Healthcare | Italy

Accelerating cancer research

IRCCS CRO Aviano

Leading oncology hospital and research center IRCCS CRO Aviano upgrades its IT infrastructure with Lenovo ThinkSystem SR650 V2 servers, enabling researchers to analyze more data, faster.

1 Customer background

Who is IRCCS CRO Aviano?

The National Cancer Institute CRO Aviano (IRCCS CRO Aviano) is a major health research center and highly specialized oncology hospital in Pordenone, northern Italy. The institute works to improve public health by advancing medical knowledge, providing outstanding specialty medical care to patients, and preparing tomorrow's health professionals and scientists in the field of oncology. IRCCS CRO Aviano is a public, non-profit institute operating under the authority of the Italian Health Ministry for clinical and experimental research functions, and the Friuli Venezia Giulia region for patient care.

2 The challenge

IRCCS CRO Aviano's mission is excellence in the prevention, diagnosis, treatment, and rehabilitation of oncological diseases through multidisciplinary and integrated patient management; clinical, preclinical, and translational research; advanced training; and patient awareness interventions.

The IT infrastructure underpinning IRCCS CRO Aviano's research activity was reaching both end-of-life and full capacity. "Our research center stores a huge amount of data, and our existing systems could no longer keep pace with data growth," says the Head of Clinical, Technical-Structural, and Information Technologies at IRCCS CRO Aviano. "Researchers also needed more compute power to process and analyze all this data."

“The time had come to refresh our IT infrastructure, and we wanted something bigger and better than our previous systems. We looked for **more storage, more compute, and dedicated GPUs**—all in pursuit of better performance and faster analysis of research data.”

Head of Clinical, Technical-Structural, and Information Technologies,

IRCCS CRO Aviano

3 The solution

All-new IT

IRCSS CRO Aviano turned to trusted IT partner Intersistemi Italia for support. Together, the teams evaluated offerings from several vendors before selecting Lenovo ThinkSystem solutions.

Intersistemi Italia deployed four Lenovo ThinkSystem SR650 V2 servers, two of which are equipped with NVIDIA A100 GPUs.

Hardware

Lenovo ThinkSystem SR650 V2
NVIDIA A100 GPUs

Software

Microsoft Windows
VMware vSphere

Services

Lenovo Premier Support for Data Centers – Essential

3 The solution

Virtualized with VMware vSphere, the Lenovo infrastructure underpins all scientific research and data storage as well as IRCCS CRO Aviano's private cloud, shared clinical directories, and other business applications.

Intersistemi Italia provides ongoing support and maintenance services, and the infrastructure is also backed by Lenovo Premier Support for Data Centers.

“The Lenovo ThinkSystem infrastructure delivers exactly what we were looking for—more capacity, higher performance, and dedicated GPUs, enabling researchers to **process, analyze, and simulate data faster and more efficiently**.”

Head of Clinical, Technical-Structural, and Information Technologies,
IRCCS CRO Aviano

4 The results

The new Lenovo infrastructure has given IRCCS CRO Aviano's research a significant boost. This includes research into tumor genetics and biology, tumor epidemiology and prevention, hematologic neoplasias, and solid tumors, with the ultimate goal of better diagnosis and treatment.

The IT Director at IRCCS CRO Aviano notes: "Our previous systems could not support GPUs or virtual machines, so the move to Lenovo ThinkSystem is a big step up in terms of performance and availability. Most importantly, researchers now have the compute resources they need to process and analyze more data faster, shortening time to insight. The GPUs will enable us to do much more than was previously possible, and are central to several exciting new research projects."

- More capacity
- Higher performance
- Faster time to insight

“The Lenovo ThinkSystem infrastructure is **fundamental to our mission**. We can crunch more data and get results faster, helping our researchers to **make new discoveries and advance medical knowledge**.”

Head of Clinical, Technical-Structural, and Information Technologies

IRCCS CRO Aviano

Why Lenovo?

IRCCS CRO Aviano worked closely with Intersistemi Italia to determine its current and expected future compute and storage requirements. “The Intersistemi team was very thorough and evaluated the market to find the right solution for our needs,” says the IT Director. “Lenovo came out top in terms of performance, and we were impressed by the GPU options available.”

She continues: “Intersistemi installed, configured, and tested the Lenovo systems before migrating workloads over to the new environment. Everything went very smoothly, and the Intersistemi team also took the time to train our IT team. They’ve been great to work with.”

“Lenovo helped us with the architecture design and provided **valuable assistance** throughout the deployment. Working with Lenovo is a positive experience, and **together we were able to provide a solution that meets IRCCS CRO Aviano’s unique requirements**.”

Andrea Alberti

Senior System Network Administrator, Intersistemi Italia

How can research institutes shorten time to insight?

Working with Lenovo and Intersistemi Italia, IRCCS CRO Aviano boosted the performance of research workloads with a new Lenovo ThinkSystem infrastructure.

Explore Lenovo ThinkSystem Solutions

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