

## Session 2.1

# Transforming Pharma Manufacturing: Sanofi's Journey Towards Digital Excellence in the Pharma 4.0 Era

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Specialty Care | Sanofi



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# Building the *Future* of Manufacturing & Supply in Biopharma

Áine Fleming

Sanofi, Vice President Global Engineering Specialty Care

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We are an *R&D-driven,*  
*AI-powered* biopharma company  
committed to *improving*  
*people's lives* and *delivering*  
*compelling growth.*

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**Sanofi's Equation  
in Manufacturing  
& Supply**

**TODAY**

**2.1 billion**  
units produced  
annually

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**29,000**  
employees  
globally

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**39**  
Manufacturing  
sites globally

**sanofi**

**TOMORROW**

**+30**  
potential new  
product to launch  
by 2030

**+50%**  
increase in CAPEX  
investment over two  
years



# How do we *Rise to the Challenge for Patients?*

Set  
*the Pace*

Chase  
*Excellence*

Ignite  
*Winning Teams*

Deliver  
*with Purpose*

# We Set *the Pace*



# Modular *Manufacturing*



*Our next-generation Modulus facilities are redefining the future  
of Biopharma Manufacturing*

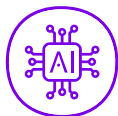


TIME Magazine  
2025 BEST INVENTION

*Medical &  
Healthcare category*



**Most advanced** and  
modular  
biotech sites in the  
industry.



**+ €1 billion invested** in  
two fully  
AI-enabled facilities (France,  
Singapore)



Manufacturing up  
to **4 vaccines**  
**or biologics**  
simultaneously



Reducing changeover  
times from **months** to  
**days.**



## Collaborative *Robots*

We free our teams from repetitive, exhausting tasks so they can focus on what truly matters.



## Digital *Accelerator*

Our Digital Accelerator brings together dedicated teams to scale up digital innovations across our M&S global network.

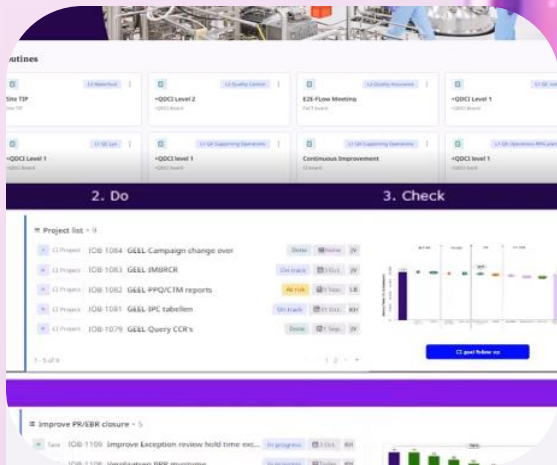


## Snackable *AI*

Our plai.app provides AI and data-driven daily insights and guidance to enhance business decision-making.

# We Chase *Excellence*





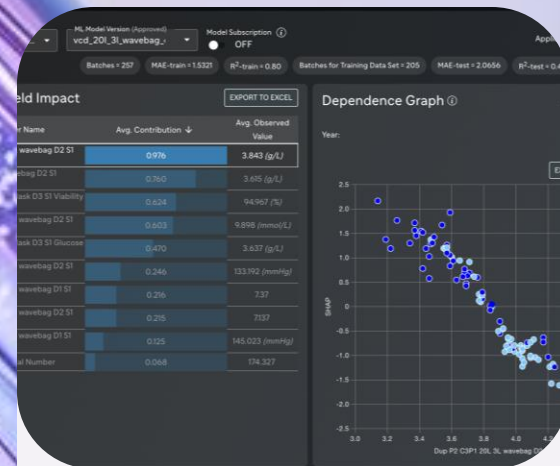
## Digital Excellence Cockpit

We seamlessly manage daily routines, ensure consistent execution and leverage real-time data for performance monitoring and continuous improvement across all levels of the organization.



## One Click Tech Transfers

With digital & AI advanced technologies, we run predictive simulations of entire new production processes and automate regulatory filings or quality reports generation, accelerating time to market.



## Process Optimization

We harness and analyze hundreds of thousands of data points from sensors on production lines to optimize our yield performance, cycle times, service levels and inventories.

# We Ignite *Winning Teams*





### *Sites Strong Network Stronger*

We came from a fragmented constellation of manufacturing sites across the world to one integrated M&S network today.



### *Simplified, Standardized & Digitized*

We built up SMS 2.0, the digital-native evolution of our standardized M&S processes, integrating operators and performance at the core of our systems. Paperless Validation for projects and requalifications.



### *Accelerate Performance Mindset*

We teamed up with McLaren Racing to completely rethink our performance and competitive mindset, leveraging technology and analytics with F1 world champion engineers.

# We Deliver *with Purpose*





## *Towards Net Zero*

To play our part in mitigating climate change, we target to achieve Net Zero GHG emissions by 2045. Our reduction trajectory has been validated by the Science Based Target initiative (SBTi).



## *Sustainable by Design*

Our eco-design approach embeds environmental sustainability at every stage of product life cycle. Today, 100% of our new medicines and vaccines follow this process.



## *Patients at the Center*

Our Global Health Unit provides 30 most essential medicines in the 40 most vulnerable countries. To date, we reached 790,000 patients with treatments for non-communicable diseases.

2025 TIME RANKING  
*World's Most Sustainable Companies*

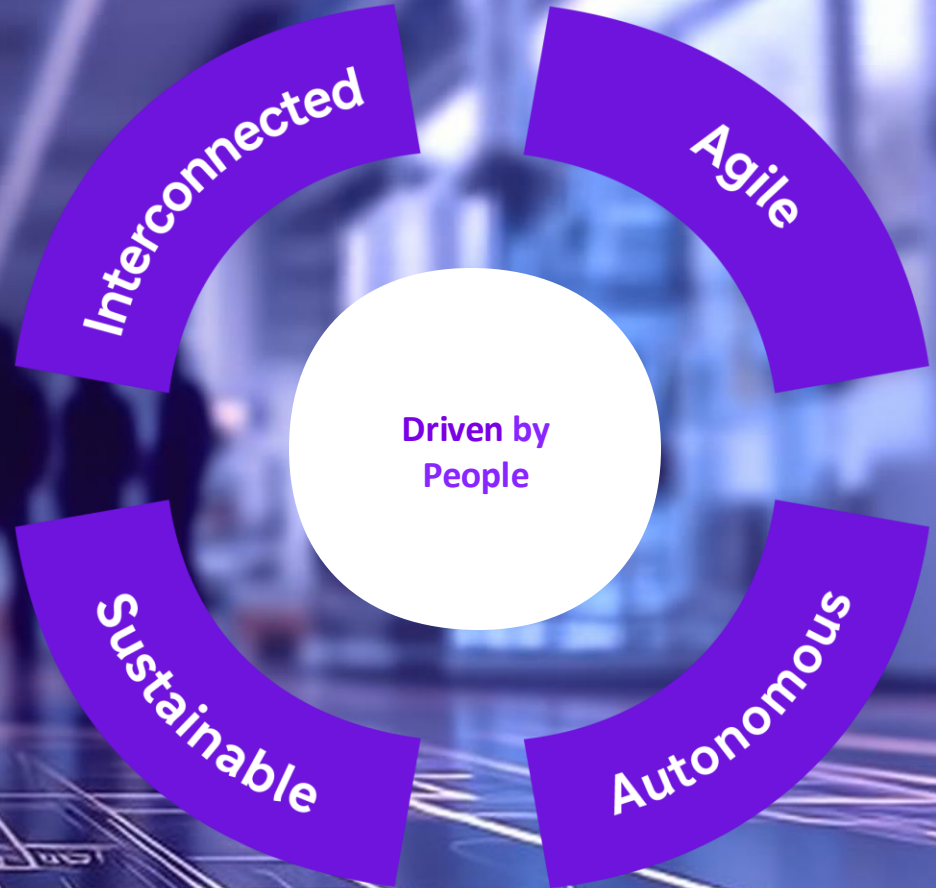
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Life Science Industry

#10

All Industries

We Build  
Tomorrow's  
*Smart*  
*Factories,*  
Today.



Thank  
*You*

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