Designed and developed an intuitive risk-based intervention system for clinical drug trials
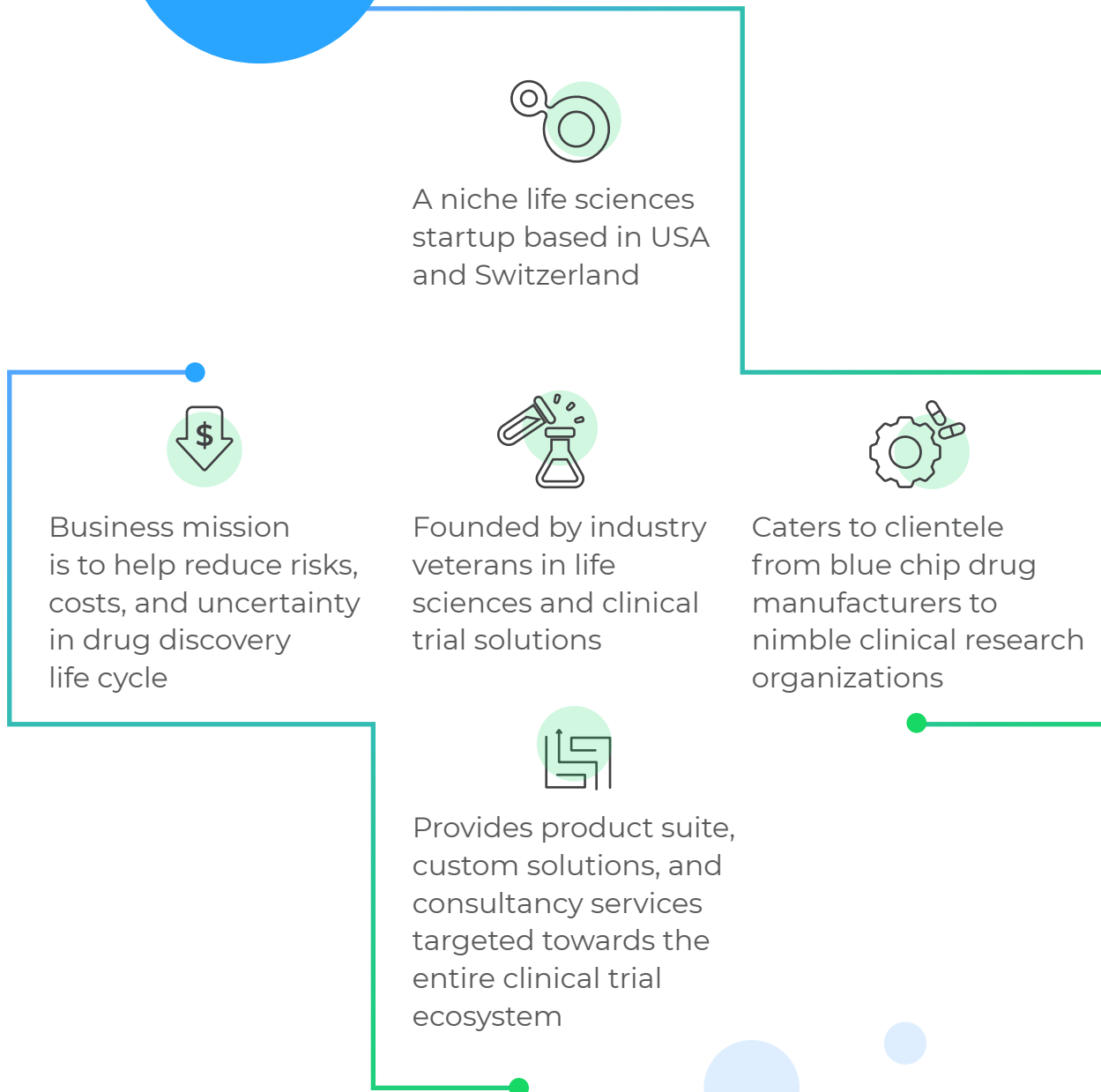
About the Client

A niche life sciences startup based in USA and Switzerland

Business mission is to help reduce risks, costs, and uncertainty in drug discovery life cycle

Founded by industry veterans in life sciences and clinical trial solutions

Caters to clientele from blue chip drug manufacturers to nimble clinical research organizations

Provides product suite, custom solutions, and consultancy services targeted towards the entire clinical trial ecosystem
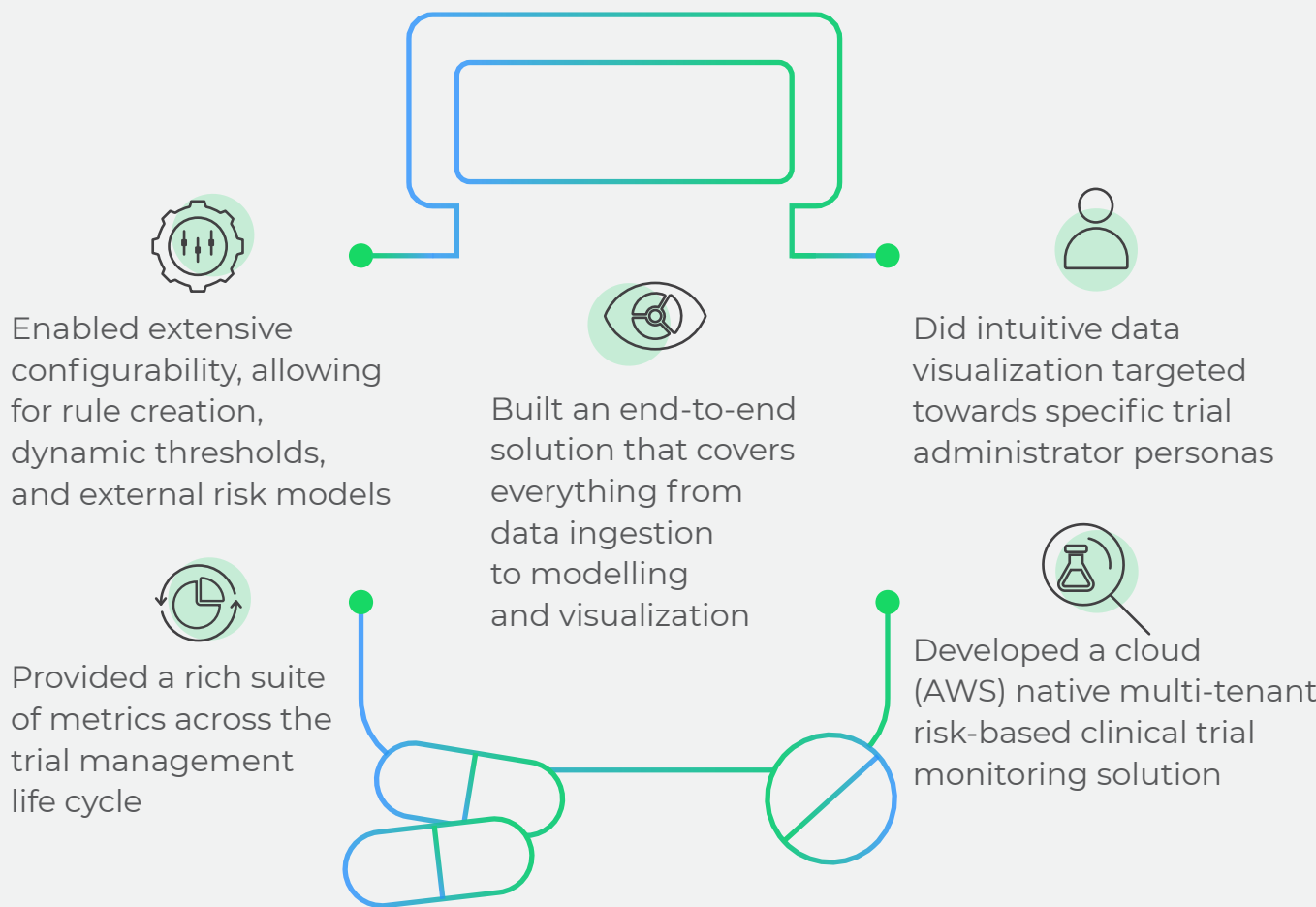
Business Needs

- Identify risks associated with a given set of clinical trial(s)
- Prioritize and stratify risks by severity, problem area, site, etc.
- Ensure effective remedial action is taken on identified risks
- Develop effective risk monitoring and visualization aids for tactical leadership
- Support client-specific extensive customizations
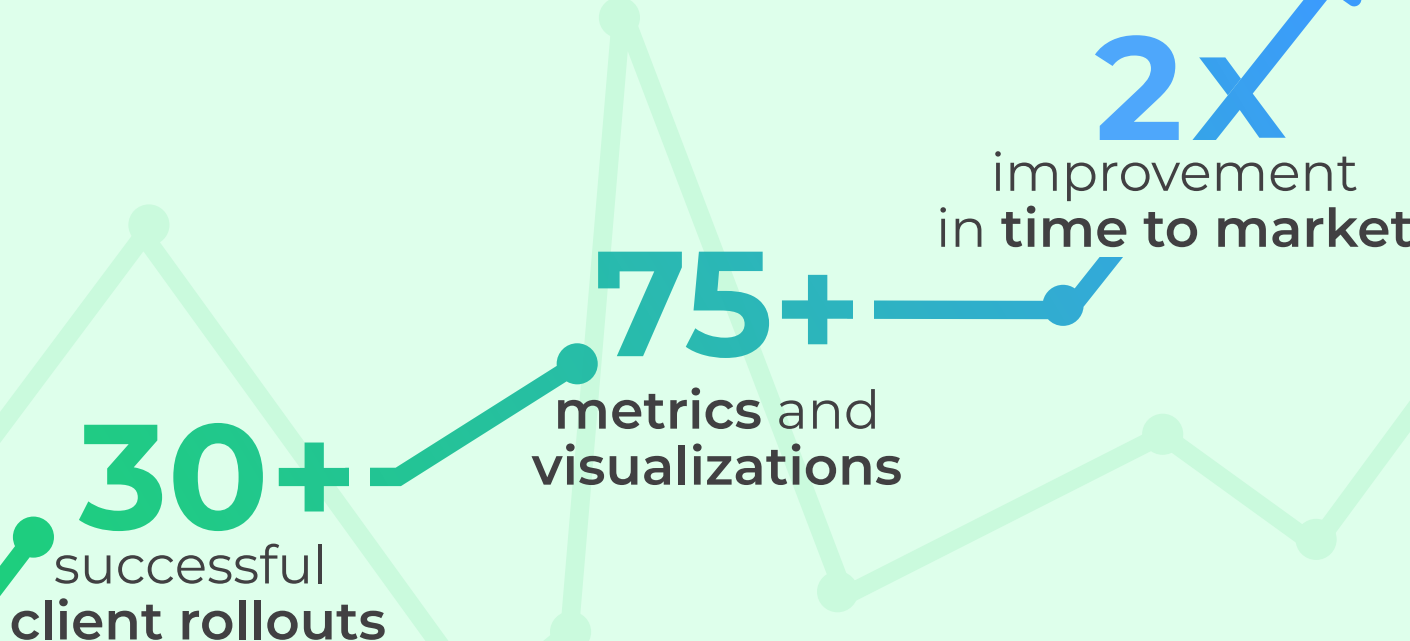- Be compliant with applicable regulatory standards

Solutions

Enabled extensive configurability, allowing for rule creation, dynamic thresholds, and external risk models

Built an end-to-end solution that covers everything from data ingestion to modelling and visualization

Did intuitive data visualization targeted towards specific trial administrator personas

Provided a rich suite of metrics across the trial management life cycle

Developed a cloud (AWS) native multi-tenant risk-based clinical trial monitoring solution

Technology Stack

Development Tools	docker • GitHub • JIRA • Confluence • Jenkins • sonarqube	**Languages and Framework** • R • D3 • php • python
Databases	MySQL • PostgreSQL	**Cloud Platform** • AWS

Business Impact

2x improvement in time to market

75+ metrics and visualizations

30+ successful client rollouts