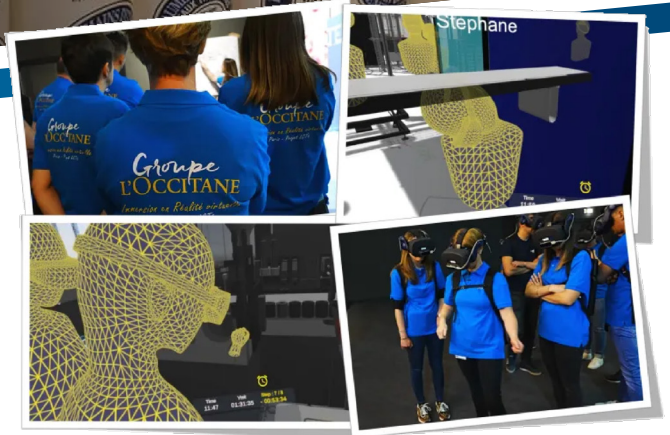


3DEXPERIENCE® Works

L'OCCITANE EN PROVENCE, LABORATOIRES M&L



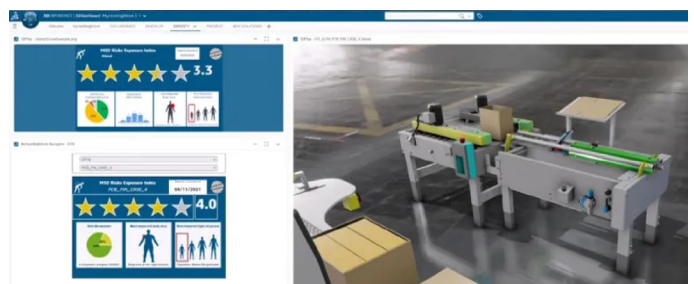
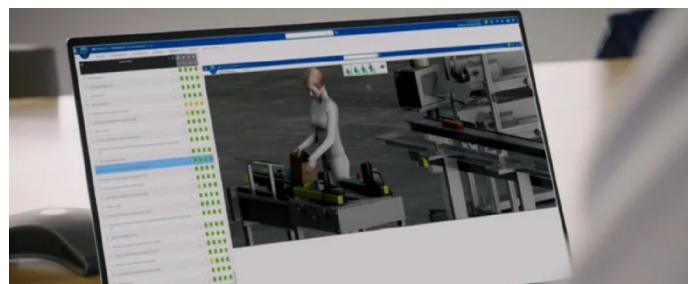
ABOUT COMPANY

Laboratoires M&L handles the formulation, production and primary logistics of cosmetics and well-being products for L'OCCITANE Group, a major international manufacturer and retailer of skincare, beauty and wellness products based on natural or biological ingredients. Its portfolio of premium beauty brands includes L'OCCITANE en Provence, Melvita, Erborian, L'OCCITANE au Brésil, LimeLife by Alcone, Elemis, Sol de Janeiro and Grown Alchemist. With its nature-positive vision, L'OCCITANE Group is committed to investing in communities, biodiversity, reducing waste and to finding regenerative solutions in order to create a better and healthier planet.

SMART & SAFE FACTORY FOR UNIQUE COSMETICS EXPERIENCES

Responsible for producing natural cosmetics, oils and fragrances for L'OCCITANE Group brands L'OCCITANE and Melvita, the facility has 1,800 m² of green roofing, 12 light wells, 80 m² of solar panels for preheating water and 10,000 m² of Finnish willow trees to cleanse production sewage after processing by its wastewater treatment plant. It also has more than 4,500 m² of photovoltaic panels, which produce enough electricity for up to 25% of the site's needs, targeting 90% by 2030. Inside, workstations are configured to promote good posture and comfort for each individual operator, and digital technologies simulate shop floor conditions to prioritize worker safety.

Dassault Systèmes contributes with the 3DEXPERIENCE Cloud platform to develop a virtual twin of the Lagorce facility and its production lines to monitor and prevent occupational health hazards. With over 200 employees working at the Lagorce site, composed of 60% women and 40% men, all of various ages, the company wanted to assess individual postures at workstations to determine the risk of joint or musculoskeletal issues and understand how different genders could be affected.



As part of the MyHealth@Work initiative, Laboratoires M&L assessed individual postures at workstations to determine the risk of joint or musculoskeletal issues on the shop floor using DELMIA on the 3DEXPERIENCE platform.

VIRTUAL TWIN ON THE SHOP FLOOR AND BEYOND

What began as a standalone proof of concept (POC) – a project to simulate workstations and prevent the occurrence of musculoskeletal disorders among staff members – has since evolved into an exciting partnership between Laboratoires M&L and Dassault Systèmes. Together, they are exploring how else virtual twins can be used to enhance staff well-being and improve operational efficiencies.

Laboratoires M&L provided 3D models of the facility's architecture and the Dassault Systèmes team computed airflow data – air renewal, air recirculation, outside air supply, and air outflow. This was used to create a virtual twin of the full shop floor to run airflow and pathogenic propagation scenario simulations of the packaging line using DELMIA and SIMULIA fluids solutions.

As a result of the simulations, the company discovered there were measures it could put in place to protect its workers, including repositioning air vents to avoid creating zones that are less ventilated than others.

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The virtual twin allowed us to evaluate situations that cannot be observed in everyday life.

Maxime Plazolles

*Engineering & Innovation Project Manager,
Laboratoires M&L, L'OCCITANE Group*

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WHY OUTSOURCING MADE SENSE

- Enables them to carry out several projects at the same time
- Allows the company to quickly scale up, bring in additional resources when needed to keep projects on track, and bring transformational benefits to the organisation

And because all these digital projects are handled in the cloud, Laboratoires M&L benefits from round-the-clock access and all the collaboration benefits that come from working in a centralized, online environment.

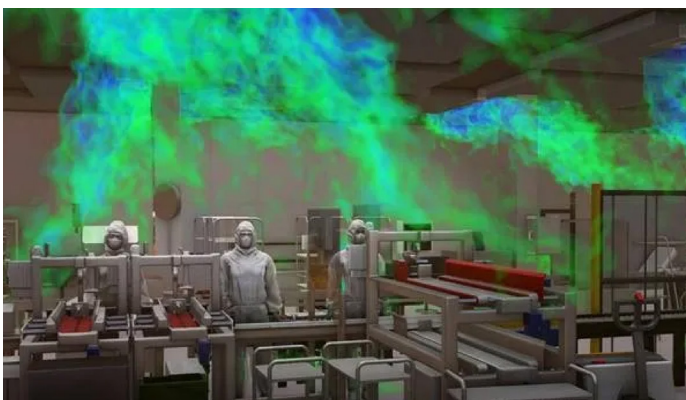
“Internally, we are based on several different sites,” Plazolles said. “The 3DEXPERIENCE Cloud platform enables us to exchange messages, share documents, and benefit from content and deliverables in the cloud. It also allows us to easily work with Dassault Systèmes. Ultimately, everything converges on the platform.”

Today, Laboratoires M&L can use the simulations to determine when it needs to buy new equipment, but also how to integrate new production lines into its manufacturing facilities.

Working with Dassault Systèmes, Laboratoires M&L is able to continue focusing on its own decarbonisation and biodiversity initiatives, while building its digital capabilities to achieve positive, meaningful change. “Ultimately, we’ve found value, efficiency and opportunities for a cleaner, greener future,” Plazolles concluded. “The partnership gives us reliable, robust results. It will help us to write a new chapter in the history of Laboratoires M&L for the L'OCCITANE Group.”



3D visualisation of the packaging line applied to real environment at Lagorce site using the 3DEXPERIENCE virtual twin.



SIMULIA aerulic simulation flows on the shop floor.