CREATING THE ULTIMATE INFORMATION ENVIRONMENTS FOR PEOPLE...

PROGENI
SOLUTION PROVEN SOFTWARE
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T E Lawrence said "the dreamers of the day are dangerous men, for they may act their dream with open eyes, to make it possible".

The men and women of PROGENI are in this mould in the sense that they take the aspirations of our clients, add the technology and "make it happen". Anyone can have an idea but the art and science of making an idea a reality which can be used by ordinary people is the province of few people and few organisations. PROGENI is one of these.

Our expertise lies not just in being at the forefront of our chosen areas of technology but in our ability to understand the needs and capabilities of the people in an organisation. This means that the whole complex task of analysing the requirements, designing, implementing the system and training the users can be accomplished smoothly, reliably and economically.

PROGENI's role is that of innovator, integrator and implementor of systems of many kinds. Technological transfer capabilities, professional excellence, organisational ability and understanding combined with project management ability of a high order have been our hallmarks over many years. We not only build integrated systems containing computers or components from many suppliers, if necessary, we build systems economically. We build systems that work and that keep on working. We will continue to do so.
An Environment Hard Won Through Experience

It is essential to balance any organisation's past, present, and future when assessing the future. Only by charting the accomplishment of the past can a value judgment be formed about its integrity and likely performance.

PROGENi has shown over considerable time an enviable result in both performance, endurance, and integrity traits; which some others in the computer industry have often failed to develop. This stability is also remarkable because it has been expressed on an international scale.

Founded in 1969, without formal affiliation to any supplier of mainframe hardware, it has endured and, preserved to this day, PROGENi continue as it intended to continue. Now a source of high technology computer systems, applications software and peripherals, this avant-garde systems house has always answered the needs of automated information processing ahead of its time.

In the late 1960s and early 1970s, PROGENi software realised for users the benefits of mainframe computers.

PROGENi's forte was the development of task-specific software programs for commerce, industry, and government agencies, and the complete design and implementation of mainframe database system projects.

Maintaining such work into the late 1970s and beyond, this second decade found PROGENi specialists pioneering development in the area of software internationally accepted today as Fourth Generation Language (4GL), but then a dramatic new dimension in computer programming automation.

PROGENi's 4GL brought factory-type productivity line automation to the preparation of software code, greatly simplifying and speeding previously laborious, time-intensive aspects of repetitive coding within programs.

There are now many similar systems in use, including those PROGENi itself has brought to the fields of training and instructional support. Nevertheless, the fact that the original Fourth Generation product is now increasingly sought after demonstrates that the product was well ahead of its time when it was released in 1978.

No division of the PROGENi operation ever stands still, or rests on past laurels. In the run-up to today, the company has successfully initiated a considerable diversity of products, services, and projects, covering all facets of information processing. Whatever people have expected from systems automation, PROGENi has striven to provide. Its total professionalism is as ready today for tomorrow as it was when it first began.

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1985
- Radio Communications (Australia) Limited (now owned by PRMC) incorporated
- PROGENI opens further office in Melbourne
- PROGENi opens office in Brisbane
- PROGENi opens offices in Sydney

1984
- CDMA (Computer Development Management Associates) Limited incorporated
- PROGENi opens new office in Wellington

1983
- PROGENi opens new office in Canberra
- PROGENi opens new office in Melbourne
- PROGENi opens new office in Sydney
- PROGENi opens new office in Brisbane

1982
- PROGENi opens new office in Adelaide
- PROGENi opens new office in Hobart

1981
- PROGENi opens new office in Bangkok
- PROGENi opens new office in Kuala Lumpur
- PROGENi opens new office in Singapore
- PROGENi opens new office in Jakarta

1980
- PROGENi opens new office in Manila
- PROGENi opens new office in Hong Kong
- PROGENi opens new office in Tokyo
- PROGENi opens new office in Seoul

1979
- PROGENi opens new office in Ottawa
- PROGENi opens new office in Montreal
- PROGENi opens new office in Toronto
- PROGENi opens new office in Winnipeg

1978
- PROGENi opens new office in Vancouver
- PROGENi opens new office in Calgary
- PROGENi opens new office in Edmonton
- PROGENi opens new office in Red Deer

1977
- PROGENi opens new office in Chicago
- PROGENi opens new office in Detroit
- PROGENi opens new office in Buffalo
- PROGENi opens new office in New York

1976
- PROGENi opens new office in Los Angeles
- PROGENi opens new office in San Francisco
- PROGENi opens new office in Seattle
- PROGENi opens new office in Portland

1975
- PROGENi opens new office in Denver
- PROGENi opens new office in Dallas
- PROGENi opens new office in Houston
- PROGENi opens new office in Austin

1974
- PROGENi opens new office in San Diego
- PROGENi opens new office in Phoenix
- PROGENi opens new office in Denver
- PROGENi opens new office in Minneapolis

1973
- PROGENi opens new office in St. Louis
- PROGENi opens new office in Milwaukee
- PROGENi opens new office in Columbus
- PROGENi opens new office in Detroit

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- PROGENi opens new office in Brussels
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Designers, Integrators and Implementors in Every Sphere

Australia's leading computer software and communication systems resource, PROGENI, is applying practical solutions to the opportunities created by diverse technologies emerging from the information age. The company has won considerable international recognition for its work in advancing information engineering technologies without geographical constraint, and fosters at all times a mutually beneficial flow of 'leading edge' concepts to and from high technology centres spread over two hemispheres. Similarly, PROGENI people are to be found everywhere there is a demand for their services.

While Australia has the main concentration of permanent offices and operational sites, strong demand for PROGENI software services in the Northern Hemisphere now support regional offices in the United States. Dedicated to excellence in all the services it performs, PROGENI from its inception in 1968 has maintained this policy as its operations have evolved in keeping with the fast-paced changes in computing.

Developments have involved such much ground-breaking work in all industry sectors that PROGENI can claim a priceless and almost unique advantage for its diverse, in-depth and vigorous skills: skills balanced by operational maturity based on long experience.

The practical reality supports all PROGENI activities. Systems design and implementation; industrial control systems; learning support and training systems; communications and data networks; consultancy and facilities management.

PROGENI is unequalled in Australia in terms of its innovative solutions and creative approaches to problems. Our work consistently enlarges the boundaries of the growing science of information engineering.

With specialist staff exhibiting highly developed levels of skill, expertise and professionalism, we believe as Designers, Integrators and Implementors of complete system solutions that we deliver practical working benefits to the user. Evolving in such a climate has led to the current advances in fourth generation software environments being applied by PROGENI to commerce, industry and training long before their potential had suggested itself to others.
Team Solutions Appropriate to the Situation

A lot of creative people stand behind PROGENI's uncommon ability to innovate. They also contribute a tried and proven operational structure which epitomizes the proper execution of assignments.

PROGENI attracts and maintains a large body of highly motivated, qualified and experienced consultant and technical staff, who work within a goals-oriented structure of great depth. This essential creative resource underpins all project, product and general service activities across the company and throughout its divisions, wherever they are to be found.

At this operational core, PROGENI applies proven system development methods to the definition, design, documentation, implementation, user training, acceptance testing, maintenance, and on-going operational support accorded to every service bearing its name.

Professional project management techniques take pride of place. These set tough standards of excellence related to schedules of materials or components to be delivered, formal milestones (key stages of assignment completion), critical path forecasting and progress monitoring. 'On-demand' or regular progress reporting in project operations and providing deadlines for fixed total reviews of each assignment by experienced consultants not already involved in the work.

The team approach used for performing the tasks provides for continued growth in capability of highly selected personnel in a disciplined environment. The range of tasks carried out by the company includes virtually all brands of machines, programming languages and operating systems. That means, as we noted earlier, total independence in client advice; PROGENI recommends only the most appropriate hardware for a particular assignment, everytime.

**SYSTEM DEVELOPMENT METHOD**

![Diagram of System Development Method](image)
Having examined the strengths of PROCENI in people terms, it is also appropriate to describe the company's operational infrastructure for it is of considerable importance to the quality of performance.

A predisposition toward the matrix working format encouraged the founders of PROCENI, in common with those in other 'knowledge' related industries, to adopt this kind of environment. The matrix has proven a superb stimulus to creative thinking and expression, and it has resulted in a free-ranging working environment which greatly benefits all clients of the PROCENI organisation.

Although stereotyped rigid administration practices are considered inappropriate to PROCENI, active management control is as essential as in any other well-run company.

PROCENI applies such management control by applying its own technology to enable the proper functioning of this matrix organisation. This allows the discreet but effective supervision essential in a rapidly-changing commercial environment. It permits the full drive and creativity of high-performance professionals to be brought to bear on defined goals with the necessary minimum of control and frustration.

Classical Corporate functions are restricted to a handful of senior executives.

Beyond these people, the PROCENI matrix structure applies to the operations of each of the divisions acting in concert with the country and office organisation which is in contact with the client.

Currently, these divisions provide services in proprietary software, learning support, industrial control systems, general projects and communications and network systems.

PROCENI offices in North America, Australia and New Zealand provide a varied mix of services according to customer demand experienced at the specific location. This method of focusing a full range of professional expertise on the client's problems epitomises the spirit of the matrix concept.

The company also places its project management and technical staff on location in areas outside the permanent office network to cater for international assignment operations.
The Proven Assurance of Previous Performance

As before, any leader of its industry, the PROGENI organisation can lay claim to a diverse operational experience. Much of this has been ground-breaking work in areas lacking previous contact with a systems approach. From major development projects to facilities management and "turnkey" work, PROGENI has exhibited consistent innovation appropriate to the assignment. A brief cross-section of past assignments illustrates the point.

Through a joint venture, PROGENI was responsible for developing software for the Wanganui Computer Centre. This is one of the world's most comprehensive computer-based criminal justice information systems. The centrally-located large database system services a nationwide on-line enquiry network and supports the short and long-term work of all New Zealand Government agencies involved in law enforcement.

In similar vein, the company used its extensive systems abilities to design and develop a specialised information and communications system for the Victorian Police in Australia. It also created around the time a unique switching system for Australia's two leading radio networks. The switching of programmes at key points of transmission now occurs to a completely computer programmed format.

In a most significant assignment, PROGENI staff worked in North America as subcontractors to the Boeing company on the development of software for on-board aircraft computers for the RNZAF Orion aircraft.

In other areas of defence support, PROGENI has supplied a considerable number of POLY learning support microcomputers to the Army School of Signals in Australia. Installing its own micro hardware and software, PROGENI also "trained the trainers" in charge of the new equipment.

TESTMATE, an automatic test equipment system has become another milestone in PROGENI
Control Systems development. Designed primarily to automate the testing of electronic communications equipment for the military, TEGYMAT has ably demonstrated that any organisation involved in electronic manufacturing, servicing or process control will directly benefit from the time and cost savings it provides.

PROGENI is an active marketer of software products as well as consultancy and one-off services. The chosen products are mostly ones which improve efficiency, productivity, ease of use or reliability for professionals and end users alike rather than fixed application packages. The company's own Fourth Generation Language Systems are used by clients in every spectrum of business, especially in North America. They vastly improve the output of programming personnel or users especially in complex, on-line and database situations. Communications services are especially vital to a commercial operation. For a major New Zealand investment society, PROGENI operates a comprehensive resource which includes packet switching facilities — a sophisticated communications method which gives maximum efficiency in the use of telephone lines. This installation also includes a total on-line banking system designed and built completely by PROGENI to the PSS requirements.

Finally, PROGENI's custom-built systems 'packages' are marketed to a wide range of end-users, with principal emphasis falling on the food processing sector in both New Zealand and Australia. The systems cover set-weight carton monitoring, production reporting, automatic carton identification, weighing and labelling; automatic constituent measuring, mixing and processing to formula; voice-activated data registration and radio/television line switching. New 'packages' are being constantly added to the overall product selection.
The Software Products Division of PROCENI provides the distribution, installation and on-going support of software package products represented by the company in Australasia. The Division is also responsible for the delivery of PROCENI Fourth Generation Language Systems in that marketplace.

Much of this activity is associated with the comprehensive product range of software giant ADR (Applied Data Research Inc. of Princeton, New Jersey). ADR products are world leaders, designed to support the three "centres" of system software operation — the information centre, the development centre and the production centre using IBM or IBM-compatible equipment. ADR's information centre concept gives management instantaneous access to complete and current information, accessed and analysed with ADR's query and decision support software.

By contrast, the development centre caters for greater application development productivity through fourth generation products. ADR offers, through PROCENI, an array of thoroughly-integrated productivity tools suited to the professional developer — fourth generation language IDEAL, on-line programming and program management systems from ADR serve these functions.

The Production Centre concept is based on relational databases and active data dictionary products which provide the basic foundation of all system software environments. The ADR production centre database is unique in that it can simultaneously support development centre and information centre processing. PROCENI's Software Products Division is also responsible for the following proprietary software:

**SYNCSORT**
A high performance efficient sort program for IBM mainframes. Faster than IBM sort, Syncsort is used by 70% of all MVS sites.

**USERTAB/FILLETAB**
From NCC of Great Britain. PROCENI offers UserTab and FileTab — highly sophisticated tools for computer professionals and end-users in CCL and IBM environments.

**PROCENI FOURTH GENERATION LANGUAGES**
A particularly powerful Burroughs software generation aid which simplifies and enhances programming work with an emphasis on in-house situations.
Active in the specialist area of industrial control systems, PROGENI's Control Systems Division are increasing manufacturing productivity throughout Australia. The Division employs "state of the art" high technology devices in its products which combine advanced software development and hardware skills for optimum automation in industrial processes and information systems. PROGENI's unique ability to provide custom-built systems ensures that problems concerned with manufacturing productivity, quality control and industrial automation are effectively solved.

PROGENI is a recognised leader in many of the automated systems and their functions include:
- Product weight monitoring
- Production reporting
- Automatic product identification
- Weighing and labelling
- Automated batching through constituent measuring
- Mixing and processing to formula
- Voice activated data registration
- Radio/television line switching
- Precise liquid measurement
- Alarm annunciation
- Control of energy usage
- Ink jet labelling facilities
- Weighbridge goods receipt
- Quality control and reporting

The extensive capabilities, reliability and cost efficiency of PROGENI industrial control systems results from the dramatic advances in microprocessor and software program development. PROGENI's specialist-trained systems engineers who design and develop them are experienced capable technical specialists whose abilities range from basic consultancy to utilizing the latest high-tech devices in developing optimum systems in the area of industrial automation.
COMMUNICATIONS & NETWORK SERVICES

PROGENI has placed a great deal of importance on the development of a comprehensive real time network and bureau service, linking all major New Zealand cities and towns to a central computer site located in Wellington.

Data Networks, a part owned PROGENI subsidiary, operates the facility catering for the off-site computer needs of the business community. This nationwide system operates through a set of geographically distributed mini computers each of which acts independently of the mainframe facility.

Users located anywhere in the country can communicate with other offices in their organisation and also draw on the full power of the central facility as required.

Many application packages are available, alternatively the software expertise of PROGENI can be engaged to develop a system to the client's precise requirements. Using the Burroughs mainframe equipment and Parkin Liner nodes as a distributed system enables Data Networks to offer full computer resources 'on tap' without the operational and cost overhead premiums of in-house facilities.
PROGENI CUSTOMERS WORLDWIDE

Accident Compensation Commission
Alcatel Computer Processors Ltd
Agricultural Bankers Australia Ltd
Acclen Computer Services
Ambulance Service Melbourne
Air New Zealand
Alder Stocks of Australia
Auckland Regional Authority
Australian Broadcasting Corporation
Australian Department of Health
Australian Pâtisserie Ltd
Australian Iron & Steel Pty Ltd
Australian Paper Manufacturers
Australian Department of Defence
Australian Pharmaceutical Industries Ltd
Australia & NZ Banking Group Ltd
Aria Products Pty Ltd
BIP Australia
Balinsa Industries Ltd
Bent Publications Ltd
Bermagui Metropolitan District Council
Building Research Association of New Zealand
BNZ Finance
Brookwood Corporation of New Zealand
Burleighs Ltd
Cabinet Oil Aust. Pty Ltd
Central Institute of Technology
Cone Mills Inc. USA
Charge Card Services
Comaco Aluminium Ltd – Weipa
Consolidated Motor Distributors Ltd
Davies’ Cooperative, USA
Data Networks
Diners Club Ltd, Australia
Dulux Australia Ltd
Dulux New Zealand Ltd
Dunham Council
Education Department, Western Australia
Electric Power Transmission, Australia
Empire Oil Australia Ltd
Epi Sugar Corporation
Fletcher Residential Ltd
General Motors Australia
Great Western Laboratories (NZ) Ltd
Great Western Laboratories Pty Ltd
Great Western Laboratories Ltd
Guthrie Bowron & Co. Ltd
Guest & Bell
Hamiton Monarch Insurance
Health Insurance Commission (Australia)
Henry Sacco (Australia)
Hindmarsh Building Society
Home Judiciary Society
Hooker Corporation Ltd
Hospital Benefits Association Ltd
Humphrey Corporation Ltd
ICL Limited (Australia)
ICL Limited (NZ)
ICL Limited (NZ)
Inner London Education Authority
Inernorth Inc. USA
James Hardie Ltd
John Farrel & Sons
John Leaught (Australia) Ltd
John Surveys Pty Ltd
Keesler Company Inc. USA
Kirl Cooperative Stores Ltd
Lane Walker Rudkin Ltd
London Borough of Croydon
London Borough of Islington
Maitland Water Sewerage & Drainage Board
Mansell University
Michigan State Government
M T Wallis & Associates
Mobil Oil Australia Ltd
Mauritius Cooperative Dairy
Moa Wu Dairy Company
New York State Higher Education Authority
NZ Aluminium Smelters Ltd
NZ Apple & Pear Marketing Board
NZ Electricity Division
NZ Industrial Gases Ltd
NZ Kennel Club (Inc)
NZ Meat Producers Board
NZ Motor Corporation Ltd
NZ Nursing Council
NZ Post Office
NZ Yellow Pages
NZ Thoroughbred Breeders
Northern Life Insurance Society
Nottinghamshire County Council
HM Roads Ltd
Norman Ross Stores Pty Ltd
Northern Telecom Corporatebank
Peacock Lumber & Joinery
Pilgrim Electrical Industries NZ Ltd
Pilkington Brog NZ Ltd
Public Works Department of Victoria
Public Service Investment Society
Queensland Independent
Wholesalers Ltd
RACV (Victoria)
Readers Digest (Australia) Services Pty Ltd
Rapco (Australia)
Radio New Zealand
R A Jarden & Company
Revere Bank of New Zealand
Rheno Industrias
Rowan Beechey (Australia)
Rexx Pty Ltd
Reynoldson Holdings (Australia)
Reynoldson Holdings Ltd
Bangals Plains Dairy Company
San Diego County Education Authority
Shell Co (UK) Ltd
Shell Oil NZ Ltd
South British Insurance Company
Spectrum Ltd
Sorrento Holdings Ltd
South Metropolitan Water Sewerage & Drainage Board
South Australia (South Australia)
Supervalue Stores Inc.
Sun Alliance Insurance (Australia)
Swainsey Building Society
Total Stores (Australia)
Governor (Victoria)
State Library (Victoria)
State Electricity Commission (Victoria)
Tramitland Board of Western Australia
Tegal Poultry
Tobin’s Ltd
Turnbull & Jones Ltd
TNL Group Limited
Underwood CA Ltd
University of Canterbury
University of Queensland
University of Sydney
University of Waikato
Victoria Public Works Department
Victoria State Insurance
W&M Ainsworth Ltd
Wellington Hospital Board
Wellington Polytechnic
Westhouse Credit Corporation
Woolwod Hall Planning Authority
Wanganui Metropolitan District Council
Western Beechey Ltd
Wexford Electrical Corporation
Whakatane Valley Authority
Wakatipu University