



Coded by People

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**Test Automation – Team Lead**

# PRIMAVERA at a Glance



**17,9 million** euros  
Consolidated Turnover (2013)



**27.000** Customers with Contract



**500** highly specialised partners



**#1** in Portugal and in Portuguese-speaking  
African markets



**260** employees,  
**6** nationalities

# PRIMAVERA at a Glance

Turnover

EBITDA

+16%



2012 15.496.100 €

2013 17.970.659 €

+54%

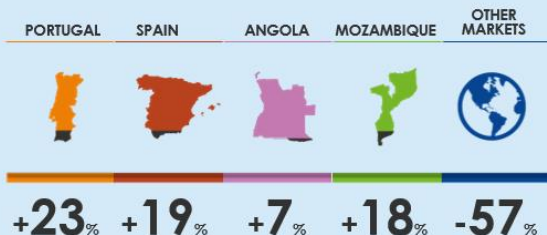


2012 2.499.016 €  
(16,1%)

2013 3.848.230 €  
(21,4%)

# PRIMAVERA at a Glance

## GROWTH IN INTERNATIONAL MARKETS



# PRIMAVERA

The image shows a collage of various Portuguese tax forms. The most prominent one is the 'Declaração de Rendimentos' (Income Declaration) form, which includes sections for 'Informação Contribuinte', 'Declaração de Rendimentos', 'Declaração de Rendimentos', and 'Declaração de Rendimentos'. Other forms visible include 'Declaração de Rendimentos' and 'Declaração de Rendimentos'.



ARQUIVO  
A REPÚBLICA

Ficheiro

## SAFT-PT

Standard Audit File for Tax Purposes - Portuguese version

14 de fevereiro, 14 de junho

Retenções na Fonte

o SUPLEMENTO

Revista do Fisco

Coloque na sua lista

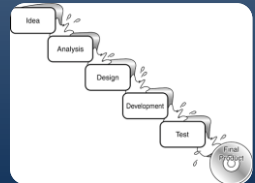
Em junho de 2012

Depois de 100 anos de existência, o Fisco português está a mudar

2012/02

# PRIMAVERA

- Processes already in place (CMMI level 2)
- Waterfall approach
- Business units focused on products



- Significant planning upfront
- Long development cycles
- Checking product to late
- Ownership focused on the leaders, not on teams

# Agile@PRIMAVERA



- Scrum is an iterative and incremental agile software development framework for managing product development.
- Teams self-organize to determine the best way to deliver the highest priority features.
- It allows us to rapidly and repeatedly inspect actual working software (every two weeks to one month).
- The business sets the priorities.

# Agile@PRIMAVERA

~90 people  
under BUs



Scrum  
Team

Scrum  
Team

Scrum  
Team

Scrum  
Team

Scrum  
Team

Scrum  
Team

Scrum  
Team

Scrum  
Team

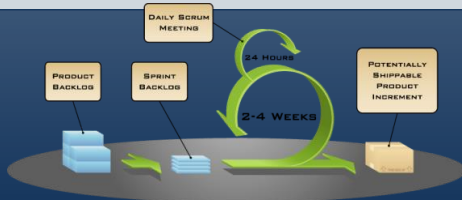
Scrum  
Team

Scrum  
Team

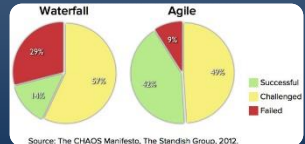
Scrum  
Team

Scrum  
Team

# Agile@PRIMAVERA



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- Better Time to Market
- Customer Involvement
- Team empowerment
- Better reaction to change

# What about QUALITY?



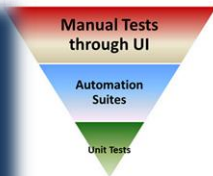
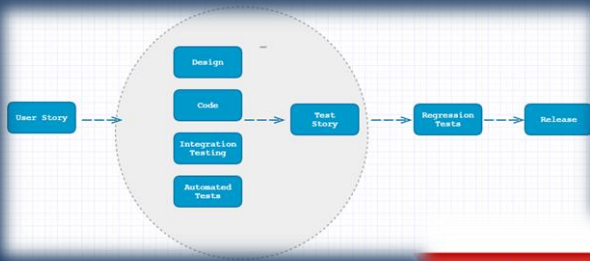
# Testing

@Agile

- An iterative process from a customer's perspective
- Testing is performed early and often
- Testers are part of the development team
- “User Stories” are tested
- Close cooperation with developers and customers
- Continuous integration
- Constant regression tests
- Automated Acceptance & regression Testing

# Testing

@Agile



**Traditional**  
(find bugs)



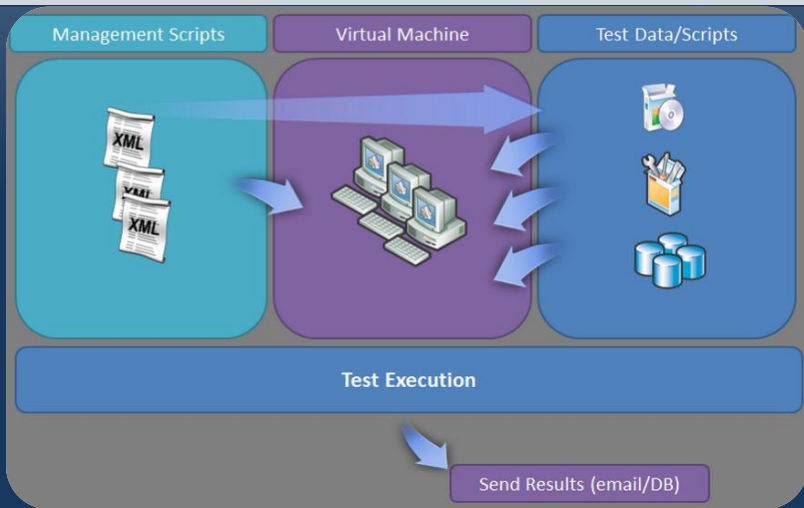
**Agile**  
(prevent bugs)

# Test Automation

## Strategic Objectives

- Implement tests that are executed more than once
- Implement tests that evaluate high-risk conditions
- Do not try to reach the one hundred percent test coverage
- Identify critical application/module/process to automate
- Act as a supplier to the requests from the QA manual group/others
- Create tests that would be impossible or prohibitively expensive, to perform manually
- Tests that have multiple data values for same actions: Data-driven
- Testing over systems that are somewhat stable
- Tests that are run on a regular basis
- Regression tests, database upgrade, mundane tasks;

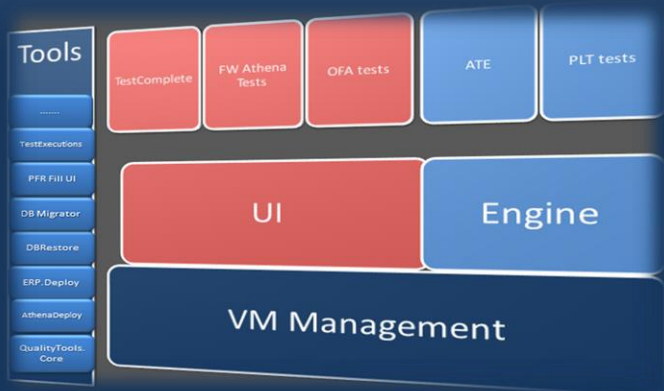
# Test Automation



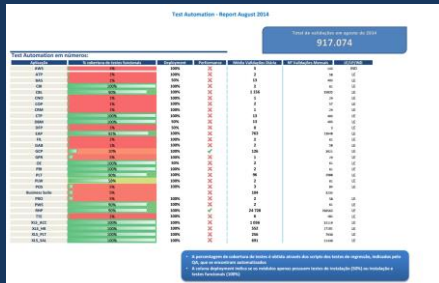
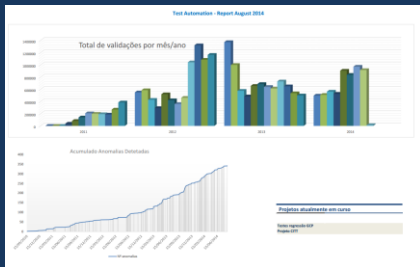
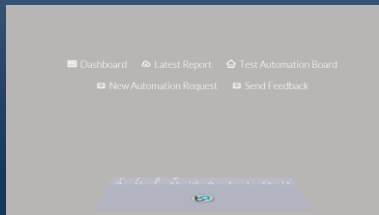
# Test Automation

## Tools

- VM Management as the central piece of automation
- Different applications testing both UI and Engine
- "Homemade" tools acting as support to all tests



# Test Automation



# Agile PRIMavera vs Test Automation



*Quality on sprints?*  
*Regression tests?*  
*Time?*  
*Team size?*

## Test Automation

*"Testing-over-systems-that-are-somewhat-stable"*





PRIMAVERA BUSINESS SOFTWARE SOLUTIONS

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