
D+I™
Part of
Capgemini
GLOBAL DESIGN + ENGINEERING EXCELLENCE

COMPLETE PRODUCT DEVELOPMENT FROM CONCEPT INTO PRODUCTION

INDUSTRIAL DESIGN + MECHANICAL ENGINEERING + ELECTRONICS DESIGN

Capgemini engineering × D+I™ Part of Capgemini

NEWS UPDATE

The past year has brought positive change, the team has grown, and we've expanded into new core capabilities to compliment our proven product design & engineering services — D+I has joined Capgemini Engineering.

We now bring together the perfect balance of — D+I's proven physical product design and engineering expertise *with* Capgemini's trusted digital technology engineering services to deliver the end-to-end development of the new products, services, and operations of tomorrow.

We are now able to leverage deep global technical expertise and advanced R&D capabilities—Product Design and Systems Engineering, Digital and Software + Industrial and Manufacturing Operations.

About *Us*

#1

In ER&D market for +30 YEARS

62,000

Engineers & scientists

30+

Countries

The Engineering & Business Partner to the world's leading companies

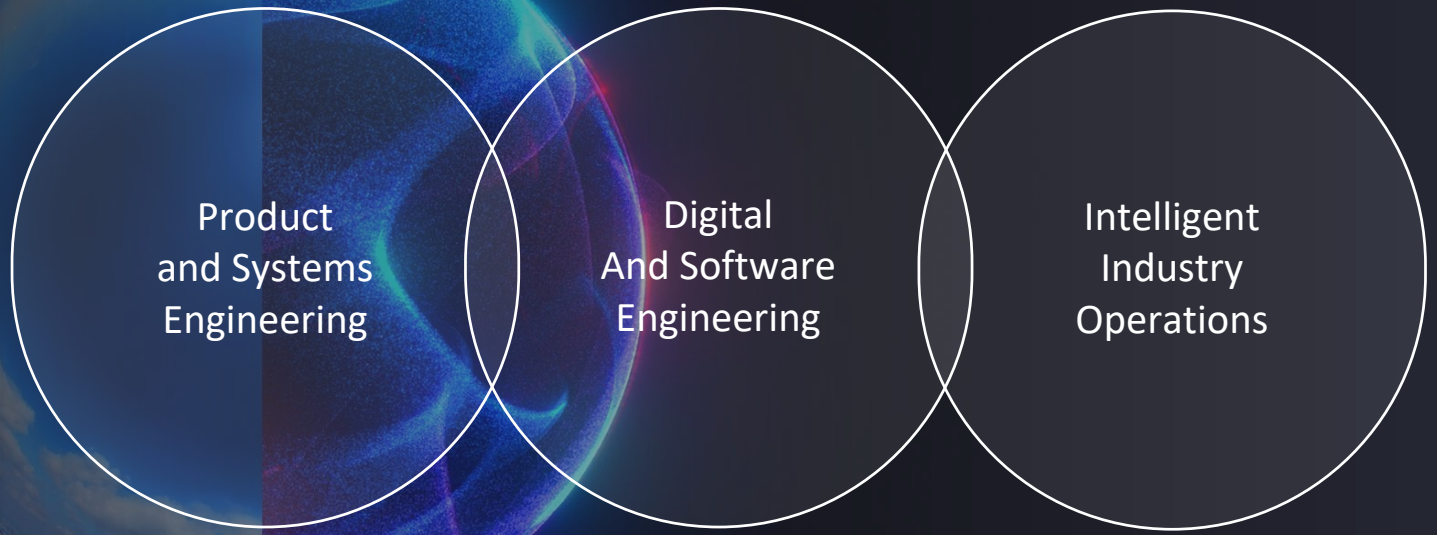
Since 1967, we've been firmly rooted in both physical and digital engineering. We've seen both worlds evolve together and in parallel. This heritage helps us look forward, identifying the opportunities in the overlaps.

Our team of over 62,000 engineers and scientists stands ready to work alongside you, taking these ideas through to realization. With engineering centers and Innovation Labs in every region, we take your business wherever it needs to grow.

Coupled with the capabilities of the rest of the Group, it helps clients to accelerate their journey towards Intelligent Industry.

Digital, *Meet* Physical.

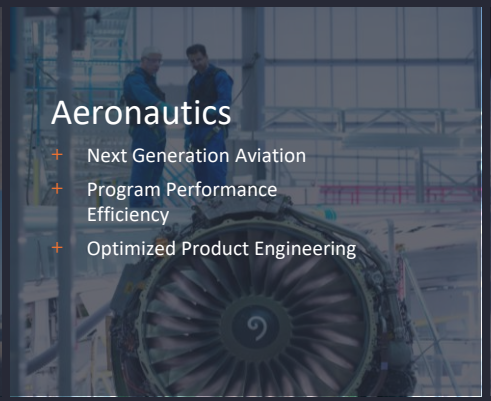
Capgemini engineering × D+I™ Part of Capgemini



SERVICE PORTFOLIO GROUNDED IN DOMAIN KNOWLEDGE

Automotive

- Driving Assistance
- Mobility Experience
- Sustainable Mobility
- Optimized Product Engineering

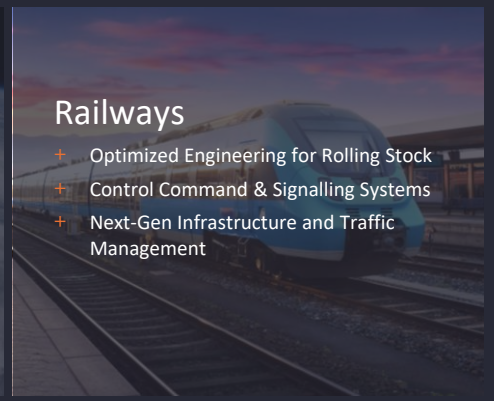


Aeronautics

- Next Generation Aviation
- Program Performance Efficiency
- Optimized Product Engineering

Space, Defence, Naval

- Future-ready Complex Systems
- Optimized & Secure Engineering Transformation



Railways

- Optimized Engineering for Rolling Stock
- Control Command & Signalling Systems
- Next-Gen Infrastructure and Traffic Management

Energy & Utilities

- Sustainable Energy: Engineering & Operations
- Smart Infrastructure: Engineering & Operations for Utilities
- Optimized Engineering & Operations for Energy

Life Sciences & Healthcare

- Intelligent Product Design + Engineering
- Agile Compliance

Consumer Products, Retail & Industrials

- Optimized Product & System Engineering
- Design: Usability, Operability, Aesthetic, Manufacturability

Telecommunications & Media

- Advanced Networks (incl. 5G & Edge)
- Optimized Engineering for Communication Technologies

Semiconductors & Electronics

- Silicon & Hardware Platform Engineering
- Embedded System & Product Engineering
- Intelligent Products

Technology

- New Product Design + Engineering
- Simulation / Digital Twins / Immersion
- Data & Analytics / Automation M.L. / Gen AI
- Cloud: AWS / Google / Microsoft
- Quantum Computing

Digital & Software Engineering

Sustainable Engineering & Operations

ISO CERTIFIED

TÜV SÜD Certified Quality Management Systems

ISO 13485:2016 Certified — For the compliant development of medical products.
Australian Federal Government — Registered Research Service Provider No. 13279

ADVANCELL

The World's First Alpha Isotope Generator

AdvanCell is an Australian clinical stage radiopharmaceutical company with a platform technology for a revolutionary cancer treatment called Targeted Alpha Therapy.

AdvanCell's Generator is a world-first alpha isotope generator which addresses the greatest unmet need in targeted alpha therapy – the reliable and scalable supply of isotope. A focus on quality, reliability and traceability and a goal of a GMP product will provide clinicians with access to mission critical medicines when needed, and not only if and when available.

The manufacture of clinical doses of a high-value isotope Alpha 212® (Lead-212) for use in targeted radionuclides therapy is a game-changer for prostate and several other cancer treatments.

+ VISIT WEBSITE

Research, Concept, Development, Electronics + Production

ZETA USA

Precision Neuro-Surgical Navigation Platform

STARTUP

A major obstacle to improving point-of-care neurosurgical procedure accuracy with image guidance technologies is the lack of a rapidly deployable, real-time registration & tracking system for a moving patient.

The Zeta platform leverages cutting-edge computer vision and artificial intelligence to enable surgeons to operate with precision at the point-of-care. Zeta is powered by a proprietary 3-layer neuronavigational software that utilises on-board 3D cameras to track a patient and surgical tools in real-time. This real-time data is calibrated dynamically with sub-millimetre accuracy against pre-operative data obtained from a patient CT/MRI scan.

Zeta is a novel one-cart solution with a small footprint designed specifically for rapid deployment and simple setup. The system is enhancing the effeciency + effectiveness of surgical interventions within the constrained spaces of Emergency Rooms (ER)/Intensive Care Units (ICU) in trauma cases such as External Ventricular Drain (EVD) placement.

PRODUCT DESIGNER OF THE YEAR

PRODUCT DESIGN AWARD

+ VISIT WEBSITE

ISO 13485:2016 Research, Concept, Development + Production

HONELAB

Improving yield with instant on-the-farm grain analysis

STARTUP

The Hone Lab analyser is a powerful field spectrometer for the measurement of grain quality on-farm in real-time. Hone Lab eliminates the currently slow and inconvenient processes of agricultural material testing - physically posting samples to labs and waiting 2-3 weeks for results. Hone improves the process for growers to improve the quality of yield and empowers those throughout the commodity supply chain to test and verify the quality of inputs each time materials change hands.

The device is powered by proprietary machine learning 'Sample Analysis' algorithms, rigorous testing has validated the accuracy of Hone's spectrometry technology to capture key sample data points in-the-field, with accurate results comparable to that of off-site lab testing. The device captures approximately 1,000 data-points per sample material scan, and links this data to Hone's proprietary machine learning material sample databases, there is no comparable product in the market.

+ VISIT WEBSITE

Research, Concept + Development

LAVO HYDROGEN

World's First Integrated Hybrid Hydrogen Battery

STARTUP

LAVO™ acts as a solar sponge, integrating with rooftop solar to capture and store renewable energy for use when you need it. The LAVO system relies on the production of green hydrogen, generated through the process of electrolysis, which splits water into oxygen and hydrogen. The resulting green hydrogen is securely stored in LAVO's patented low-pressure metal hydride storage vessels, providing a carbon-neutral and long-duration energy source. When needed, the stored hydrogen is converted back into electricity, ensuring a continuous supply of renewable energy for residential and commercial properties. This conversion is facilitated by a fuel cell inside the system, which also houses a lithium-ion battery and a water purifier, allowing the system to operate on tap water.

Developed in partnership with UNSW and D+I, LAVO™ stores over 40kWh of electricity – enough to power the average Australian home for 2 days.

+ VISIT WEBSITE

Research, Concept, UI/UX, Development + Production

HYPHAMESH CAP

Mission Critical Communications Networking Solutions

The HyphaMESH CAP (Communications Access Point) is a portable handheld device designed to maintain critical communication channels in areas with regular communication blackspots. It is essential for teams operating in demanding environments, such as emergency and disaster relief services, rescue operations, and mining applications, where reliable network connections are crucial for safety.

Key design challenges included ensuring portability, ruggedness, and dependability, even in harsh conditions. The device is IP67-rated for water and dust protection and drop-resistant, making it suitable for rigorous use. A vibrant TPE overmold enhances user grip and identifies key touchpoints, while a single on/off power button and status LEDs provide straightforward operation. The device also features accessory attachment points for easy stowing and portability, accommodating both clipping and tether options.

The design includes a hot-swap battery system, allowing continuous 12-hour operation without network disruption during battery changes. The hot-swap battery system is easy to operate, even with heavy gloves, and supports uninterrupted network connectivity.

+ VISIT WEBSITE

Research, Concept, Development, Electronics, Production + Packaging

KALLIPR

Rugged Remote Monitoring and Measurement for Harsh Conditions

The Captis S2 Pulse is a durable remote monitoring device designed for long operational life, ideal for utilities and critical infrastructure sectors in extreme conditions. It features a field-replaceable battery system with a minimum 10-year life, allowing quick in-field swaps in under 30 seconds. Traditional devices often struggle with durability, battery life, and maintenance, especially in sectors like water utilities, mining, and agriculture.

The Captis S2 Pulse's military-grade ruggedness, heavy-duty plastics, and IP68 rating enable it to function reliably in extreme temperatures and humidity. It offers dual SIM and eSIM technology for continuous connectivity, advanced edge and AI on-device data processing to reduce cloud dependencies, and top-tier security features. Automated sensor recognition through Kallipr's Smart Sensor Cable technology simplifies setup and ensures error-free configuration.

This device serves a wide range of applications, including water metering, sewer level monitoring, water quality/pressure management, flood monitoring, object positioning, temperature monitoring, and soil moisture monitoring. Its robust design supports reliable, long-term performance, enhancing sustainability and operational efficiency in demanding environments.

+ VISIT WEBSITE

Concept, Development + Production

ACHERON

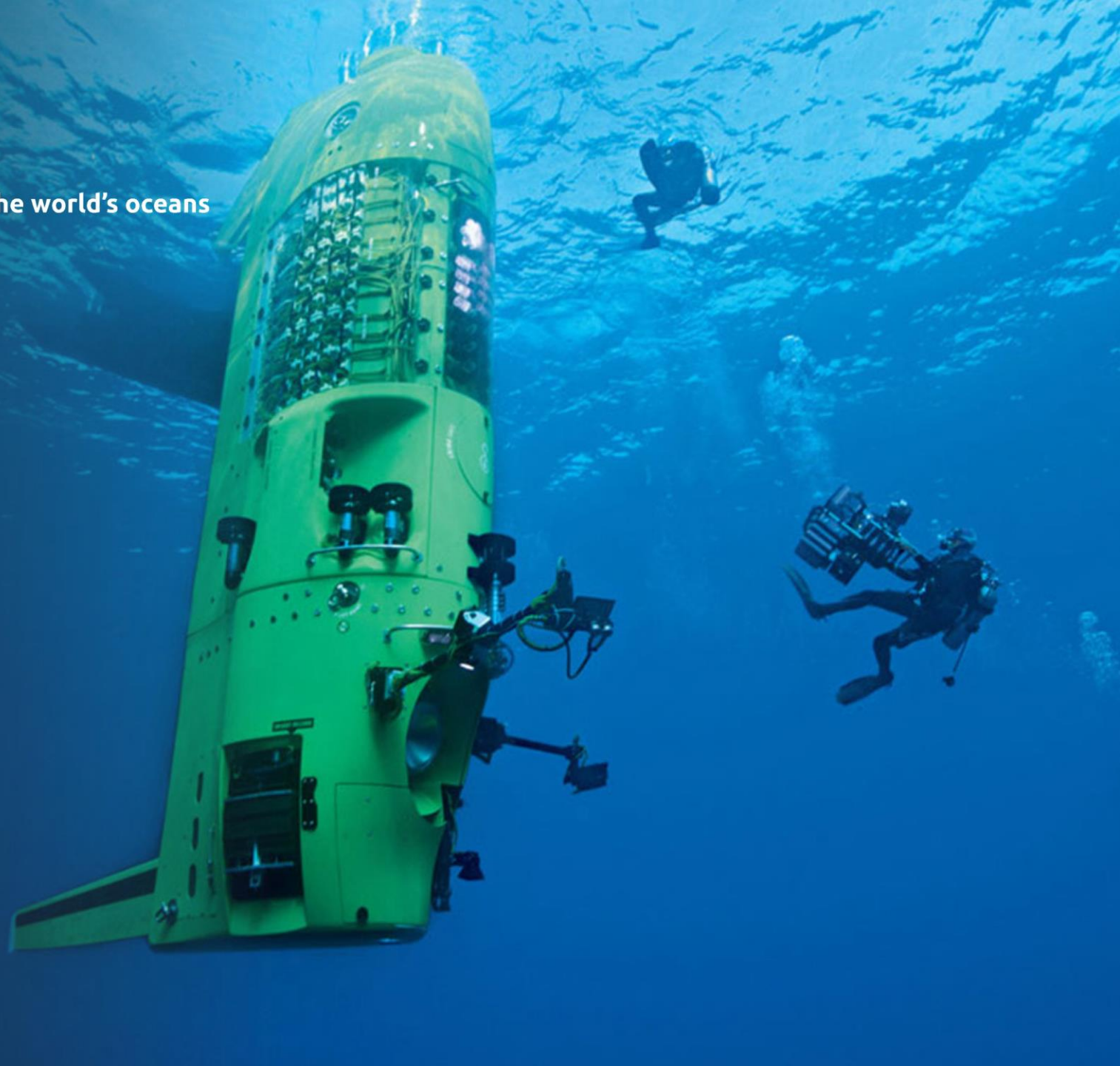
Sub Pilot Sphere: A record dive to the deepest point in the world's oceans

Submarine Pilot Sphere: The Deepsea Challenger submersible sent director James Cameron to the bottom of the Mariana Trench, the deepest point in the world's oceans. D+I were selected by James Cameron and Ron Allum as the Australian industrial design team responsible for developing the cockpit layout for the Deepsea Challenger's record dive. At tremendous depths with extreme pressure involved, the success of the project hinged on our ability to minimise risk and keep the pilot safe and able to drive the sub.

No room for error: We worked with pilots, oceanographers and medical specialists to understand and anticipate risks, incorporate human behaviour variables and overcome significant engineering challenges. Complex variables and constraints — a fire means the pilot can't breathe or see, too much weight would compromise the sub's buoyancy, any moisture build-up could cause critical systems to fail, and excessive fatigue or discomfort would affect the pilot's ability to control the dive.

+ VISIT WEBSITE

Research, Concept, Development + Production

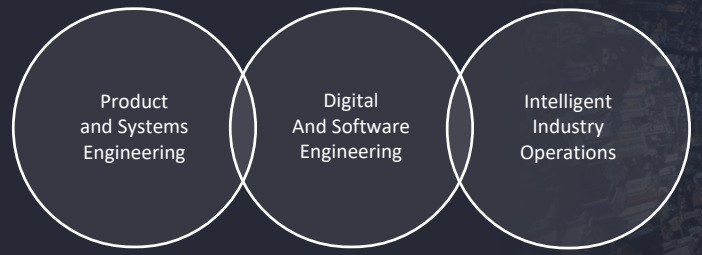


Capgemini engineering

We’re here to help

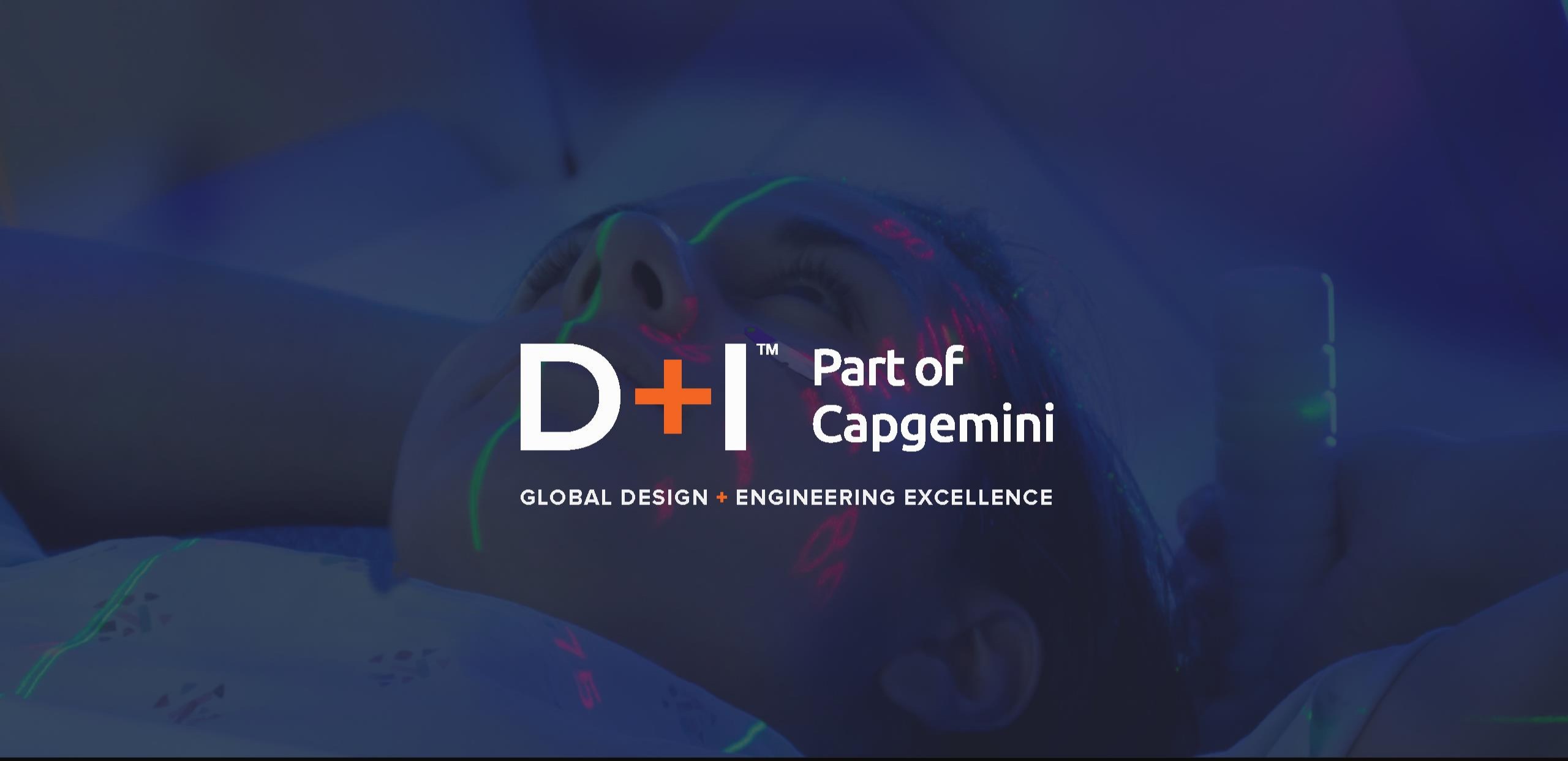
In the Cloud & On the Ground: End-to-End Engineering Services Delivery — Concept to Implementation to Deployment

Whether you’re developing a new product, enhancing an existing one,
or working to translate a technical research discovery into a commercialised solution, let’s talk.



No opportunity or challenge is too big or small — Here's to your growth in 2025.

Mitchell Bright
D+I Part of Capgemini
E: mitchell.bright@design-industry.com.au



MELBOURNE
16 Palmer Parade, Cremorne VIC 3121
Phone: + 61 3 9032 2999

SYDNEY
34 James Craig Road, Glebe Island NSW 2039
Phone: + 61 2 9555 1166

NEWCASTLE
24 Portside Cres. Newcastle NSW 2293
Phone: + 61 2 4998 7760