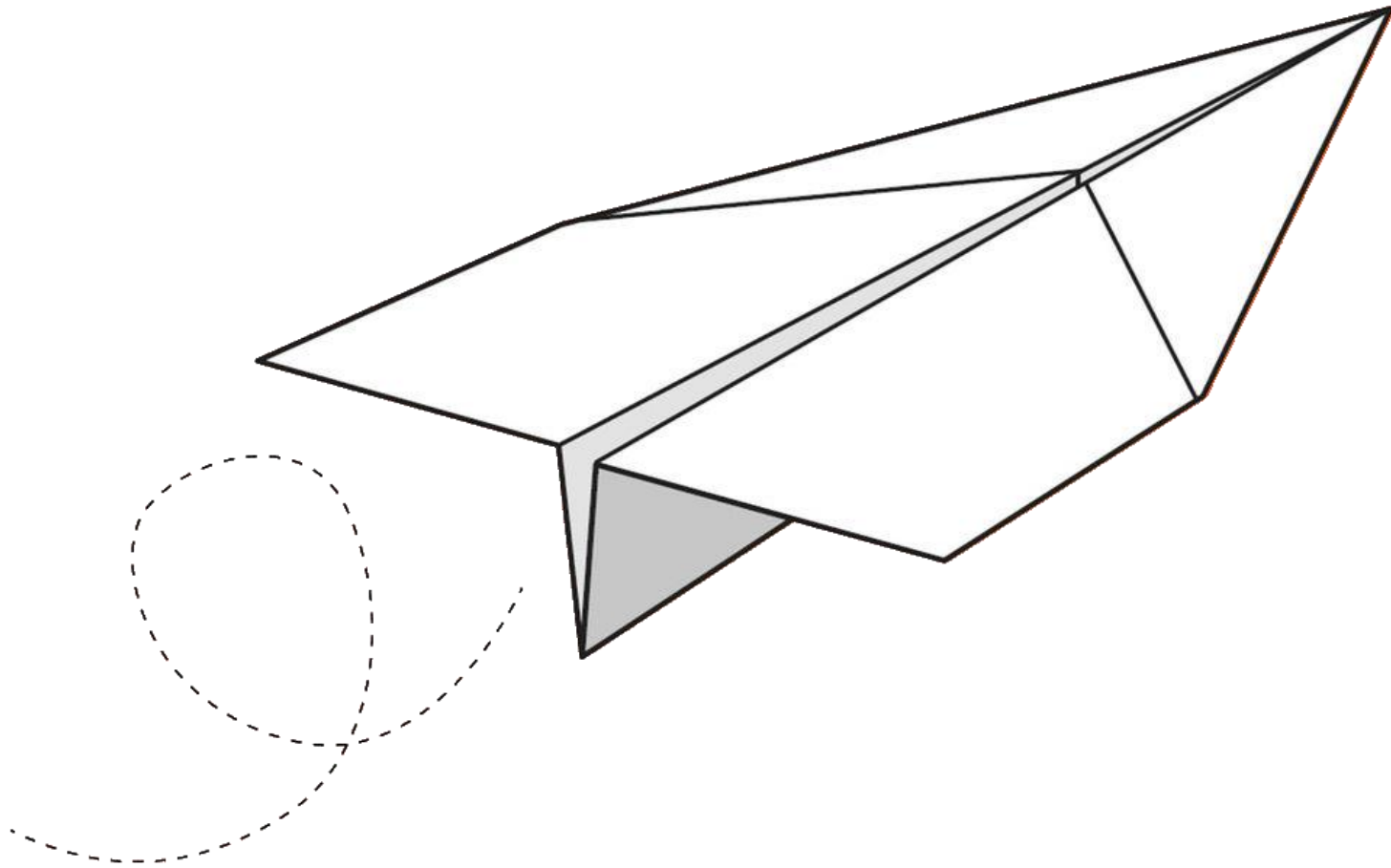
Behaviour vs. Implementation

Behaviour Driven Development

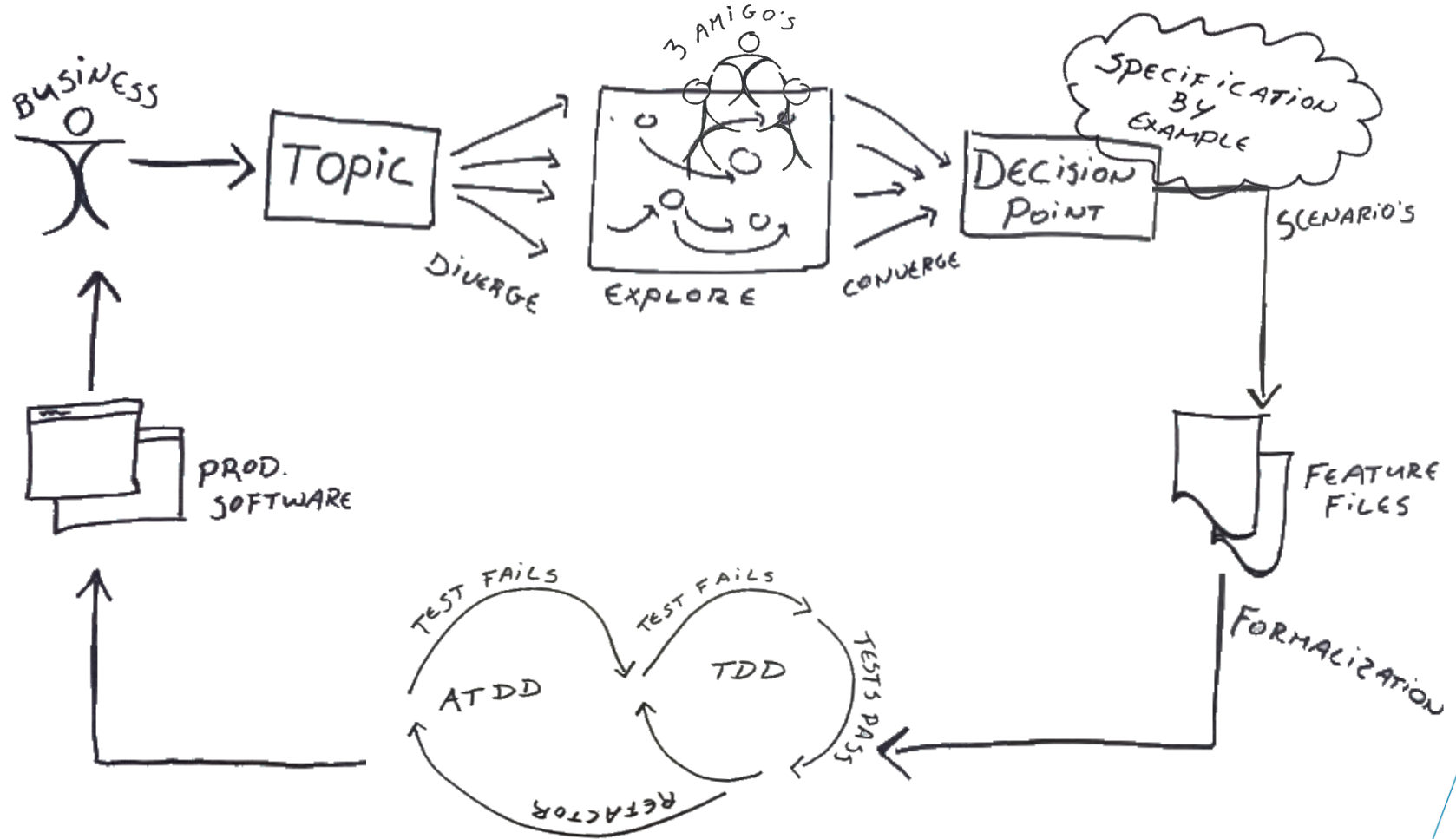
What vs. **How**
to develop to develop it

Wanted, Universal Pictures, 2008

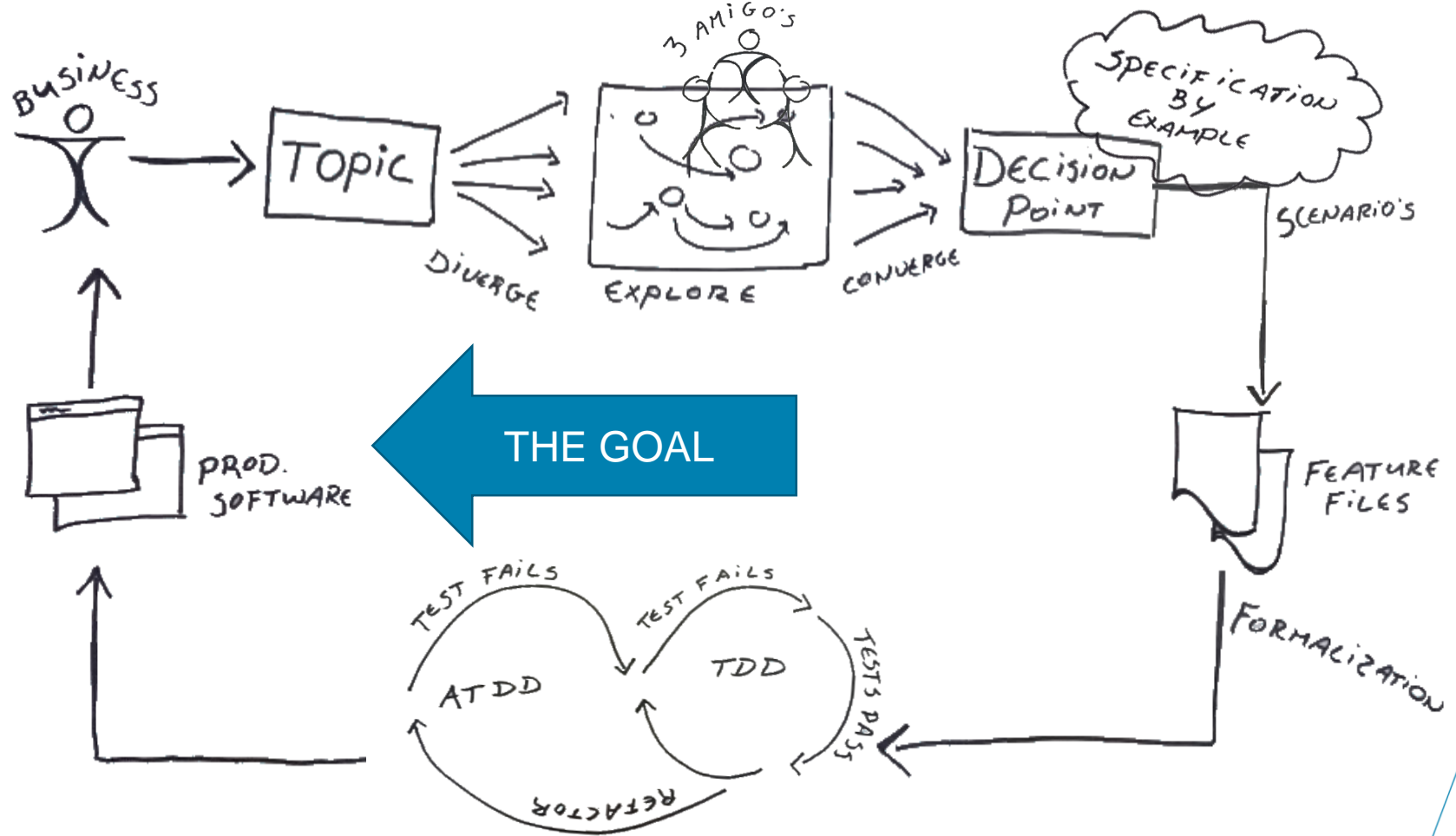
Behaviour Driven Development



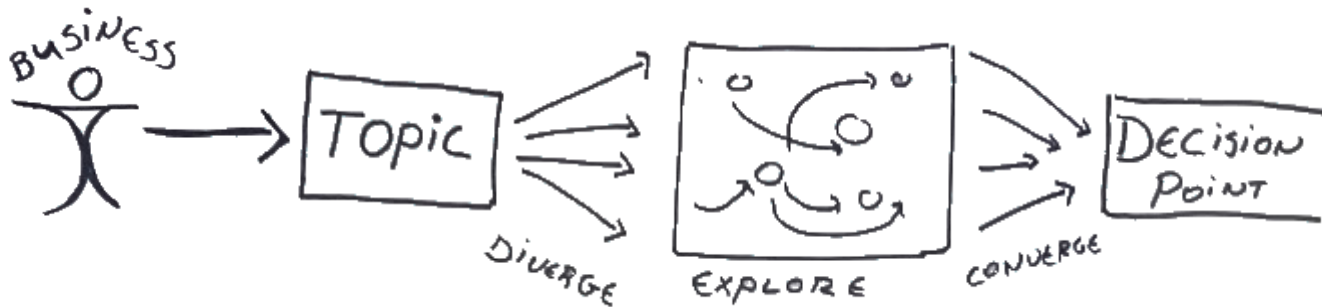
Behaviour Driven Development



Behaviour Driven Development



Event Storming / Impact Mapping



Impact Mapping

Why? → Goal

Who? → Actors

How? → Impact

What? → Deliverables



Gojko Adzic, Impact Mapping (2012) , ISBN: 978-0-9556836-4-0

Why?

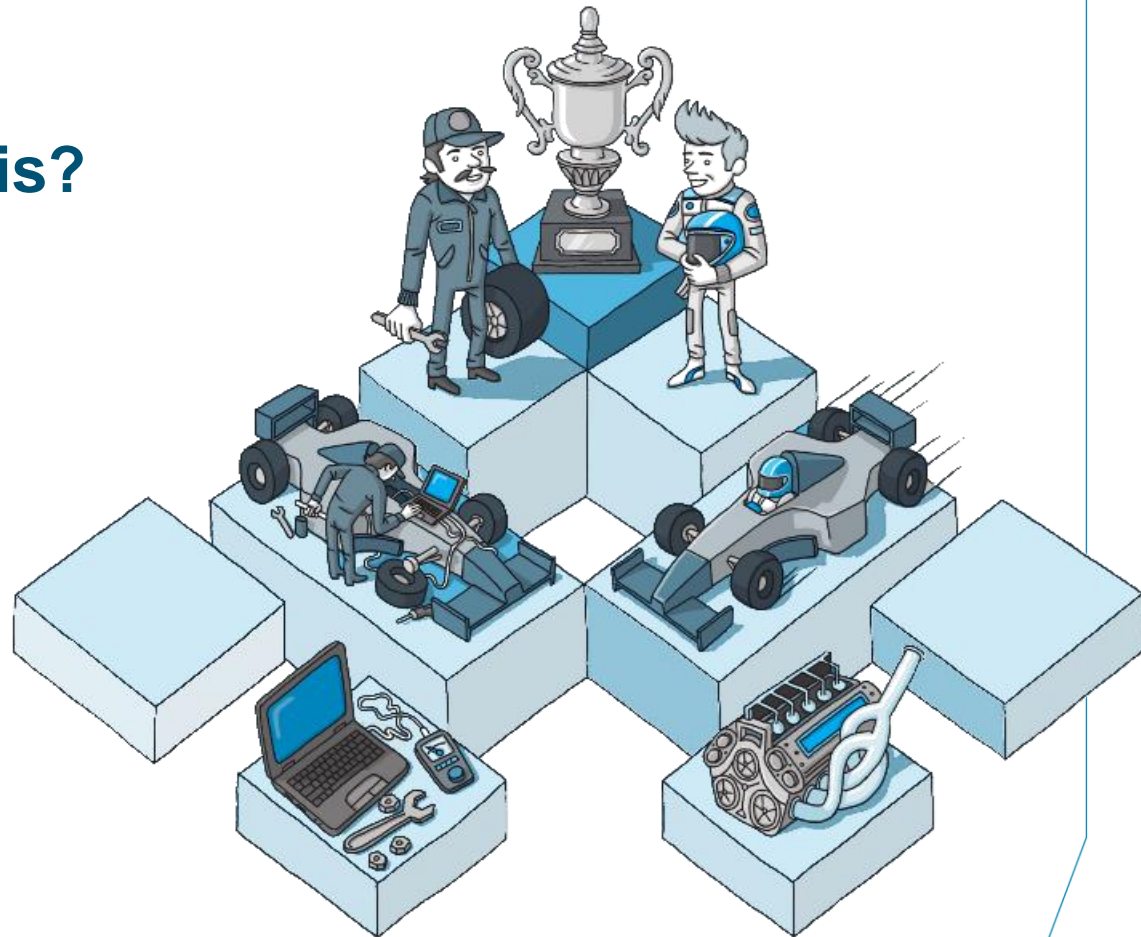
Why are we doing this?

Added Value

Problem to be solved

No design constraints

S.M.A.R.T.



PDF

EXCEL

Who?

Whose Behaviour do we want to impact?

Primary actors

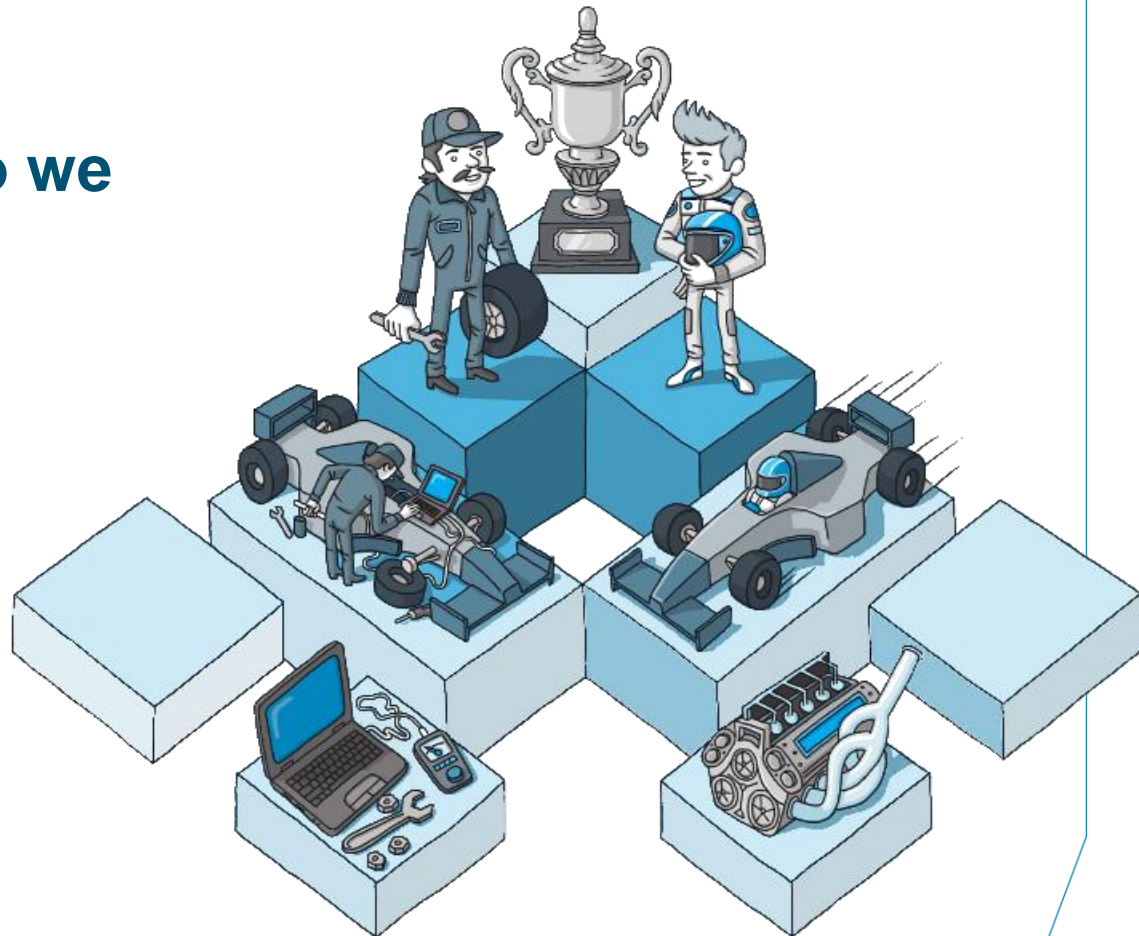
Whose goals are fulfilled

Secondary actors

Who provide services

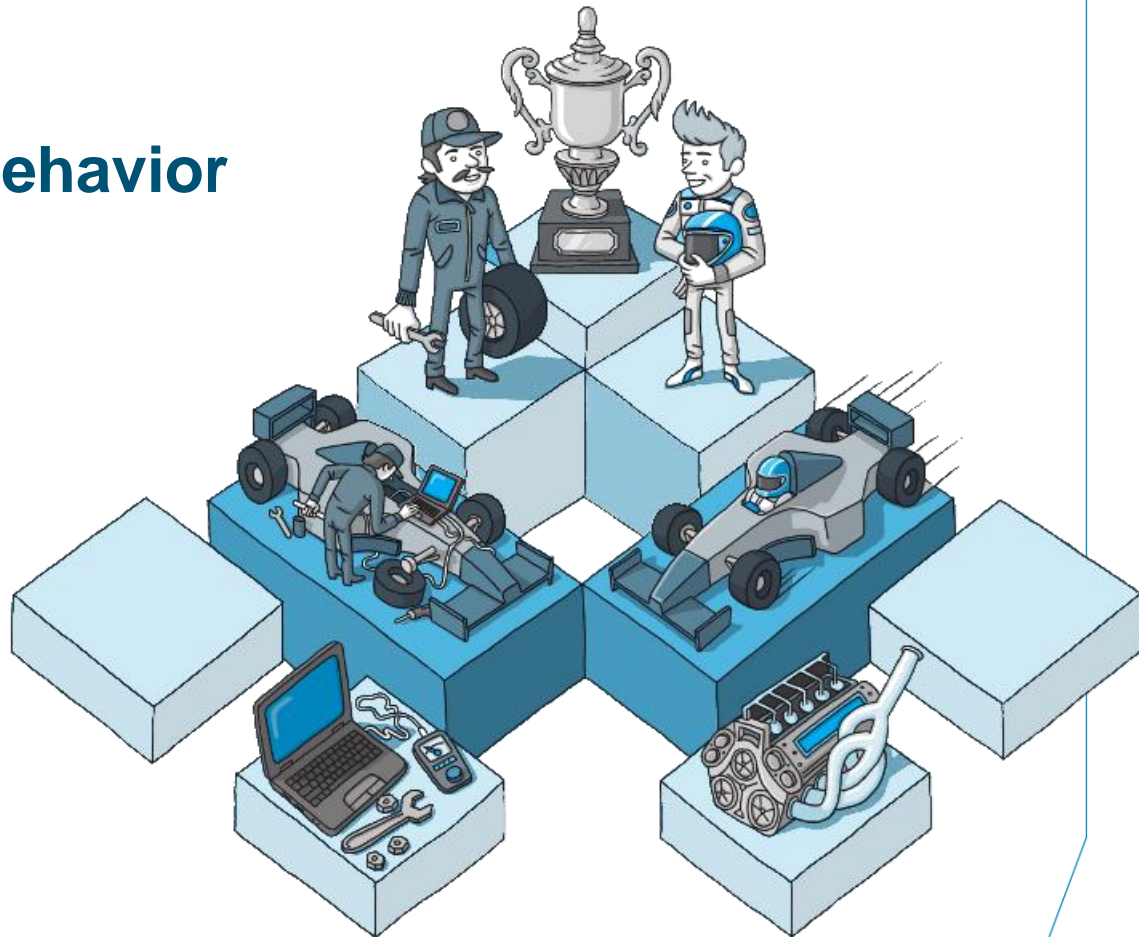
Off-stage actors

Not directly benefiting or providing a service



How?

How should actors behavior change?



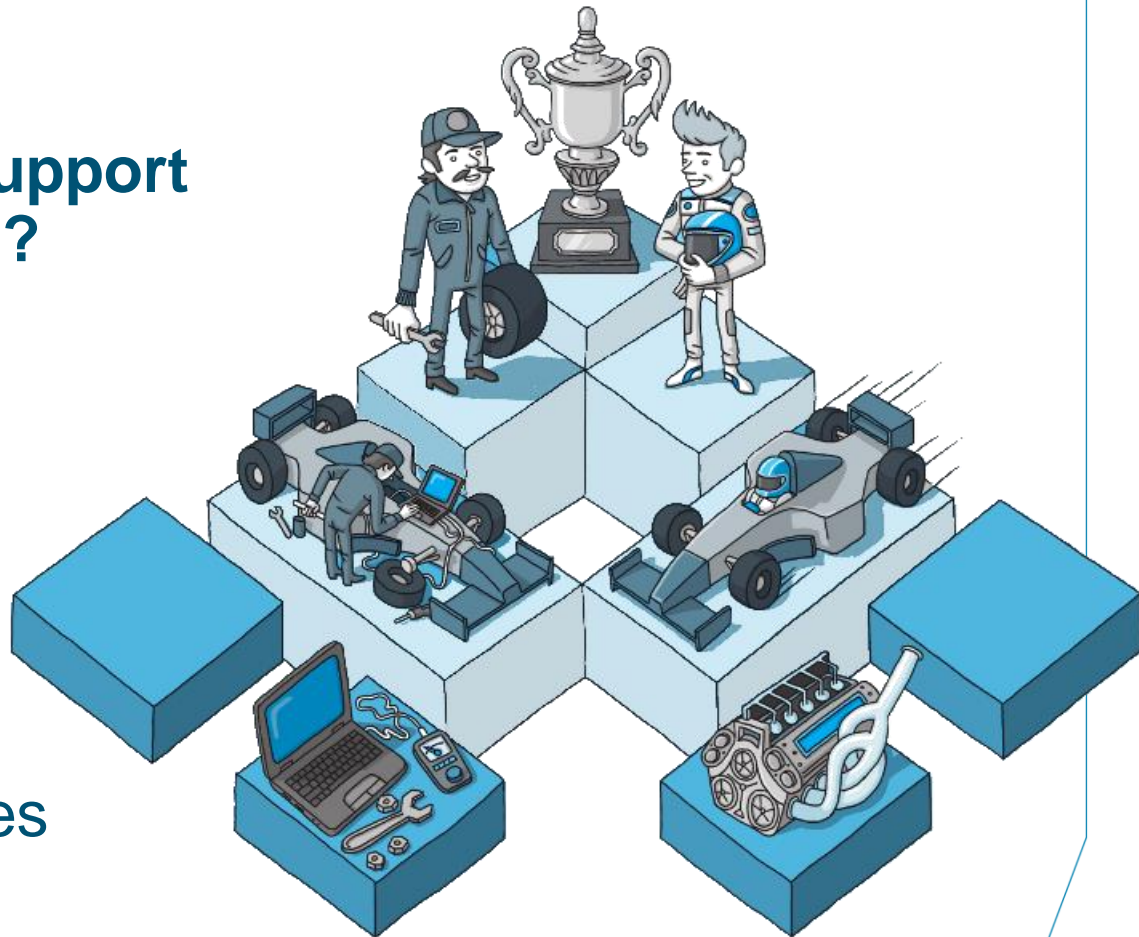
What?

What can we do to support the required impacts?

Deliverables:

Software Features

Organizational activities



User Story

As a **Player**

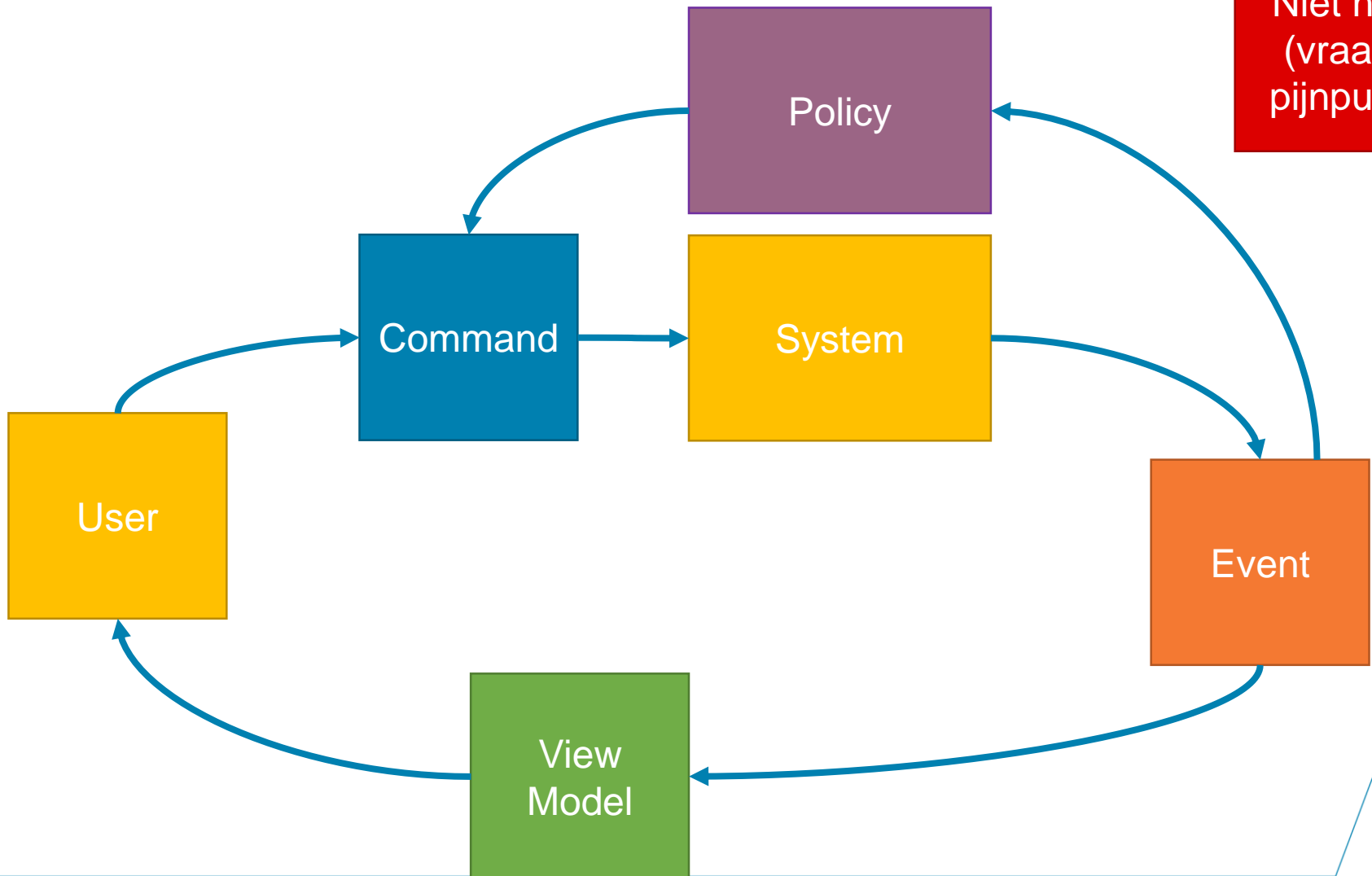
I want **to share my Achievements**

So that I can **Show of my 1337 gaming skills**

Why? - Who? - How? - What?



Event Storming



Niet nu!!
(vraag,
pijnpunt)

Event Storming

Niet nu!!
(vraag,
pijnpunt)

User

Command

System

Event

Policy

View
Model

Persoon/mens:
eindgebruiker

Een systeem, zoals
een IT-systeem,
software, apparaat,
hardware of een
persoon
(handmatige
verwerking)

Wat is er
gebeurd? (in
verleden tijd!)

Informatie
bronnen waar de
gebruiker door
geïnformeerd
wordt (bv.
Scherm, BI,
Website, App)

Persoon/mens/policy dat
een actie initieert obv wat
hij aan informatie krijgt van
een View Model of vanuit
de echte wereld

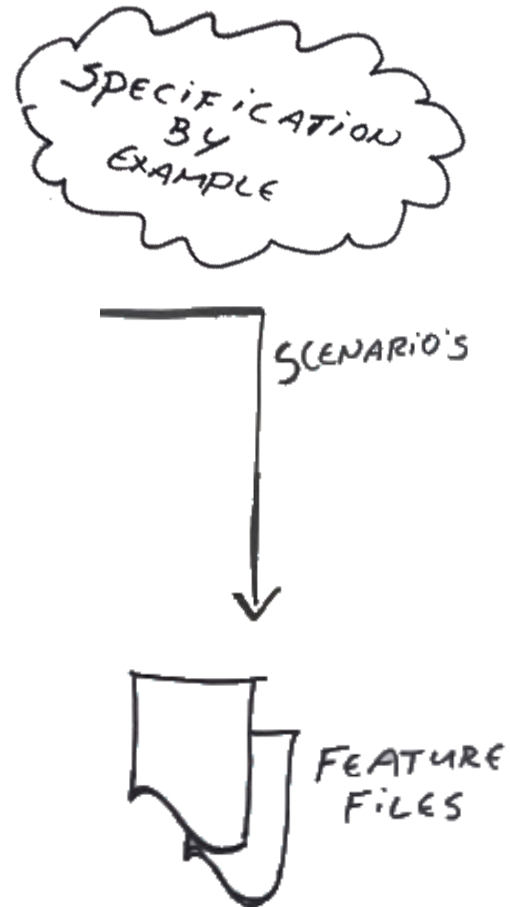
Een proces, procedure.
Datgene dat reageert op
Events en besluiten
neemt.
Checkvragen: gebeurt het
altijd? Gebeurt het
meteen?

Event Storming





Specification by Example



Specification by Example

Building the **thing right**
(Implementation focus: technical)

Building the **right thing**
(Behaviour focus: end-user)

Benefits of Specification by Example

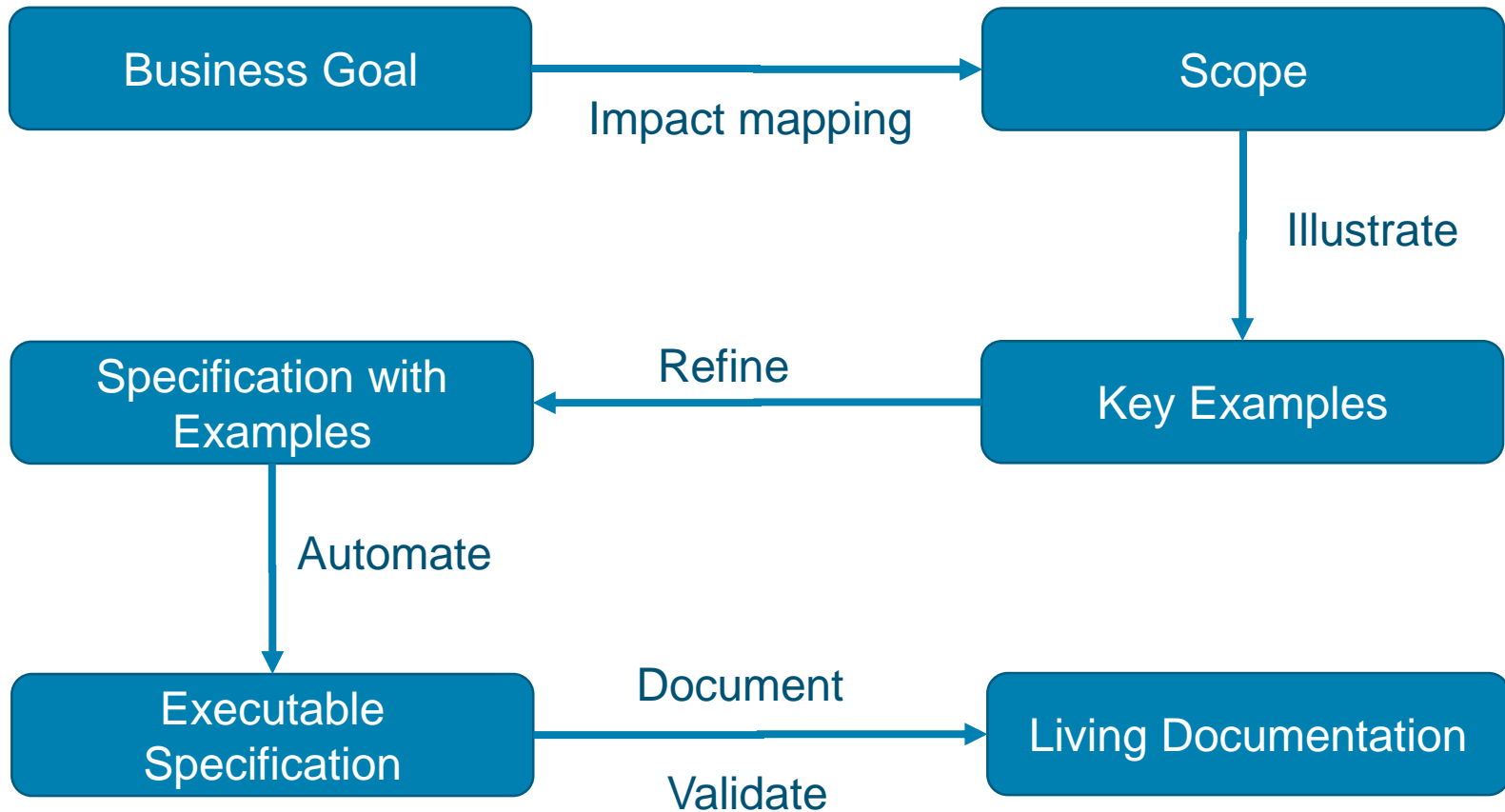
Shared Understanding

Single Source of Truth

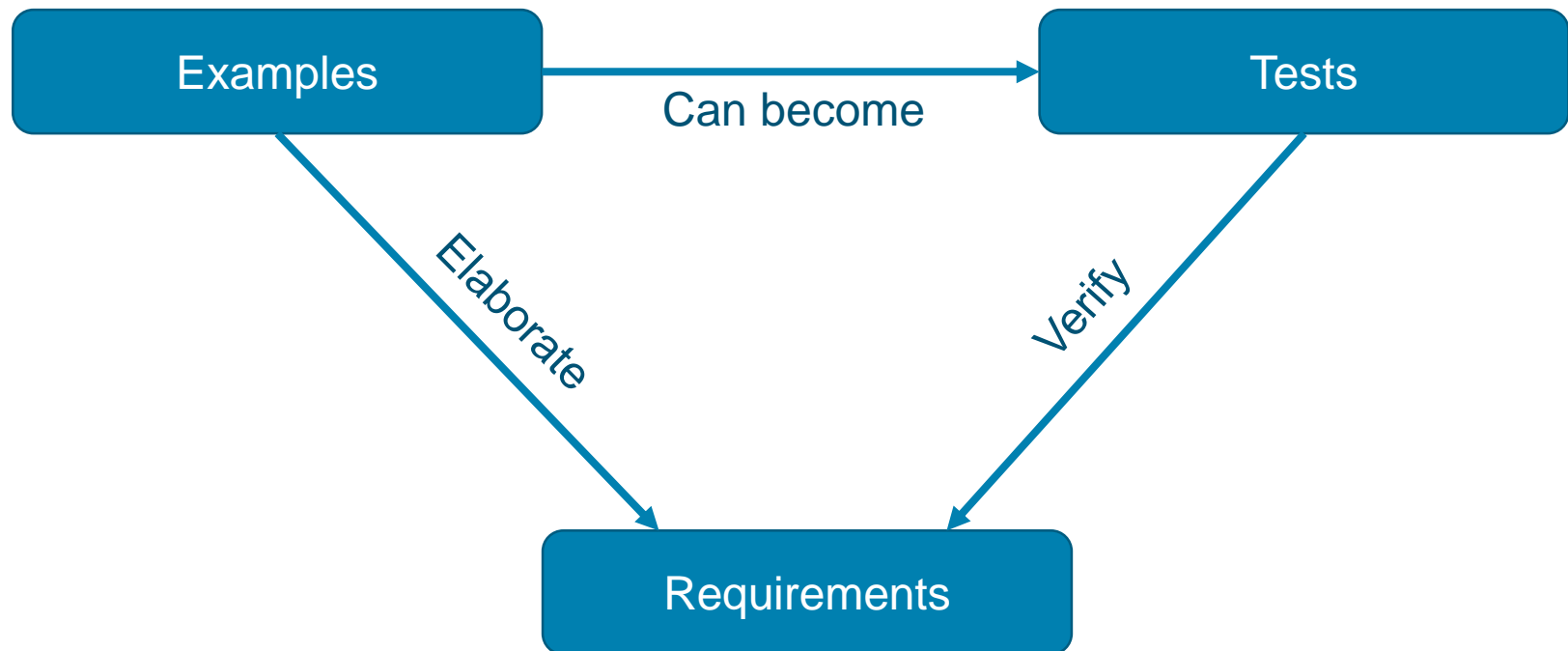
Automating validation → Validate frequently

Evolving to living documentation

Specification by Example



Examples



(Key) Examples

End user behaviour, NOT implementation

Examples should be realistic, precise, complete and easy to understand

(Key) Examples

Examples ensure shared understanding

Examples are used from specification through development to testing

Examples help spotting inconsistencies and functional gaps

Specification with Examples

- Given <the following prerequisites>
- When <the end user performs this behaviour>
- Then <the system should respond with that behaviour>

Specification with Examples

Scenario: Verwerken directe spaaropdracht > 100 euro
Gegeven een direct uit te voeren spaaropdracht van 100 euro

Als de rekeninghouder de spaaropdracht verwerkt

Dan heeft Internetbankieren de spaaropdracht ontvangen

En heeft het SMS systeem een verificatie code via SMS aan de rekeninghouder verstuurd

Nb. Meerdere identieke scenario's met verschillende data? Gebruik Abstract Scenario!
Te veel data in één zin? Gebruik een tabel!



Gegeven het winkelmandje is gevuld met:

Product	Airco type II	
Prijs	129,95	

Als de klant gaat afrekenen

Dan krijgt de klant een bevestiging van de bestelling:

Product	Airco type II	
Prijs	107,40	
BTW 21%	22,55	
Totaalbedrag	129,95	

En krijgt de klant de mogelijkheid om deze bestelling te betalen

Reporting example

Report:

Excel-button

PDF-button

Reporting example

Given the end-user is in the reporting ~~screen~~

When the end-user selects '~~Report 1 Customers~~'

Then he gets a ~~button~~ labeled Excel

And he gets a ~~button~~ labeled PDF

When the user presses the Excel ~~button~~

Then he gets the following report in Excel:

When the user presses the PDF ~~button~~

~~Then he gets an error message 'No PDF'!~~

Reporting example

Given customer 'John' has been registered in the system

When the controller opens the customer report

Then he gets the report in Excel with customer 'John'

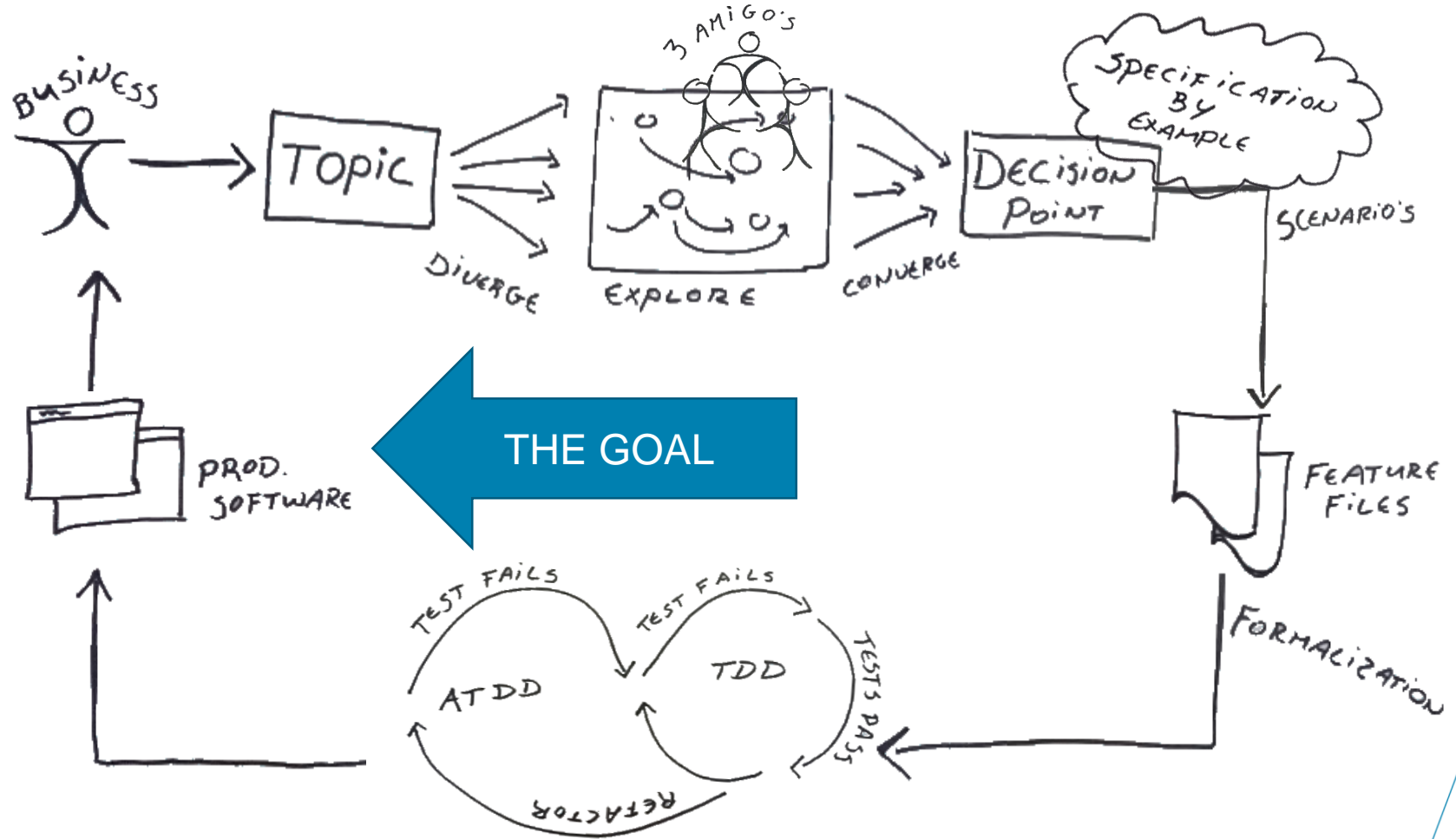
#Question from the developer: how would you want to open the report?

#Answer from the business: don't really care, as long as it's easy...

#Question from the developer: How about just pressing the Enter-key?

#Answer from the business: Is that possible? That would be awesome!

Behaviour Driven Development



Improve Quality Services

Thank you 



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English | 🔍



Improve
QUALITY SERVICES

Uw partner in IT-kwaliteit door requirements engineering, kwaliteitsmanagement en testen

adviseren.
leren. doen.

► Consultancy & Interim

U bent op zoek naar capaciteit of expertise in software testing, kwaliteitsmanagement of requirements engineering. Of u wilt een onafhankelijke, deskundige visie op testtrajecten en kwaliteit. Improve is u graag van dienst.

► Training

Improve biedt innovatieve en geaccrediteerde opleidingen en leertrajecten die testers, analisten, requirements engineers en ontwikkelaars hun werk sneller, beter en goedkoper laat doen. Opleidingen vinden plaats bij u, bij ons en online.

Improve Quality Services



Process Improvement Skills

Testing

- Context driven
- Agile
- Automation

Quality & Outsourcing (QLM) Requirements Engineering

Quality in IT

- Agile (CAT)
- Context driven (RST)
- Automation
- Requirements Engineering (IREB, CABA, ATDD/SbE)
- ISTQB, TMap
- Mobile (CMAP)

Improve Quality Services



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