

Design a better future, together with GHD Digital

A start-up business inside the legacy multinational of GHD, GHD Digital is one of the fastest growing digital businesses in professional services.

We help clients across the water, energy and urbanisation industries to digitise work practices and assets to transform their business, embrace the future and change communities for good.

→ The Power of Commitment





About us

We are living in a time of change. The Fourth Industrial Revolution is blurring the boundaries of the physical, digital and biological worlds, changing the way we live and work. Technology is accelerating and transforming everything around us. In addition, our industry is rapidly changing. Digital tools, technologies and strategies are at the heart of these changes. Many organisations are unsure how to deal with the emerging disruptors and look for trusted advisors to help them on their journey to a successful digital transformation.

To this end, GHD established a digital business, GHD Digital, with the belief that innovation and change will help clients and communities 'transform for good'.

With a geographic footprint spanning across Australia, APAC, North America, the UK and the Middle East, we draw upon the expertise of GHD's 11,000 people to help organisations across the water, energy and urbanisation industries to digitise work practices and assets. In close collaboration with GHD, GHD Advisory and global partners, we provide a holistic, comprehensive service through value-add integration.

Since our launch in 2018, we have grown and scaled the business substantially. Our global team of design thinkers, innovators, data scientists, strategists and storytellers think outside the box to help you reinvent the way your organisation operates.

600+

employees globally

60+

global capabilities including:



- Advanced Analytics
- Artificial Intelligence
- Applied Innovation and Design Thinking
- Cybersecurity
- Immersive Digital Solutions
- Connected Sites
- Digital Twin
- Digital Citizen Experience

“I have the privilege of leading a global team of highly talented digital professionals, backed by a global organisation with more than 90 years of engineering experience. By combining that deep engineering expertise and industry knowledge with digital technologies, we can reimagine and create a new future.”

– Kumar Parakala, President, GHD Digital



Client solutions

With a reputation for understanding evolving market challenges and our clients' changing needs, we offer a suite of over 60 carefully curated capabilities to help clients reimagine their future.

Our complete offering builds business value – from advanced analytics and artificial intelligence, to applied innovation, cybersecurity and advanced visualisation.

We strive for excellence in configuration, serviceability, flexibility, and reliability, making us the benchmark for digital solutions in professional services.

Advanced analytics

Helping organisations turn data into valuable actionable insights, our team of data analysts, data engineers, data scientists, data strategists and cloud engineers, deliver end-to-end solutions including managed data and analytics platforms. Unlock the hidden value from your assets to enable better decision-making and drive performance.

How we make it real:

Reducing operating costs through advanced analytics

By performing a data analytics and hydraulics study, we helped a pipeline operator located in North America uncover improvement opportunities to increase pipeline flow and reduce overall operating costs.

1M

cost savings
annually

46%

reduction in
operating costs

40%

increase in
throughput



Artificial intelligence

Open another dimension of insight with tailored technology that is continually learning. We help you aggregate more data to elevate accuracy and unlock capabilities. Our model analyses historical data to understand patterns to significantly enhance your workflow by predicting and enabling quicker response times.

How we make it real:

Artificial Intelligence improves employee retention

By using Artificial Intelligence techniques, expected flight risks within an Australian government organisation were predicted with 93% accuracy, allowing management to develop a strategic retention plan.

Companies spend 1,000+ hours of time and effort trying to reach out to every employee; We reduced the effort to survey the employee pool by 95%+.

Applied innovation and design thinking

We work with you to creatively solve complex business problems and successfully implement innovative solutions by employing a suite of methods, mindsets and skillsets. Our design thinking approach heightened organisational understanding of customers and resulted in a series of strategic initiatives that are currently being piloted.

How we make it real:

Over 600,000 customers benefit from a design thinking approach

A state-owned corporation in Australia wanted to look at the challenge of wastewater overflow through an innovative human lens. Our design thinking tools nurtured an innovation-lead culture and heightened organisational understanding of customers.

80+
participants

15+
interviews with
customers &
stakeholders

75+
ideas
generated

5
prioritised
solutions



Cybersecurity

We deliver end-to-end solutions that can assess cyber readiness, protect critical assets, and provide ongoing management of security controls. By leveraging our specialised skills and an ecosystem of partners, we have built a reputation for cybersecurity excellence across critical infrastructure.

How we make it real:

Improving cyber resilience to avoid water disruption

We assisted a water utility in Australia to design and implement cybersecurity controls that improve the cyber resilience of their industrial automation and control systems.

“GHD Digital understood our unique requirements and were able to deliver a high-quality solution without delay during the challenging times presented by the pandemic.” - Head of Cybersecurity, Confidential client

Immersive digital solutions

We help you understand complex data simply and completely by using a range of visualisation solutions including traditional media, and emerging technologies like virtual and augmented reality to immerse you in environments, design and data. We build, deploy and support immersive digital solutions to improve communication, enhance efficiency, drive performance, reduce rework, support collaboration and enable engagement.

How we make it real:

Enhancing the understanding of groundwater contaminant flow through 3D data models

We collected data for our agricultural client in North America and merged it with vast historical boring log information. The 3D models proved to be a time saver for the project team, as the data was developed and manipulated quickly, and the current site conditions were immediately communicated to all stakeholders.



Connected sites

Supported by a rapidly deployed wireless network of sensors coupled with real-time analytics, we provide virtual oversight of people, assets and work, across multiple locations and multiple projects. With smart technology delivering data to the Connected Site, real-time insights enhance operational performance, improve safety and reduce operating costs.

How we make it real:

Using instant intelligent insights to revolutionise major infrastructure construction

Victoria's largest rail project required Connected Sites to deploy and test technologies that improve transparency and awareness of real-time information at construction sites. This was an Australian first incubator demonstrating the value of digital disruption to the 4000-strong delivery partners and wider construction industry.

Digital twin

From simple assets to complex infrastructure networks, our customised Digital Twin technology breaks the barriers by bridging the virtual and physical worlds across the entire asset lifecycle from conception to retirement. Our tailored approach allows you to solve physical issues faster by detecting them sooner, predict outcomes to a higher degree of precision, optimise performance and ultimately increase business value.

How we make it real:

Bridging communities using Digital Twins

The deployment of a Digital Twin enabled two New Zealand Councils to facilitate the design process and provide a visual representation of the finished project for stakeholder engagement and public consultation. This resulted in clearer communication with the wider community, increasing public interest and support for the project



Digital citizen experience

We help organisations establish prolonged trust and authenticity through nurtured and authentic communications. Deep understanding of how users navigate the digital space has allowed us to develop a tailored suite of digital tools and services which improve citizen engagement, connect communities and deliver government services more efficiently.

How we make it real:

Digitising procurement for a Provincial Urban Growth Centre

We worked closely with a large government agency that provides co-operative purchasing for their clients in North America. Our client used the bids&tenders eProcurement system to completely digitise their paper-based procurement process. As a result, we created a true end-to-end system for their procurement team, and ultimately improved efficiency for their 50,000 public sector clients.

99.6%
bid compliancy

\$20K
annual administration
cost savings

0
late bid
submissions



From transforming company culture to delivering real-time actionable insights, GHD Digital has the collective skills to help drive companies forward in the digital age.

Leveraging the strength of our global network, we can help you, wherever you are in the world, transform for good.

ghd.com/digital