



NO CODE TEST AUTOMATION: NEW TRENDS



Tiago Honorato
QM Manager, Noesis



António Barros
Product Manager, OutSystems



NOESIS

TECHNOLOGY AND INNOVATION TO TRANSFORM YOUR BUSINESS

+ 20

Years of Experience

15 ,28%

CAGR 2011/2016

7 Offices

Portugal, Brazil, Netherlands, Belgium
and Ireland

DUBLIN

ROTTERDAM

BRUSSELS

LISBON

SÃO PAULO

+ 650

Consultants

32 M€

Revenue 2017

Nº1

Provider of QM Services
in Portugal (IDC)

TEST AUTOMATION INTRO



NO CODE TEST AUTOMATION: NEW TRENDS

TEST AUTOMATION INTRO



+10 Years of
Experience



Knowlegde W/
Best Tools



Knowledge W/
Target Tech



New TA
Methodologies

Reduce cost and effort

Increase Test Coverage

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TEST AUTOMATION INTRO

Delivery of + functionalities

SW Development Lifecycle is
shorter



Ensure quality processes







52
Countries

22
Industries



180+
Global Partners

140k+
Community
Members

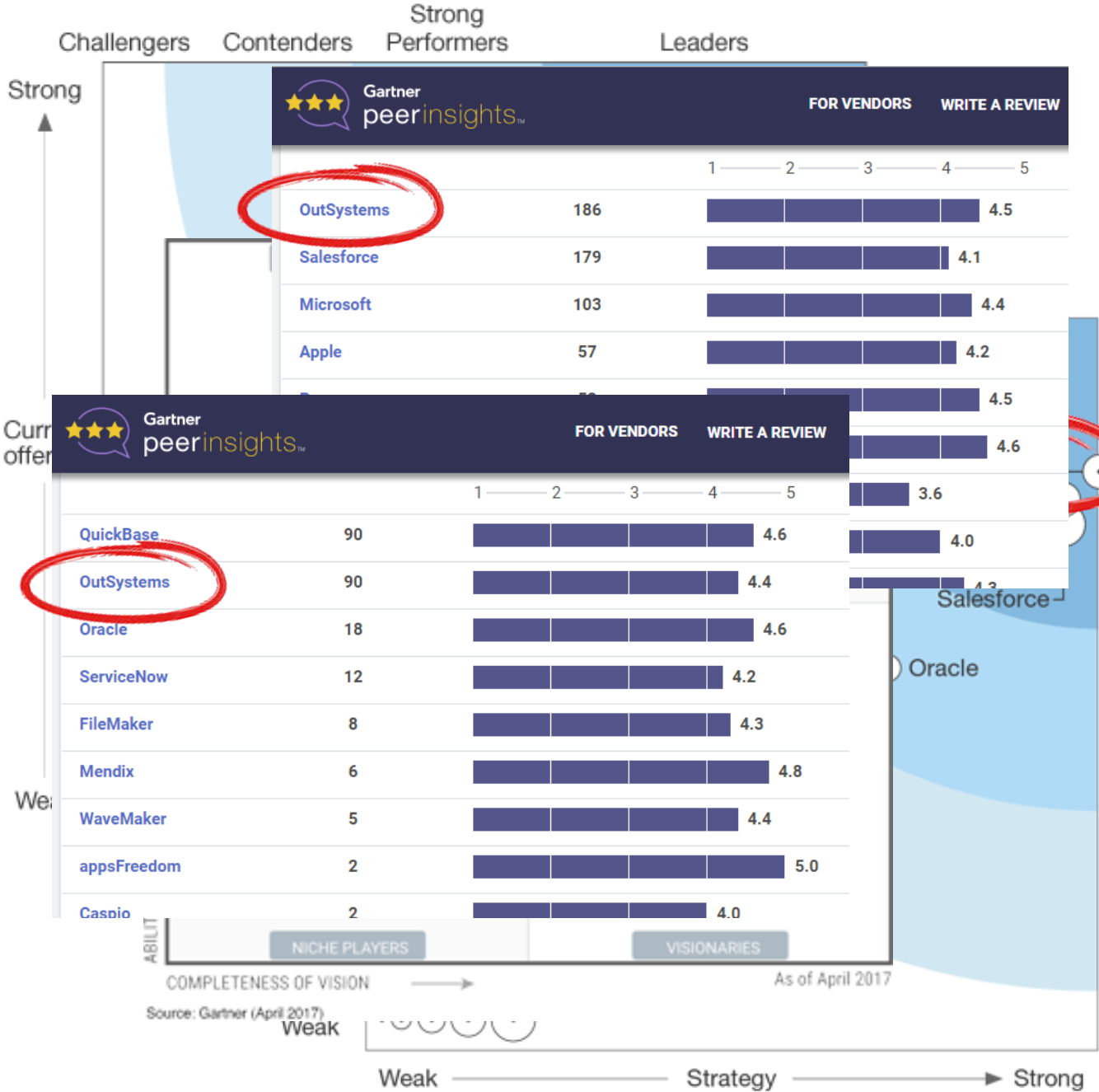
LOW-CODE LEADER

FORRESTER®

Gartner®



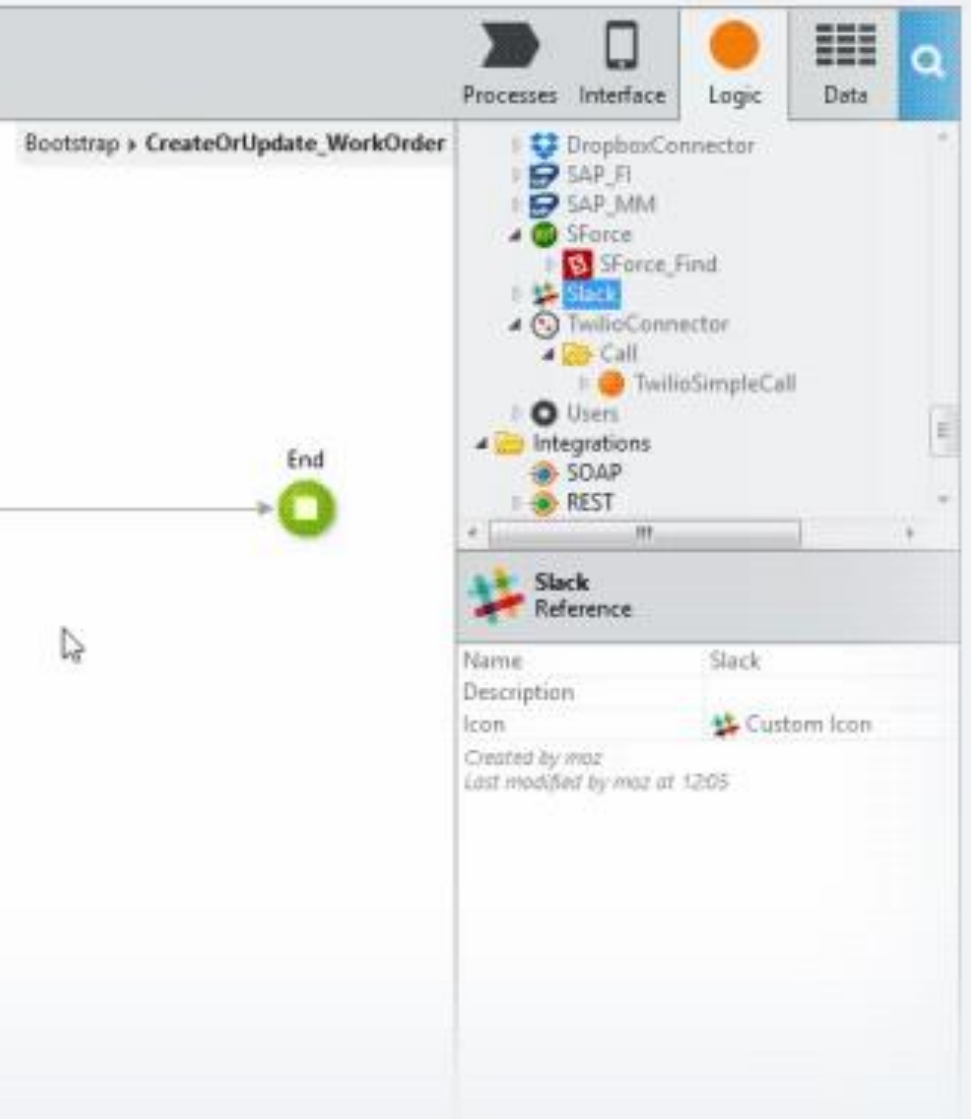
Gartner
peerinsights™



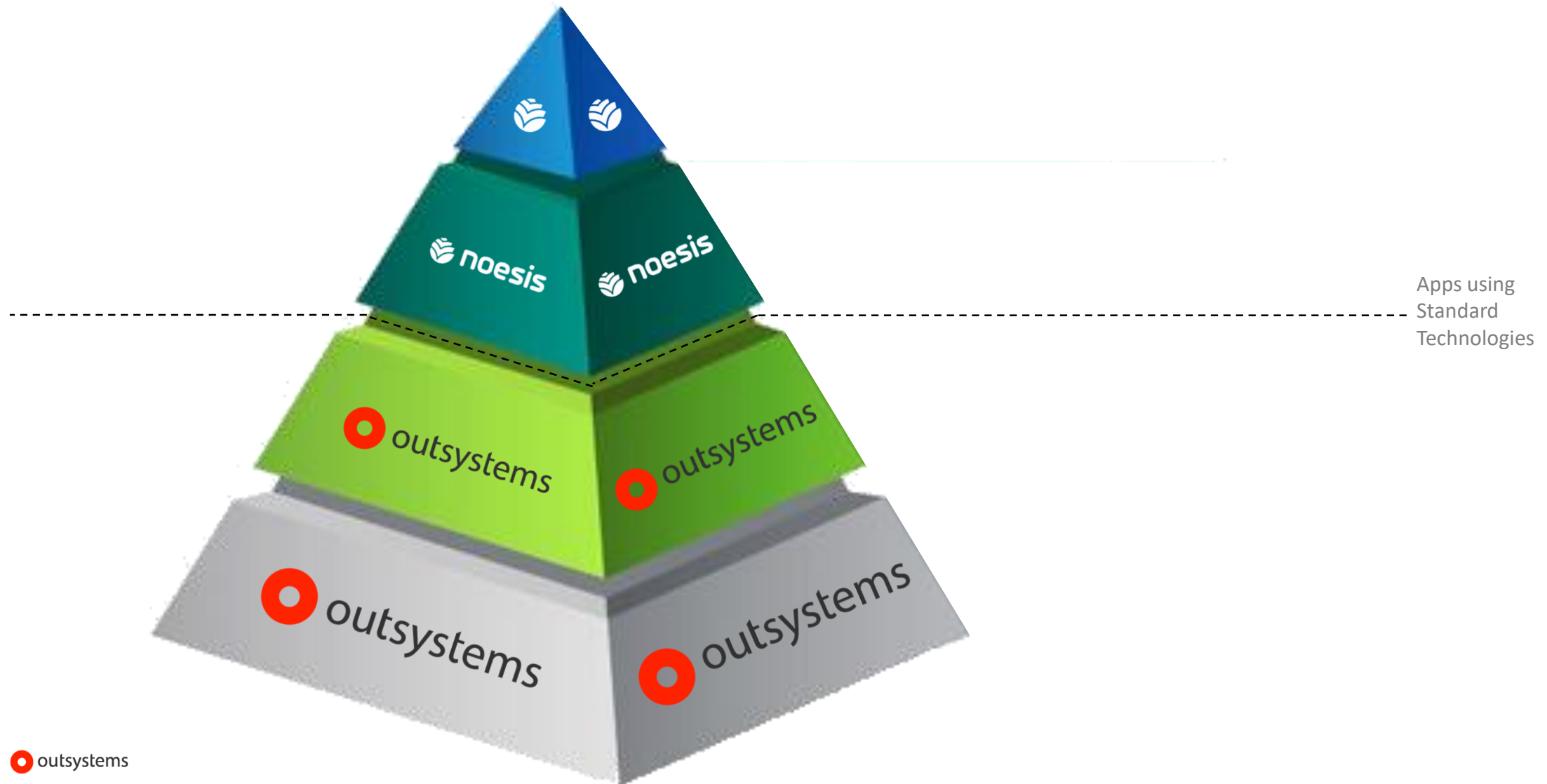
WHAT IS LOW-CODE?

1

1. Visual models
2. Single click deploy
3. Agility-end management



QA + OUTSYSTEMS



USE CASE #1 – DIGITAL OPERATIONS

Optimize Front-office and Back-office Processes - B2E



Operations &
Workflow Apps



B2E Mobile Apps



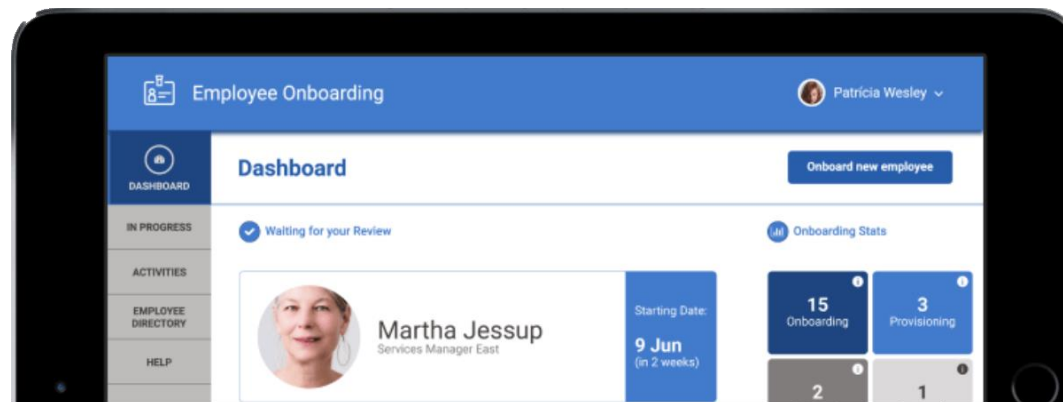
Complexity increases
as more projects are
developed



Finance Apps



HR Apps



1. Start with architecture
2. Manual tests
3. Automated tests for critical functionality
4. Continuous testing

USE CASE #2 – DIGITAL EXPERIENCES

Optimize Customer Journey - B2C



Sales & Marketing
Apps



Customer Mobile
Apps



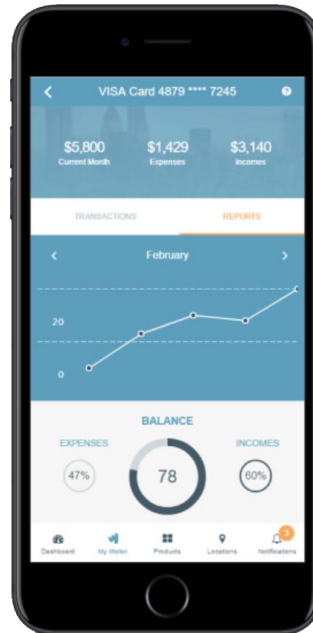
No margin for error



Customer Portal
Apps



Customer Service
Apps



1. Test on multiple devices
2. Test in real network conditions
3. User adoption
4. Assess security

USE CASE #3 – DIGITAL CORE

Replace Legacy Systems or Unify Several Systems



Insurance



Retail



Energy



Travel



Transportation &
Logistics



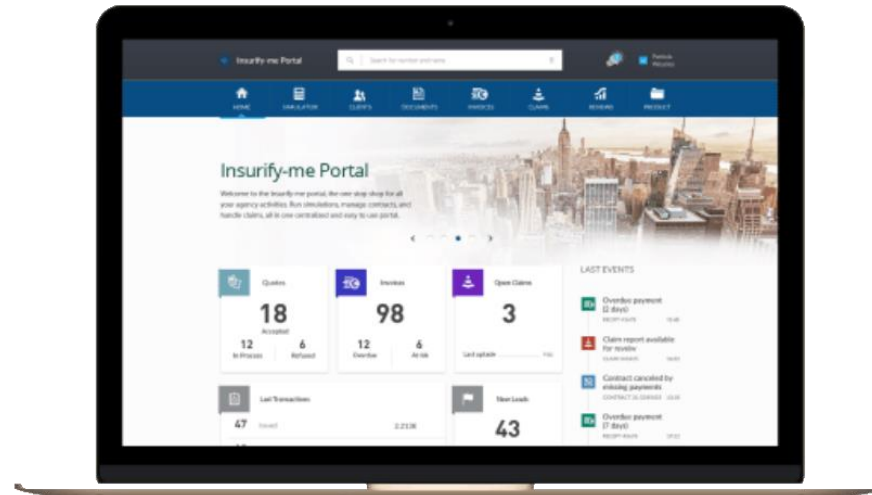
Healthcare



Banking &
Financial Services



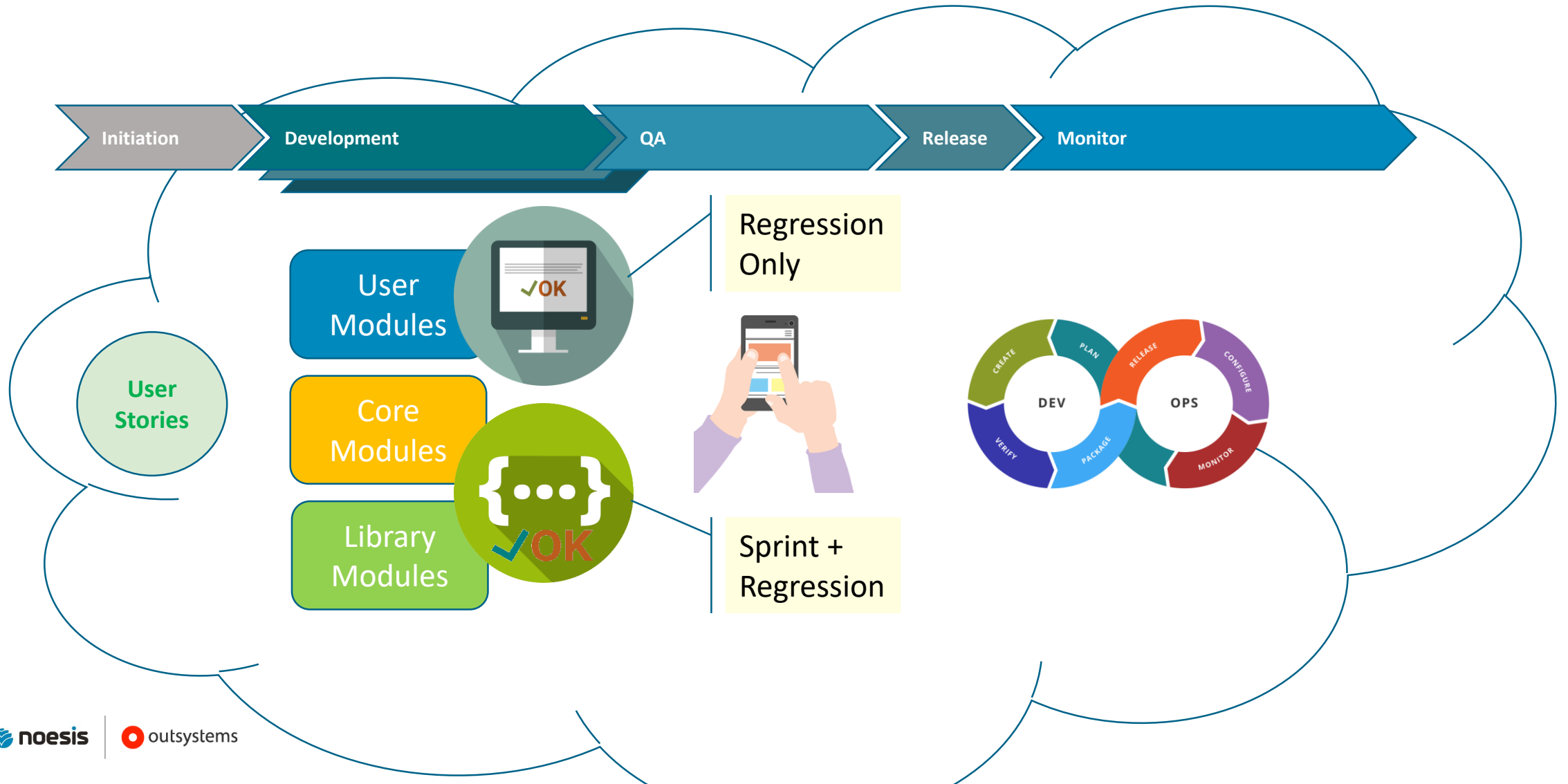
Engineering &
Manufacturing



By nature, many software practices are enforced from start.

1. Quality process
2. Architecture is crucial
3. Strong validation of business rules
4. Include telemetry

QA PROCESS THROUGH LIFECYCLE



TEST AUTOMATION NOESIS STORY



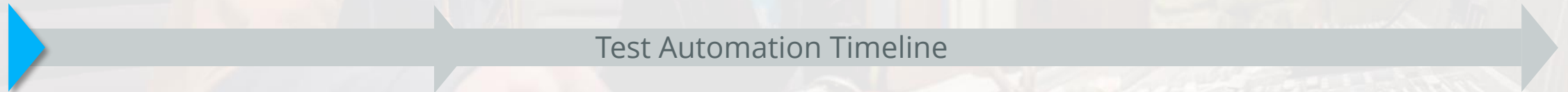
TEST AUTOMATION – ONCE UPON A TIME

Adoption of test automation methodologies

- ✓ Decrease testing effort
- ✓ Increase testing coverage

Adoption of record & play methodologies

- ✗ Hard-coded technical scripts
- ✗ No integrations
- ✗ Real pain to maintain

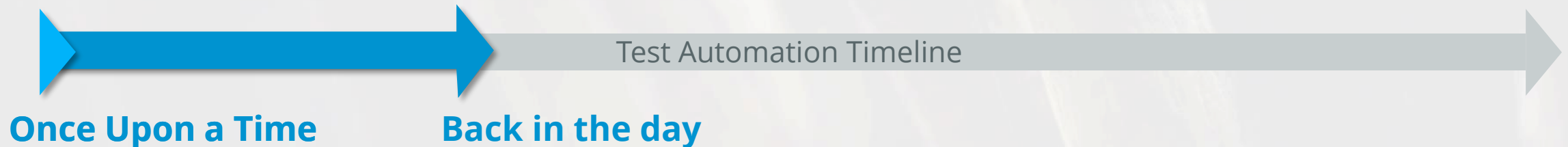


Once Upon a Time

TEST AUTOMATION – BACK IN THE DAY

- ✓ New test automation methodologies
- ✓ More time spent in development - Modular scripts
- ✓ More stable scripts

... However... Maintenance still very time consuming



TEST AUTOMATION – THE YESTERDAY

- ✓ Scripts fully integrated with test management tool
- ✓ Test automation Frameworks were born
- ✓ “Play & Execute”
- ✓ Evidences were stored, automatically

...Testing time wasn't decreasing as desired...



TEST AUTOMATION – ISSUES

**Technical
Profiles**

**Interactions
Manual vs Technical**

**Maintenance
Time**

**Fit in Agile
Development**

...So...How did we solve these issues?

TEST AUTOMATION NEW TRENDS



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NEW TRENDS



Focus on UI and
Process automation



NO-CODE solution



Allow non-technical people
to automate Tests



Test & Defect
management integrated



Specify Automated Tests
before SW development

USING NEW TRENDS



Dev Team: 15

Business Team: 3

Training: 4h

9 Automated Tests – 1 day



Dev Team: 25

Functional Testers: 2

Training: 4h

10 Automated Tests – 1 day



Dev Team: 20

Functional Testers: 1

Training: 4h

150 Automated Tests – 33 days

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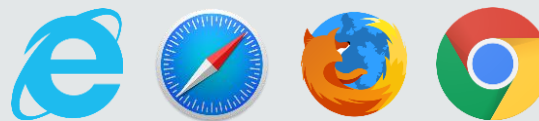
NEW TREND SOLUTION

New Trend Solution

Mobile Automation



WEB Automation



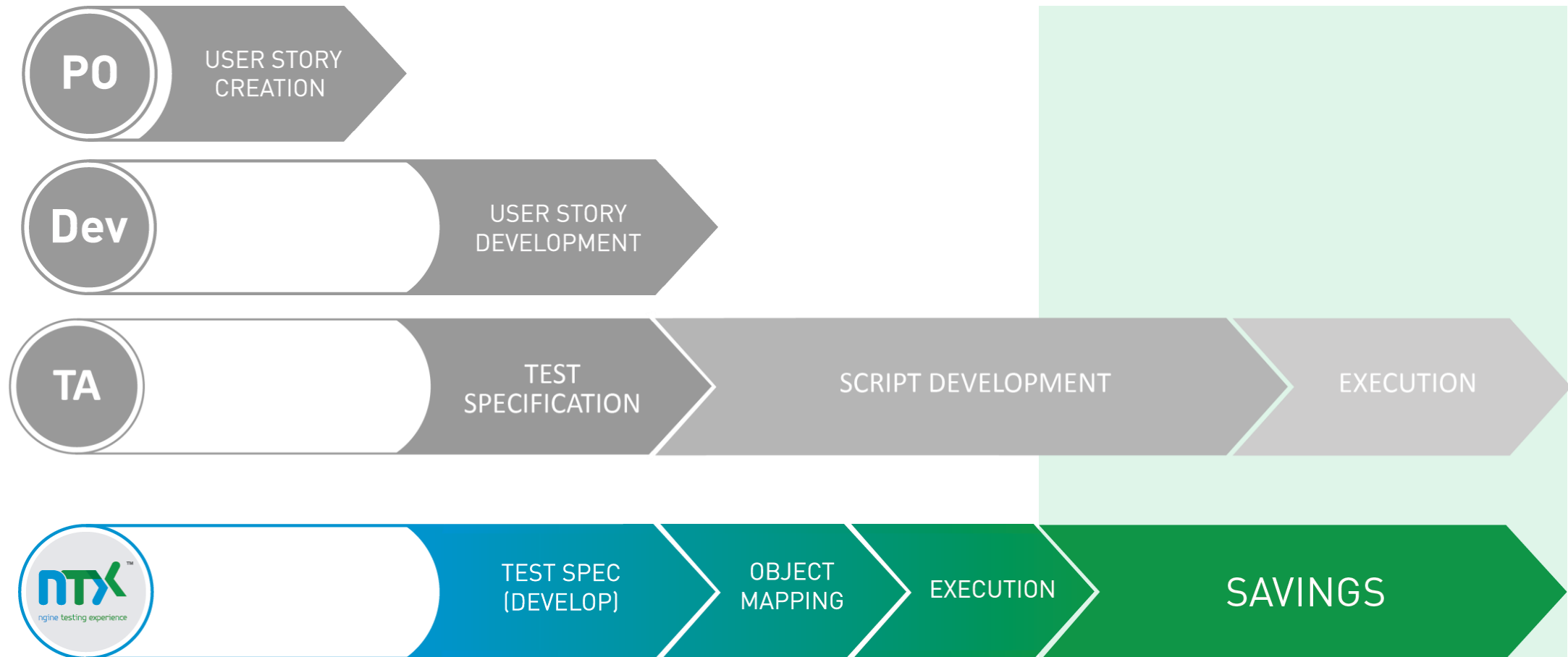
Desktop Automation



» Intuitive Object Capture

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TEST AUTOMATION NEW TREND METHODOLOGY





www.noesis.pt | info@noesis.pt

NOESIS Lisbon (HQ)

Centro Empresarial Torres de Lisboa
Rua Tomás da Fonseca
Torre E – 14º andar
1600-209 Lisboa
Tel: +351 21 423 54 30

NOESIS OPorto

Aviz Trade Center
Rua Engº Ferreira Dias, 924
Piso 0, E9
4100-246 OPorto
Tel: +351 22 400 47 13

NOESIS Coimbra

Instituto Pedro Nunes
Edifício D, Sala 2.08
Rua Pedro Nunes
3030-190 Coimbra
Tel: +351 23 909 08 72

NOESIS Brussels

City Centre
Stephanie Square Centre
Avenue Louise 65, box 11
1050 Belgium
Tel: +32 472 839 721

NOESIS São Paulo

Edifício ETower
Rua Funchal, 418 - 35º piso
Vila Olímpia 04551-060
São Paulo
Tel: +55 21 98000 3086

NOESIS Ireland

28-32 Upper Pembroke St,
Dublin 2
Ireland
Tel: +353 (1) 608 7763

NOESIS Rotterdam

Weena Zuid 130
3012 NC Rotterdam
Netherlands
Tel: +31 010 799 7315

