N20 Consulting

CAPABILITY STATEMENT

Professional services for Defence and Government.

Test and Evaluation, Systems Engineering, Project Management, Specialist Engineering and Data Analytics, delivered by experienced practitioners working within the client's own team.

N20 Consulting Pty Ltd
ABN 29 631 775 623 · Canberra and Melbourne

INTEGRITY · INNOVATION · EXECUTION

ABOUT N20

An Australian-owned professional services company built for Defence work.

N20 Consulting provides professional services to the Department of Defence and other Commonwealth agencies, directly and under the Major Service Provider arrangement, from Canberra and Melbourne.

Our senior engineers are Chartered and hold Master's-level qualifications in systems engineering and test and evaluation, and have extensive experience within Defence project offices, integration centres and industry. Our project managers have engineering backgrounds and are members of the Australian Institute of Project Management.

N20 was established in 2019 and has grown to a team of sixteen engineers, project managers and data analysts. It is led by its directors, Simon Heery and Denis Cassidy, both practising engineers who continue to deliver work on client programs.

We run with minimal overheads, and most of our work comes through repeat engagements and referrals from existing clients.

16
Engineers, project managers and data analysts

2
Offices: Canberra and Melbourne

5
Service lines across the capability life cycle

2019
Established

PANELS AND ACCREDITATIONS

Procurement pathways.

ARRANGEMENT

MSP arrangement (partner)

Capability Acquisition and Sustainment Group, Department of Defence

N20 is engaged as a partner by all four Major Service Providers, KBR, Downer, Amentum and Nova Systems, across several Integrated Work Packages, delivering engineering, T&E and project management to Defence projects.

PANEL

People Panel Phase 3 (PP3)

Department of Finance

Approved supplier of professional contractor services to Defence and other Commonwealth agencies under the whole-of-Australian-Government People Panel.

PANEL

Digital Marketplace Panel 2 (DMP2)

Digital Transformation Agency

Listed on the Digital Marketplace for professional and consulting services, giving Commonwealth agencies a direct route to engage us.

ACCREDITATION

Defence Industry Security Program, Level 2

Department of Defence

Level 2 membership permits N20 to sponsor and maintain security clearances and to handle classified material to the level Defence projects require.

How to engage N20.

Commonwealth agencies can engage us directly through the People Panel or the Digital Marketplace, or through any of the four Major Service Providers under an Integrated Work Package. Engagements range from short independent assessments to sustained embedded roles.

- Embedded engineers and project managers within project offices and integration centres
- Independent technical review, T&E witnessing and assurance
- Discrete deliverables: strategies, plans, procedures, reports and analytics tools
- Subcontract to primes and Major Service Providers

SERVICES

Five service lines, one standard of engineering.

Each service is delivered within Defence engineering, safety and configuration management frameworks, by practitioners who have worked on both sides of the contract.

01

Test and Evaluation

Planning, conducting, witnessing and reporting T&E from developmental and acceptance testing through to operational T&E. Our engineers hold formal T&E qualifications and work to the Defence T&E Competency Framework.

- T&E strategy, Test and Evaluation Master Plans and test concepts
- Developmental, acceptance and operational T&E
- Acceptance test procedures, test witnessing and acceptance reports
- Verification cross-reference matrices and requirements traceability
- Test Readiness Reviews, Test Entry Meetings and Failure Review Boards
- Cyber-worthiness T&E and software release assurance
- Program-level T&E management for system-of-systems environments

02

Systems Engineering

Chartered and Masters-qualified systems engineers supporting acquisition from concept through integration and acceptance, providing independent technical advice to Commonwealth project offices.

- Requirements elicitation, analysis and traceability
- System architecture and interface management
- Review of contractor engineering deliverables and change proposals
- Mandated System Reviews, design reviews and technical risk assessment
- Engineering management and governance within project offices
- Project Execution Strategies and First and Second Pass documentation
- Configuration management and technical baseline control

03

Project, Procurement and Contract Management

Project managers with engineering backgrounds who can challenge a technical estimate, understand why a test has slipped and hold a credible conversation with a contractor's engineering lead.

- Project and program management within Defence project offices
- Governance frameworks, reporting and risk management
- Procurement and acquisition, including Foreign Military Sales
- ASDEFCON contract management and Contract Change Proposals
- Schedule recovery and re-baselining
- Transition to sustainment and introduction into service
- Project support officers and PMO services

04

Specialist Engineering

Software, reliability, certification, integrated logistics support and explosive ordnance expertise where specialist knowledge is required, from short independent assessments to sustained embedded roles.

- Software engineering, software V&V and release assurance
- Reliability engineering, failure analysis and defect investigation
- Technical certification and engineering assurance evidence
- Integrated Logistics Support engineering and configuration management
- Explosive ordnance T&E planning and certification
- Simulation and training systems acquisition
- Mechanical, electrical, electro-optic and sensor systems advice

05

Data Analytics and Business Intelligence

Data pipelines, analysis methods and dashboards that turn operational, logistics and business data into information decision-makers act on, built in Power BI, Tableau or Excel to run on the client's network, including Defence protected networks. Our work has supported reporting to senior Defence committees and to Parliament.

- Data capture methodologies and quality management
- Power BI, Tableau and Excel dashboards built for Defence networks
- Executive and parliamentary reporting tools
- Process analysis and bottleneck identification
- Workforce modelling and performance metrics
- Extract, transform and load of logistics and operational data
- Business intelligence for regulators and program offices

EXPERIENCE

Selected programs.

PROGRAM, DOMAIN AND SERVICES	N20 CONTRIBUTION
LAND 400 Phase 2 Boxer Combat Reconnaissance Vehicle **LAND · T&E, Systems Engineering, Specialist Engineering**	Verification and validation from acceptance testing to fleet introduction; systems engineering for Remote Weapon Station integration; embedded in-service engineering and configuration control.
LAND 907 Phase 2 M1A2 SEPv3 Abrams **LAND · Project Management**	Senior project management of the Foreign Military Sales acquisition through to Initial Operational Capability; contract management of the Immersive Tactical Trainer simulation system.
LAND 8160 Phase 1 Combat Engineering Vehicles **LAND · Project Management**	Project, commercial and business management leadership within the program office through delivery and transition to sustainment.
Land Network Integration Centre Army tactical network **LAND · T&E, Specialist Engineering**	Program Test and Evaluation Manager: test strategy aligned to the Land T&E Strategy, cyber-worthiness T&E and software release assurance across a system-of-systems environment.
LAND 125 Phase 4 Soldier Combat Ensemble **LAND · Project Management**	Project recovery from seven months behind schedule to six months ahead, within budget; restructured Deed of Standing Offer change process, raising product transitions fourfold.
Joint Force Interoperability and Assurance Assurance methodology and toolset **JOINT · T&E, Data Analytics**	Data-centric methodology and toolset measuring interoperability across major multinational exercises, reported to the Joint Warfare Council; team awarded a Vice Chief of the Defence Force Gold Commendation.
Reconfigurable Driver Simulator Armoured vehicle driver training **LAND · Project Management, Specialist Engineering**	Full-time project manager from acceptance testing, configuration audits and ICT accreditation to pilot courses; delivered on schedule and budget with an Australian industry partner.
LAND 400 Phase 3 Infantry Fighting Vehicle **LAND · T&E, Project Management**	Scope development and Statement of Work for simulation training systems; technical authority sign-off on T&E artefacts during tender evaluation.
LAND 8116 Protected Mobile Fires **LAND · Specialist Engineering, T&E**	Senior software engineer coordinating software V&V, test witnessing and integration for the digital fires system.
Land C4 Program Communications and digital fires **LAND · T&E**	Test and Evaluation Manager coordinating project and tranche-level T&E across Defence, the Australian Signals Directorate and international partners.
JP 9347 Phase 1 Joint Data Network **JOINT · T&E**	Test engineering: Test and Evaluation Master Plan input, detailed test plans, test event coordination and requirements analysis.
AIR 6500 Phase 2 Joint air battle management **AIR · Project Management, Systems Engineering**	Project manager through Gate 0, co-authoring the Project Execution Strategy; systems engineering for requirements and architecture analysis.
Maritime Explosive Ordnance Maritime strike weapons **MARITIME · T&E, Specialist Engineering**	Test and Evaluation Manager for Second Pass: T&E Master Plan, V&V Accreditation Plan, risk reduction concepts and readiness reviews.
Defence Export Controls Regulator business intelligence **GOVERNMENT · Data Analytics**	DEC Insights, data health, assessor and workforce dashboards in Power BI and Tableau, used to respond to Senate inquiries and still in daily use.
Maritime Systems Division Additive manufacturing **MARITIME · Data Analytics**	Navy logistics data pipeline and business rules ranking stock items for additive manufacturing, with an interactive Power BI dashboard for planners; delivered as subcontractor to Synergy.
Maritime Response Capability Department of Home Affairs **GOVERNMENT · Systems Engineering, T&E**	Senior systems engineer authoring T&E concepts for First Pass, risk reduction concepts for Second Pass and the Operational Concept Document.

COMPANY
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INSURANCE
Professional indemnity $20 million
Public liability $20 million
Workers compensation

LICENCES AND QUALITY
Labour hire licences held
Quality management system aligned to AS/NZS ISO 9001

SECURITY
DISP member, Level 2
Staff hold current security clearances

Discuss a requirement with N20.

Enquiries go directly to the directors. Case studies, referees and panel details are available on request.

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