About AARNet

Australia’s Academic and Research Network (AARNet) is a national resource – a National Research and Education Network (NREN).

For more than 25 years, AARNet has provided unique information communications technology capabilities to enable collaborations between Australian research and education institutions and their international peer communities.

Today, AARNet network infrastructure interconnects the Australian research and education communities with the global research and education community, the public Internet and resources, such as scientific instruments, data storage, computational facilities, content and service providers, across multiple 10, 40 and 100 gigabit per second (Gbps) links.

AARNet also provides a range of value-added network and collaboration services to support teaching, learning and research.

Over one million users—researchers, faculty, staff and students—at institutions across Australia rely on the network. AARNet supports education across the life-long learning spectrum and research across a diverse range of disciplines in the sciences and humanities, including high-energy physics, climate science, genomics, radio astronomy and the arts.

By providing the tools and services to connect like-minded collaborators in the research and education sector, AARNet plays a vital role in enabling knowledge creation and innovation.

Why do our customers connect?

The AARNet network infrastructure and services are designed to meet the needs of Research and Education institutions

- AARNet interconnects Australian researchers with data-intensive resources such as telescopes, storage and computational facilities, and the global research community.
- The network is reliable and scalable, engineered to accommodate extreme peaks of demand with a minimum of congestion and at the lowest possible latency.
- AARNet removes geographical, technical and commercial barriers to the creation of new educational experiences and research-led innovation.
- AARNet owns, or has access to, fibre infrastructure which underpins a unique consumption model aligned to the specific business and budget requirements of research and education institutions.
- Globalisation is a reality for Research and Education. AARNet partners with the approximately 120 other NRENs globally, which means AARNet connected institutions are part of an international community dedicated to learning and discovery.

AARNet connects the best and brightest minds, enabling knowledge creation and innovation.

For more information:

aarnet.edu.au
Fast Facts

Not-for-profit company

Owned by 38 Australian universities and CSIRO

Licensed telecommunications carrier

Funded through membership subscriptions

Supported by Commonwealth investments

Owns or has direct access to fibre optic cable across Australia and through major capital cities

Delivers a high-performance network - 100Gbps backbone across Australia and 40Gbps links to international destinations

Provides a range of value-added network, collaboration, content and mobility services

Pioneered the arrival of the Internet in Australia in 1989

Our Services

In addition to core network connectivity services, AARNet provides a portfolio of layered or value-added services designed to support research and education communities in the key areas of collaboration, content and mobility.

AARNet’s reliable high-speed network and collaboration services empower teachers to use new technologies in their classrooms. We pursue a collegiate spirit of community engagement, partnering with specialist vendors and content providers worldwide to bring high quality progressive educational projects to our community of schools.

Our Communities

- Australian universities
- Research institutions, including CSIRO, ANSTO, DSTO, NICTA, AIMs
- Australia’s major teaching hospitals and health researchers and educators
- Associations of Independent Schools, Catholic education systems, directly connected Independent and Catholic schools and some Government school systems
- Research and education resource providers, such as galleries, libraries, archives and museums

The unique research infrastructure AARNet provides interconnects researchers, data-intensive resources such as telescopes, storage and computational facilities, and the global research community. Our network and services enable access, transforming how scientists work together in their quest to solve the world’s most pressing problems.

From primary school student to Nobel Prize-winning researcher, AARNet transports the inquiring mind to the edge of discovery.