



THE INTERNATIONAL CONFERENCE ON COMPUTATIONAL SCIENCE AND ITS APPLICATIONS



# **A Digital Twin Platform for Diagnostics and Rehabilitation of Multiple Sclerosis**

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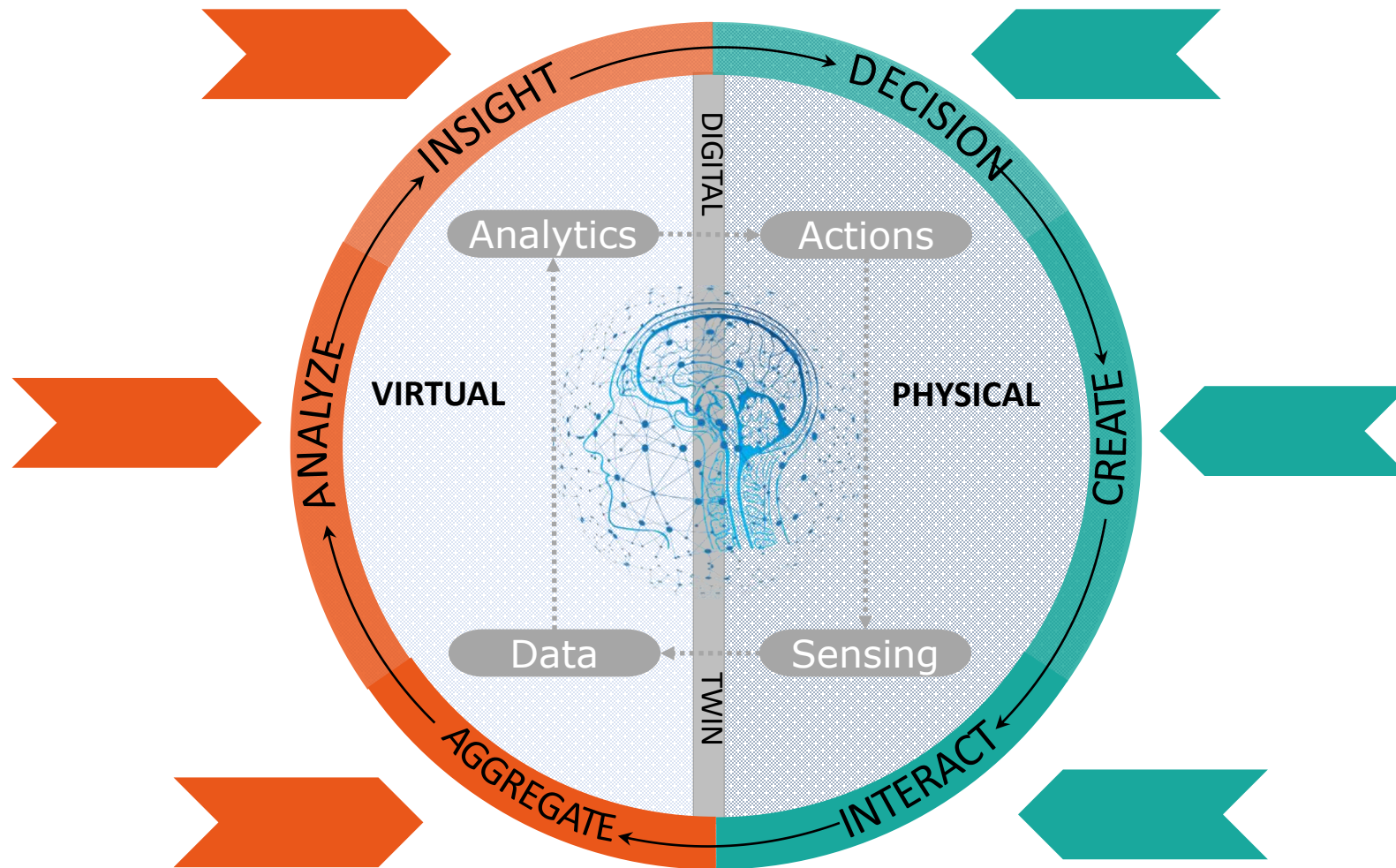
Sofia University, GATE Institute



## What is a digital twin?



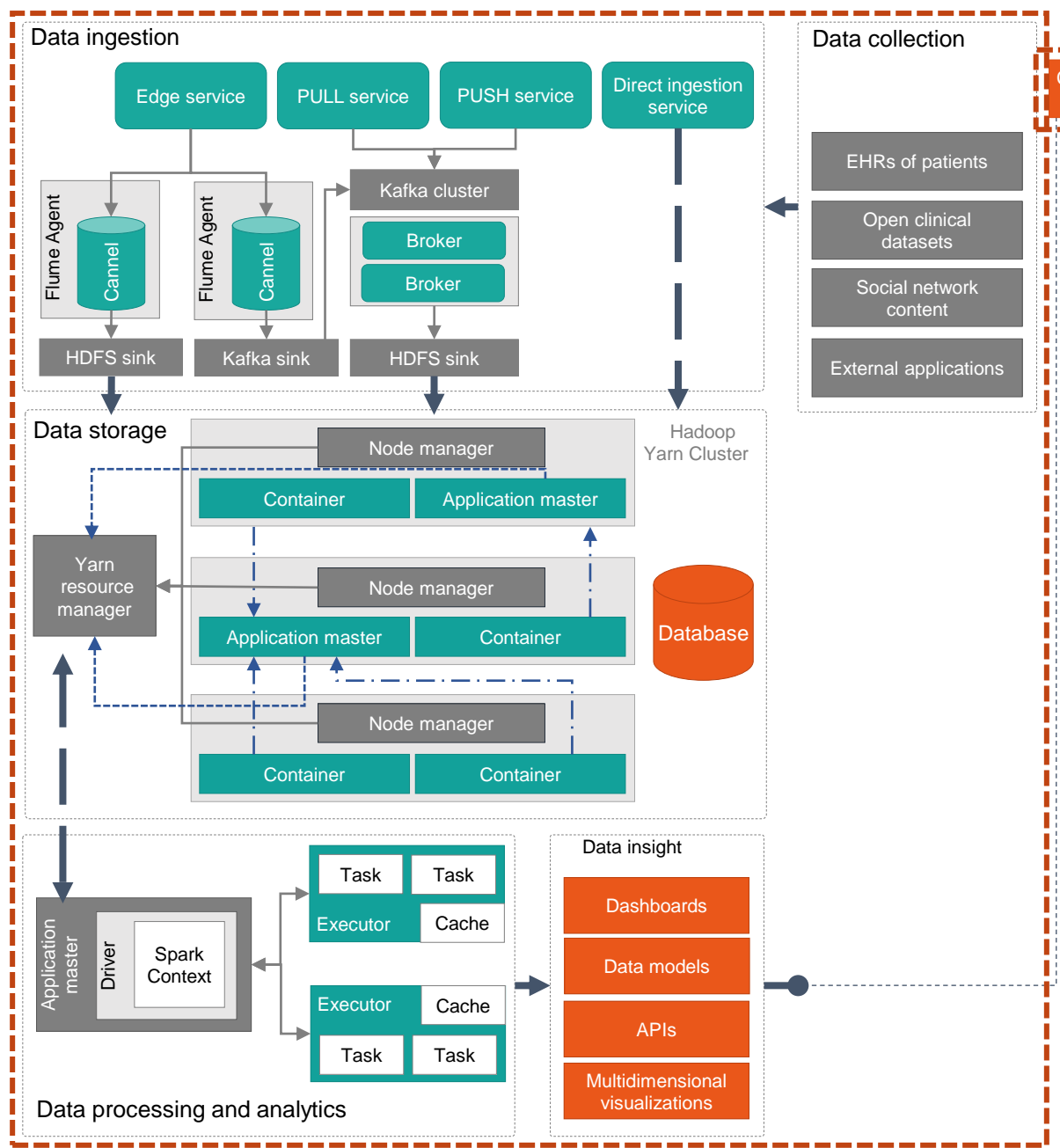
# Digital Twin Concept



# Analytical application

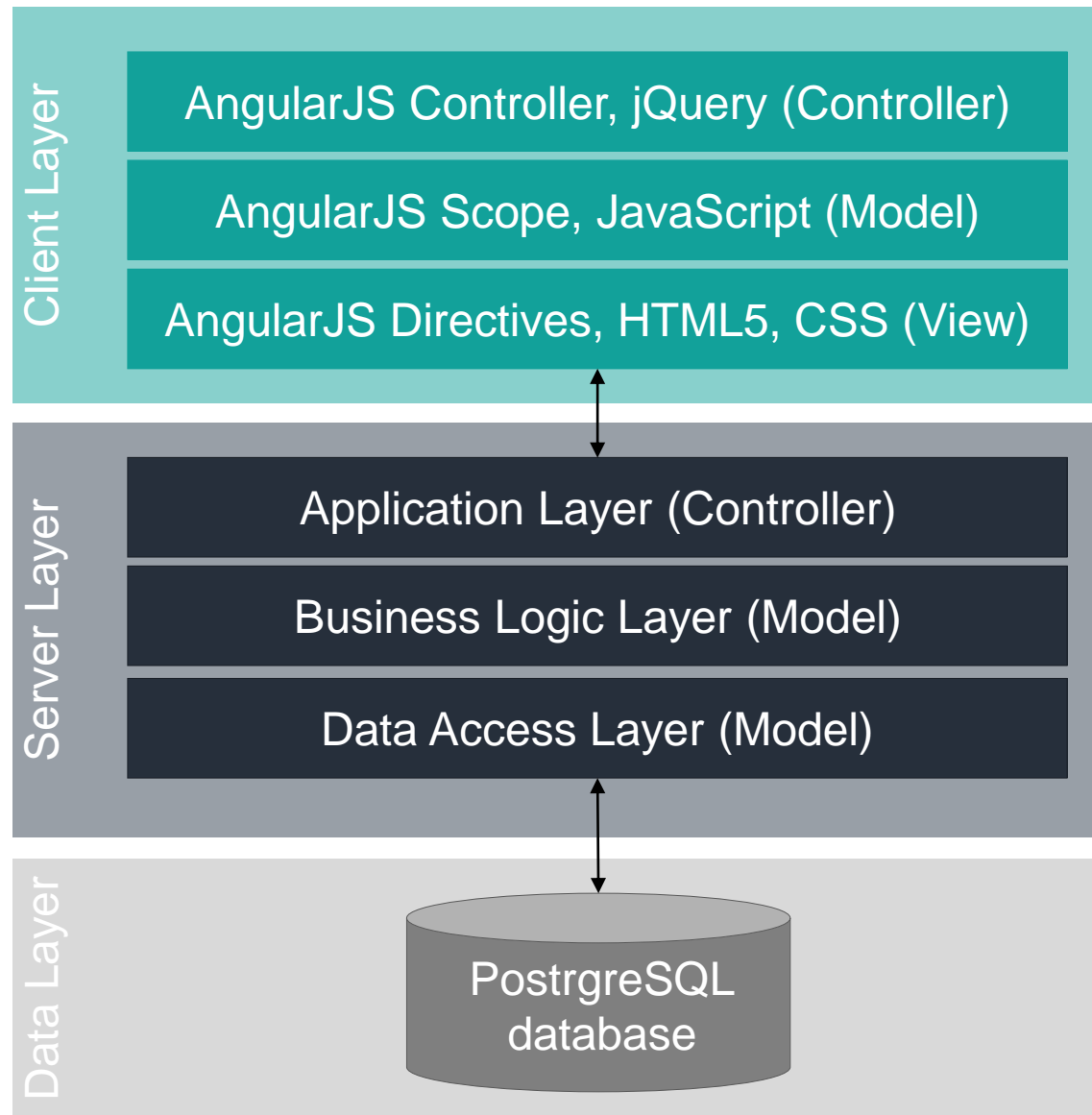
Layers and components

Analytical application



# CogniSoft Transactional Application

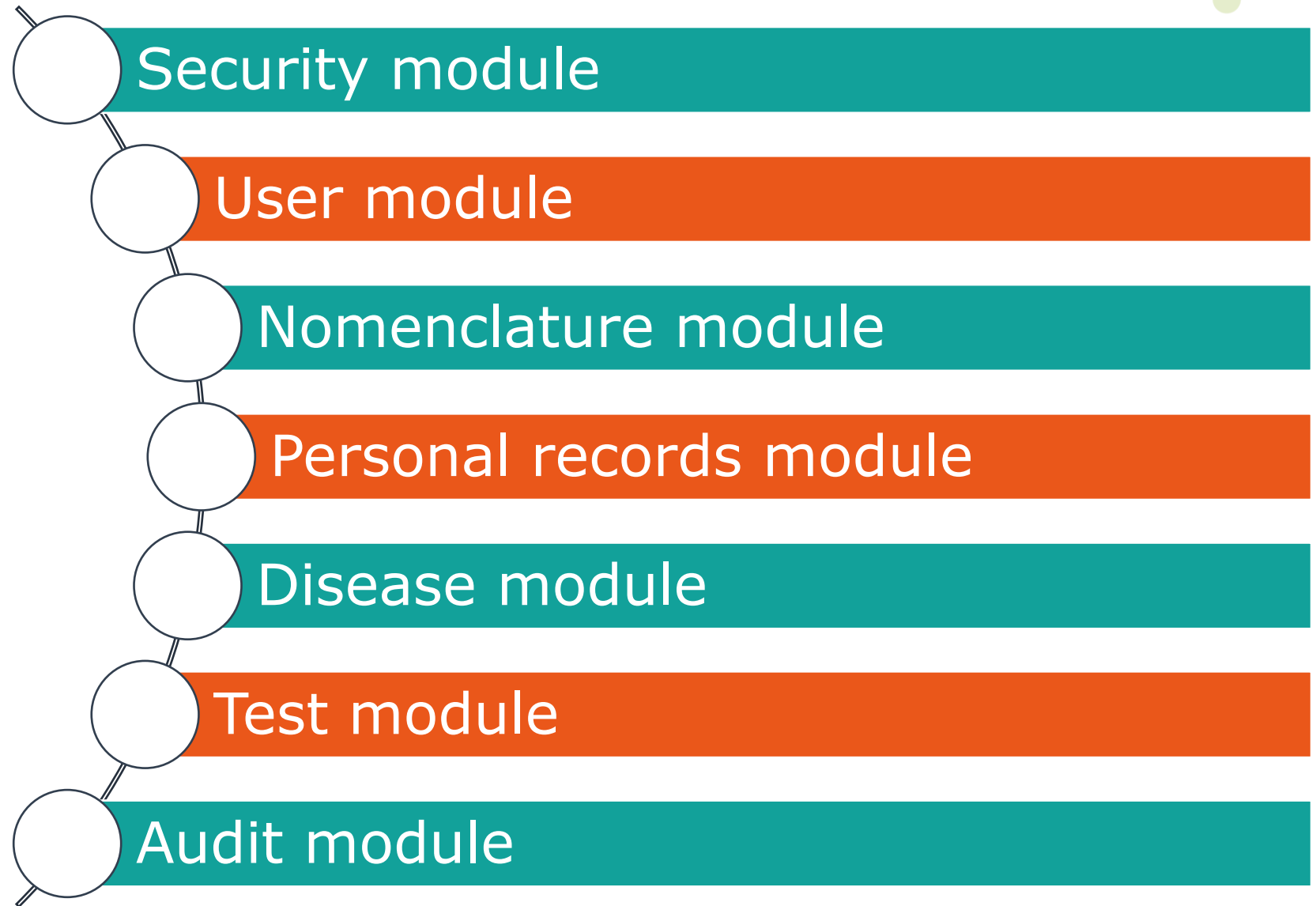
Layered  
architecture





# CogniSoft Transactional Application

## Modules



# Tests Automation Demo

Brief Visuospatial  
Memory Test  
(BVMT)

Beck Depression  
Inventory (BDI-II)

Rehabilitation  
game



Watch the full video on YouTube: <https://youtu.be/qUyD4MnTveg>

## Main outcomes

Adoption of Digital Twin Concept

CogniSoft transactional application

Architecture of the Advanced Analytical application



## Conclusions



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# Thank you!

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