

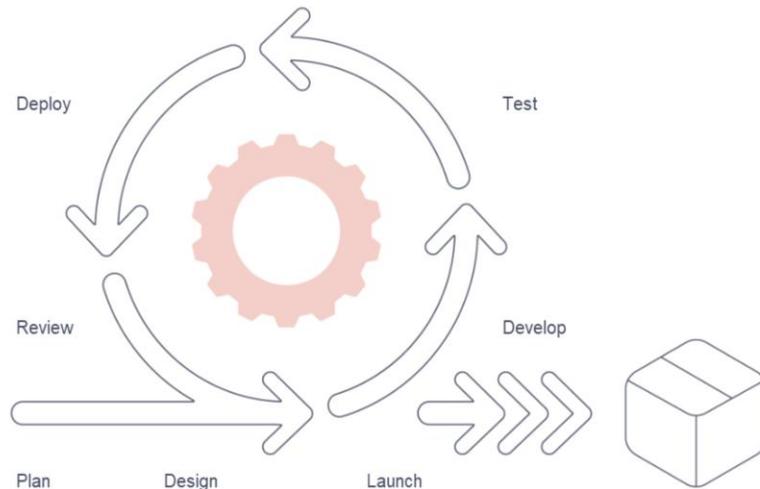
GeneXus[™]
by Globant

Agile Development & DevOps

GeneXus[™]
Cloud Managed

Agile Development

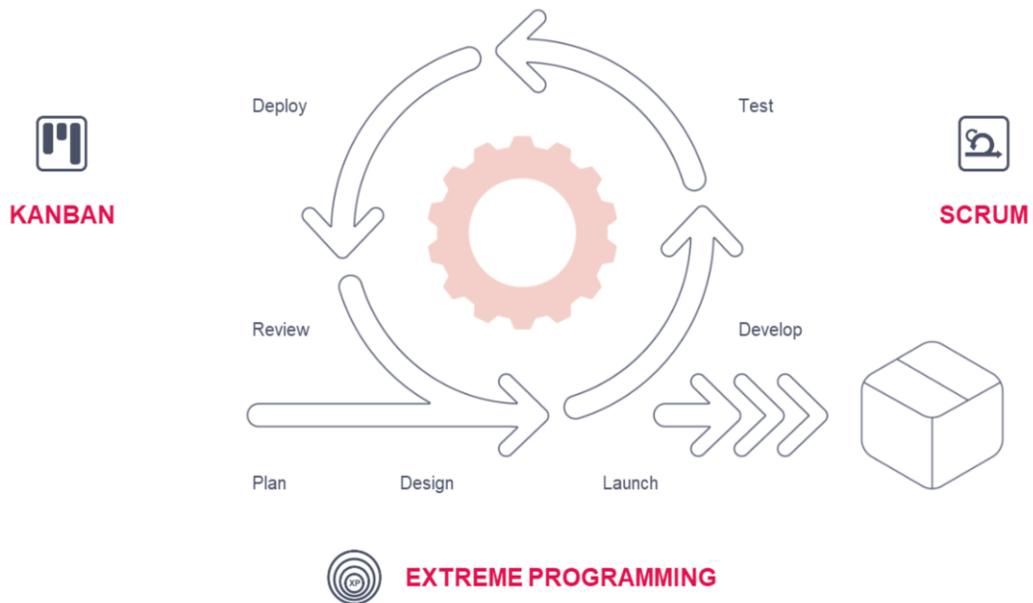
GeneXus™
by Globant



Agile Development is a philosophy and it is not only about increasing productivity and releasing software more frequently: it's about working differently.

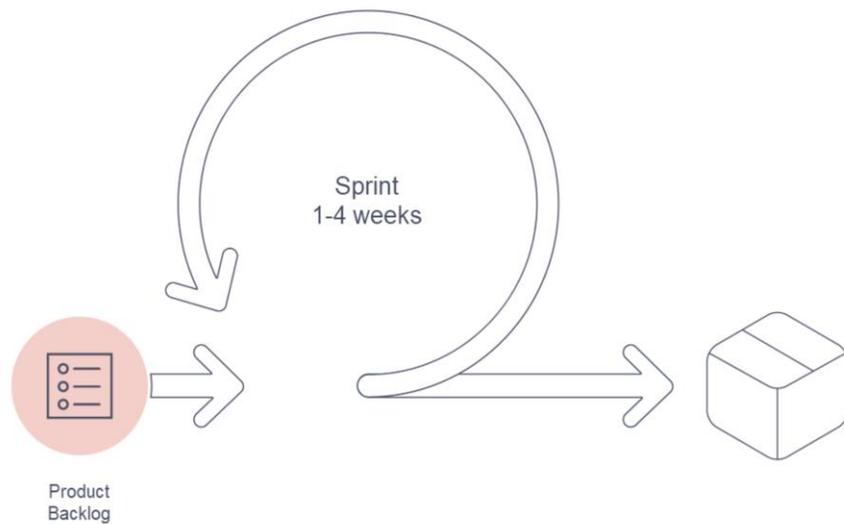
According to Agile Alliance, Agile Software Development is defined by the ability to create and respond to change in order to succeed in an uncertain and turbulent environment.

Success means delivering value and there are three types of success: **organizational, technical, and personal.**



Agile Methods is a term used for many incremental and iterative software development approaches such as Scrum (1995), Kanban, and Extreme Programming (1996).

These methods are processes that support the Agile philosophy, emphasizing incremental delivery, team collaboration, face to face communication, constant planning and constant learning.



In Agile development approach, applications should be developed with an incremental and iterative method that shortens its life cycle by making smaller increments (called sprints) which generally lasts from 1 to 4 weeks.

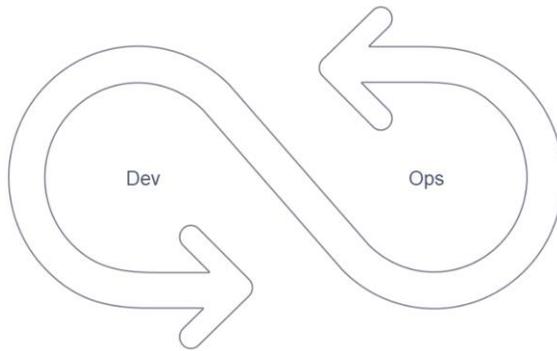
During a sprint, the team has to be able to develop, test, and validate the software created.

In contrast to the waterfall approach, in the agile methods the testing is done altogether with the programming and the team should release new application versions in these defined sprints.

The way to achieve it is through automation!

DevOps

GeneXus[™]
by Globant



The DevOps practice promote an effective communication using SPECIFIC/CERTAIN tools and methods, and automating everything that can be automated.

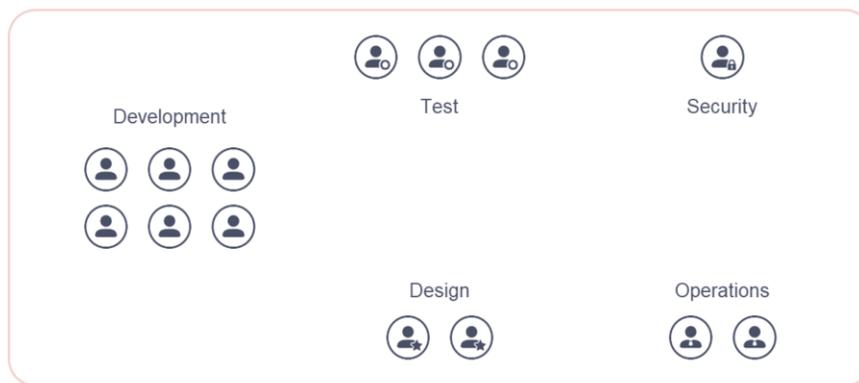


Source:

<https://www.genexus.com/es/productos/genexus/versiones/genexus17/videos/cultura-devops-con-genexus>

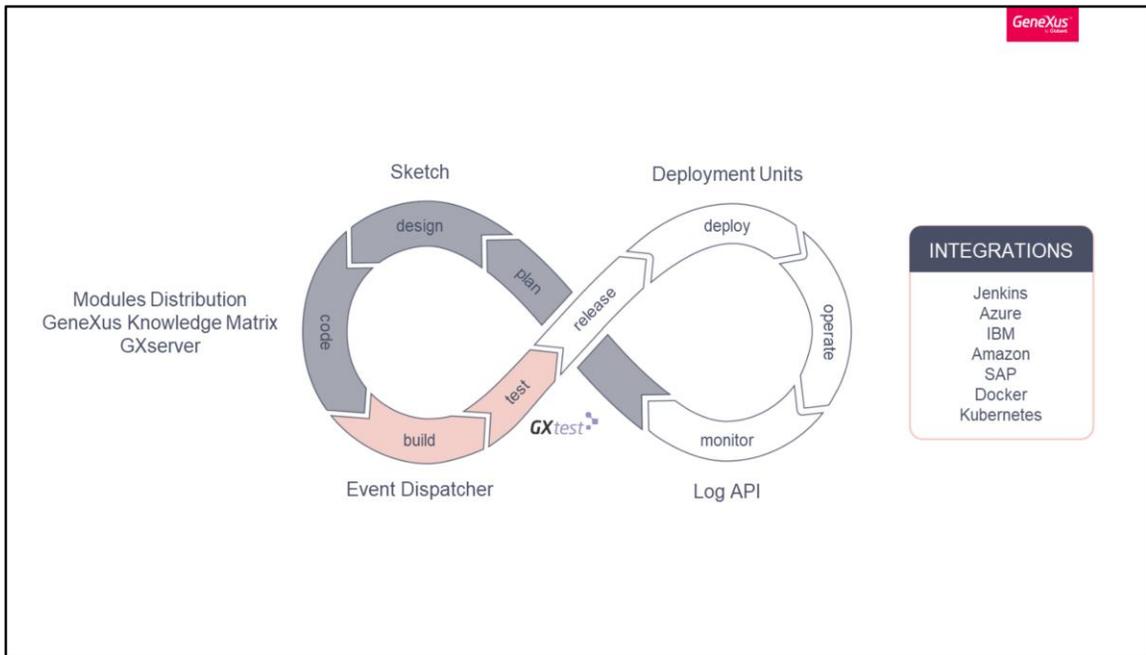
For many years, the development and operations world were far from each other and the interaction between them was conflictive.

On the one hand, the developers wanted to see their changes delivered to the client rapidly but on the other hand, operations was looking for stability which means not changing the system too often.



However, now that has changed and DevOps aims to blur the barriers between the design, development, testing, security, and operations teams, and for everyone to work in an integrated way.

DevOps Practices help foster collaboration between the teams that create and test software with those that maintain them in production environments. They promote an effective communication using tools and methods, and automating everything that can be automated.



As you know, GeneXus is an intelligent platform that simplifies software development, automating everything that can be automated.

In this way, GeneXus facilitates the integration into DevOps and Agile development cycle through different tools integration.

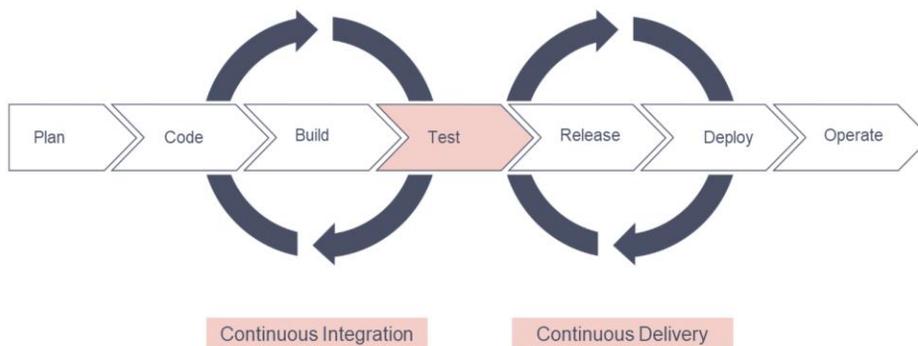
The test is horizontal to the entire DevOps process and tests must be carried out in each of the stages. This will be the indicator that we are delivering quality value, that means the software does what we intend it to do.

The automated testing must be considered as part of the development process since the beginning of the development process, it should be executed in different development steps and environments.

Source:

<https://www.genexus.com/es/productos/genexus/versiones/genexus17/videos/cultura-devops-con-genexus>

CI/CD



The Agile development and DevOps philosophies are based on the pipeline approach, where any feature or change request is built through pipes strongly based on different automatisms.

During this training we are going to learn how to set a Continuous Integration approach with some automatisms.

GeneXus[™]
by **Globant**

training.genexus.com
wiki.genexus.com