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Web-based virtual reality platform to visualize and configure biomanufacturing processes.

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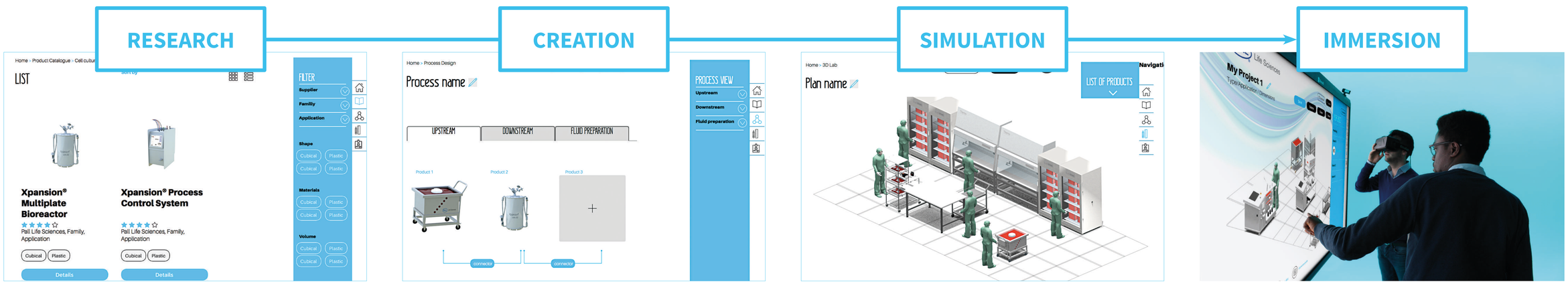
The emergence of new biologics combined with the spread of single-use technologies create an expected need to review the architecture of existing processes. Moreover, the market is becoming more and more global with a growing pressure on healthcare costs. This leads manufacturers to find ways to decrease production costs and develop simple, less expensive and flexible biomanufacturing units.

Today, setting up such units may be expensive and complex. There is a need to think early in the design phase about the product platform and its footprint, the compatibility between the different equipment and the process flow. In that framework, OUAT! has developed a web-based platform that fills the gap between the manufacturers, technology suppliers and engineering offices.

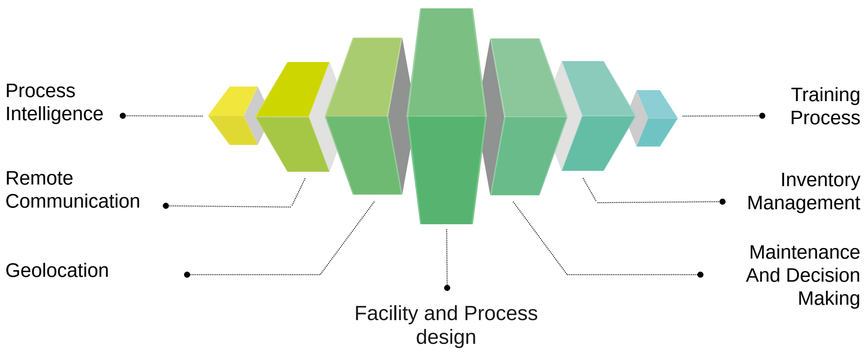
CREATION PROCESS WITH OUAT!'S SOLUTION

Users access a wide and qualified database of equipment, including specifications and functionalities so they can compare them more efficiently. The configurator will help them validate the possible integration of all the technologies and their footprint within a pre-configured 3D modeled clean room that corresponds to the physical room in their facility. Once the platform of equipment is set up, the user is able to enter it in 3D with virtual reality goggles and interact with the set of technologies. At the end, the users are also able to save each process they have configured, and share them with a single click to compare them and decide which one is more appropriate for their specific needs.

The advantages of this platform are multiple. Beyond the convenience of being able to configure a complex process without the need to ask for an expert, users will have at their disposal a powerful tool that enables them to compare products and processes, customize them, share them and be much more flexible and free in their process design.



PERSPECTIVES FOR OUR TECHNOLOGY



TO REMEMBER

- Flexibility for biomanufacturers
- Single platform to present complete solutions
- Simple tool in the process studies and design phase

The whole application is designed to be open for additional features. One potential integration, already tested by OUAT ! is the use of virtual reality to enter the created biomanufacturing unit space and interact with the equipment. Interactions with the virtual reality environnement using the Occulus Rift and the 3D camera Senz have already been tested with success. Other potential integrations include the generation of budget for created processes and biomanufacturing units, training on equipment, IoT visualization and interaction, etc.

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