

# CERTiAINT

A cellular immunotherapy virtual twin  
for personalised cancer treatment



07.03.2025

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SVP

# Our Certainty Consortium



UNIVERSITÄT  
LEIPZIG

Singleron

collaborate  
PROJECT MANAGEMENT



MPe  
Myeloma  
Patients  
Europe



TriNetX

MUNI Masaryk  
University

ITTM  
Information Technology  
for Translational Medicine

Uniklinikum  
Würzburg UK

institut  
Curie

UNIVERSITÉ  
DE NAMUR

UMC Utrecht

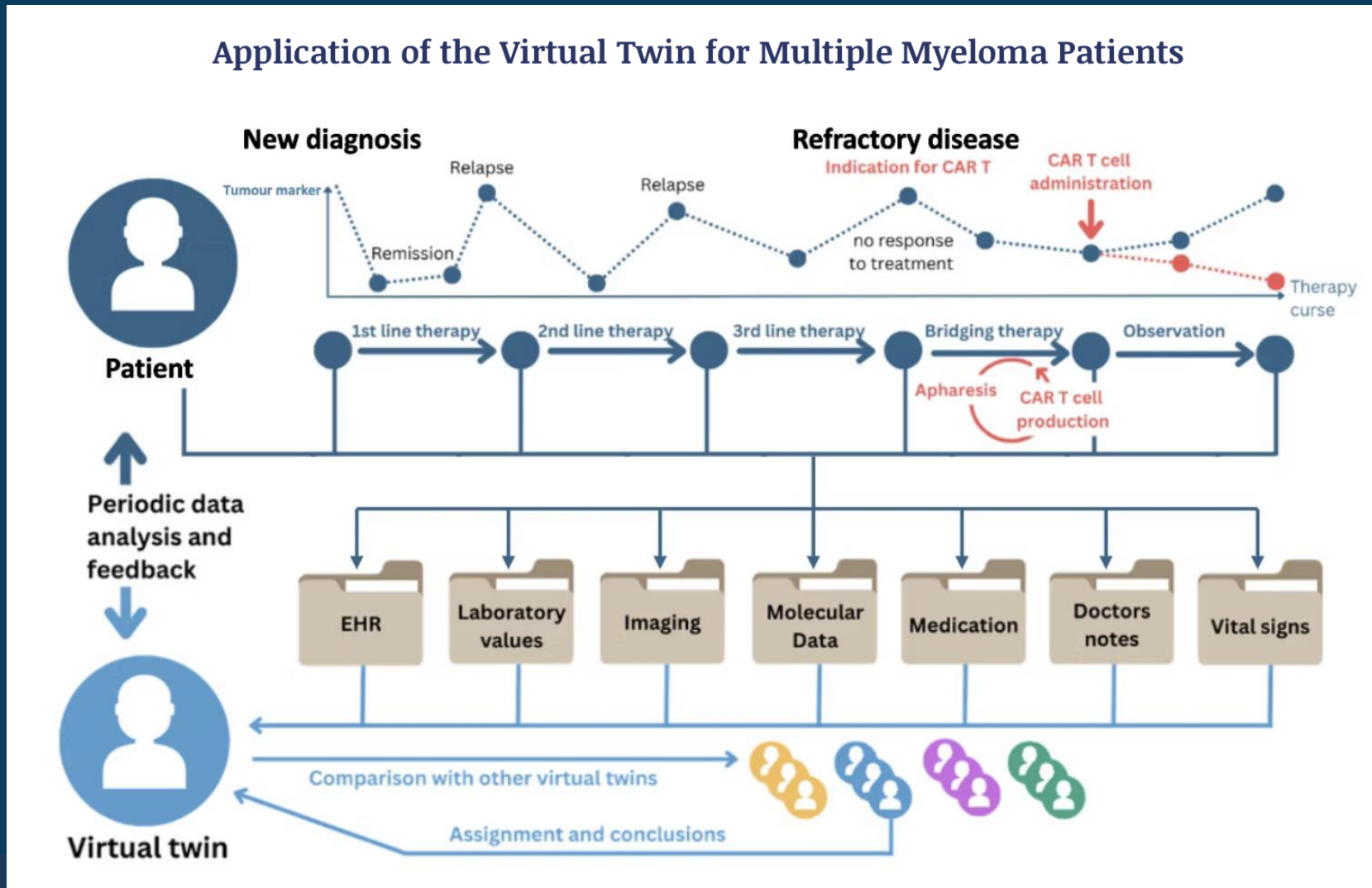
CHARITÉ  
UNIVERSITÄTSMEDIZIN BERLIN

EBMT

HealthTree  
Foundation

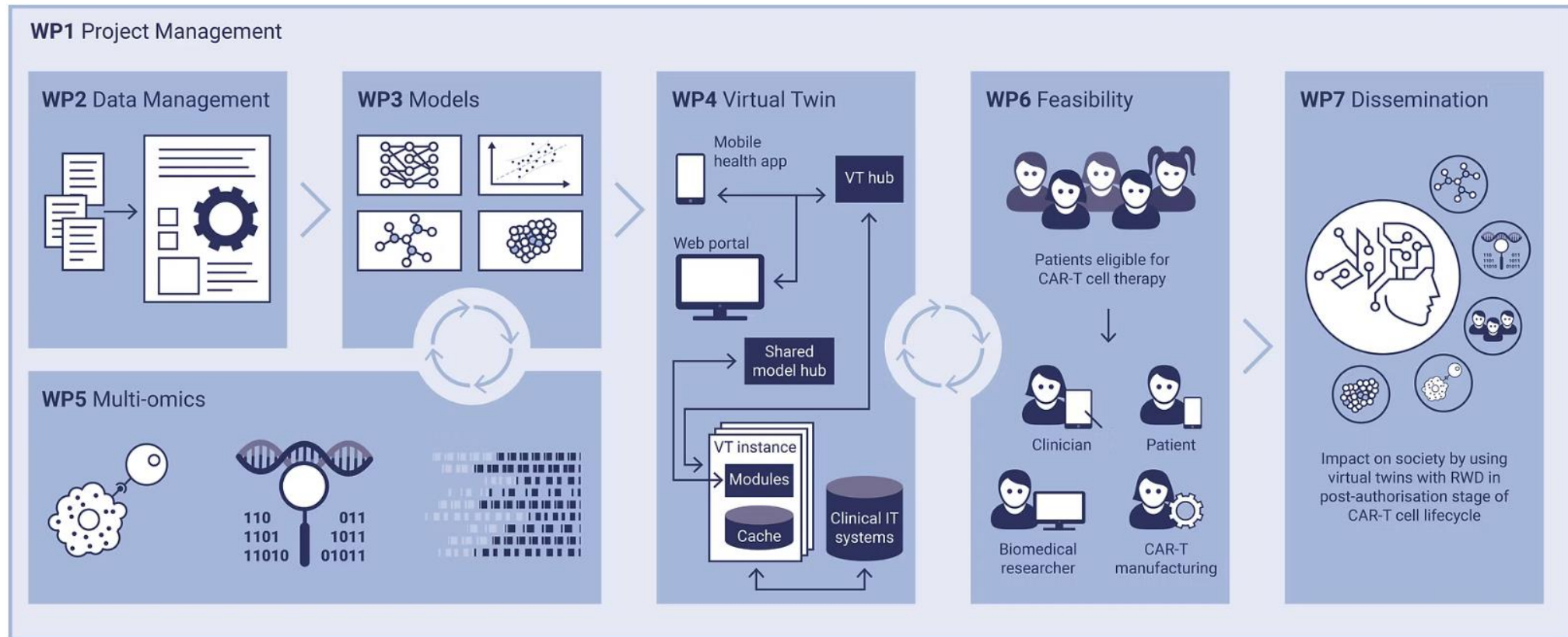
Roche

# The Challenge: Multiple Myeloma



# Our Approach

## Overall Methodology of CERTAINTY



# Impact on Health

## Pathways to Impact with CERTAINTY

### Expected Outcomes at the Project Conclusion

#### **Personalised Care**

Clinicians and patients will use advanced virtual models for tailored, cost-efficient cellular therapy strategies, surpassing traditional care methods.

#### **Enhanced Knowledge**

Healthcare experts gain a deeper understanding of disease progression using innovative multi-scale models, refining CAR T cell therapy outcomes.

#### **Innovative Diagnostics**

New personalised diagnostics and therapy strategies will emerge, offering clinicians and patients more precise treatment paths and improved care.

#### **Integrated Virtual Twins**

Citizens and patients will benefit from virtual twins that combine personal health data with medical records, improving disease prediction and management.

# On the long Run

## Long-Term Impact Projections Beyond the CERTAINTY Completion

### Scientific

CERTAINTY leads with a cutting-edge virtual twin, transforming the treatment of blood cancers like multiple myeloma. This innovation tailors CAR T cell therapies to each patient, improving the accuracy of treatment and reducing the risk of unwanted reactions.

### Societal

Our project aims to make advanced treatments fair and personal in accordance with internal rules that comply with applicable legislation such as the GDPR. By incorporating factors such as sex and socioeconomic background into the virtual twin, CERTAINTY aims to contribute to making life-saving therapies more inclusive, hoping to guide a small step towards wider accessibility, regardless of an individual's location or background.

### Economic/Technological

CERTAINTY is set to make CAR T cell therapies more cost-effective and widely available, leading to better care at a lower cost. This supports Europe's lead in medical technology, creating jobs and fostering collaborations that benefit patients across the globe.

# “Sister Projects” - Virtual Twins

CERTAINTY and 7 Related Projects



A VIRTUAL BRAIN FOR EVERY PATIENT.



## Company

Innovative, customer-centered, and experienced  
**1000+** customer organizations worldwide  
**700+** million single cells sequenced  
**500+** global workforce

## Solutions

Unique single cell multi-omics  
From sample to **sequencing-ready library**  
Comprehensive **data analysis**

## Technology and Products

Hardware, software, kits, assays, and data sciences  
~Validated with **1000+ different** sample types  
**300+** scientific publications  
~Covered by **200+ patents** and patent applications

## Mission

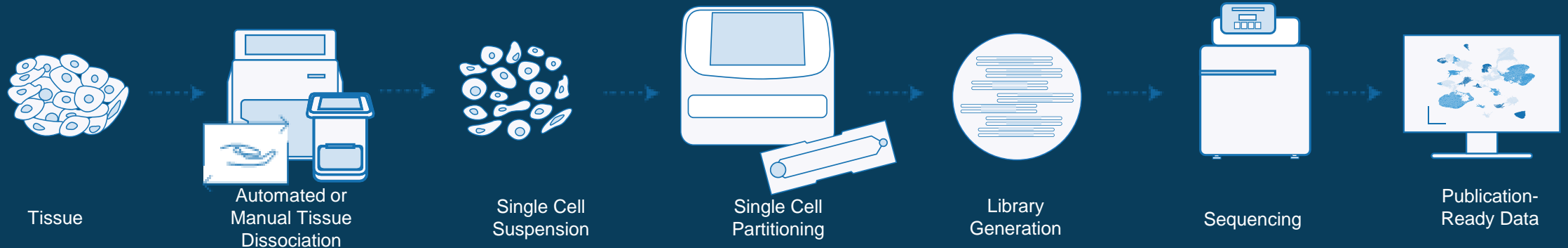
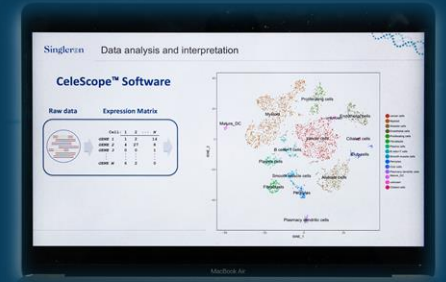
Make single cell multi-omics analysis  
**accessible and understandable** to all and  
to advance **precision medicine**



# One-Stop-Shop

# Automation

## Singleron Single Cell Sequencing Workflow





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Funded by  
the European Union

This project was funded by the European Union under Grant Agreement number 101136379. Views and opinions expressed are however those of the author(s) only and do not necessarily reflect those of the European Union or the Health and Digital Executive Agency. Neither the European Union nor the granting authority can be held responsible for them.

# Thank you!

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[www.singleron.bio](http://www.singleron.bio)

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