

# A STAR TREK JOURNEY IN THE TRAVEL INDUSTRY

**Presented by Lisa Persson & David-Olivier Saban** 





695 passengers poarded million (1)

526 million bookings processed

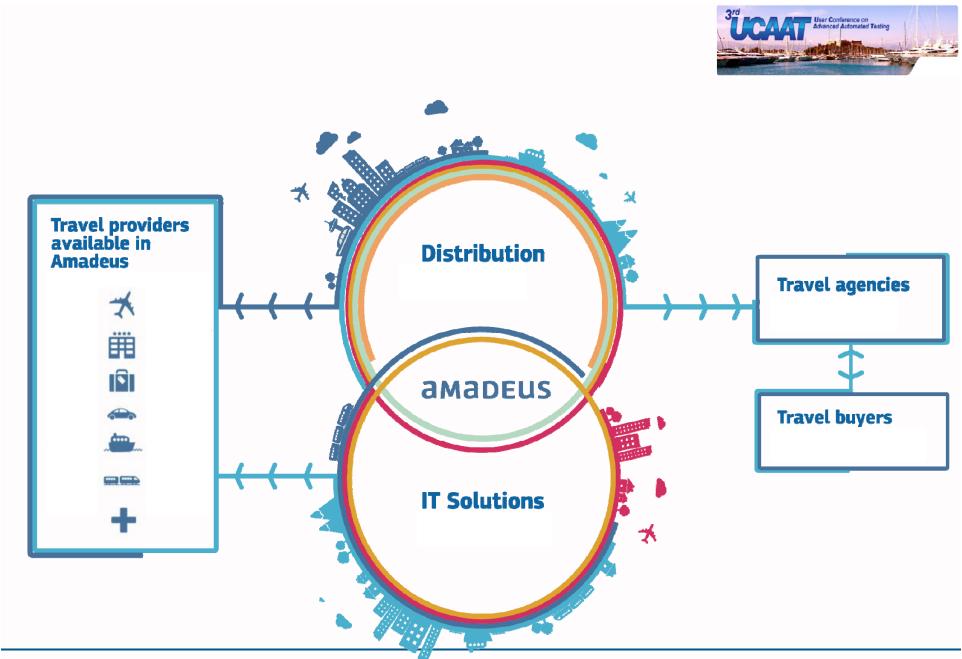
Operations in 195 countries







amadeus



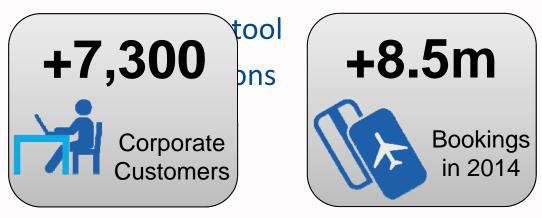
User Conference on Advanced Automated Testing

amadeus



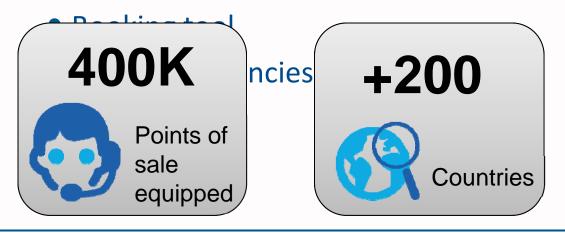
#### **SUT – Systems Under Test**

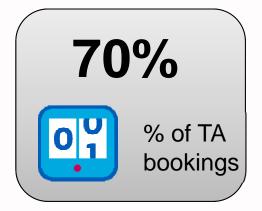
Amadeus e-Travel Management





Selling Platform Connect







#### The road less travelled





#### **Conquering Mount System Test**

- Challenges with Automated System Tests
  - Translate human verifications into code

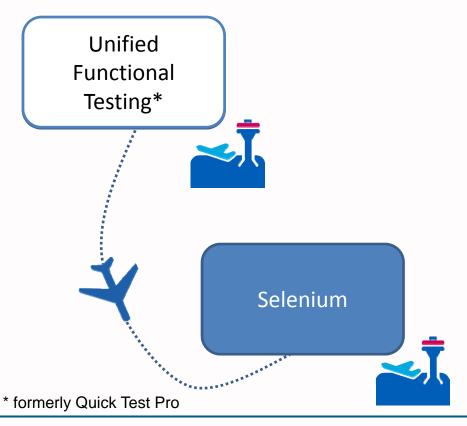


Test analysis

Reuse code between test levels

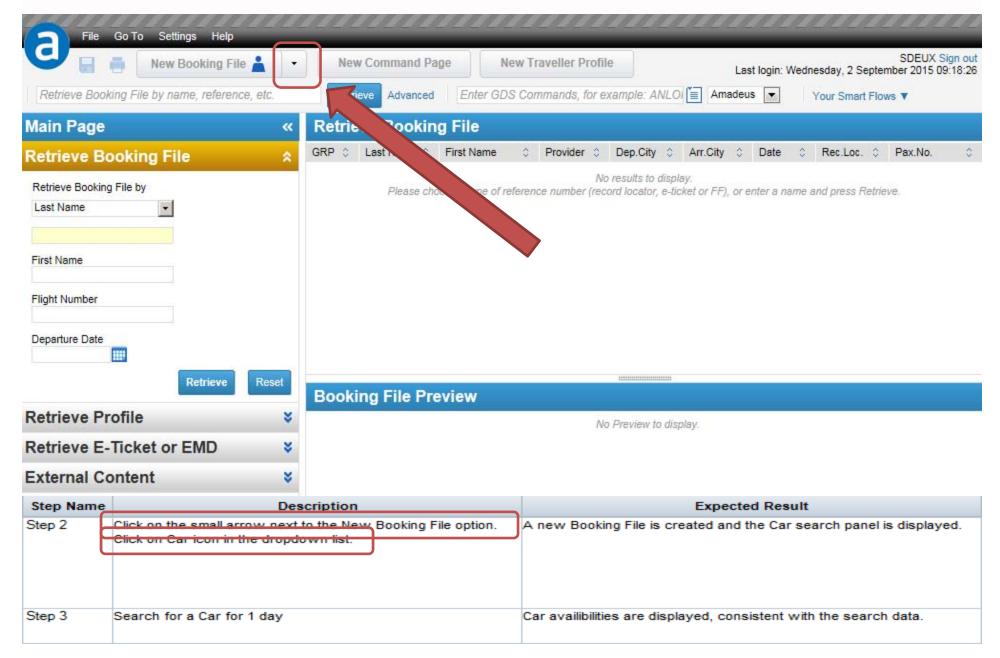


### **Our journey**

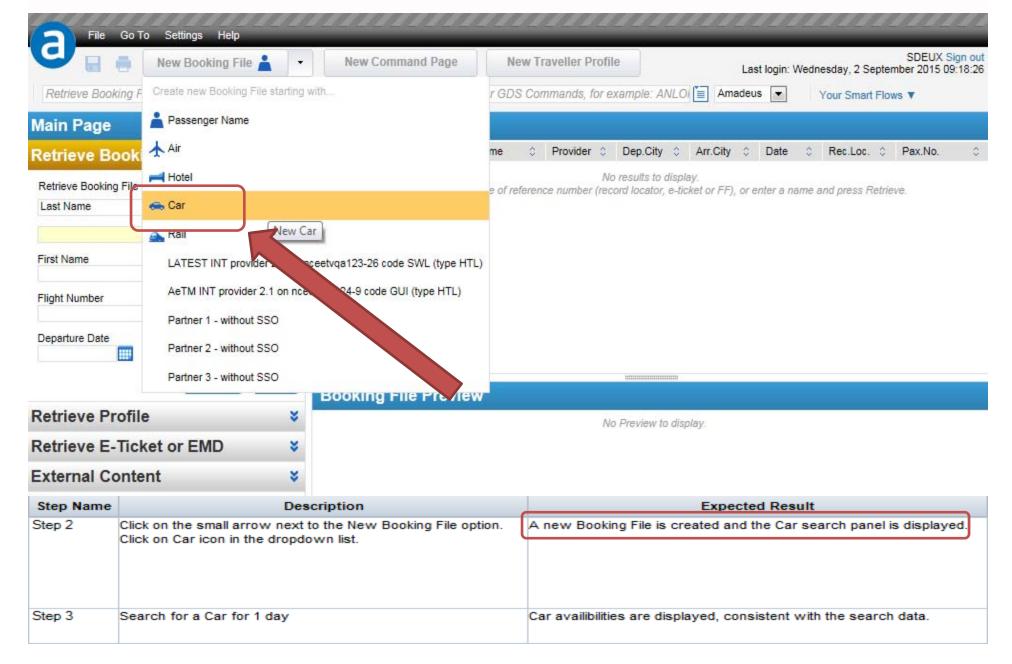


- Heavy, proprietary
- VB script
- Wide-spread

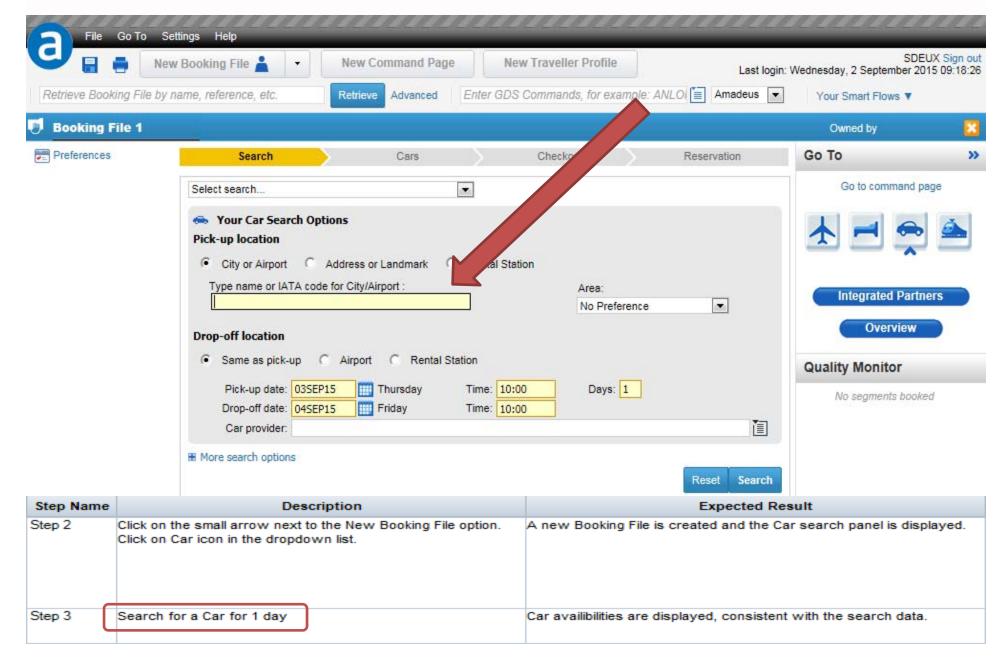




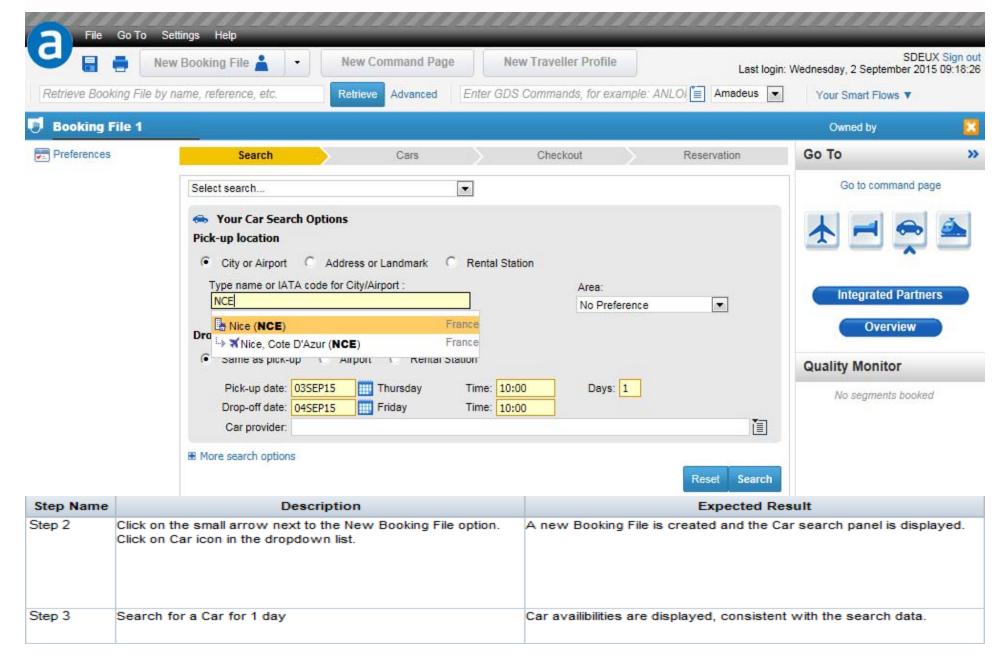




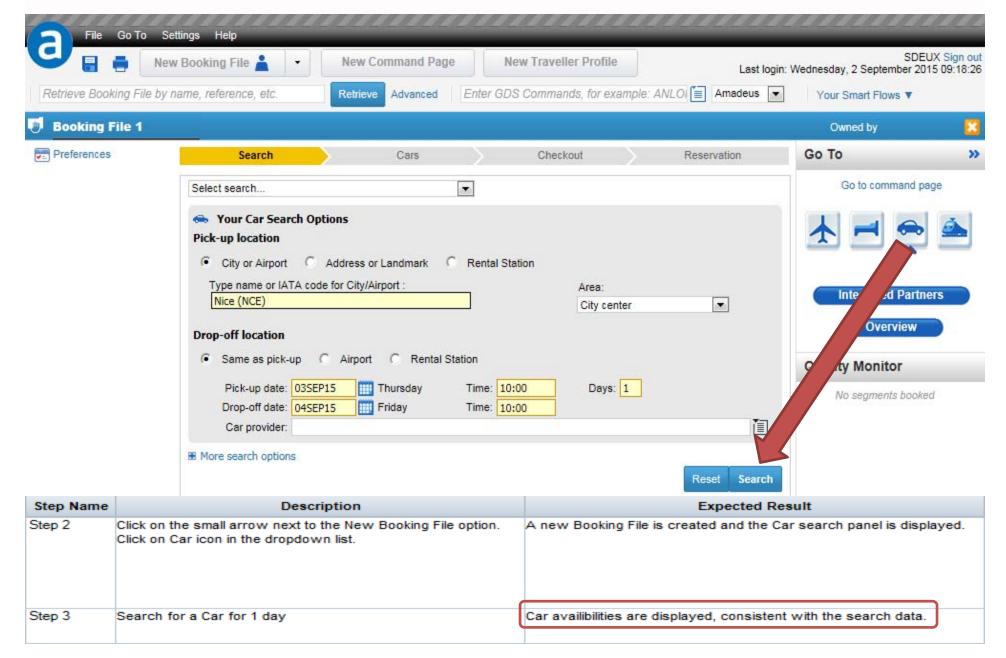




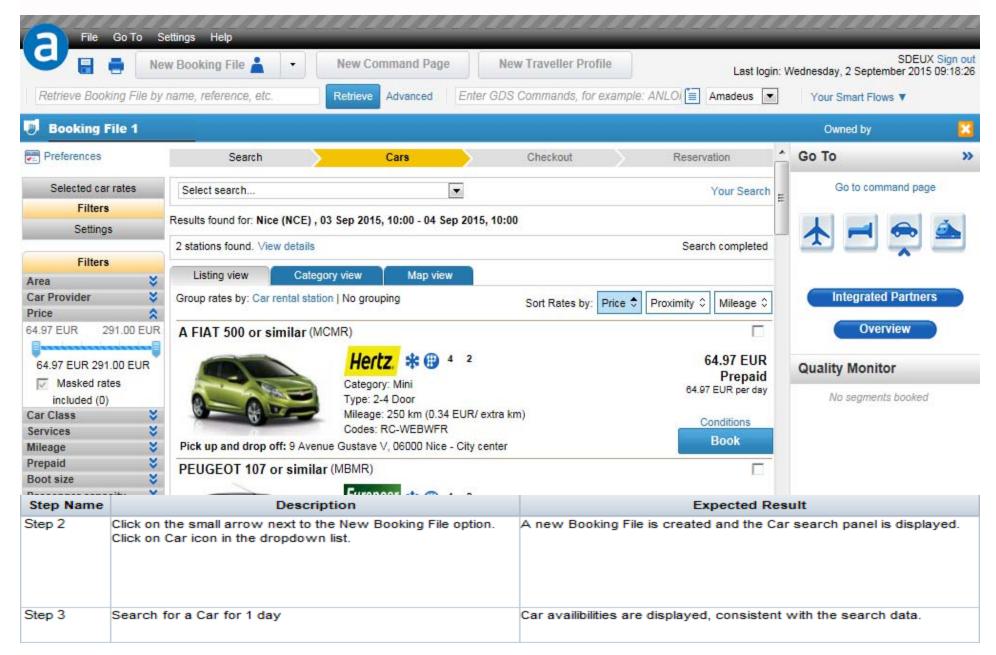












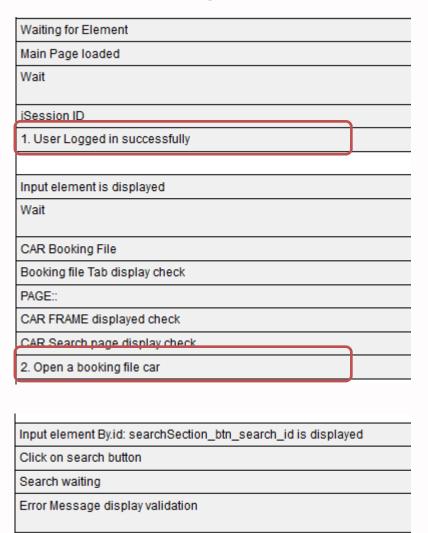


#### Selenium code snippet

```
mainPage = HelperLogin.loginWith(loginParams);
reporter.reportPassed("1. User logged in successfully", "");
PageCarSearch carPage = mainPage.selectCarBookingFile();
reporter.reportPassed("2. Open a booking file car", "");
PageCheckout pageCheckOut =
   carPage.actionCarSearchByCA(strPickUpPoint);
```



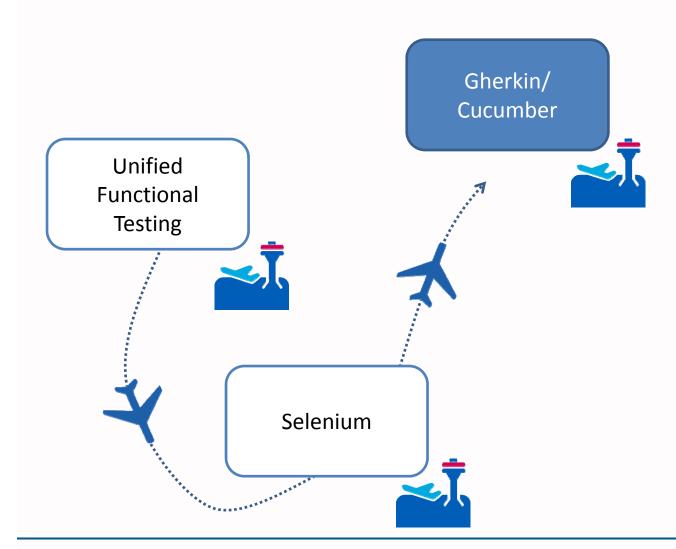
### Selenium printout – home-grown



Difficult to analyze

 Not reviewable by functional people





User Conference on Advanced Automated Testing



#### Introduction to Cucumber

```
Scenario: Add two numbers
 Given I have entered 50 into the calculator
 And I have entered 70 into the calculator
 When I press add
  Then
             I type 50 in the input field
              Five is entered, then zero
      /I have entered (.*) into the calculator/ lo |n|
Given
 calculator = Calculator.new
 calculator.push(n.to i)
end
```

Source: https://cucumber.io/



#### **Cucumber – Criticism**

"Reading and writing Gherkin is

waste of time *[for non-chnical stakeholders]."* 

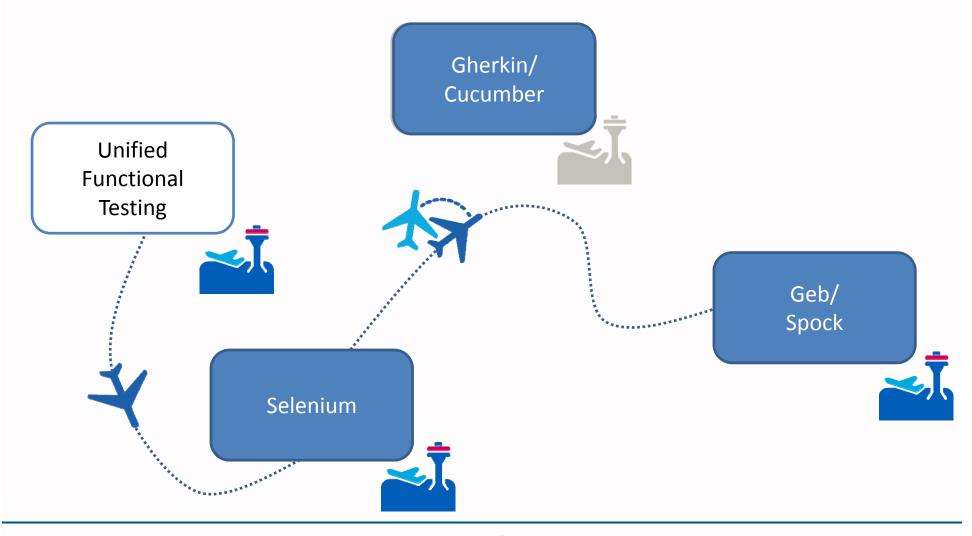
"The more naturally it reads, the more difficult it is to translate it into reusable code."

"All the reasons to use it ... are theoretical, and I have never seen them ... be remotely applicable in the real world."

Source: http://www.jimmycuadra.com/posts/please-don-t-use-cucumber



## Geb/Spock





#### **Introduction to Geb/Spock**

Geb page object

Spock test

Definition of at

Geb content

Spock test



## **Introduction to Geb/Spock**

given: 'The user is on Car Search Page'

when: 'Search for a car for 1 day'

then: 'The user is on the Car Availabilities page'

and: 'New Record Locator number is displayed'



### **Spock printout – Damage Control**



#### Picking up speed



- Large scale usage of Geb/Spock
  - End-to-end system tests
  - Inherited from manual QA
- 6 months
  - 100 tests
  - 180 Geb pages/modules



#### Reusable code

Shared framework → Synergy

Responsibility distribution 
 UI + Geb pages aligned



## **Bumps in the road**

Unstable SUT

Step 3 Search for a Car for 1 day

- Inherited scenarios
- Headless vs normal browser





#### Sailing without wind

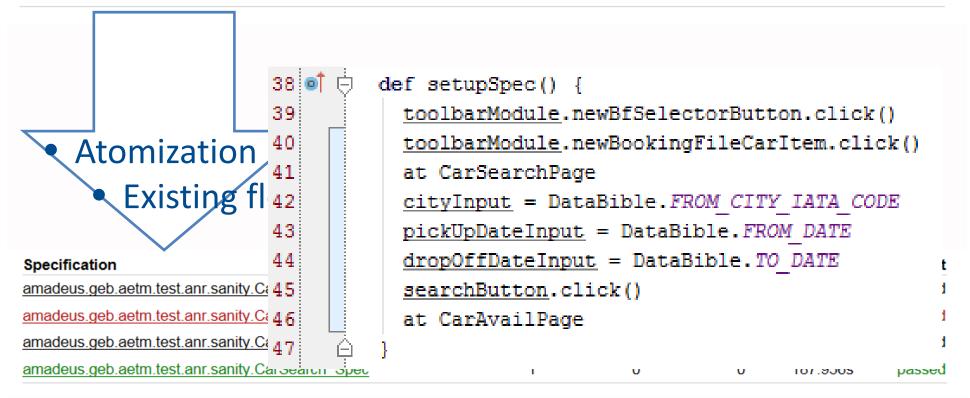


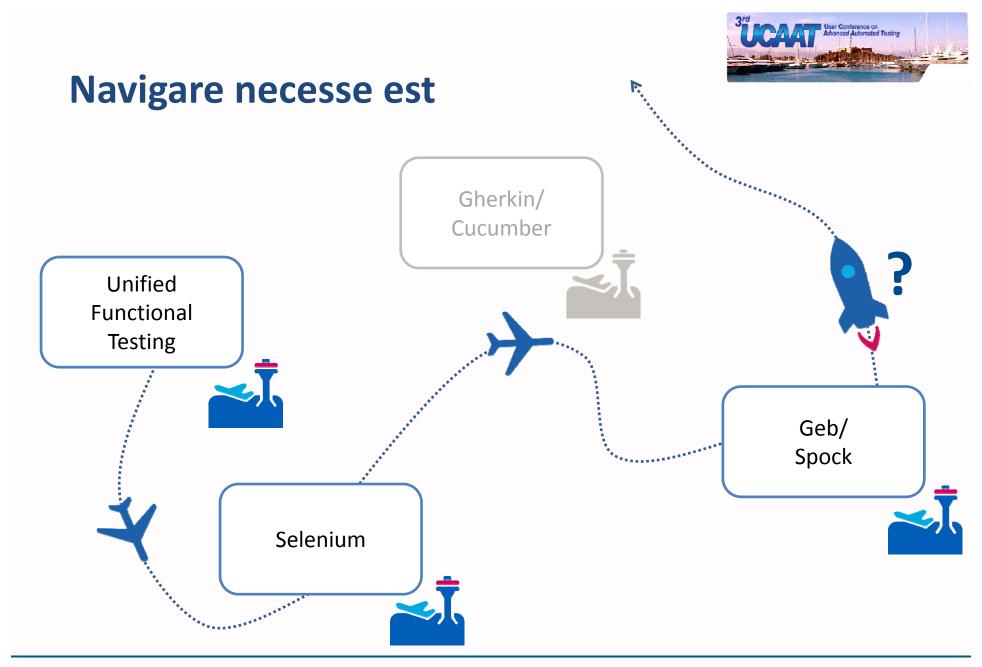
- Limitations in Geb/Spock
  - Standalone application
  - Compatibility with old IE
  - Technical problems



#### The journey continues

Specification	Features	Failures	Skipped	Duration	Result
amadeus.geb.aetm.test.anr.sanity.CarBooking Spec	1	1	0	1,087.037s	failed







## Why choose Geb/Spock?



- ✓ Easy to analyse
- ✓ Plain English



✓ Reusable code



# A STAR TREK JOURNEY IN THE TRAVEL INDUSTRY

Presented by Lisa Persson & David-Olivier Saban

