

## **Eduard Hergenreider**

Cell and Gene Therapy Orchestration product manager, Life Sciences Industry, SAP



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Cell & Gene Therapy É2E Value Chain Product Manager, Roche





## Cell & Gene Therapy Orchestration Use Case

October 31th, 2025

**Eduard Hergenreider,** SAP Product Manager for CGTO

**Thierry Harlingue**, Cell & Individual Therapy End to End Value Chain IT Product Manager, Roche

#### Roche at a Glance

### Maintaining a long-term orientation





Reliable partner during COVID-19 pandemic



Leader in Diagnostics and Pharma



#1
R&D investor in healthcare

100,920 Employees worldwide 16.4 million
People treated with our medicines in 2021



32 medicines on the WHO List of Essential Medicines



Sustainable one of the most sustainable healthcare company in the Dow Jones Sustainability Indices

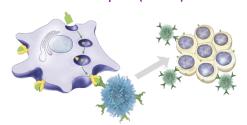
27 billion
tests conducted with
our Diagnostics products
in 2021

## A Complex Cell & Gene Therapy (CGT) Portfolio

Roche/Genentech has a diverse multi-modality cell & gene therapy portfolio spanning clinical and commercial globally

### A Diverse & Growing CGT Portfolio

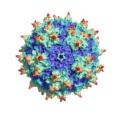
Individualized Neoantigen-Specific Therapies (iNeST)



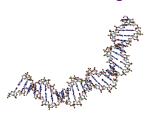
Autologous & Allogeneic Cell Therapies



**Gene Therapies** 



Gene Editing



















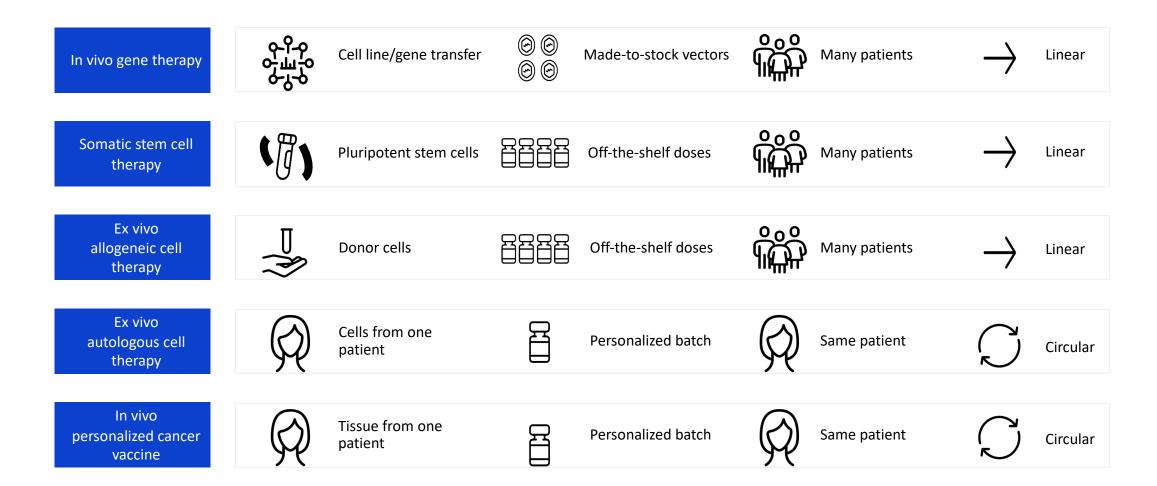






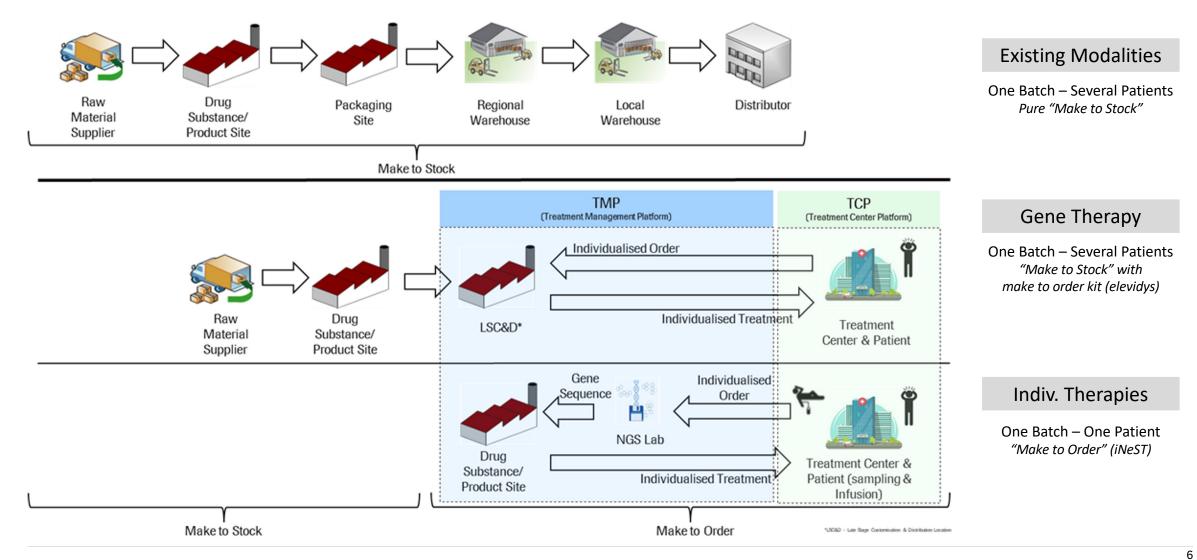
## CGT supply chain logistics are complex and heterogeneous

Different modalities require different value chains



## **CGT Supply Chains are Highly Individualized**

We must ensure the right patient is treated with the right product at the right time with zero failure



## **Key Challenges with Cell and Gene Therapies**

CGTs bring unique challenges requiring innovative digital solutions



### **Diversity & Scale**

New therapies across modalities need to be brought to patients quickly. New technologies provide an opportunity to move faster and scale made-to-order treatments to large patient volumes.



## Regulatory & Compliance

Patient safety depends on zero failure chain of custody & chain of identity. Compliant capture & processing of patient identifying & health information is a required capability.



## Visibility & Simplicity

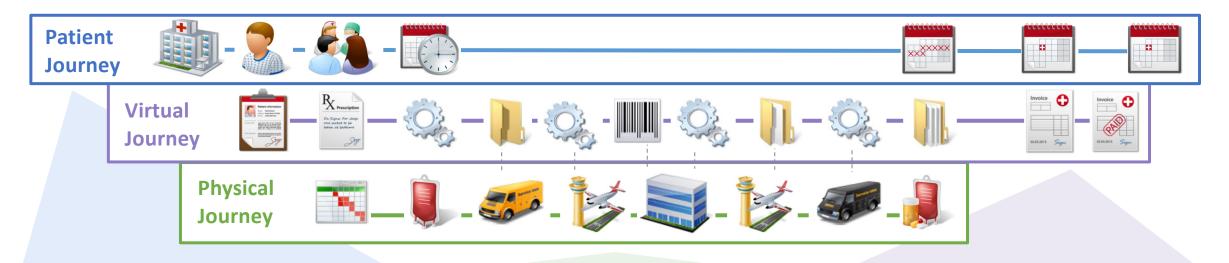
We need a single streamlined portal to engage Healthcare Professionals and Customers. Real time visibility across the value chain is key for delivering treatments to patients rapidly.





## Patient Operations, Supply Chain, and O&EM

Jointly realizing the end-to-end value chain for cell & gene therapies



#### **Patient Operations**

- Interface to the treatment sites
- Coordinates site onboarding, patient onboarding, biospecimen collection
- Provides patient & HCP services before, during, and after treatment

#### **Supply Chain**

- Defines the overall supply chain configuration
- Plans demand and supply
- Collaborates with CDMOs
- Manages the logistics of the value chain

#### Orchestration & Exceptions Management

- End-to-end operations and facilitation of transactions across parties, "Control Tower"
- Perform speed-critical transactions that can't be automated (ERP transactions)
- Data management and support

# SAP CGTO delivers a **trusted**, **compliant**, **and scalable platform** — at significantly lower effort and risk than building it yourself.

## **Business Value and Strategic Benefits**

- Faster time-to-value: Proven, industrystandard solution accelerates deployment and adoption.
- Reduced risk: Built-in compliance (GxP, PHI, audit trails, e-signatures) lowers regulatory and operational risks.
- End-to-end orchestration: Out-of-the-box treatment order, COI/COC tracking, and business partner collaboration with configurability to support different modalities.
- Future-proof: Continuous enhancements aligned within a consortium and SAP's Life Sciences roadmap.

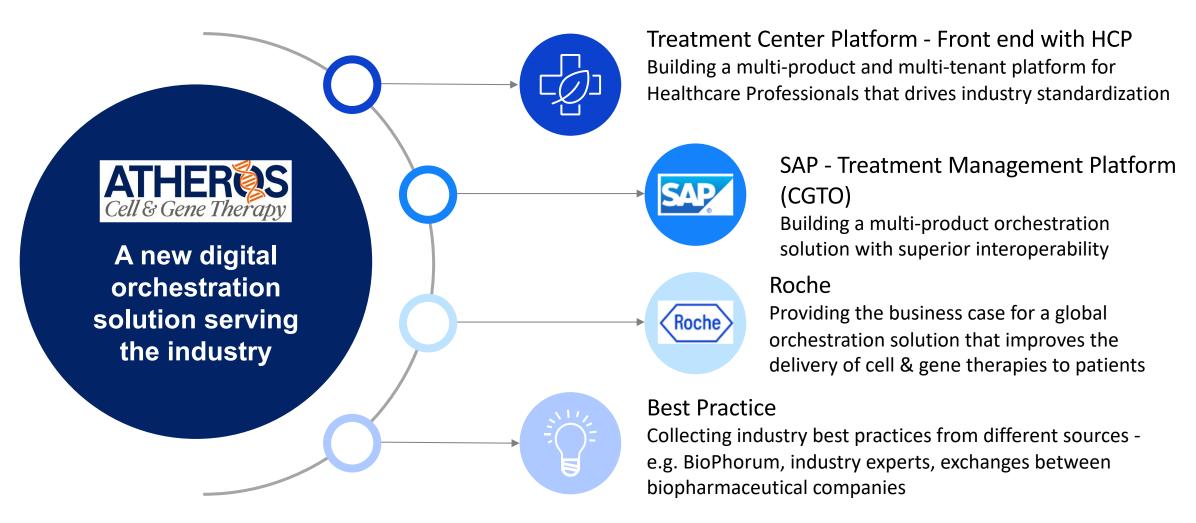
#### **IT Value & Technical Benefits**

- Clean core: Keeps S/4HANA standard, avoiding non-compliant customizations.
- Lower TCO: No need to invest thousands of person-days in custom development and ongoing maintenance.
- Integration by design: Standard APIs, events, and S/4HANA add-on simplify integration to internal and external systems and business partners.
- **Cloud-native:** Leverages SAP BTP for scalability, automation, and innovation.

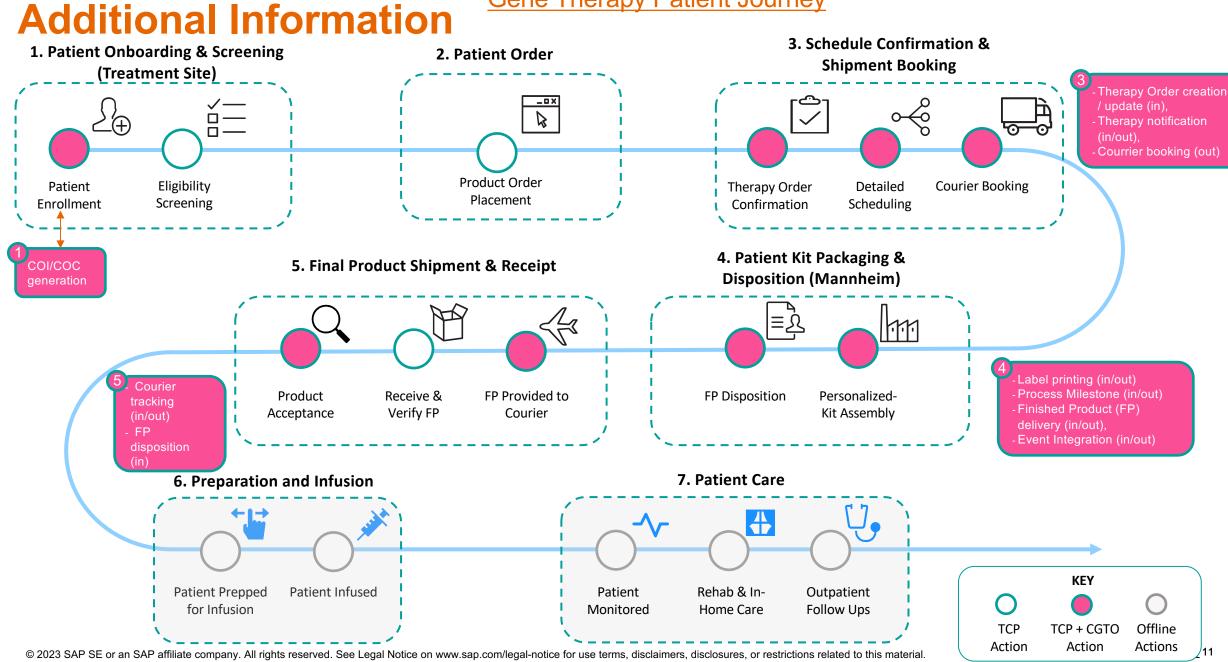


## Investing in an Innovative Orchestration Solution for the Industry

Strategic partnerships established to build an orchestration solution for the industry that enables the safe treatment of patients with the right product at the right time

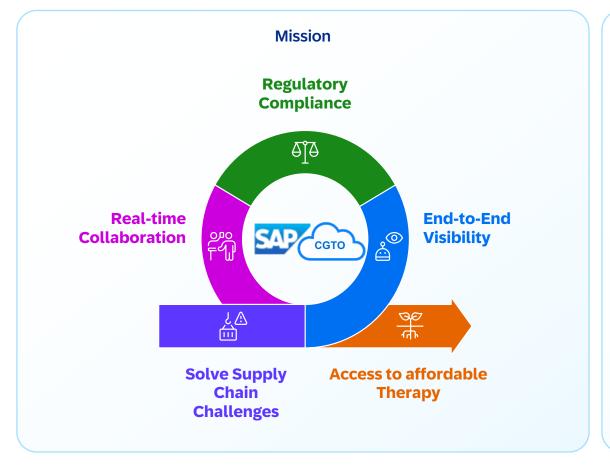


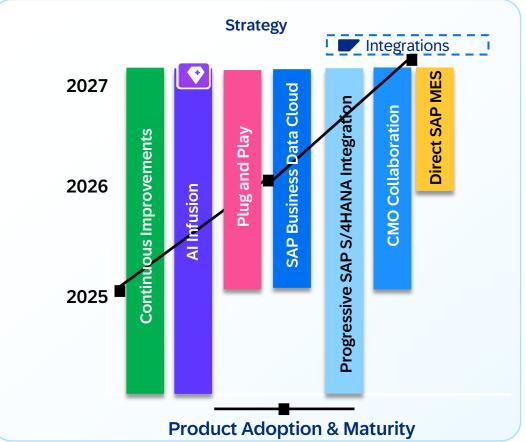
### **Gene Therapy Patient Journey**



## SAP CGTO Mission and Strategy: 2025 - 2027

Provide a cloud-based SaaS solution that streamlines advanced therapy supply chains, reducing costs, optimizing capacity, and managing risks to ensure timely delivery of effective treatments. Our goal is to lead the industry by developing intelligent software that drives innovation, improves patient care, and expands access to affordable therapies.





## SAP Cell and Gene Therapy Orchestration Consortium participants

























































We need your help to create the future standards of the industry! Doing now what patients need next