

SOLUTION:
DataINDUSTRY:
Higher educationCOUNTRY:
Uruguay

SOLVING URUGUAY'S BIGGEST CHALLENGES

“Our country is now in a better position to develop innovative research initiatives, especially those focused on tackling social and other important problems.”

– **SERGIO NESMACHNOW**
PROFESSOR, FACULTY OF
ENGINEERING,
UNIVERSIDAD DE LA
REPÚBLICA URUGUAY

The Faculty of Engineering at Universidad de la República Uruguay is helping drive inclusive development and address social and other challenges by creating a national high-performance computing (HPC) infrastructure for scientific research. Cluster-Uruguay (Cluster-UY) now powers complex and ambitious projects, enabling researchers to solve new and bigger problems such as COVID-19 and improve public services through better access to transportation and jobs.

OBJECTIVES

- Provide researchers with greater and more equitable access to HPC resources in one place
- Allow scientists in Uruguay to develop research initiatives focused on tackling social and other important problems
- Enable researchers to expand their scope of work and explore new and more challenging fields of study

REQUIREMENTS

- Deploy reliable and high-performing server systems to create a more powerful computing cluster

- Implement high-end GPUs to meet large scientific computing requirements
- Ensure the scalability of the hardware infrastructure to keep up with changing requirements

SOLUTION

- HPE ProLiant DL380 Gen10 servers
- NVIDIA® GPUs

KEY PARTNERS

- NVIDIA
- Conatel S.A.

OUTCOMES

- Supports the development of diverse research projects that tackle complex challenges such as COVID-19
- Helps Uruguay strengthen its energy supply and lower power costs by supporting a shift to renewable sources
- Increases CPU performance 3x and GPU performance 28x, enabling researchers to run large computations

ADDITIONAL RESOURCES

- [CASE STUDY](#)

→ EXPLORE DIGITAL GAME CHANGERS

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