

Management of testing activities in Agile, Traditional and Hybrid processes

Dear Participant,

I'm a student enrolled in a master in Software Engineering and IT Management. As my master thesis is focused on the Management of testing activities in Agile, traditional and hybrid processes, I realized a survey to study all these things.

Mainly, the survey was realized to:

1. validate the concepts about Agile and traditional processes reported in the paper "Software Testing from an Agile and Traditional view";
2. understand how the companies manage the testing activities in a hybrid process.

About the survey:

- you should be done in 10 minutes at most;
- we will collect and analyse your answers only in an anonymized form. Furthermore, you can choose to specify or not the company you work for.

It would be great if you could fill out our survey, and we thank you in advance for your effort and time!

By clicking on the "Next" button, you provide your consent to the conditions above.

***Campo obbligatorio**

Preliminary
Information

This section is useful to understand your background and your experience.

1. What is your role in the company? *

Contrassegna solo un ovale.

- ☐ Developer
- ☐ Tester
- ☐ Consultant
- ☐ Analyst
- ☐ Architect
- ☐ Project/Team Manager
- ☐ Product Owner/Manager
- ☐ Scrum Master/Agile Coach
- ☐ Quality Manager
- ☐ Altro: _____

2. How many years of experience have you got in the role you selected in the previous question? *

Contrassegna solo un ovale.

- ☐ <= 2 years
- ☐ 3-5 years
- ☐ 6-9 years
- ☐ >= 10 years

3. How many years of experience have you got in the IT domain?

For example: if you worked 3 years as developer and then 4 years as consultant, you have to choose the answer "6-9 years".

Contrassegna solo un ovale.

- ☐ <= 2 years
- ☐ 3-5 years
- ☐ 6-9 years
- ☐ >= 10 years

4. Which of the following development methodologies have you already worked on?

*

Seleziona tutte le voci applicabili.

- ☐ Scrum
- ☐ Extreme Programming
- ☐ Feature-driven development
- ☐ Kanban
- ☐ DevOps
- ☐ Lean software development
- ☐ Unified Process
- ☐ Waterfall model
- ☐ Spiral model
- ☐ V-model
- ☐ I don't know
- ☐ Altro: _____

Agile and
Traditional
development
processes

Think about your past experiences (both Agile and traditional processes). Tell us if you agree or not with the information reported below.

For Agile processes, we mean a methodology that involves constant collaboration with stakeholders and continuous improvement at every stage. An example of Agile is Scrum.

For traditional processes, we mean a classical methodology (like Waterfall model) used to realize a system with a linear and sequential approach.

5. How much do you agree, in an **Agile testing process**, with the following points?

*

1 = I totally disagree, 5 = I totally agree.

Contrassegna solo un ovale per riga.

	1	2	3	4	5
Testers are integrated into the development team.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Testing preparation begins with user stories.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Focus is to test high value areas first.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Continuous stakeholder communication is fundamental.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Testing process adaptable to changes.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Rough planning is enough.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Typically, Agile testing process brings less costs and cost of change is minimal	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Testers should have knowledge of software testing and development.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Automated testing is fundamental.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Testing executed at every iteration.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

6. How much do you agree, in a **Traditional testing process**, with the following points? *

1 = I totally disagree, 5 = I totally agree.

Contrassegna solo un ovale per riga.

	1	2	3	4	5
Separate test teams and dev teams.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Focus is on test preparation, execution, documentation.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Communication through documentation.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Test teams are heavily involved after development is complete.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Testers: Infrequent communication with customer, development teams and stakeholders.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Testers work on pre-defined scope.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Changes to scope usually cause delays in the whole schedule.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Needs very formal planning.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
High cost of change.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Testers have to be skilled in testing and test processes.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Automated testing is optional.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

The testing phase starts only when coding phase is completed.

☐☐☐☐☐

Hybrid development process

For hybrid processes, we mean a methodology that include some practices from traditional processes and some from Agile processes.

An example: A methodology that uses some practises of Scrum (Agile) and some practises of Waterfall model (Traditional) is a Hybrid process.

7. Have you ever worked with Hybrid approaches? *

Contrassegna solo un ovale.

☐ Yes

☐ No *Passa alla domanda 18.*

Hybrid development process

Think about your last project you worked with an Hybrid development methodology to answer these questions.

8. Is your approach more plan-driven or test-driven? *

Contrassegna solo un ovale.

☐ Plan-driven

☐ Test-driven

9. How much do you plan in your testing process? *

Contrassegna solo un ovale.

☐ Rough planning is enough.

☐ Needs very formal planning.

10. How does tester team works? *

Contrassegna solo un ovale.

- ☐ Testers are integrated into the development team.
- ☐ Separate test teams and dev teams.

11. How is it the communication in the team? *

Contrassegna solo un ovale.

- ☐ Continuous stakeholder communication.
- ☐ Infrequent communication with customer, development teams and stakeholders. Communication through documentation.

12. Is your testing process adaptable to changes or not? *

Contrassegna solo un ovale.

- ☐ Adaptable to changes. Changes are expected as part of the process and cause minimal delays.
- ☐ Works on pre-defined scope, and changes to scope usually cause delays in the whole schedule.

13. Is automated testing required in your testing process? *

Contrassegna solo un ovale.

- ☐ Automated testing is fundamental.
- ☐ Automated testing is optional.

14. When do you execute the testing phase? *

Contrassegna solo un ovale.

- ☐ Testing executed at every iteration.
- ☐ The testing phase starts only when coding phase is completed.

15. Which of the following practices/tools do you use? *

1 = I rarely use it, 5 = I always use it.

Contrassegna solo un ovale per riga.

	1	2	3	4	5
Acceptance test-driven development	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Automated acceptance tests	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Automated testing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Automation suites	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Behavior-driven development	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Code review	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Coding standards	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Cucumber	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
End-to-end system testing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Exploratory Testing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
FitNesse	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Integration test	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Jbehave	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Manual testing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Plan-driven development	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Prototyping	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Security testing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Session-Based Testing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
SpecFlow	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Test-driven development	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Unit test	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
User stories	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

16. How much do you agree, in a **Hybrid testing process**, with the following points?

*

1 = I totally disagree, 5 = I totally agree.

Contrassegna solo un ovale per riga.

	1	2	3	4	5
Testing preparation begins with user stories and testing continues with development.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Focus is on test preparation, execution, documentation.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Test teams are heavily involved after development is complete.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Focus is to test high value areas first.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Typically, hybrid testing process brings less costs and cost of change is minimal	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
High cost of change.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Testers should have knowledge of software testing and development and are responsive to changes.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Testers have to be skilled in testing and test processes.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

17. Do you want to add more information?

Demographical
Information

This section contains questions about where you work.

18. What is the name of your company?

19. How many employees does your company have? *

Contrassegna solo un ovale.

- ☐ 1-10 employees
- ☐ 11-50 employees
- ☐ 51-200 employees
- ☐ 201-500 employees
- ☐ 501-1000 employees
- ☐ 1001-5000 employees
- ☐ 5001-10.000 employees
- ☐ 10.001+ employees

20. What is your nationality? *

Contrassegna solo un ovale.

- ☐ Afghanistan
- ☐ Albania
- ☐ Algeria
- ☐ Andorra
- ☐ Angola
- ☐ Antigua and Barbuda
- ☐ Argentina
- ☐ Armenia
- ☐ Austria
- ☐ Azerbaijan
- ☐ Bahrain
- ☐ Bangladesh
- ☐ Barbados
- ☐ Belarus
- ☐ Belgium
- ☐ Belize
- ☐ Benin
- ☐ Bhutan
- ☐ Bolivia
- ☐ Bosnia and Herzegovina
- ☐ Botswana
- ☐ Brazil
- ☐ Brunei
- ☐ Bulgaria
- ☐ Burkina Faso
- ☐ Burundi
- ☐ Cabo Verde
- ☐ Cambodia
- ☐ Cameroon
- ☐ Canada
- ☐ Central African Republic
- ☐ Chad

- ☐ Channel Islands
- ☐ Chile
- ☐ China
- ☐ Colombia
- ☐ Comoros
- ☐ Congo
- ☐ Costa Rica
- ☐ Croatia
- ☐ Cuba
- ☐ Cyprus
- ☐ Czech Republic
- ☐ Côte d'Ivoire
- ☐ DR Congo
- ☐ Denmark
- ☐ Djibouti
- ☐ Dominica
- ☐ Dominican Republic
- ☐ Ecuador
- ☐ Egypt
- ☐ El Salvador
- ☐ Equatorial Guinea
- ☐ Eritrea
- ☐ Estonia
- ☐ Eswatini
- ☐ Ethiopia
- ☐ Faeroe Islands
- ☐ Finland
- ☐ France
- ☐ French Guiana
- ☐ Gabon
- ☐ Gambia
- ☐ Georgia
- ☐ Germany
- ☐ Ghana
- ☐ Gibraltar

- ☐ Greece
- ☐ Grenada
- ☐ Guatemala
- ☐ Guinea
- ☐ Guinea-Bissau
- ☐ Guyana
- ☐ Haiti
- ☐ Holy See
- ☐ Honduras
- ☐ Hong Kong
- ☐ Hungary
- ☐ Iceland
- ☐ India
- ☐ Indonesia
- ☐ Iran
- ☐ Iraq
- ☐ Ireland
- ☐ Isle of Man
- ☐ Israel
- ☐ Italy
- ☐ Jamaica
- ☐ Japan
- ☐ Jordan
- ☐ Kazakhstan
- ☐ Kenya
- ☐ Kuwait
- ☐ Kyrgyzstan
- ☐ Laos
- ☐ Latvia
- ☐ Lebanon
- ☐ Lesotho
- ☐ Liberia
- ☐ Libya
- ☐ Liechtenstein
- ☐ Lithuania

- ☐ Luxembourg
- ☐ Macao
- ☐ Madagascar
- ☐ Malawi
- ☐ Malaysia
- ☐ Maldives
- ☐ Mali
- ☐ Malta
- ☐ Mauritania
- ☐ Mauritius
- ☐ Mayotte
- ☐ Mexico
- ☐ Moldova
- ☐ Monaco
- ☐ Mongolia
- ☐ Montenegro
- ☐ Morocco
- ☐ Mozambique
- ☐ Myanmar
- ☐ Namibia
- ☐ Nepal
- ☐ Netherlands
- ☐ Nicaragua
- ☐ Niger
- ☐ Nigeria
- ☐ North Korea
- ☐ North Macedonia
- ☐ Norway
- ☐ Oman
- ☐ Pakistan
- ☐ Panama
- ☐ Paraguay
- ☐ Peru
- ☐ Philippines
- ☐ Poland

- ☐ Portugal
- ☐ Qatar
- ☐ Romania
- ☐ Russia
- ☐ Rwanda
- ☐ Réunion
- ☐ Saint Helena
- ☐ Saint Kitts and Nevis
- ☐ Saint Lucia
- ☐ Saint Vincent and the Grenadines
- ☐ San Marino
- ☐ Sao Tome & Principe
- ☐ Saudi Arabia
- ☐ Senegal
- ☐ Serbia
- ☐ Seychelles
- ☐ Sierra Leone
- ☐ Singapore
- ☐ Slovakia
- ☐ Slovenia
- ☐ Somalia
- ☐ South Africa
- ☐ South Korea
- ☐ South Sudan
- ☐ Spain
- ☐ Sri Lanka
- ☐ State of Palestine
- ☐ Sudan
- ☐ Suriname
- ☐ Sweden
- ☐ Switzerland
- ☐ Syria
- ☐ Taiwan
- ☐ Tajikistan
- ☐ Tanzania

- ☐ Thailand
- ☐ The Bahamas
- ☐ Timor-Leste
- ☐ Togo
- ☐ Trinidad and Tobago
- ☐ Tunisia
- ☐ Turkey
- ☐ Turkmenistan
- ☐ Uganda
- ☐ Ukraine
- ☐ United Arab Emirates
- ☐ United Kingdom
- ☐ United States
- ☐ Uruguay
- ☐ Uzbekistan
- ☐ Venezuela
- ☐ Vietnam
- ☐ Western Sahara
- ☐ Yemen
- ☐ Zambia
- ☐ Zimbabwe

21. In which country is based your company? *

Contrassegna solo un ovale.

- ☐ Afghanistan
- ☐ Albania
- ☐ Algeria
- ☐ Andorra
- ☐ Angola
- ☐ Antigua and Barbuda
- ☐ Argentina
- ☐ Armenia
- ☐ Austria
- ☐ Azerbaijan
- ☐ Bahrain
- ☐ Bangladesh
- ☐ Barbados
- ☐ Belarus
- ☐ Belgium
- ☐ Belize
- ☐ Benin
- ☐ Bhutan
- ☐ Bolivia
- ☐ Bosnia and Herzegovina
- ☐ Botswana
- ☐ Brazil
- ☐ Brunei
- ☐ Bulgaria
- ☐ Burkina Faso
- ☐ Burundi
- ☐ Cabo Verde
- ☐ Cambodia
- ☐ Cameroon
- ☐ Canada
- ☐ Central African Republic
- ☐ Chad

- ☐ Channel Islands
- ☐ Chile
- ☐ China
- ☐ Colombia
- ☐ Comoros
- ☐ Congo
- ☐ Costa Rica
- ☐ Croatia
- ☐ Cuba
- ☐ Cyprus
- ☐ Czech Republic
- ☐ Côte d'Ivoire
- ☐ DR Congo
- ☐ Denmark
- ☐ Djibouti
- ☐ Dominica
- ☐ Dominican Republic
- ☐ Ecuador
- ☐ Egypt
- ☐ El Salvador
- ☐ Equatorial Guinea
- ☐ Eritrea
- ☐ Estonia
- ☐ Eswatini
- ☐ Ethiopia
- ☐ Faeroe Islands
- ☐ Finland
- ☐ France
- ☐ French Guiana
- ☐ Gabon
- ☐ Gambia
- ☐ Georgia
- ☐ Germany
- ☐ Ghana
- ☐ Gibraltar

- ☐ Greece
- ☐ Grenada
- ☐ Guatemala
- ☐ Guinea
- ☐ Guinea-Bissau
- ☐ Guyana
- ☐ Haiti
- ☐ Holy See
- ☐ Honduras
- ☐ Hong Kong
- ☐ Hungary
- ☐ Iceland
- ☐ India
- ☐ Indonesia
- ☐ Iran
- ☐ Iraq
- ☐ Ireland
- ☐ Isle of Man
- ☐ Israel
- ☐ Italy
- ☐ Jamaica
- ☐ Japan
- ☐ Jordan
- ☐ Kazakhstan
- ☐ Kenya
- ☐ Kuwait
- ☐ Kyrgyzstan
- ☐ Laos
- ☐ Latvia
- ☐ Lebanon
- ☐ Lesotho
- ☐ Liberia
- ☐ Libya
- ☐ Liechtenstein
- ☐ Lithuania

- ☐ Luxembourg
- ☐ Macao
- ☐ Madagascar
- ☐ Malawi
- ☐ Malaysia
- ☐ Maldives
- ☐ Mali
- ☐ Malta
- ☐ Mauritania
- ☐ Mauritius
- ☐ Mayotte
- ☐ Mexico
- ☐ Moldova
- ☐ Monaco
- ☐ Mongolia
- ☐ Montenegro
- ☐ Morocco
- ☐ Mozambique
- ☐ Myanmar
- ☐ Namibia
- ☐ Nepal
- ☐ Netherlands
- ☐ Nicaragua
- ☐ Niger
- ☐ Nigeria
- ☐ North Korea
- ☐ North Macedonia
- ☐ Norway
- ☐ Oman
- ☐ Pakistan
- ☐ Panama
- ☐ Paraguay
- ☐ Peru
- ☐ Philippines
- ☐ Poland

- ☐ Portugal
- ☐ Qatar
- ☐ Romania
- ☐ Russia
- ☐ Rwanda
- ☐ Réunion
- ☐ Saint Helena
- ☐ Saint Kitts and Nevis
- ☐ Saint Lucia
- ☐ Saint Vincent and the Grenadines
- ☐ San Marino
- ☐ Sao Tome & Principe
- ☐ Saudi Arabia
- ☐ Senegal
- ☐ Serbia
- ☐ Seychelles
- ☐ Sierra Leone
- ☐ Singapore
- ☐ Slovakia
- ☐ Slovenia
- ☐ Somalia
- ☐ South Africa
- ☐ South Korea
- ☐ South Sudan
- ☐ Spain
- ☐ Sri Lanka
- ☐ State of Palestine
- ☐ Sudan
- ☐ Suriname
- ☐ Sweden
- ☐ Switzerland
- ☐ Syria
- ☐ Taiwan
- ☐ Tajikistan
- ☐ Tanzania

- ☐ Thailand
- ☐ The Bahamas
- ☐ Timor-Leste
- ☐ Togo
- ☐ Trinidad and Tobago
- ☐ Tunisia
- ☐ Turkey
- ☐ Turkmenistan
- ☐ Uganda
- ☐ Ukraine
- ☐ United Arab Emirates
- ☐ United Kingdom
- ☐ United States
- ☐ Uruguay
- ☐ Uzbekistan
- ☐ Venezuela
- ☐ Vietnam
- ☐ Western Sahara
- ☐ Yemen
- ☐ Zambia
- ☐ Zimbabwe

22. Are you working from home or in office? *

Contrassegna solo un ovale.

- ☐ On-site
- ☐ Remote
- ☐ Hybrid

