

# HOW DATA, DIGITAL & TECHNOLOGY POWER OUR R&D JOURNEY



## 1. DISCOVERY & PRECLINICAL RESEARCH

Using artificial intelligence (AI) and machine learning (ML) to accelerate target identification in drug discovery and automating data access and processes to drive efficiency and insights

## 2. EARLY-STAGE CLINICAL DEVELOPMENT

Integrating wearable technologies with AI-powered analytics to understand patients and their disease better



## 3. LATE-STAGE CLINICAL DEVELOPMENT

Leveraging real-world evidence to both ensure our clinical trial designs reflect the patient population and guide recruitment



## 4. MANUFACTURING

Combining physics and ML to streamline how we manufacture our therapeutics



## 5. REGULATORY SUBMISSIONS

Automating quality control of regulatory documents to improve quality of and accelerate submissions to health authorities



## 6. POST-APPROVAL

Enhancing pharmacovigilance leveraging AI to collect safety data and review safety events for our medicines



## OUTCOMES

