

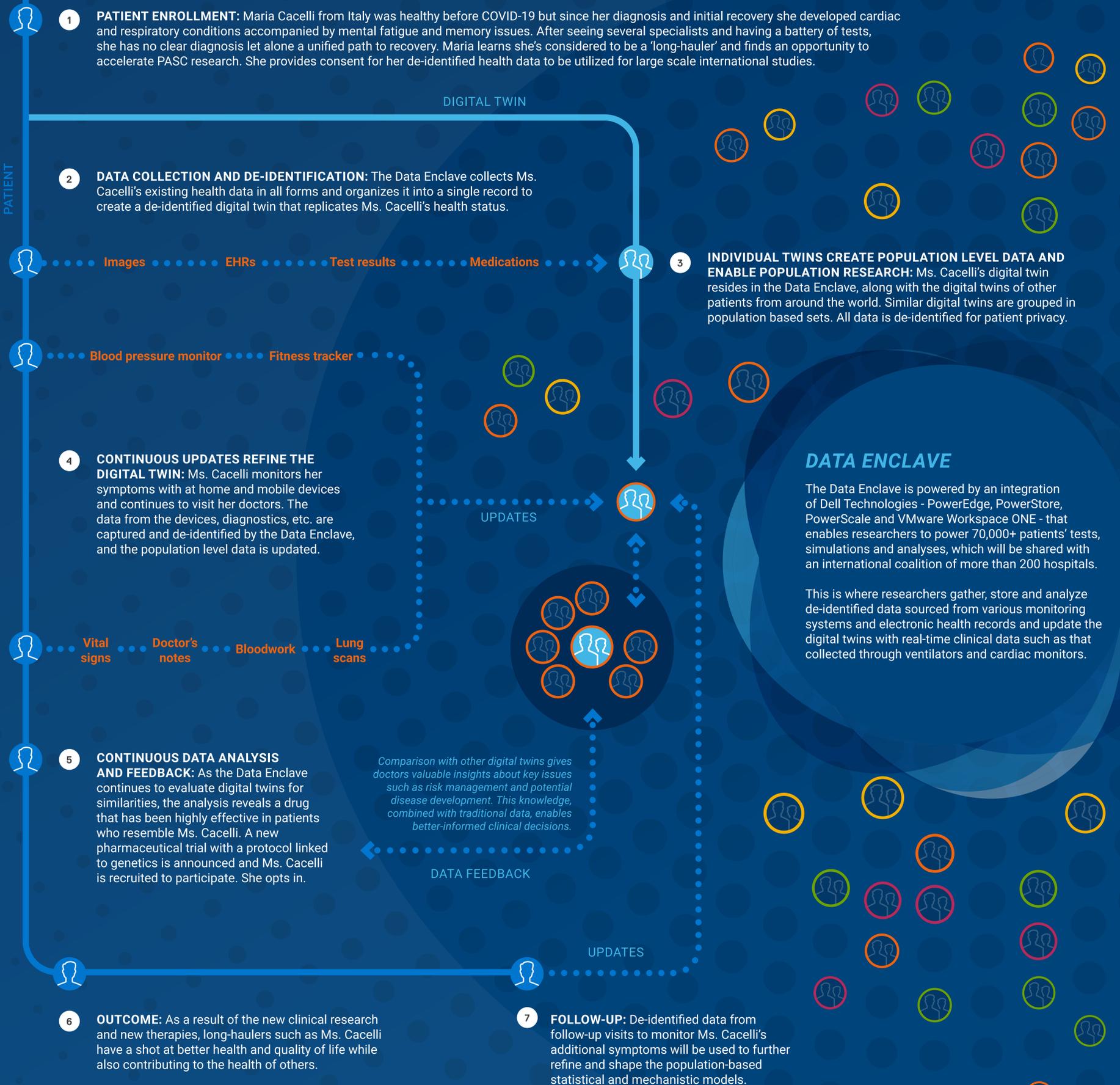
THE LEARNING HEALTH SYSTEM:

Leveraging the Power of Collective Data and AI-driven Research for Individual Impact



MARIA CACELLI **

DIGITAL TWIN FIRST USE CASE: With an estimated 1 in 20 COVID-19 survivors experiencing long-term symptoms* such as profound fatigue, brain fog, headaches, cardiac arrhythmia, fevers and shortness of breath, Post-Acute Sequelae of SARS-CoV-2 (PASC) is the next public health crisis. The COVID-19 Long-Hauler Project, a partnership between Dell Technologies and i2b2 tranSMART is applying the power of research—accelerated by AI and other advanced technologies—to understand the causes of PASC and develop effective treatments. The Digital Twin effort has the potential to expand with data for up to two million digital twins in the next four years.



*<https://directorsblog.nih.gov/?s=long+covid>
**Fictional patient representation