



Xray—Test Management Made in Portugal

The story behind the creation and rise of Xray, a prominent Test Management App for Jira.

Our Products



XPORTER

**EXPORT JIRA ISSUES
USING WORD AND EXCEL
TEMPLATES**

One App to Export Them All



Xray

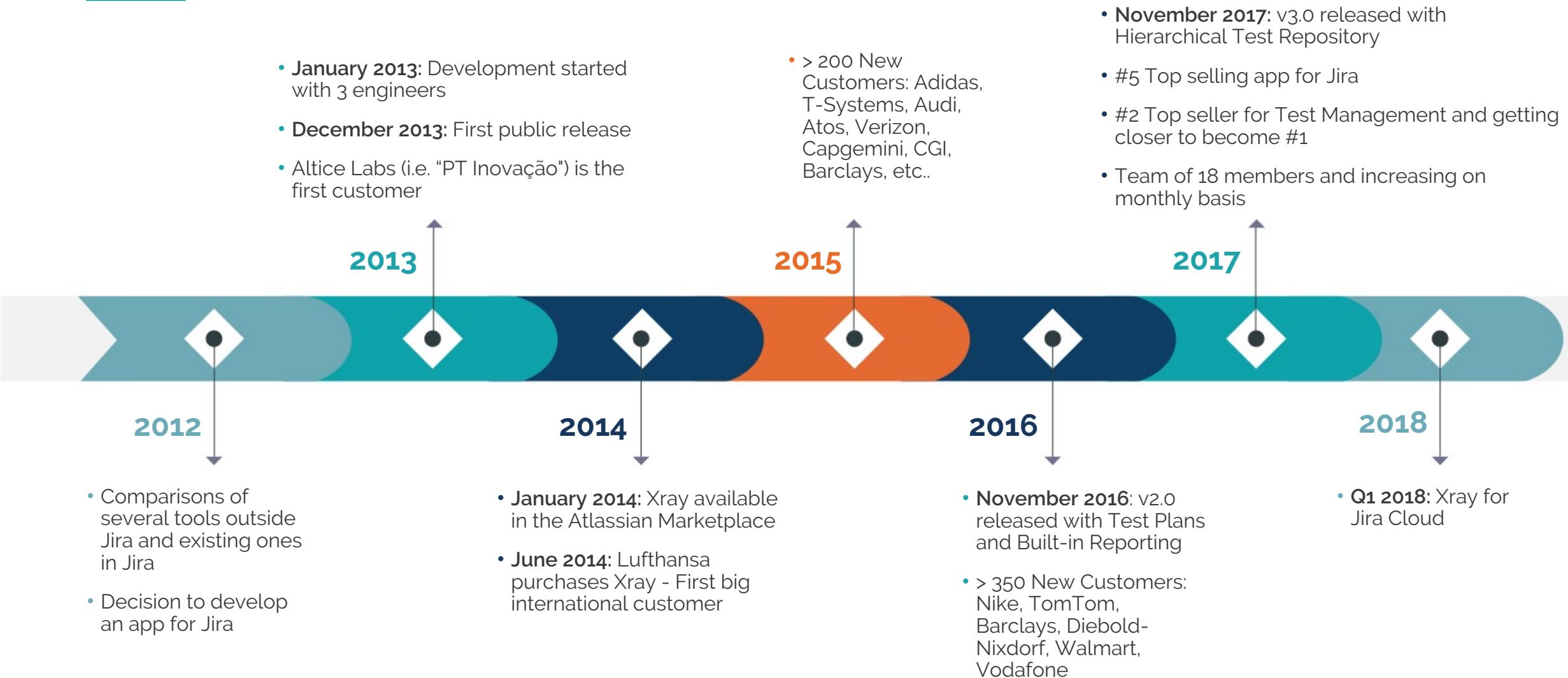
**MANUAL & AUTOMATED
TEST MANAGEMENT
INSIDE JIRA**

Rock Solid Test Management



History

Timeline



Reasons why

Reasons to develop it

There was nothing being able to cover...



1

Agile &
waterfall

Manual &
automated
testing

2



3

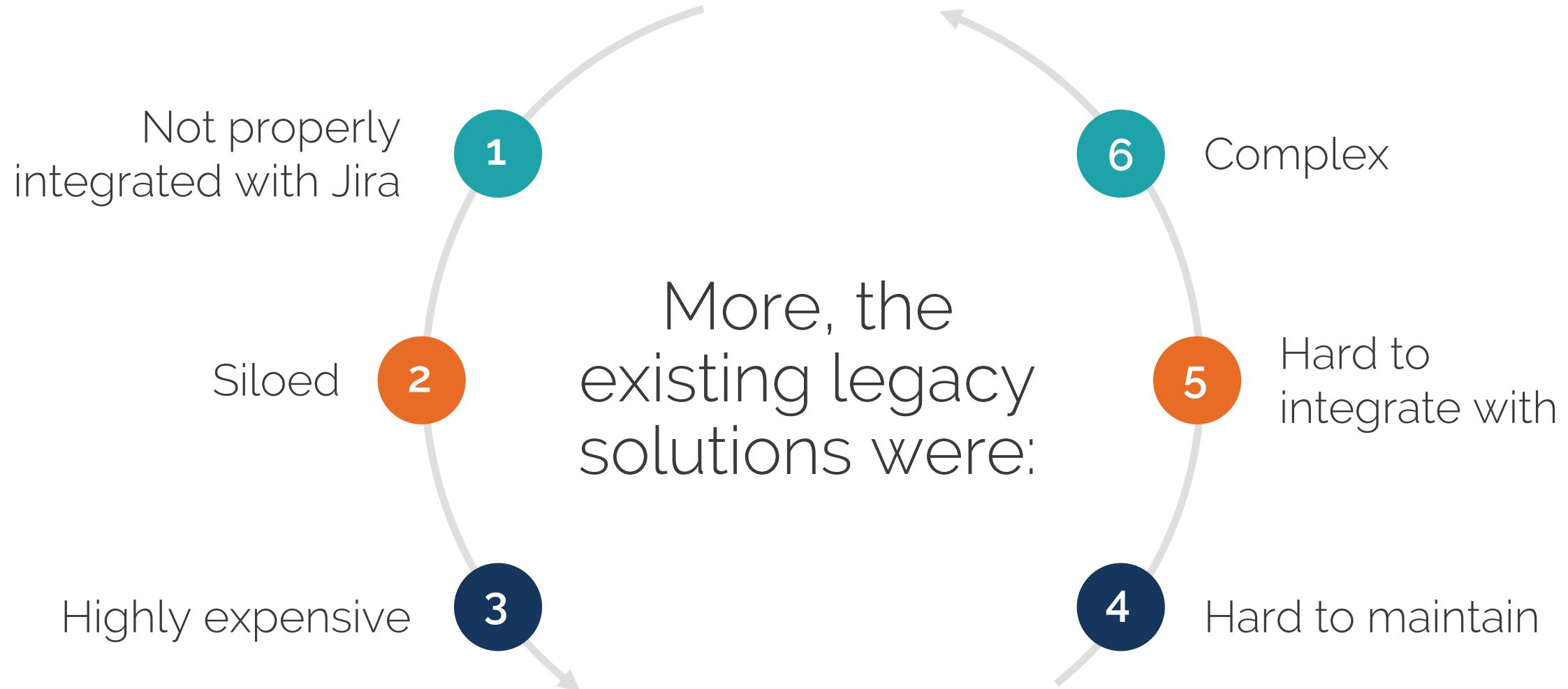
Fully integrated
within Jira &
making use of Jira
concepts

4

Flexibility to
implement process
adaptable to each
organization/team



Reasons to develop it



Reasons to develop it

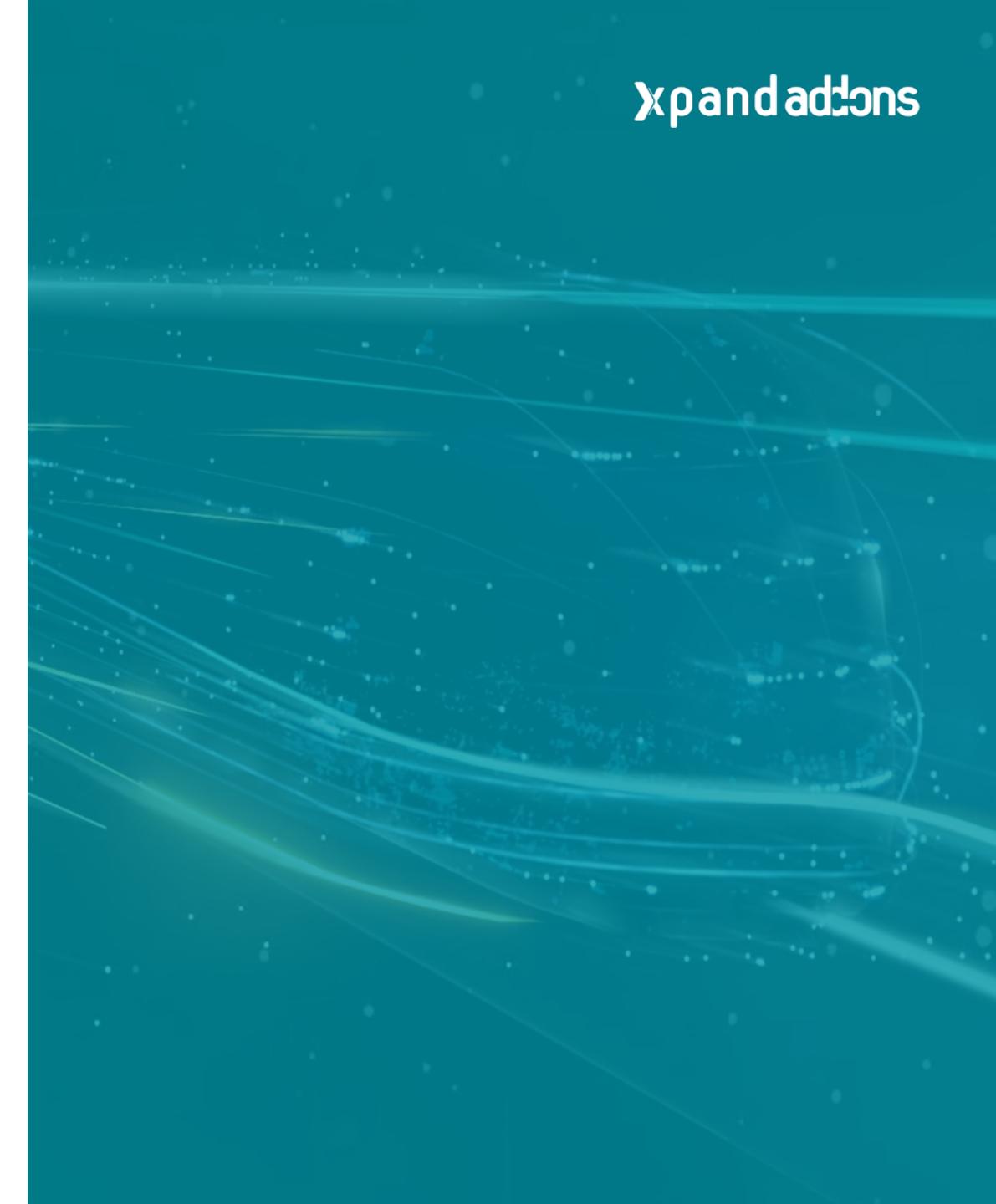
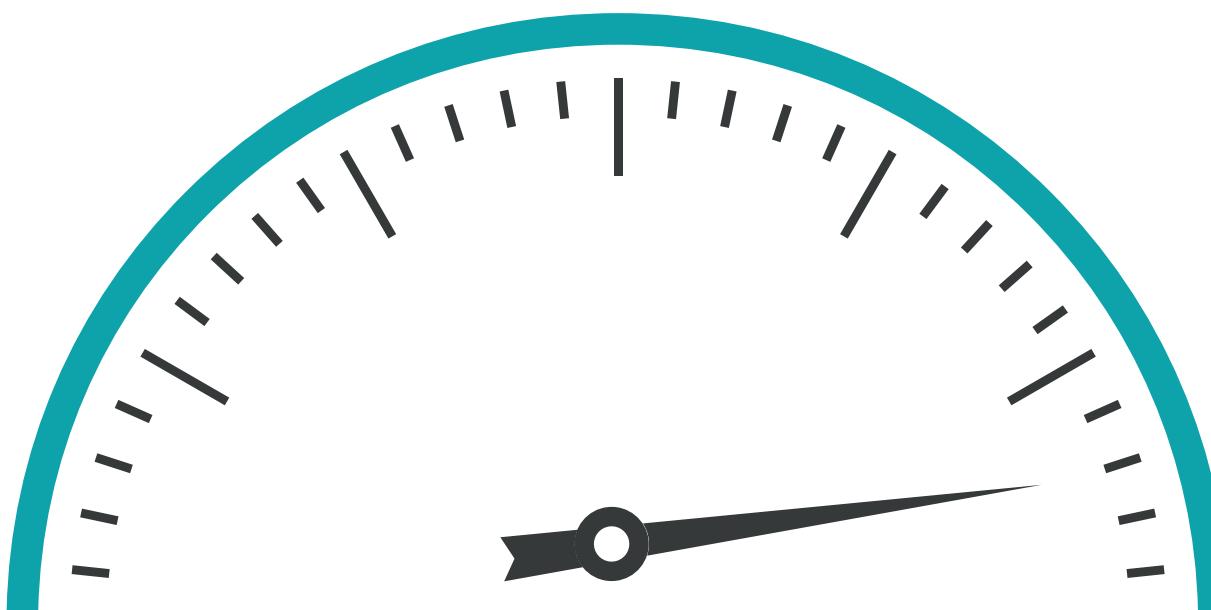
The need for a simple administration

- Easy upgrades
- Easy administration
 - Less applications, DBs, backups, synchronizations to maintain
- No need for a specific sysadmin



An ant in
a dinosaur world

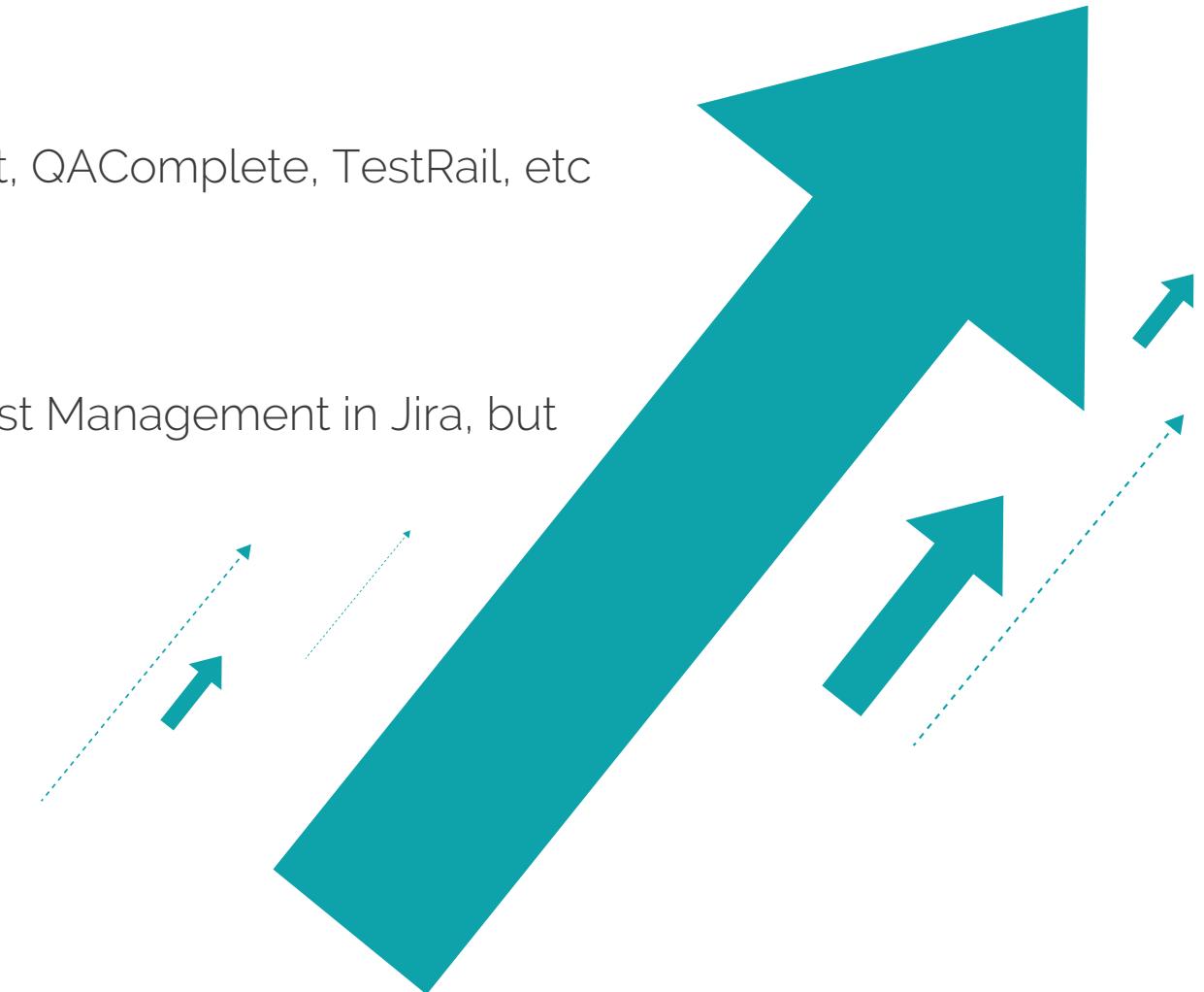
Travel long
distances on
short time



Challenges or “Opportunities”?

Huge, competitive players

- **Outside of JIRA:** HP ALM, Zephyr, Tosca, SpiraTest, QAComplete, TestRail, etc
 - Very complex solutions
 - Mostly tailored for old technologies and non-agile
- There was already a well established player for Test Management in Jira, but not that awesome - **Zephyr for Jira**
- All **the alternatives** were:
 - Highly expensive solutions
 - Hard to maintain
 - With long release cycles
 - Not up to date with existing trends and technologies



Challenges

- Fighting against years of acquired expertise in QA
- Lots of **already built assets** (docs, datasheets, videos, eBooks, etc.)
- **Do it differently**
 - Webinars, tutorials, blog posts, on-demand demos, test sandbox



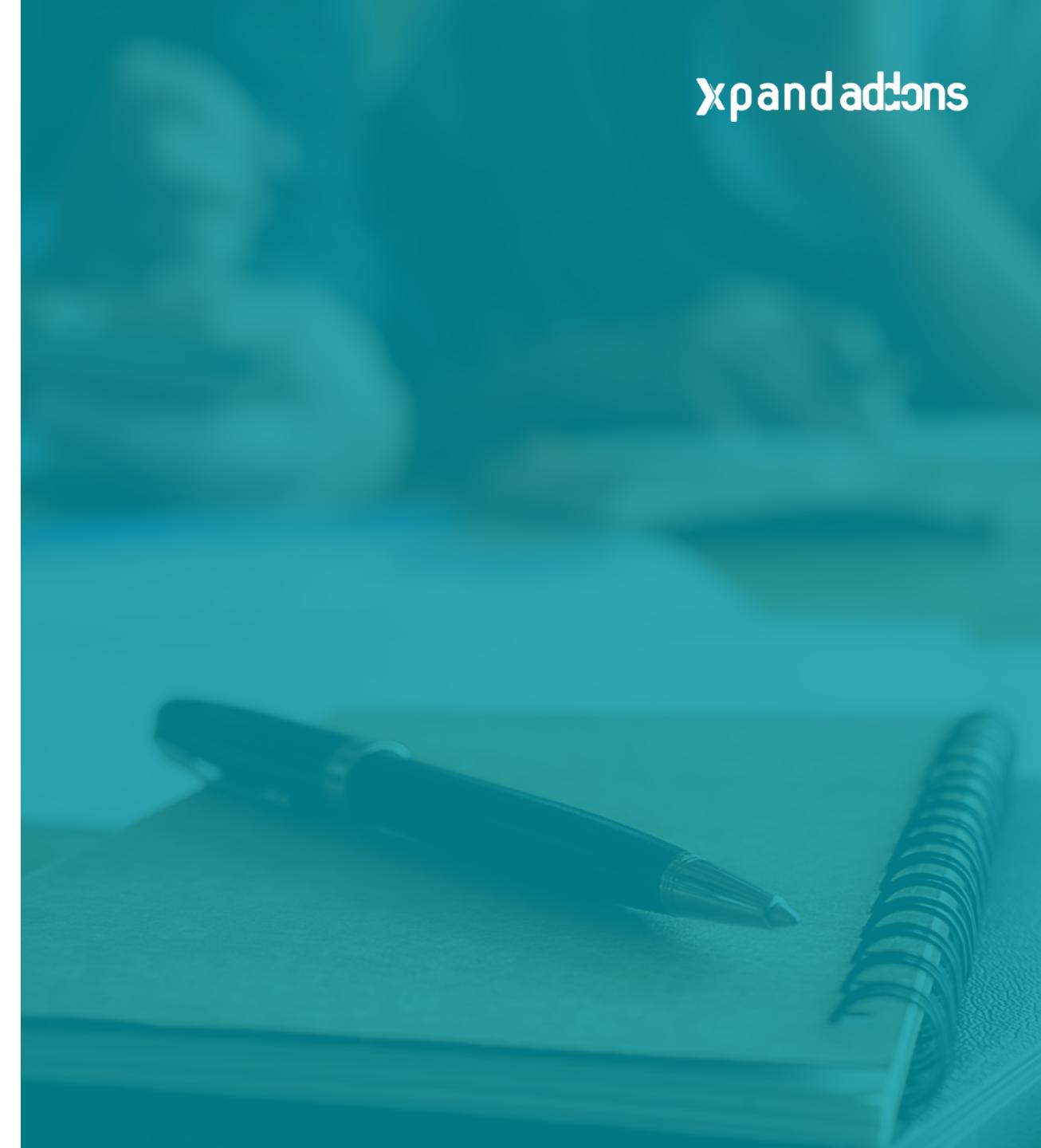
Dozen of years
of expertise



Challenges

Start from scratch

- So much to be done...
- Can an “incomplete” (less featured) tool, still challenge big players?
- Starting from scratch, allows you **to do it better** (at least sometimes ☺)
- Don't do everything; **focus on the essential** and let other vendors/apps interact and extend your base functionality



How we did it

Start with the basics,
listen & improve.

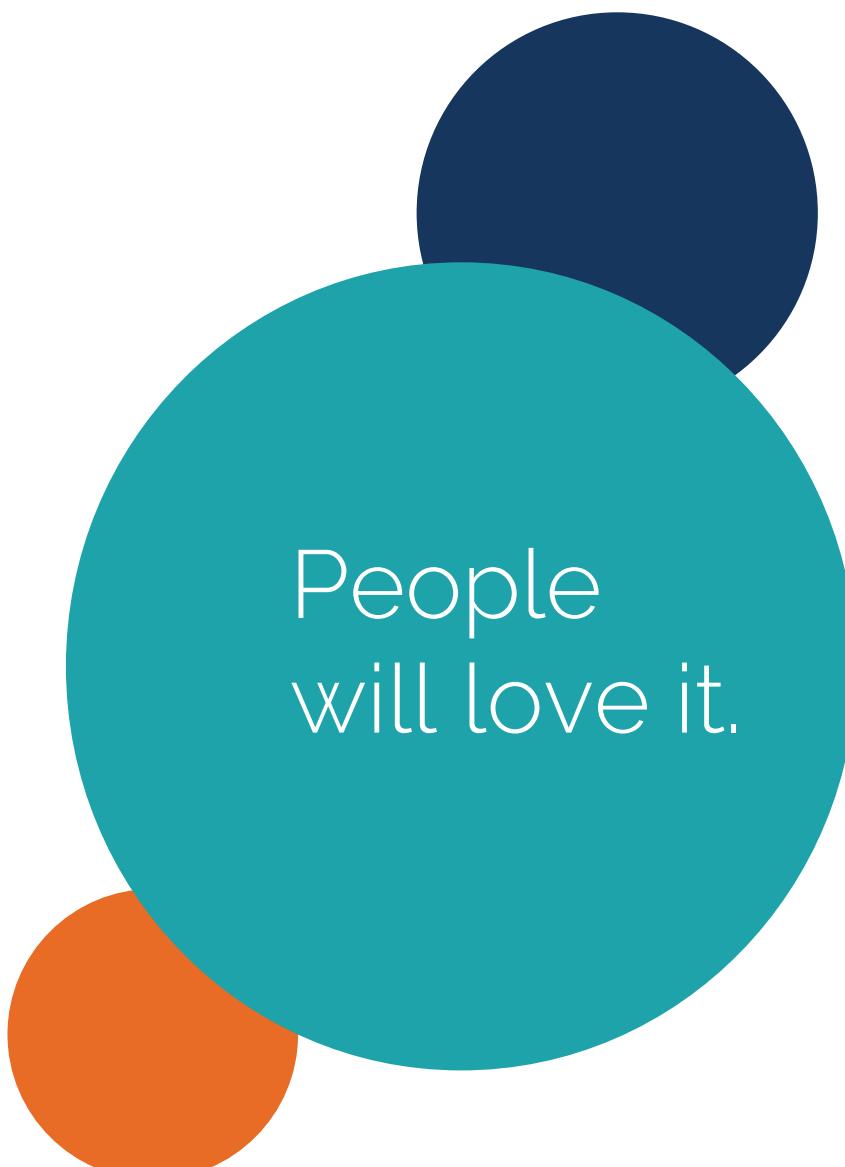
- Don't try to replicate complex solutions with inherit problems
- Make the essential "MVP", taking into account current, most important, actual needs



How we did it

Make use of Jira concepts.

- App is built on top of Jira; make it **feel as natural as possible**
- Facilitate administration
- Facilitate **integration with the Jira ecosystem**, including other apps



People
will love it.

How we did it

Automation and Agile from day 1

- People are doing **the shift to Agile**, automated testing and continuous integration
- **Support BDD natively** through Cucumber
- Leave **an open door** to support other frameworks
 - Generic Test Frameworks
 - Open and complete Rest API



How we did it

- Organizations and even teams inside organizations work differently
- Some are adopting waterfall, agile or something hybrid 🎉
- Give the flexibility to implement more or less strict processes (e.g. workflows)
- Manage it in one Jira Project or in separate projects



Present

Current achievements

Current status



>2000 customers worldwide, including many from Fortune 500

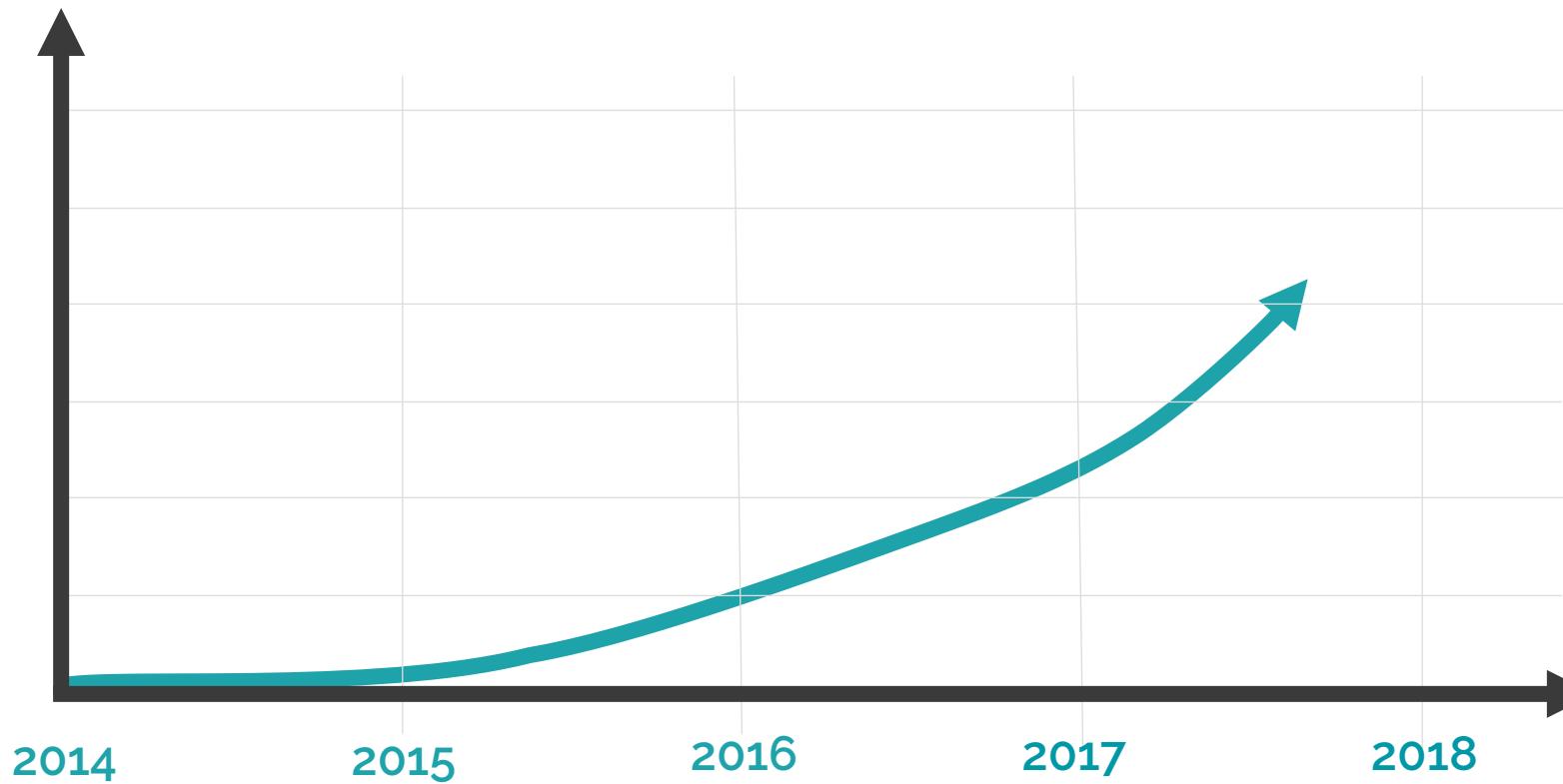


> 65 countries



67 versions

Current achievements



Our Clients

Automotive

- Tesla
- BMW
- Audi
- Renault
- Nissan
- Volvo
- Porsche
- Volkswagen
- Mercedes-Benz



Our Clients

Finance

- Barclays
- Santander
- UBS
- Moody's
- Fannie Mae
- Banque Nationale du Canada
- ING
- Ingenico
- eTrade
- Mercedes-Benz
- Itau Unibanco



Our Clients

Aerospace

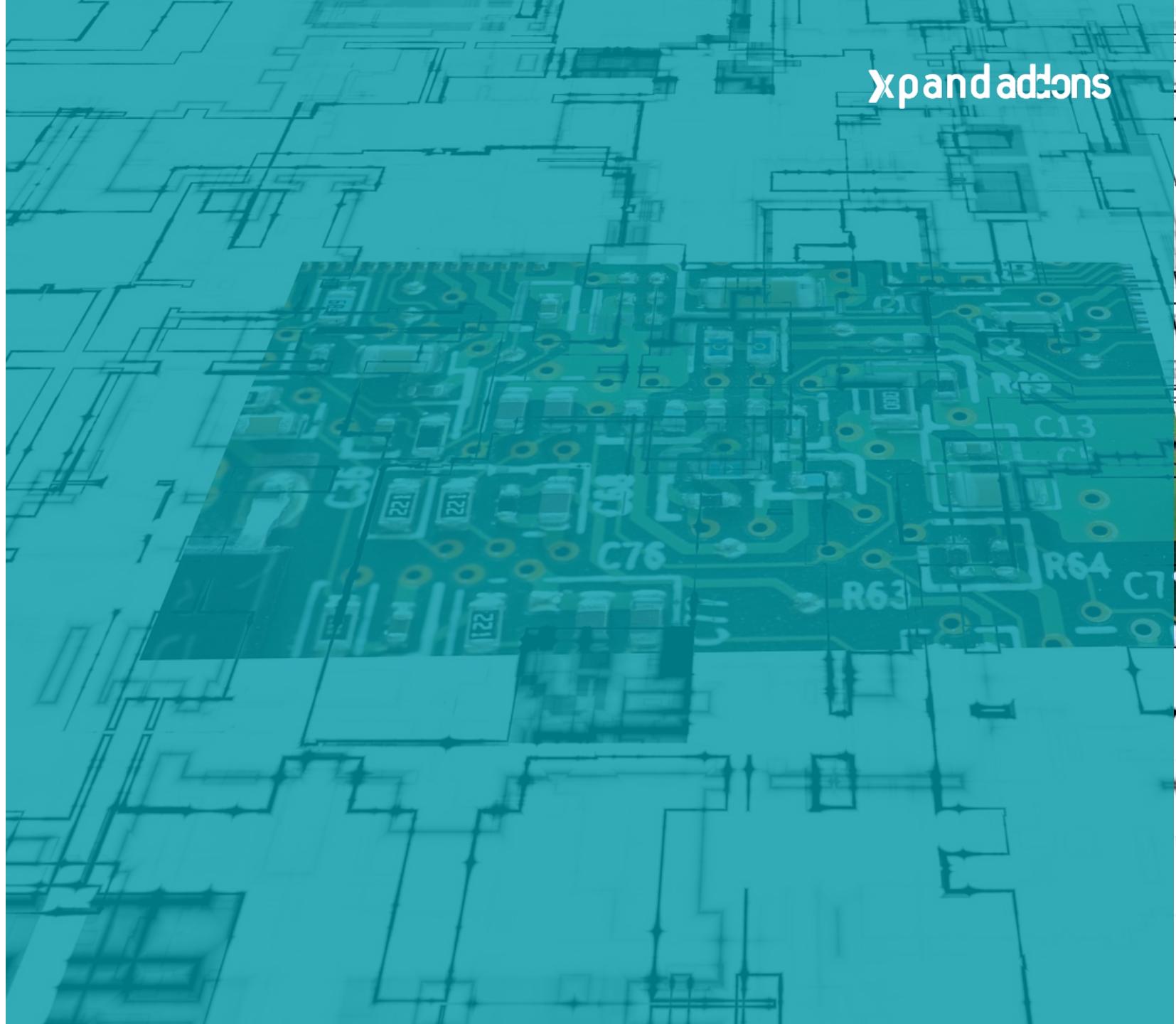
- Lufthansa
- TAP
- Air France
- KLM
- Boeing
- Boeing Defense
- Airbus Space & Defense
- SDT Space & Defense
- GMV Aerospace & Defense



Our Clients

Technology

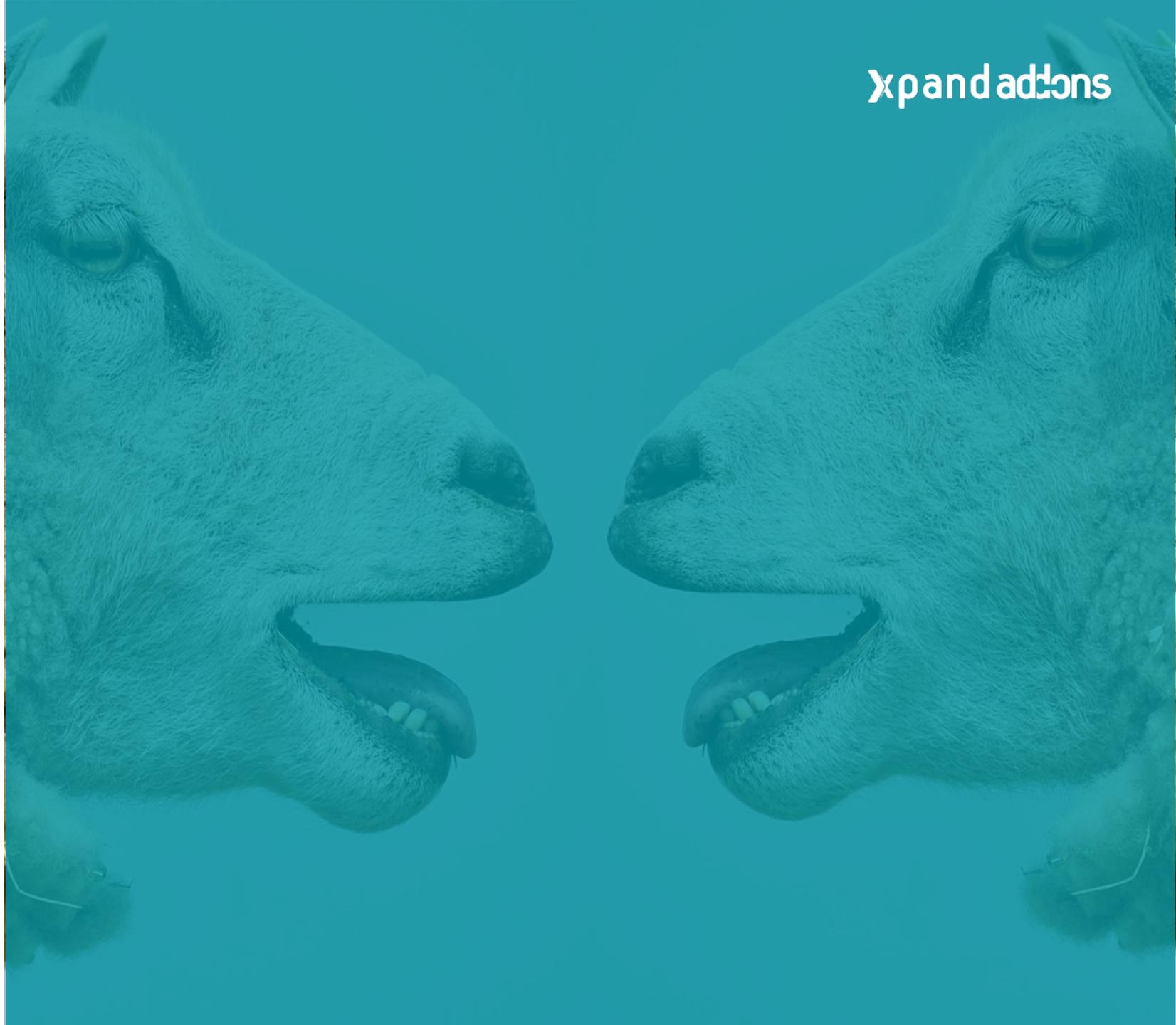
- Intel
- ARM
- Samsung
- Bosch
- Diebold Nixdorf
- Ericsson
- Siemens
- TomTom
- Whirlpool



Our Clients

Telecommunications

- Altice
- Vodafone
- Deutsche Telekom
- Verizon
- Orange
- Amdocs
- Telefonica
- Bouygues Telecom
- British Telecom



Interesting Use Cases

Hardware equipment

- Fiber optics (PT/Altice)
 - Ruby + Cucumber
- Set-top boxes (Nagra)
 - Cucumber
- Washing machines



Given I have MP4 file
When I play a fileAnd do trick mode <operation>
Then I should get <value>

Examples:
operation	value
PLAY	100
PAUSE	0
FWD_1	600
REWD_1	-600

Given the STB has been connected to MSS VOD stream server by ethernet
When playing a MSS VOD stream file from MSS VOD stream server
Then plays successfully
And on onframeDecode returns

Scenario: [OLT1T1] Network Security Protocols: SFTP

Given the file "/tmp/sftp_upload.txt" does not exist in the OLT equipment
When the following file is uploaded to the OLT equipment via "direct" connection using the SFTP protocol

- |local_file|remote_file|
- |/tftpboot/sftp_test/sftp_upload.txt|/tmp/sftp_upload.txt|

Then the following file should have been successfully uploaded to the OLT equipment

- |remote_file|md5sum|
- |/tmp/sftp_upload.txt|8042d830868dfcc734e58b8b919fd7e8|

Interesting Use Cases

Fiscal documents

Given documentos fiscal com <modelo>

When emitir o livro de saída padrão ou personalizado

Then deverá <Regra> na coluna <Tipo de Imposto> e de acordo com os códigos fiscais, do livro de ICMS.

Modelo	Regra	Tipo de Imposto
2D ou somente redução Z	Sempre escriturar	ICMS
2D ou somente redução Z	Não escriturar	IPI
2D ou somente redução Z	Não escriturar	ST
	Sempre escriturar	ICMS
02, 13, 14, 15 e 16 quando emitido em cupom		
02, 13, 14, 15 e 16 quando emitido em cupom	Não escriturar	IPI
02, 13, 14, 15 e 16 quando emitido em cupom	Não escriturar	ST
Demais modelos	Escriturar se o valor, Isentos ou Outros de ICMS maior que zero.	ICMS
Demais modelos	Escriturar se o valor, Isentos ou Outros de IPI maior que zero.	IPI
Demais modelos	Escriturar se o valor de ST maior que zero.	ST

Findings

- Waterfall => Agile
- Excel or legacy tools => Jira
- Manual => Automated testing
- Many organizations are using BDD
(e.g. Cucumber)
- Diverse languages and automation
frameworks (technology evolves
on a daily basis)

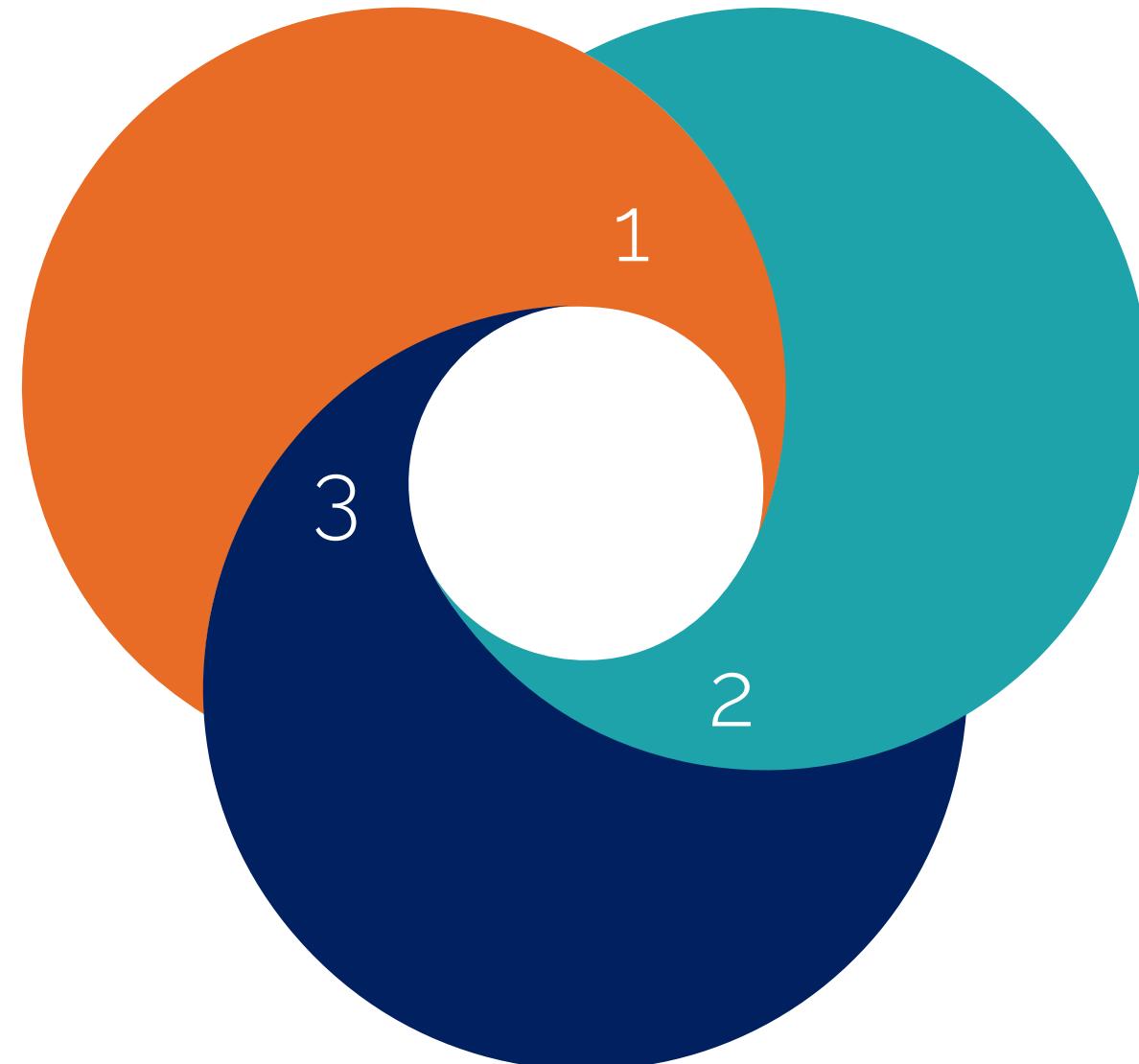


Disclaimer: these are empirical findings based on our demos, Q&A sessions that we do almost every day.

Opportunities

Opportunities

1. Experts on **automation**
2. Experts in **data migration**
3. Experts in **the shift to Agile**



**The *sky* is the limit!
Thank you.**

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Xpand Add-ons web site:
www.xpand-addons.com

Xray on the Atlassian Marketplace:
<http://bit.ly/xray-for-jira>