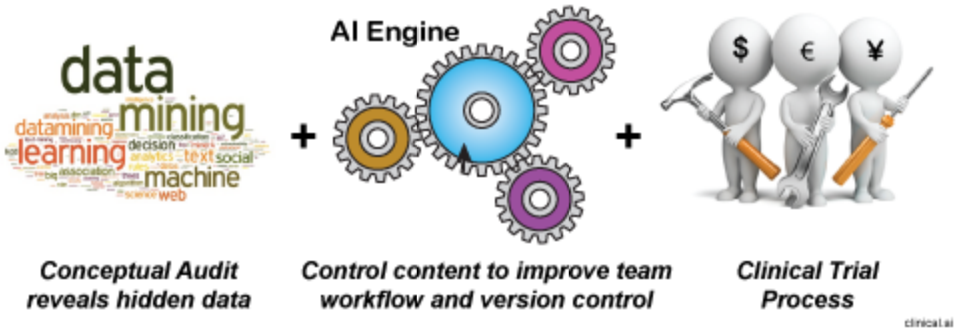
## Life Sciences Clinical Trials & Product Delivery

Bringing together diverse groups of stakeholders and sponsors to solve problems is difficult. One situation involved assimilating groups of industry specialists, academics, regulators and nonprofits who wanted to improve the quality of clinical trials. Initially, the priorities of each party were segmented by silos of clinical investigators, patients, payers, physicians and government officials. Getting each player on the same page required the integration of tools to setup clinical trial operations. GEM Analytics had to considered time, money, personnel, medical supplies and how systems integrated to establish a successful solution.

The project required a clear plan of execution focused on automating clinical trial steps in a new way. Our goal was to streamline the effective use of resources with all workshop participants. Initially, we mined hidden data in disparate servers and developed algorithms to calculate efficiency rates. This built the insight needed to launch a plug & play framework to manage stakeholder tools and efforts. The next step was to develop predictive analytics that anticipated the most likely set of outcomes. Our calculations tracked the output of research based on participation rates and the influence of support systems.




GEM Analytics audited unstructured information on servers to discover insight about current operations. This offered the opportunity to form a data framework that modeled clinical trial steps. We also determined how healthcare regulations (HIPAA, FDA, etc.) affected decision-making and showed how to demonstrate societal benefits and results without exposing individual patient data. Models accounted for demographics, facility infrastructures and regulatory restrictions to assess when trial interventions were required. We also differentiated between trial findings and patient results via routine care. The ultimate outcome was a more organized process with clearly defined workflow.