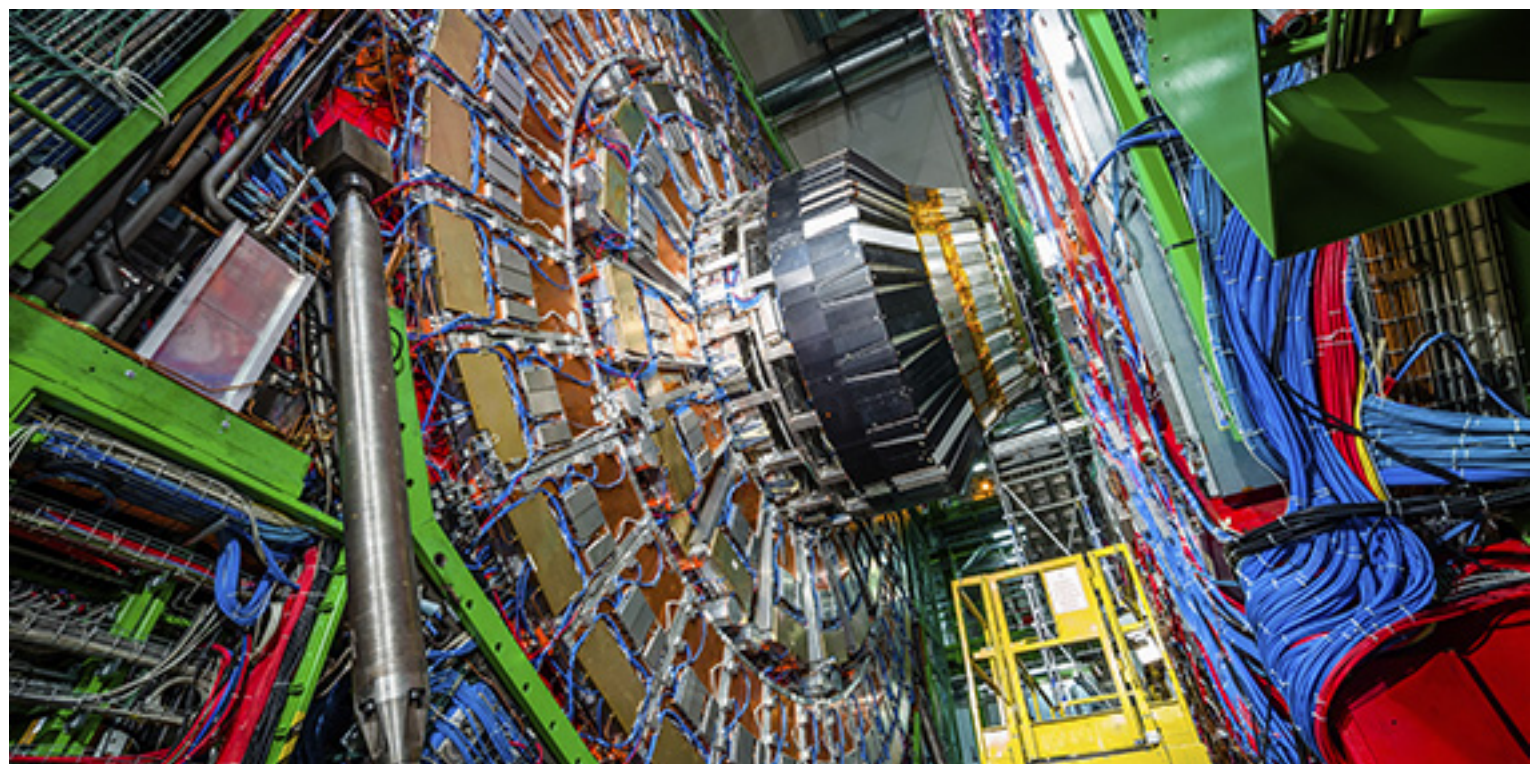## Seagate gives CERN space to accelerate their research.

CERN, the European Organization for Nuclear Research, is the world's largest particle physics laboratory and home to the Large Hadron Collider (LHC), the world's most advanced and powerful particle accelerator.

At CERN, physicists and engineers are probing the fundamental structure of the universe. They use the world's largest and most complex scientific instruments to study the basic constituents of matter—the fundamental particles. The particles are made to collide together at close to the speed of light. This process gives the physicists clues about how the particles interact, and provides insights into the fundamental laws of nature. It also produces a vast amount of data!

"CERN creates a truly astonishing amount of data on a daily basis, and finding secure and efficient ways to store it is one of the most important challenges we face."

—Alberto Di Meglio, Head of CERN openlab

Making progress at the rate of three petabytes a month.

The technical power needed to capture and crunch data at the world's leading particle physics laboratory is huge! Probing the fundamental structure of the universe—using the most complex scientific instruments—generates a phenomenal amount of data. CERN has collected well over a hundred petabytes of data to date, and continues to collect an additional two to three petabytes of information every month.

But it's not just about data.
It's about data intelligence.

Seagate has entered into a three-year collaboration with CERN openlab to develop the Seagate Kinetic Open Storage platform. This collaboration aims to help CERN improve its data storage processes, and is key to the organization's ongoing success in gathering and evaluating the huge amount of data the Large Hadron Collider has generated to date.

"We are excited to collaborate with Seagate on understanding how the Kinetic storage architecture could potentially contribute to the CERN infrastructure and aid the very demanding Large Hadron Collider program by reducing complexity and operational costs in our storage systems."

—Alberto Di Meglio, Head of CERN openlab

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