

Health Initiatives

VPAC, a leading, independent Advanced Computing R&D service provider, is a not for profit registered research agency established in 2000 by a consortium of Victorian Universities.

At VPAC, we provide expert services, training and support in High Performance Computing as well as professional R&D services in the application of Advanced Computing in the fields of Engineering, Geophysics, Health, Life Sciences, Spatial Information and Grid Computing.

Our aim is to help Australian researchers utilise Advanced Computing to create innovations that will place Australia at the forefront of scientific research and development.

Health @ VPAC

VPAC combines its expertise in Advanced Computing and strong relationships with the health and research sector to deliver services that will maximise the benefits that health care providers and patients receive from electronic health records.

Capabilities

- Clinical Applications Development
- Clinical Databases
- Personal Health Records
- Hosting Health Data
- Health Information Systems Integration

Clients

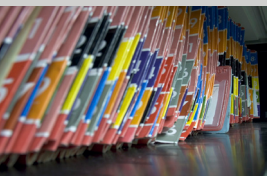
VPAC's clients and collaborative partners in the Health sector include:

- Melbourne Health
- Southern Health
- Northern Health
- Austin Health
- Peter Mac Callum Cancer Clinic
- St Vincent's Hospital
- Victorian Cancer Biobank
- University of Melbourne

R&D Projects

VPAC has a demonstrated track record of successful research and development in the Health sector, including:

- BioGrid and the Australian Cancer Grid
- Victorian Cancer Biobank
- Human Variome Project
- GHRANITE™
- Clinical Portals
 - Diabetes
 - Obesity
 - Tuberculosis



Health Capabilities

Clinical Applications and Database Development

Inconsistency of standards for coding and classifying patient and clinical information can prevent health care providers and recipients from seeing the full benefits of modern electronic health information systems. These systems demand quality Clinical Applications Development to ensure consistent data entry and reporting and complete and accurate patient medical histories.

VPAC develops and implements quality clinical applications for health care providers. We possess a number of qualities that make us a clear choice for your clinical applications development requirements:

- Understanding of clinical workflows
- Communication with clinicians
- Development of usable interfaces on clinical platform
- Technical resources for application development and database development
- Integration services to hospital systems (including HL7)

Health Data Hosting

VPAC provides a range of co-location services to assist researchers to collaborate on large and distributed data sets in a federated manner, as well as to provide customised hosting solutions for secure Health databases, web-services and virtual machines.

VPAC's turnkey solution allows hardware to be incorporated into the service agreement, allowing for a high performance, high availability and highly secure hosting platform with data backup services. The service is managed by a team of qualified administrators with help desk support.

Health Information Systems Integration

Robust Health Information Systems Integration is vital in ensuring the accurate linking of data from inconsistent, heterogeneous and disparate health care databases across departments and across institutions. Electronic health information systems are comprised of numerous and assorted software packages and applications. As these applications advance, the need for information sharing between systems increases. An increasing number of programs on the internal network demand to see patient admission, discharge and transfer data in real time to have the most accurate view of the health care organisation.

VPAC offers services from consultancy and advice to designing and building solutions that bring complex technologies together to provide compatibility and interoperability among different health care organisations' equipment and services.

Contact

For further information regarding VPAC's services for the Health sector or for information regarding VPAC's Health Initiatives R&D Projects and other case studies, please contact health@vpac.org or phone +61 3 9925 4645 or visit www.vpac.org.

