

# INTÉGRATION BDD/GHERKIN DANS UN ALM

**Eric Gavaldo**

CEO  
XQual  
France Sophia

**Terry Mack**

QA Technical Architect  
Pinnacol  
USA Colorado

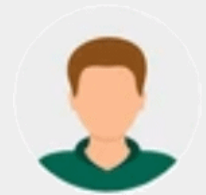
Soirée du Test Logiciel  
6 Décembre 2022

# BDD/GHERKIN DANS UN ALM



## GHERKIN: POURQUOI ?

ENCOURAGE LA COLLABORATION  
DÉFINIT UN LANGUAGE COMMUN AUX DIVERS MÉTIERS



DEVELOPERS

```
public short test(short type, String input) {  
  short result = this.pen(type).write(input);  
  if (result == FAILURE)  
    return FAILURE;  
  
  return assert(this.paper.read().equals(input));  
}
```

TEST-AUTO



BUSINESS ANALYSTS  
PRODUCT OWNER

Lorsqu'on écrit avec un stylo 1 couleur  
une phrase simple sur du papier, on doit  
pouvoir la relire facilement.

ou

As a user  
I want to be able to write something with it  
So that someone else can read it

USER-STORY



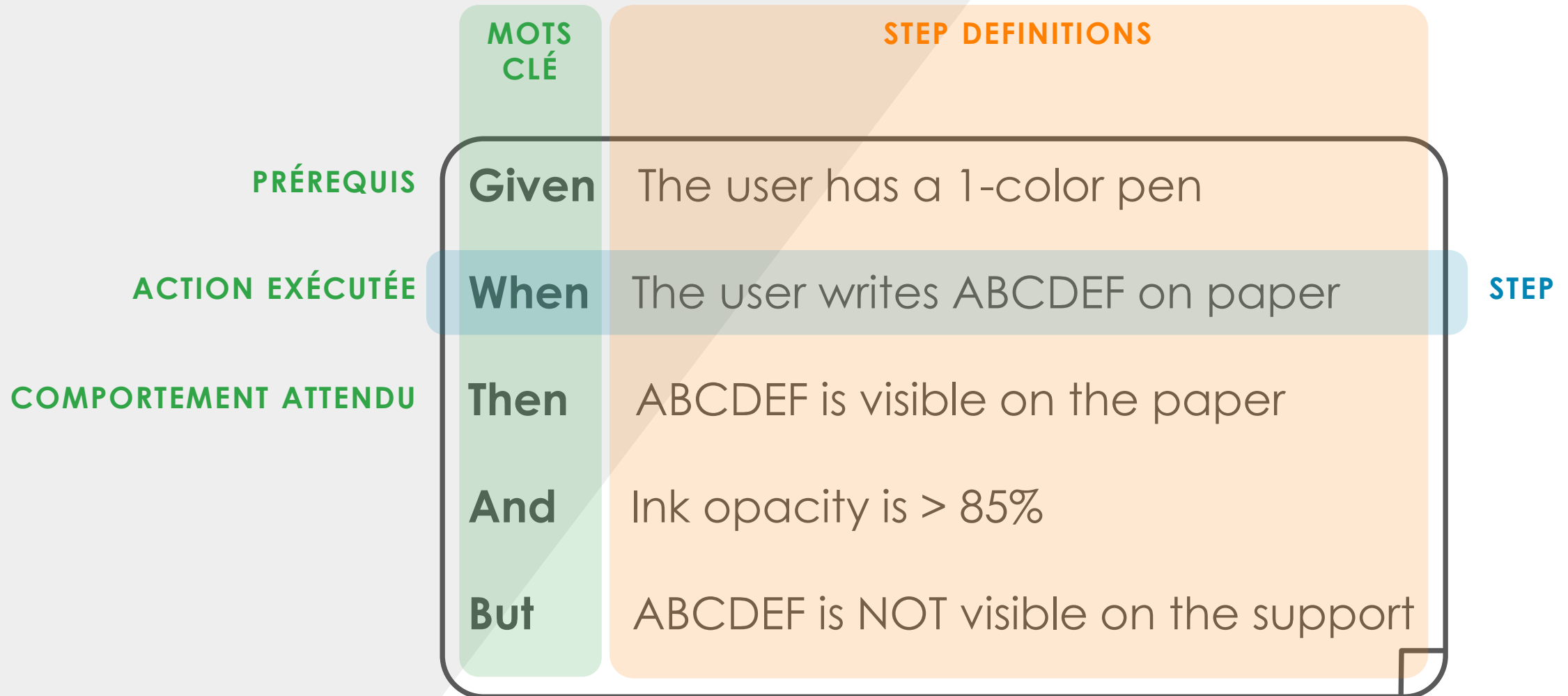
TESTERS

- 1) Prendre une feuille de papier
  - 2) Prendre un stylo 1-couleur
  - 3) Ecrire ABCDEF avec le stylo sur le papier
  - 4) Vérifier qu'on peu lire ABCDEF sur le papier
- PROCEDURE

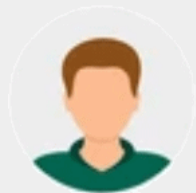
**Given** The user has a 1-color pen  
**When** The user writes ABCDEF on paper  
**Then** ABCDEF is visible on the paper



# GHERKIN: COMMENT ?



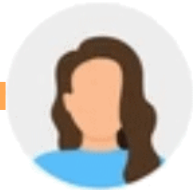
# CUCUMBER, ROBOT-FRAMEWORK, JBEHAVE...



DEVELOPERS



BUSINESS ANALYSTS  
PRODUCT OWNER



TESTERS

**The user has a 1-color pen**  
return this.pen("1C") != null;

**The user has a 4-colors pen**  
return this.pen("4C") != null;

**The user writes ABCDEF on paper**  
return this.pen(type).write(input);

**ABCDEF is visible on the paper**  
return assert(this.paper.read().equals(input));

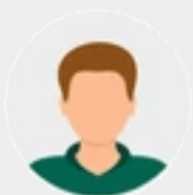


@pen  
**Feature:** Write with a pen (set#1)  
Simple activity of writing with a pen.  
This includes only very basic test scenarios.

**Scenario:** Write with a 1-color pen in Black  
**Given** The user has a 1-color pen  
**When** The user writes ABCDEF on paper  
**Then** ABCDEF is visible on the paper

**Scenario:** Write with a 4-colors pen in Red  
**Given** The user has a 4-colors pen  
**When** The user writes ABCDEF on paper  
**Then** ABCDEF is visible on the paper

# LE CONSTAT HABITUEL



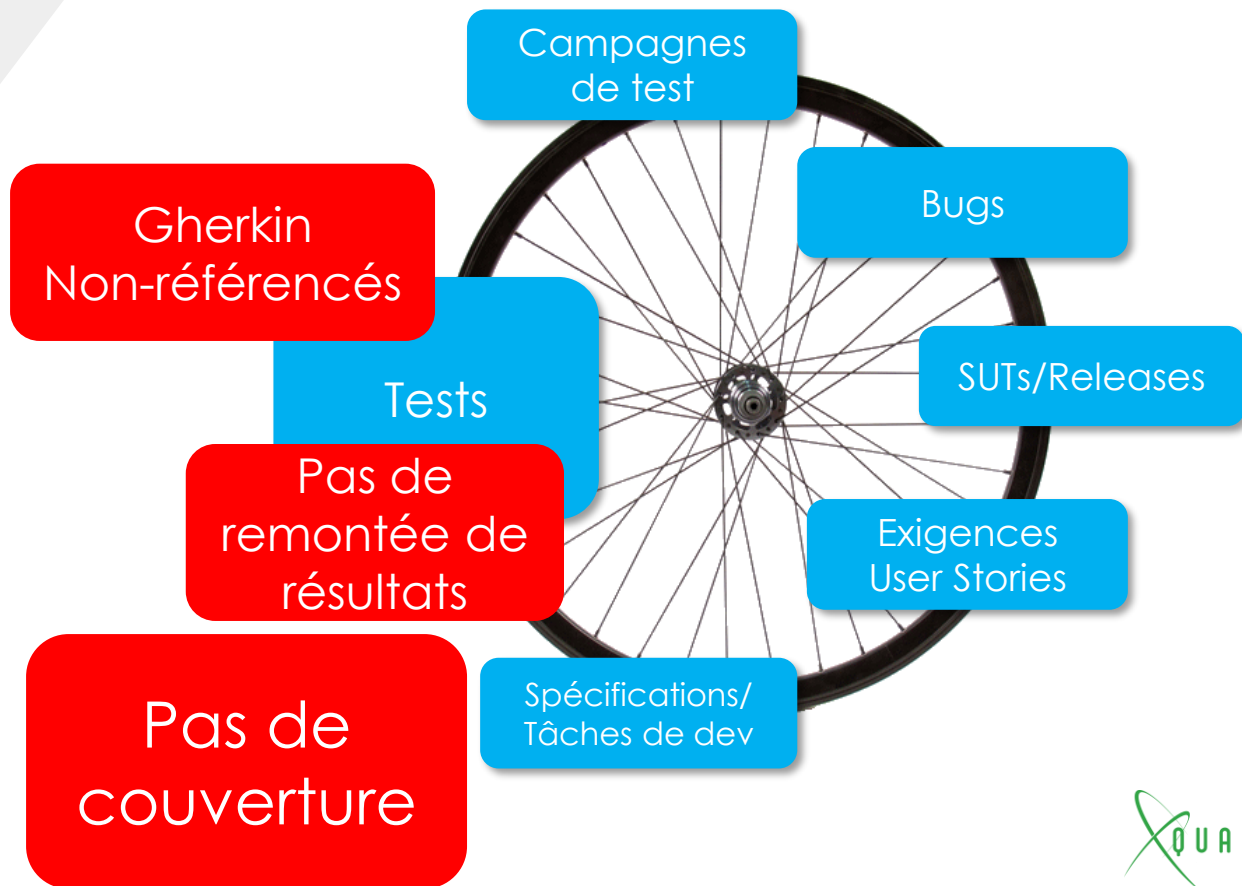
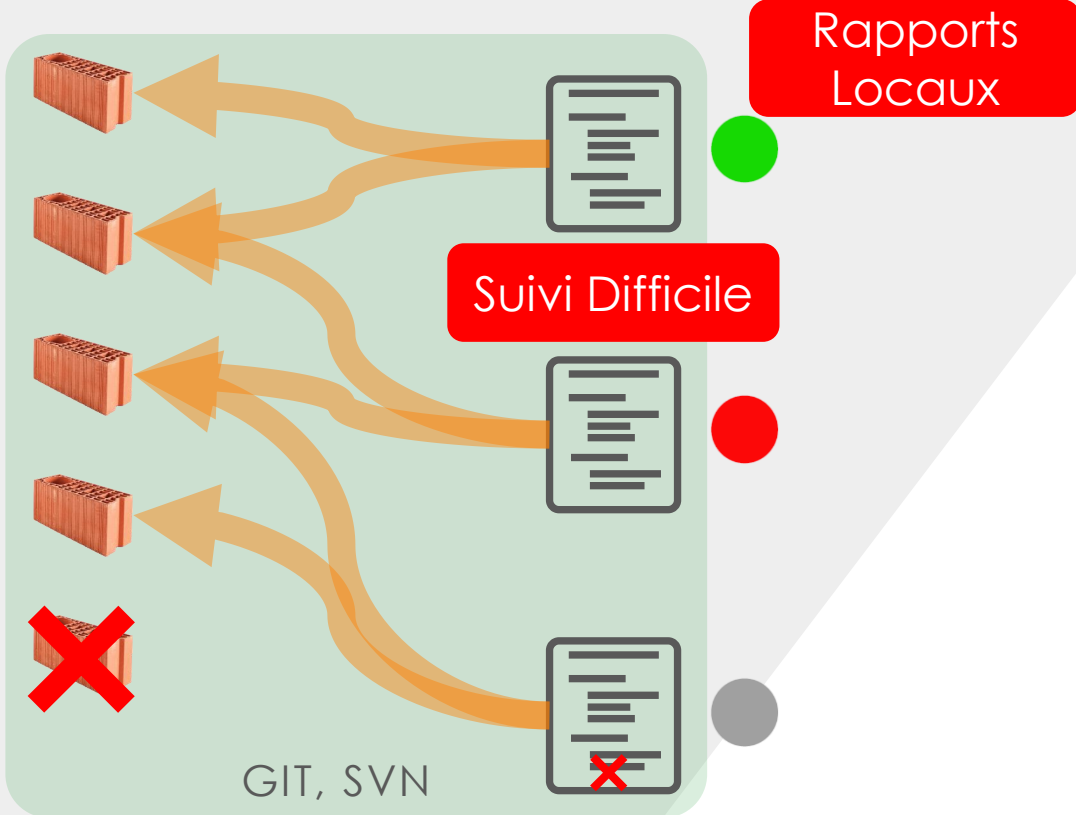
DEVELOPERS



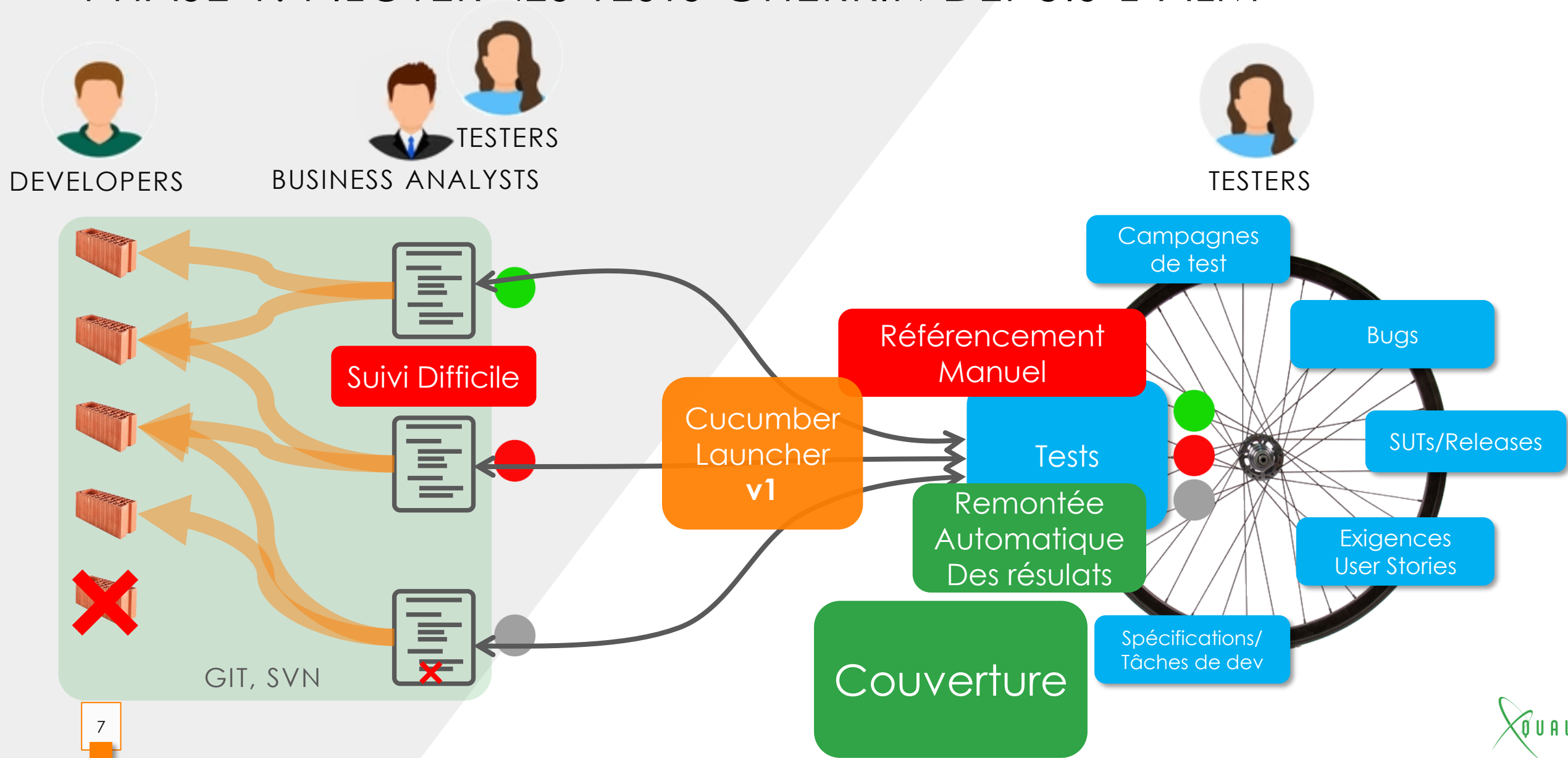
BUSINESS ANALYSTS  
TESTERS



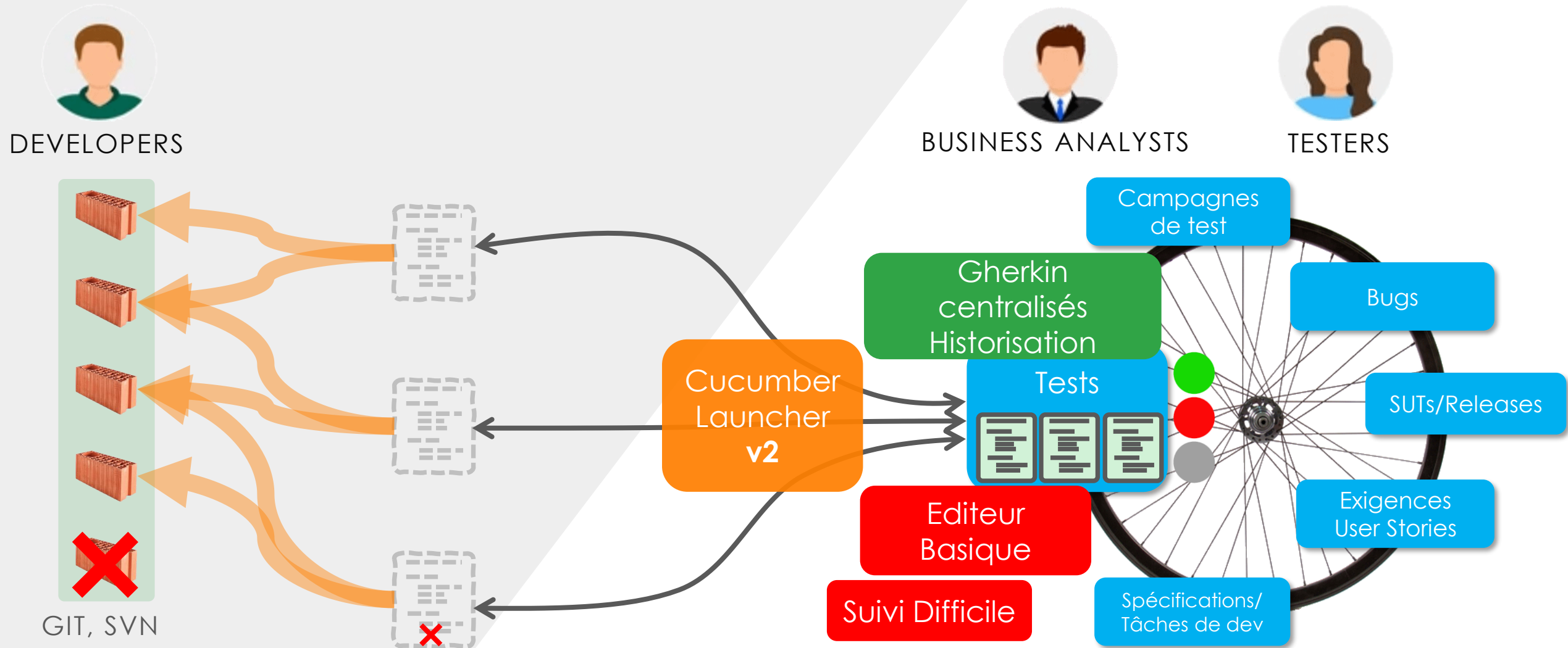
TESTERS



# PHASE 1: PILOTER LES TESTS GHERKIN DEPUIS L'ALM

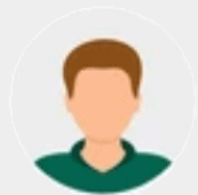


# PHASE 2: CENTRALISATION DES GHERKIN DANS L'ALM





# PHASE 3: UN VRAI IDE GHERKIN



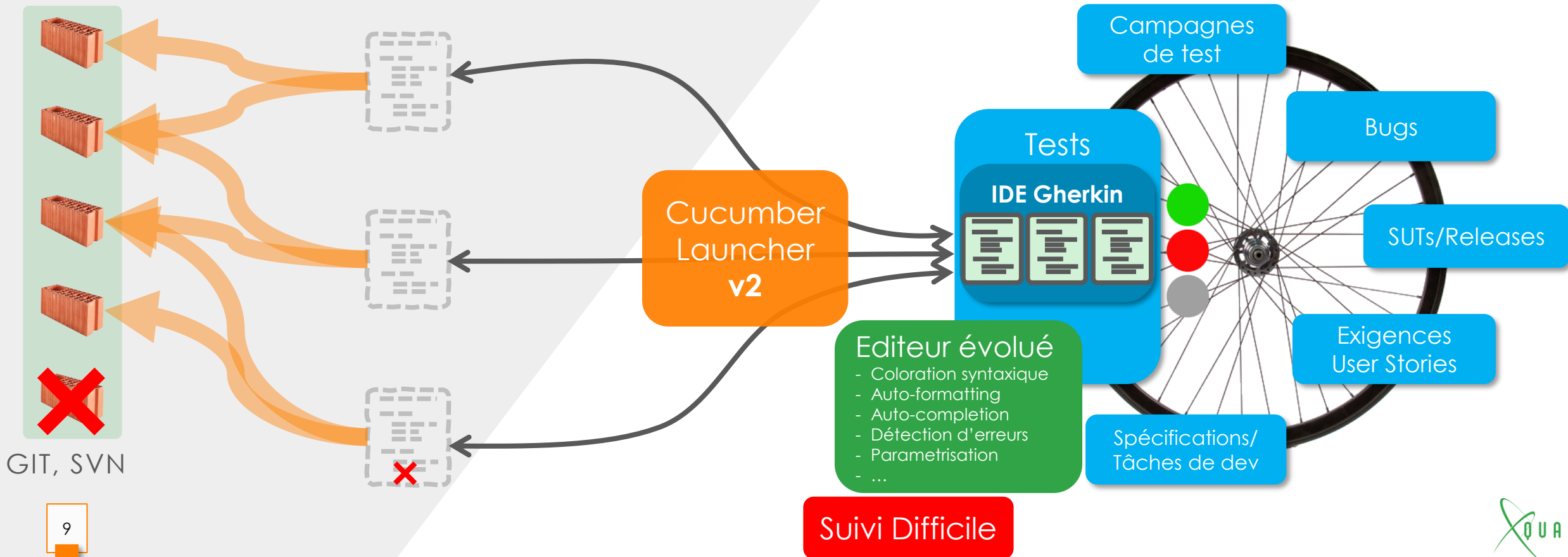
DEVELOPERS



BUSINESS ANALYSTS



TESTERS



# L'ÉDITEUR

```
1 @pen @ink
2 Feature: Write with a pen (set#1)
3   Simple activity of writing something with a pen on paper.
4   This includes only very basic test scenarios.
5
6 Scenario: Write with a 1-color pen in Black
7   This scenario does not use parameterization
8
9   Given The user has a 1-color pen
10  When The user writes ABCDEF on paper
11  Then ABCDEF is visible on the paper
12
13 Scenario Outline: Write with a 1-color pen on different paper weight
14   This scenario uses parameterization
15
16   Given The user has a 1-color pen
17   When The user writes <sentence> on a <weight> paper
18   Then <sentence> is visible on the paper
19   And The ink dries in less than 1.5 seconds
20   And The
21     ⚡ The ink dries in less than 1.5 seconds
22 Example ⚡ The print quality is excellent
23   | sen ⚡ ABCDEF is visible on the paper
24   | ABC ⚡ <sentence> is visible on the paper
25   | abcdefghijklmnopqrstuvwxyz | 110gsm (standard) |
26   | 0123456789 | 110gsm (standard) |
27   | ABCDEFGHIJKLMNOPQRSTUVWXYZ | 160gsm (light bristol) |
28   | abcdefghijklmnopqrstuvwxyz | 160gsm (light bristol) |
29   | 0123456789 | 160gsm (light bristol) |
30   | ABCDEFGHIJKLMNOPQRSTUVWXYZ | 298gsm (heavy bristol) |
31   | abcdefghijklmnopqrstuvwxyz | 298gsm (heavy bristol) |
32   | 0123456789 | 298gsm (heavy bristol) |
33
34 Scenario: Write in Black with a 4-colors pen on different paper weight
35   Given The user has a 4-colors pen
36   When The user switches to the Black color
37   Then ABCDEF is visible on the paper
38   And ABCDEF is displayed in Black
39   And The ink dries in less than 1.5 seconds
40   And The print quality is excellent
```

## Syntax Highlighting

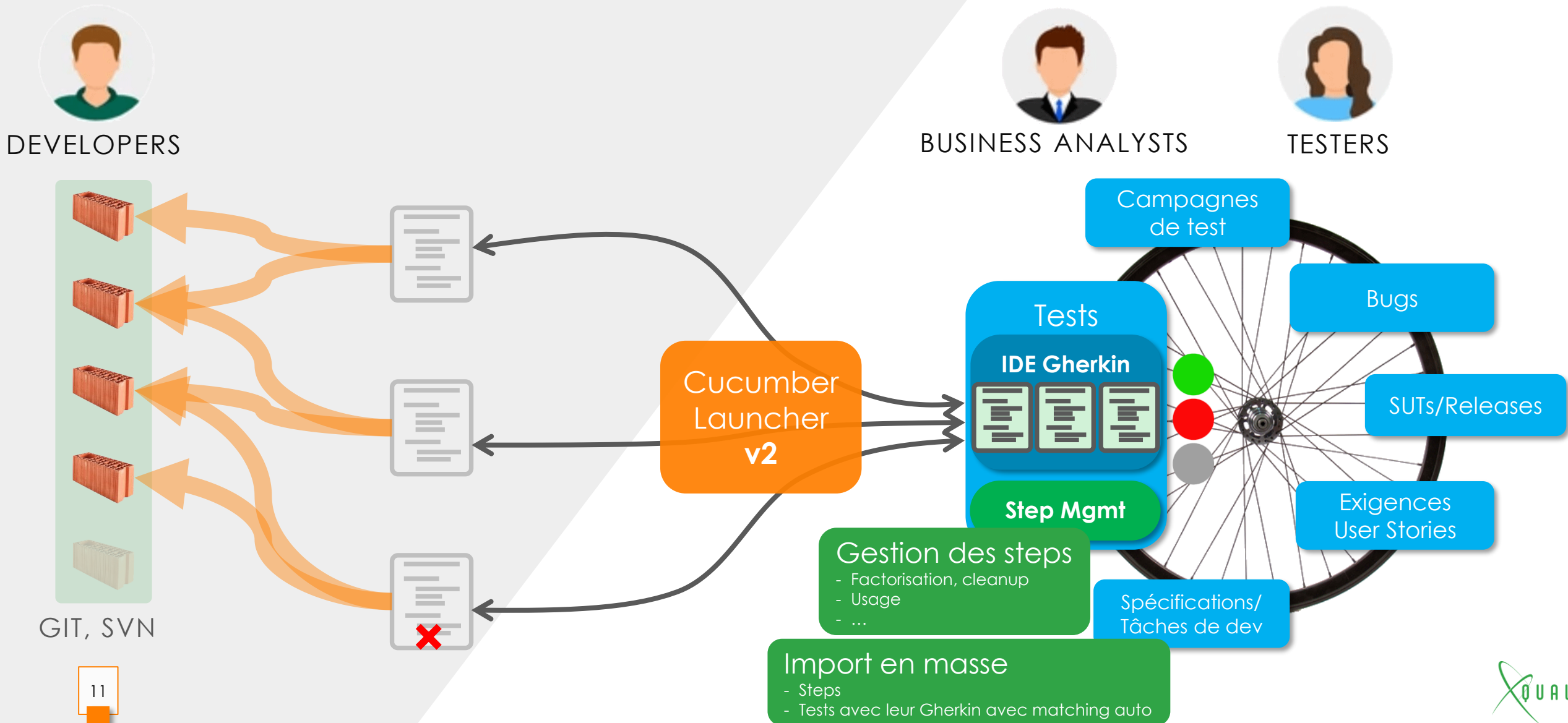
### Support:

- Feature
- Scenario
- Given/When/Then/And/But
- Description
- Parametrisation (Scenario Outline)
- Tags

### Menu contextuel:

- Aide en ligne sur chaque step definition
- Changement en masse de toutes les occurrences
- Auto-formatage
- **Auto-completion !**

# PHASE 4: GESTION DES STEPS



# LA GESTION DES STEPS

Custom fields Params Attributes **Gherkin Steps**

All Given When Then

Search by description

Type	Id	Description	Tests#	Help
WHEN	16	The user writes {string} on the {int}gsm paper	0	?
THEN	14	<sentence> is displayed in Black/Blue/Green/Red	0	?
THEN	13	ABCDEF is displayed in Black	2	?
THEN	11	ABCDEF is visible on the paper	2	?
WHEN	10	The user writes ABCDEF on paper	3	?
THEN	9	The print quality is excellent	3	?
GIVEN	8	The user has some <weight> paper	0	?
WHEN	7	The user writes {string} on the {string} paper	0	?
WHEN	6	The user switches to the Black/Blue/Green/Red color	3	?
THEN	5	The ink dries in less than 1.5 seconds	2	?
THEN	4	<sentence> is visible on the paper	2	?
WHEN	3	The user writes <sentence> on a <weight> paper	2	?
GIVEN	2	The user has a 4-colors pen	3	?
GIVEN	1	The user has a 1-color pen	2	?

14 items

## Ajout dans le menu contextuel:

- Insertion dynamique d'un nouveau step au catalogue lors de l'ajout d'un step pendant l'édition

Import avec 'matching' automatique

## Panneau de gestion centralisée des steps

- Ajout/Édition/Effacement
- Recherche
- Filtrage par type (GIVEN, WHEN ou THEN)
- Édition centralisée (changement automatique dans tous les tests)
- Nombre de références
- Références des tests utilisant chaque step definition

```
6 Scenario: Write with a 1-color pen in Black
7 This scenario does not use parameterization
8
9 Given The user has a 1-color pen
10 When The user writes ABCDEF on a white paper sheet
11 Then ABCDEF is visible on the paper
12
13 Scenario Outline: Write with a 1-color pen on di
14 This scenario uses parameterization
15
16 Given The user has a 1-color pen
17 When The user writes <sentence> on a <weight>
18 Then <sentence> is visible on the paper
19 And The ink dries in less than 1.5 seconds
20
21
```

Insert in the catalog Ctrl+F3

Change All Occurrences Ctrl+F2


Format Document Shift+Alt+F

Cut

Copy

Paste

Command Palette F1



XQUAL

DES QUESTIONS ?