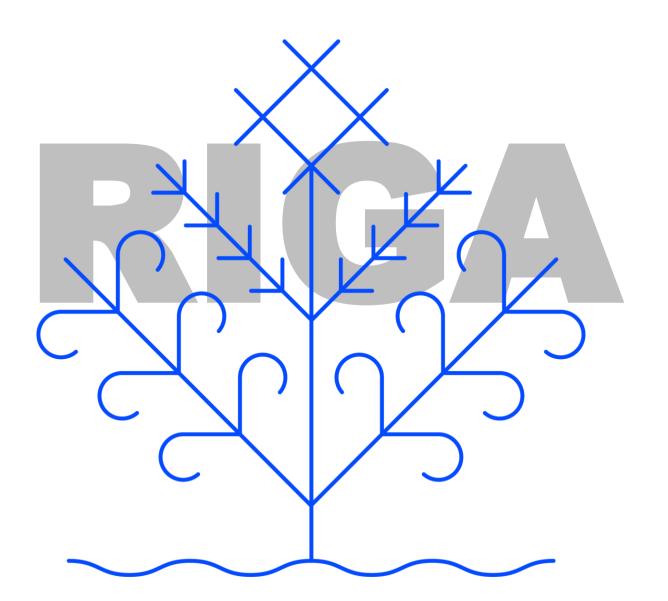


#### TRICENTIS TOSCA



#### WHO AM I

- MORE THAN 16 YEARS IN DEVELOPMENT
- ~5 YEARS AT ACCENTURE
- DEVELOPMENT LEAD
- CI &TEST AUTOMATION ARCHITECT
- TEST AUTOMATION ARCHITECT
- TRICENTIS TOSCA EVANGELIST



# WHY AUTOMATED TESTING IS SO IMPORTANT?

#### **MOST EXPENSIVE BUGS**

Jun 1996 - Ariane exploded after 40 sec

\$500 Millions

Sep 1999 Mars Climate Orbiter explosion due unit measure BUG

\$327 Million

**Aug 2003 Race Condition Bug Creates Blackout** 

50 Million People

#### FREE COFFEE! STARBUCKS

**April 2015** 

Affected: 7,000 stores in the US and 1,000 in Canada

At the end of the day approximate looses was:

\$3 or \$4 million



https://www.geekwire.com/2015/coffee-crisis-starbucks-computers-go-down-nationwide-free-drinks-for-everyone/

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### UNITED AIRLINES DOMESTIC FLIGHTS **GROUNDED FOR 2 HOURS BY**

June, software ands of United passengers

Affected October, thousands of United passengers

In October, thousands of United passengers

United passengers

Line of United passengers

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United flights delayed after computer glitch grounds US

Jolan briefly, thousands of United passengers

Affected October, thousands of United passengers
In October, thousands of United passengers
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computer planes

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reservations records.

# TCB SOFTWARE MIGRATION FAIL

April

Truin cuton

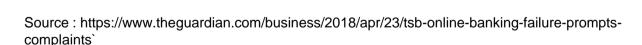
Migrating to a new core banking system is a horrendous task and there are so many thousands of things that have to happen exactly as expected, or disaster can unfold."

Affec

(https://www.computerweekly.com/news/252439859/TSB-IT-meltdown-has-the-makings-of-an-epic)

1.9 million people to lose access

12.5 K Customers gone



# MAIN ISSUES FACED

- LIMITED TIME &RESOURCES
- BIG OR UNCLEAR SCOPE
- CROSS PLATFORM
- TEST DATA
- DISTRIBUTED SERVICES



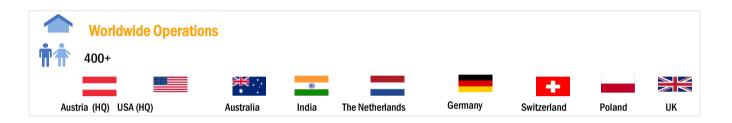
# TRICENTIS TOSCA

TOSCA IS MORE
THAN JUST A
TESTING TOOL...

#### TRICENTIS IS CONTINUOUS TESTING COMPANY

Founded 2007





#### **500+ Blue Chip Enterprise Customers**









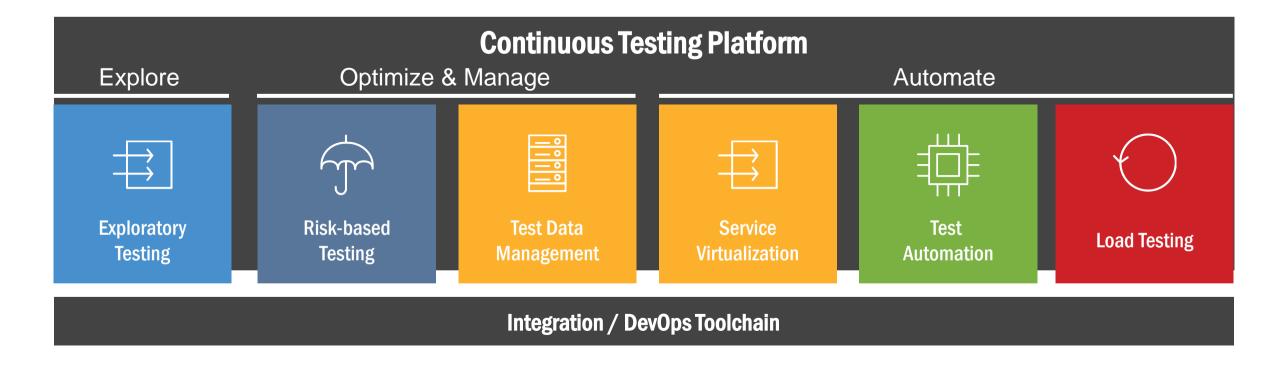
























































PLAN

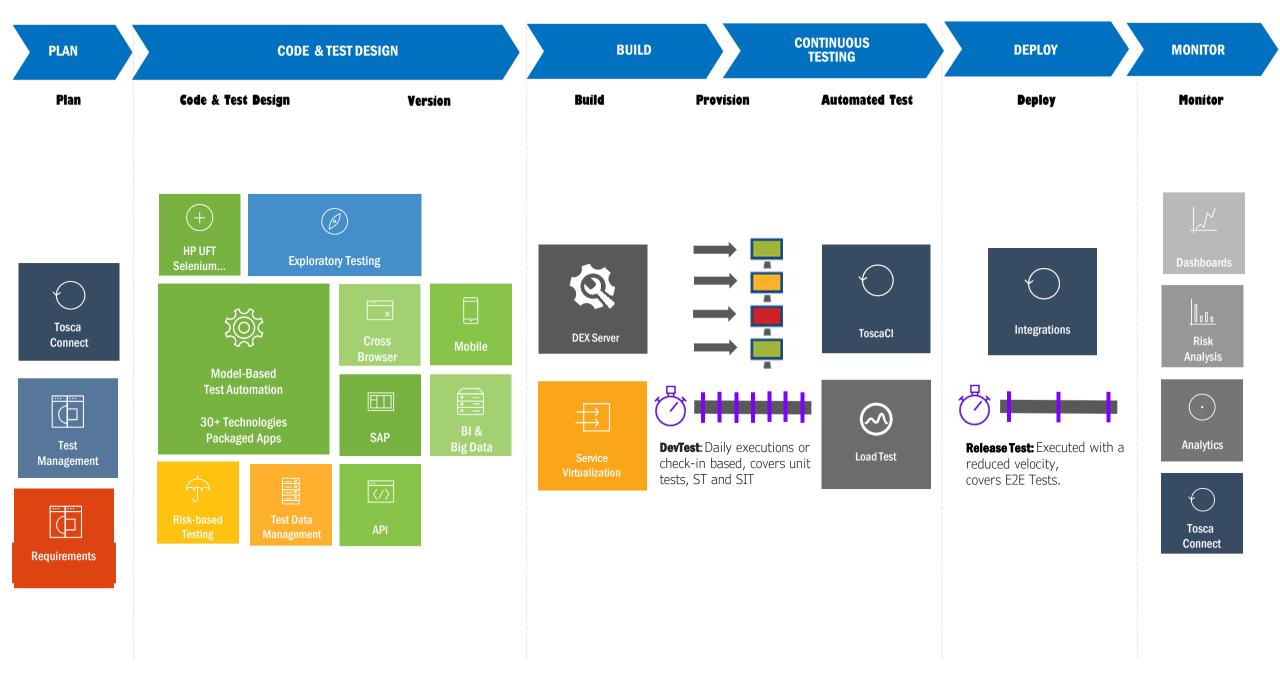
CODE & TEST DESIGN

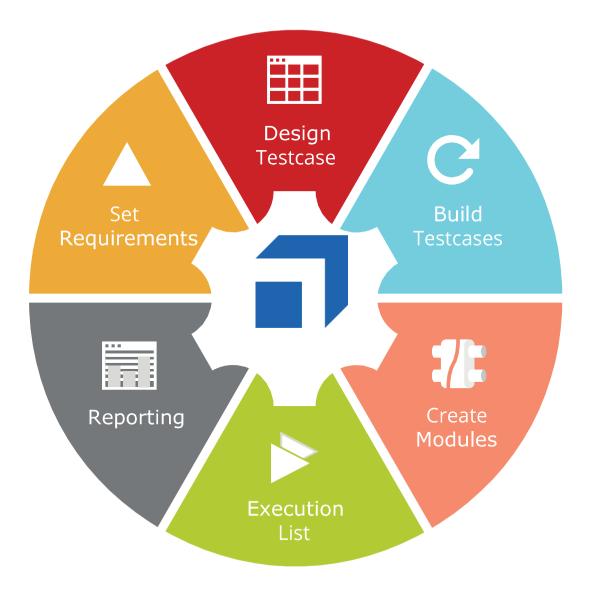
BUILD

CONTINUOUS
TESTING

DEPLOY

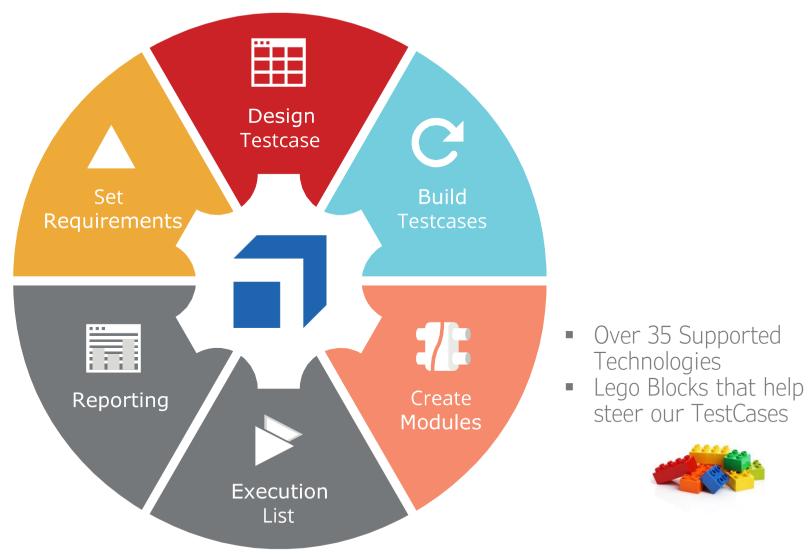
MONITOR





- Test Data
- Optimize Number of TestCases for Maximum Effectiveness
- Reusable for TestData Management (TDM), API-Tests, UI-Tests, Mobile etc

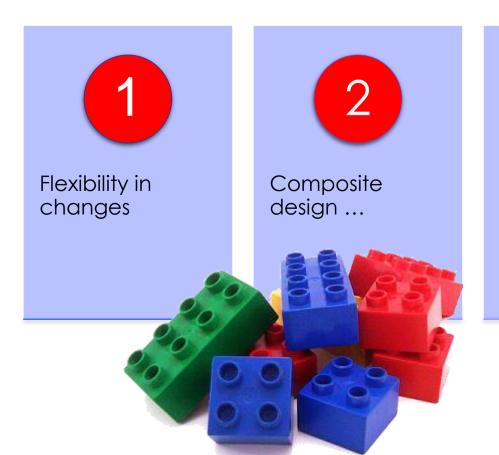
- Requirements
- Risk coverage
- Test scope



#### **KEY FEATURES**

- Module based testing
- Test Data Design
- Test data management
- Risk based test coverage
- The Exploratory Testing
- E2E testing cross different technologies
- No programming or scripting skill needed
- Full test life cycle in one tool
- Converting manual tests to automated
- Collaboration
- Parallel test case execution

#### **MODULARITY**



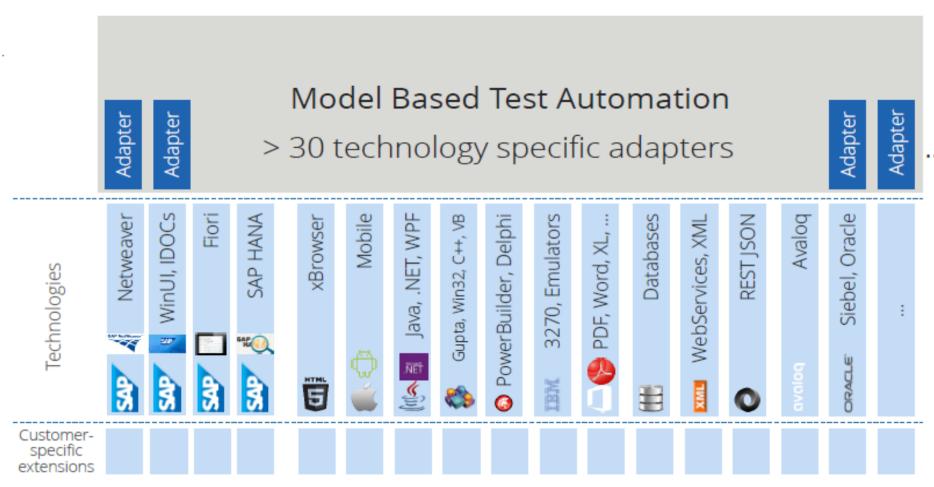
3

Scanning real applications

4

> 30 technology specific adapters ...

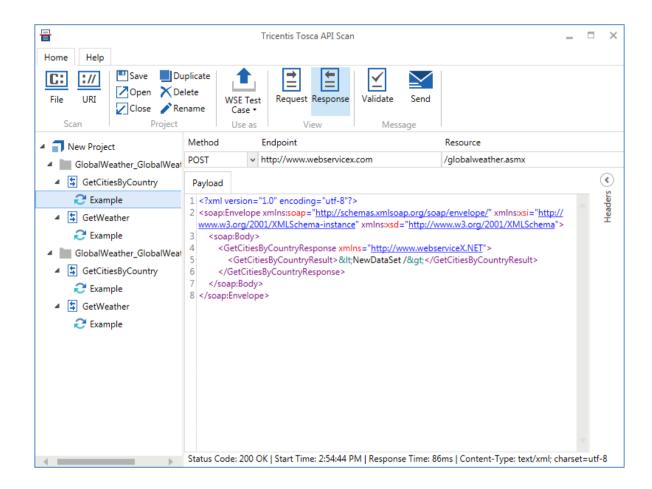
#### **TECHNOLOGIES**



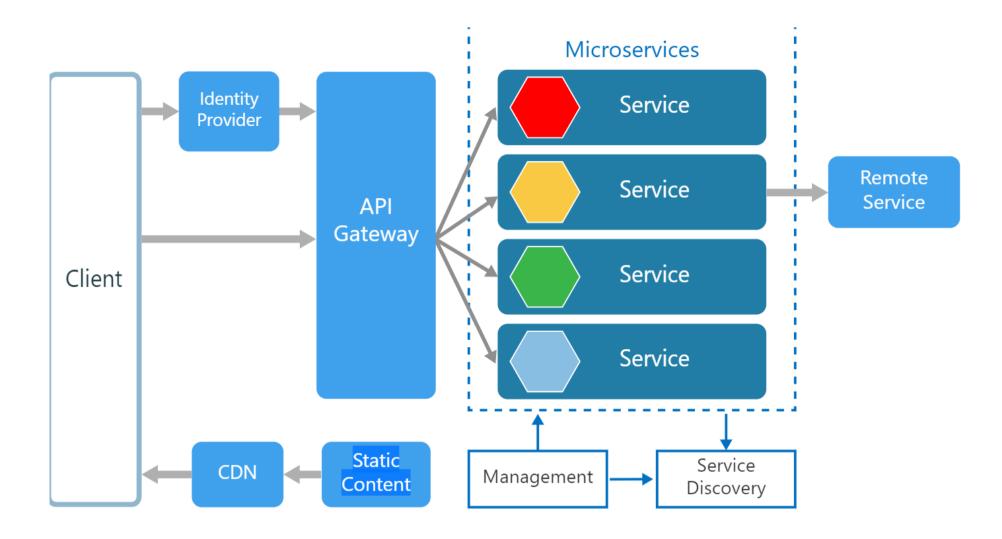
TOSCA allows for easy tests across any technology and/or platform!

## API

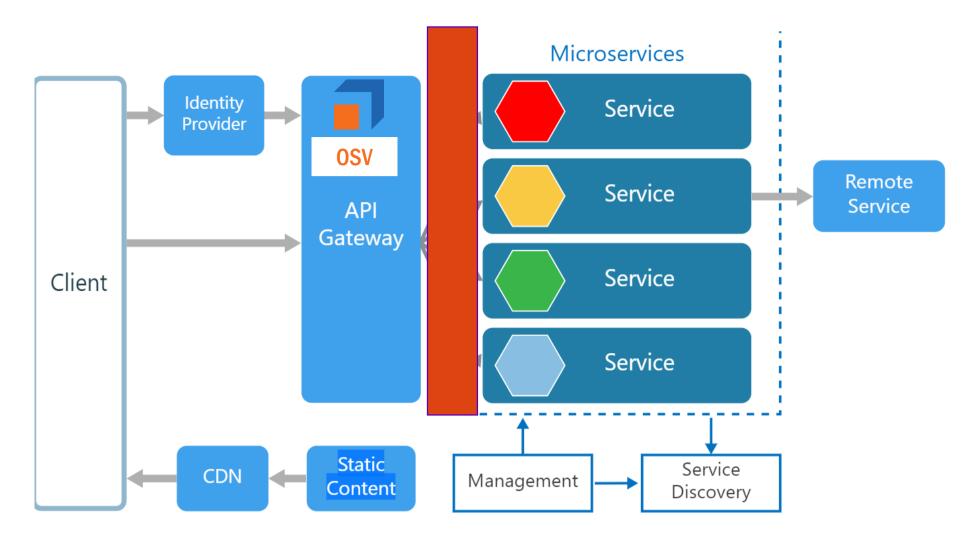
- SOAP, REST, CUSTOM
- IMPORT DEFINITIONS
- WSDL
- WADI
- XSD
- Swagger
- Odata
- Json schema
- QUICK TEST FUNCTION



## SERVICE TESTING



# ORCHESTRATED SERVICE VIRTUALIZATION



# LIVE DEMO

# MAIN BENEFITS

- TIME REDUCTION ON COMPLEX TEST CASES
- TEST SCENARIO MAINTENANCE
- FLEXIBILITY ON REQUIREMENTS CHANGES
- SAP TESTING
- MICRO SERVICE TESTING
- CROSS TECHNOLOGY TESTING
- TEST DATA MANAGEMENT

Real World Example  Australian Bank	Test Cases	Risk Coverage	Run Time
Start	2200	30%	8 WEEKS
Optimize  value-based Test Cases	600	85%	2 WEEKS INCL. TDM
Automate  model-based test Automation	87%  automation level	1 Hours  smoke testing	2 DAYS  regression testing
© Integrate  Continuous Integration		12 MINS  smoke testing	< 3 Hours  Continuous regression

# Executing 102 test cases and 337 business components (3 weeks)

Manual YYY 3 people

Automate YY 2 people

d

#### **Duration**

Manual 2 weeks

We are able to run the scripts in 6 hours but we consider a 3 days window due to the time to bug fix and retest

Compared to traditional manual testing, Automation provides a 500% efficiency in test execution.

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