

## The **Innovation Catalyst** View

**View:** By sharing data, code, and findings openly, science becomes faster and more collaborative, accelerating breakthroughs in areas like medicine, climate, and AI.

The greatest challenges of our time—from curing cancer to combating climate change—are too complex to be solved by isolated teams working in secret. The traditional model of science, where data is hoarded until a final publication is ready, is slow, inefficient, and ill-suited for the 21st century. Open Science represents a fundamental upgrade to the scientific engine itself. By making data, code, and preliminary findings immediately available, we create a dynamic, collaborative ecosystem where progress can happen at an exponential rate.

Consider the possibilities: when a lab generates a massive dataset, instead of it sitting on a hard drive for years, it can be instantly accessed and analyzed by thousands of other researchers around the world. AI algorithms can be trained on vast, shared pools of information, leading to insights no single human could have found. The rapid development of COVID-19 vaccines was a powerful testament to this principle, as unprecedented data sharing accelerated the research and development timeline. While we must address concerns around intellectual property, we cannot let commercial interests hold back progress that benefits all of society. In a world facing urgent crises, the speed and collaborative power unlocked by Open Science are not just an advantage; they are a necessity for survival and progress.