ARCADIS IN SINGAPORE
Creating sustainable client outcomes throughout the lifecycle of natural and built assets
AN 80+ YEAR HISTORY OF DELIVERING EXCEPTIONAL AND SUSTAINABLE OUTCOMES IN ASIA

70+ OFFICES ACROSS ASIA

300+ OFFICES WORLDWIDE

6,000 STAFF IN ASIA

27,000 OFFICES WORLDWIDE

13 COUNTRIES ACROSS ASIA

70 COUNTRIES WORLDWIDE

$3.8 BILLION IN REVENUES

WE PARTNER WITH LEADING ORGANIZATIONS TO TRANSFORM THEIR BUSINESS PERFORMANCE BY PLANNING, CREATING, OPERATING AND REGENERATING THEIR NATURAL AND BUILT ASSETS.
Our passion is to improve quality of life and be recognized by our valued clients, shareholders, colleagues and partners, as the best organization of our type in the world today.

WHO WE ARE

From climate change and rising sea levels, to rapid urbanization and pressure on natural resources, Singapore has some of the most complex environments in which to operate. Leveraging large global capabilities and experience, Arcadis navigates these complexities by understanding the bigger picture. Whether it’s focusing on how to deliver against the Smart Nation Vision, supporting the city’s car-lite vision or simply taking what you do further, we deliver exceptional and sustainable outcomes safely and consistently.

Singapore has a range of critical market challenges including water management, urbanization, land scarcity and high cost of construction. This means our clients need a partner they can trust, and with Arcadis, they access over 80 years’ experience working on some of the most iconic projects supporting organizations such as the government, local authorities and developers reach the best possible solutions.

Our consultancy brings together world-class architecture, urban planning, business advisory, detailed engineering design, project, program and cost management solutions for a wide range of assets, from commercial properties to hospitals, schools, government buildings and industrial facilities. These services can be delivered on their own, or as part of an integrated solution.

We create a balance of form, functionality and environmental stewardship. Connecting your vision to our know-how, our people work collaboratively to create value through natural and built assets that work in harmony with their surroundings – from projects like Jewel Changi Airport and Gardens by the Bay, to the Deep Tunnel Sewerage System and Tampines Hub.
Arcadis is the leading global design and consultancy firm for natural and built assets. Applying our deep market-sector insights and collective design, consultancy, engineering, project and management services, we work in partnership with our clients to create exceptional and sustainable outcomes throughout the lifecycle of their natural and built assets. Our 27,000 leading experts are experienced in delivering solutions to our clients across the whole lifecycle of their natural and built assets, whatever their sector, industry or location.

The natural and built environments surround us every day; they both shape and define the world we live in. Thinking of the components of the natural and built world as ‘assets’ or resources helps us define and consider how these can be optimized, maximized or protected to ensure they continue to deliver value for years to come. Natural assets include water, natural energy, minerals, air and land, while built assets define ‘man made’ resources that we use to improve our quality of life every day, from transportation infrastructure to buildings, public green spaces and so on.
At Arcadis Singapore, we work alongside our clients to create the right strategy, manage risk, provide cost planning and commercial management advice. We strive to deliver outcomes that create exceptional value and meet our clients’ business objectives.

**OUR CORE SERVICES**

Clients operating in natural and built environments today must tackle a growing number of complex issues. As a business, our focus is on helping clients to address these challenges by creating solutions based on a blend of services.

Whether it’s developing an initial strategy, providing cost assurance on a major programme of work, managing a portfolio of business-critical assets or cleaning up contaminated environments, we can call on world-class service expertise during all phases of the lifecycle of a project.

At Arcadis, service excellence and an acute focus on clients is at the heart of our business – we pride ourselves on providing clients with access to the very best professionals across all the fields we work in.

**CORE SERVICES:**

**Cost Management**
Arcadis’ experts provide cost planning and commercial management advice that ensure value for money and that projects come in on budget.

**Design and Engineering**
From concept design and pre-feasibility development, through to detailed design and construction support, we strive to achieve optimum outcomes for our clients.

**Business Advisory**
We work with our clients to develop propositions that add greater insight and drive value for projects, programmes and organisations.

**Project and Programme Management**
Assuring delivery of planned business benefits and outcomes for clients by developing delivery strategies and managing programmes, projects and construction safely, to time, cost and quality budget.

**Environmental Solutions**
Helping our clients mitigate environmental risks into their business decision-making giving them certainty towards a sustainable future.
Capitaspring is a 51-storey integrated development that encapsulates a lush 4-storey green oasis, and harnesses smart technologies to empower occupants with new levels of flexibility and mobility.

At Arcadis, we delivered quantity surveying services where procurement and contract strategies were implemented simultaneously to complement the client’s requirements.

This development is an iconic project and therefore, bold and best-in-class designs were adopted. This led to a challenge in ensuring that the designs were budget achievable. Through cost management expertise and value engineering workshops, we were able to tightly control the budget and deliver to expectations.
We have an unparalleled track record when it comes to managing the costs of construction within real estate and infrastructure sectors. Our expertise spans the full lifecycle of projects from inception, delivery, through to final handover of a completed project.

**COST MANAGEMENT**

We work alongside you to make the best decisions, from the initial design to ongoing asset management. As one of the world’s largest cost management companies, we know that it is vital to understand our clients’ needs, so that we can deliver best in class cost solutions that are backed up by relevant data and analytics.

**OUR CORE COST MANAGEMENT TEAM SERVICES INCLUDE:**

- Initial budget estimating to assess the feasibility of design proposals
- Comparative cost advice on alternative designs, materials, systems and methods
- Detailed cost planning and monitoring to ensure that designs are developed within the approved budget
- Value engineering of design options to maximize value for money
- Advice on appropriate contract packaging, tendering procedures and procurement options
- Management of the selected procurement route
- Tender documentation and management to select a suitable contractor(s)
- Financial post contract management including progress payment valuations, variation cost management, cost reporting, and finalization of accounts
JEWEL CHANGI AIRPORT

Jewel is a joint venture development between Changi Airport Group and CapitaLand. It features a wide array of offerings, such as gardens and attractions, retail and dining options, a hotel and facilities for airport operations.

Arcadis is proud to be the Quantity Surveyor that delivered cost management expertise for this new iconic addition to Changi Airport.

Using a work breakdown structure approach to its cost model, we delivered reliable cost advice enabling the timely delivery of the project within budget.

134,000 square meters total gross floor area
280 retail and dining options
40m world’s tallest indoor waterfall - the HSBC Rain Vortex
4-storey high Shiseido Forest Valley
Arcadis creation of a strategic cost model helped drive efficiencies during the construction of Jewel.
OUR PROJECT EXPERIENCE ACROSS SECTORS

Aviation
- Changi Airport Terminal 1
- Changi Airport Terminal 2
- Changi Airport Terminal 4

Automotive
- Performance Motors and Vantage Automotive at Alexandra Road
- BlueSG Charging Stations

Commercial
- Chevron House
- CapitaGreen
- CapitaSpring
- The Star
- TripleOne Somerset
- Robinson Tower
- SBF Centre
- Robinson Square
- Oxley Tower

Fitting Out
- Salesforce Singapore
- Bank of Tokyo
- Shaw House & Shaw Centre
- Shaw Plaza, Balestier Road
- ExxonMobil New Office Space
- Lazada / Alibaba Office Fit Out
- HSBC
- Lloyds

Healthcare
- Woodlands Health Campus
- NUHS Centre of Oral Health / Service Block
- Integrated Care Hub
- Outram Community Hospital
- National Skin Centre Expansion
- New HSA Building
- National Cancer Centre
- NUH Medical Centre
- National Heart Centre
- Mount Elizabeth Novena Hospital and Mount Elizabeth Novena Specialist Centre

Hospitality
- JW Marriott Singapore
- Genting Hotel Jurong
- W Singapore Sentosa Cove Hotel
- Holiday Inn Express Singapore Orchard Road
- Studio M Hotel
- Capella Hotel
- Crowne Plaza Hotel
- Conrad International
- Merchant Court Swissotel
- Raffles Hotel
- Artyzen Hotel Singapore

Infrastructure
- Deep Tunnel Sewerage System
- Development of Changi East to Effect 3 Runway Operations at Singapore Changi Airport - Ayer Merbau Phase 2 Land Reclamation
- Tuas Terminal Phase 2
- JTC Infrastructure Projects
- JTC Proposed Earthworks and Rock Excavation at Gali Batu
- Keppel Bay Development - Link Bridge
- Singapore Marina Bayfront Bridge
- The Jubilee Bridge
- Shell

Institutional
- Singapore Institute of Technology (SIT) Punggol North Campus
- NUS Deepwater Ocean Basin
- Singapore Sports School
- Singapore Institute of Technology (SIT) Building in Singapore Polytechnic
- New ITE College Central and ITE Headquarters at Ang Mo Kio
- Republic Polytechnic
- Singapore Management University
- Ngee Ann Polytechnic
- Zero Energy Building
- The Singapore Buddhist Lodge
- Asian Civilisation Museum A&A

Mixed Development
- Funan
- Marina One
- Jewel Changi Airport
- Technical and Environmental Due Diligence for DUO Tower (Business Advisory)
- Technical and Environmental Due Diligence for DUO Galleria (Business Advisory)
- Capitol Singapore
IMPROVING QUALITY OF LIFE

- Tanjong Pagar Centre
- South Beach Mixed Development
- Marina Bay Financial Centre
- St. Regis Hotel and St. Regis Residences
- ION Orchard and Orchard Residential
- Ang Mo Kio Hub

Ports
- Marina Bay Cruise Centre Singapore
- Wet Berth (Phase 2) to Marina at Keppel Bay

Rail
- Dover MRT
- Expo MRT

Residential
- The Stirling
- The Brownstone
- Mayfair Gardens
- The Interlace
- D’Leedon
- Reflection
- Marina Bay Residences
- The Sail
- Housing Development Board BTO

Retail
- The Seletar Mall
- Quayside Isle
- Nex
- JCube
- City Square Mall
- Bugis+
- VivoCity
- POMO Mall AEI

Sports & Leisure
- Punggol Sports & Recreation Centre
- Our Tampines Hub
- Sembawang Community Hub
- Downtown East
- Heartbeat @ Bedok
- Resorts World
- Gardens by the Bay
- *Scape
- Marina Bay Golf Course
As part of the latest land expansion to Jurong Island, JTC Corporation was looking to reclaim 35 hectares of land at Ayer Merbau. Arcadis was appointed to provide Project Management, Construction Management, Employer’s Representative and Contract Management & Administration services.

Home to 100 leading global petroleum, petrochemical and specialty chemical companies situated there, the works for this reclamation project include marine dredging, sand mining, shore protection, land reclamation and soil improvement. It also involves rock sorting and construction of Merbau Channels to cater for the conveyance of process water and storm water.

Building on Arcadis’ core strengths in Engineering, Reclamation, Contract & Cost Management, our team has achieved timely delivery of the project while adhering to environmental monitoring, management of the programme and workplace safety standards.

Developed a strategy for timely delivery and management of the project while adhering to environmental monitoring, programme management and workplace safety standards.

**AYER MERBAU PHASE 2 RECLAMATION**

4 million cubic metres of land-based and marine dredged materials excavated

1 million cubic metres of recycled rocks for shore protection
At Arcadis, our Project & Programme Management team aim to help our clients fulfil their business objectives by ensuring successful project outcomes. Delivering a construction and development project is a huge endeavour and we are there every step of the way to minimize project risks and maximize the value and benefits that the projects bring to our clients’ bottom line.

**PROJECT AND PROGRAMME MANAGEMENT**

**PROJECT MANAGEMENT:**
Delivering world-class projects require professionals with industry leading expertise, access to best practices, and the determination to manage their projects to the highest standard. With a proven track record of delivering successful projects for our clients in Singapore and throughout the region since 1934, we are committed to work alongside you and create exceptional value.

Our team helps clients to develop their brief and requirements, appoint the right design team and consultants, procure the best-value suppliers and contractors, and ensure the project is executed efficiently and effectively. As the key point of contact, we ensure communication between all project team members and stakeholders is fast and effective, and provide clear, accurate, and single point reporting tailored to business needs.

**PROGRAMME MANAGEMENT:**
Delivery of complex programmes of work, in an ever-changing, multi-cultural environment, is a challenging task that requires specific expertise and efficient execution. Our locally based, regionally focused programme management team have unrivalled experience in delivering pan-Asia programmes, acting as a catalyst for improved business performance.

Our leading Programme Management experts enhance the delivery assurance, governance and process compliance of large, complex and challenging projects and portfolios of work. Our proven approach and delivery methodology, developed through a strong track record of experience, delivers tangible benefits for annual capital investment plans, development and expansion, reimaging and refurbishment programmes.

With our experts leading the overall programme of works, this will ensure consistency of approach, clarity of communication, and uniformity of standards and brand image. Additionally, we assist our clients in helping to enhance value through design management, central sourcing, dynamic procurement practices and process efficiencies.
Arcadis helped Citibank maintain a diverse, global real estate portfolio by ensuring a compliant and consistent delivery model for projects across regions.

Key outcomes include:

- Overall savings in program schedule and cost through introduction of more streamlined processes and systems
- Enhanced insights on portfolio spend and planning through the development of interactive BI dashboards
- Improved governance and reporting
- Improved communication across regions

Citibank’s goals were to create one look and feel in their retail and work spaces globally, whilst driving a consistent CSR strategy across each region. Citibank needed to standardize their project management approach and improve their reporting and data quality, to enable them to make informed, data-driven decisions on the delivery of projects globally, while taking opportunities for improvement and innovation.

The Arcadis PMO, Governance Control Office (GCO) is a centralized embedded team that implemented programme and project management best practices that delivers faster and better value results, and encourages collaboration, standardization and overall efficiency.
Our Tampines Hub is Singapore’s largest integrated community and lifestyle hub that celebrates community-centric engagement while enriching and empowering residents through multiple experiences, services and facilities.

The development includes a regional library, a badminton hall, six swimming pools, a 5,000-seater stadium with a football pitch, an Arts Theatre and retail shops amongst other facilities.

Arcadis was the Project Manager and played an integral role from project inception to completion. We developed a project delivery strategy, were involved in the selection of design consultants and collaborated closely with over 30 governmental agencies. We were involved in a Residents’ Engagement Process to understand their social, political and environmental interests, ensuring that their requirements were accurately addressed and integrated in the development design.

Our Tampines Hub is now able to support key government priorities and initiatives to widen community outreach and engagement, and build ownership in the development of facilities in the community.

Benefitting 250,000 residents and 80,000 households in the community

Collaborated with over 30 governmental stakeholders and 15,000 residents to understand and address their interests to integrate into the development design.
Singapore Sports Hub is a mixed-use development centered around a 55,000 seat stadium with a state of the art retractable roof. Located on the site of the old National Stadium, the development also includes an aquatics centre, a 3000 capacity sports arena, a water sports centre, a museum, and various other ancillary and community spaces.

It was procured using a Public-Private Partnership (PPP) approach which allows off balance sheet public infrastructure projects to be funded by the private sector.

With multiple parties involved, each with different drivers and objectives, Arcadis was appointed as ‘Independent Tester’ with the principal role of confirming the construction was undertaken in accordance with the Project Agreement.

Positive Outcomes:
1. Arcadis established design compliance from project requirements to ensure that all of the procuring parties worked towards an identified common goal.
2. Through providing practical and pragmatic advice to both public and private sector parties, issues could be addressed and resolved in a collaborative manner, pursuant to the ideology of the partnership contract, at the earliest possible stage.
3. By proactively reviewing and reporting on the construction quality, compliance and programme, Arcadis provided the project stakeholders with an independent and consistent understanding of the project.
4. Arcadis worked closely with the project engineers and sub-consultants to ensure that the testing and commissioning process was undertaken in a structured and systematic manner, with outcomes achieved against pre-determined criteria.
5. Harnessing their global knowledge of privately financed public ventures, Arcadis was able to define and execute compliance procedures which demonstrated international best practice, over and above the minimum standards outlined in the contract.
The impact of climate change, digital disruption and urbanization requires businesses to consistently evolve. Whether it’s strategic technical advice, organizational transformation, maximizing investment return or enhancing asset performance, clients require customized and strategic solutions to ensure they can deliver their desired business outcomes.

**BUSINESS ADVISORY**

Our approach to business advisory focuses on developing a thorough understanding of our clients’ needs and then designing and implementing solutions that deliver tangible value to their organizations. Our core advisory services can be divided into three areas: **Technical Investment Risk Management, Asset Performance Optimization and Strategic Consulting.**

**TECHNICAL INVESTMENT RISK MANAGEMENT**
Whether acquiring or disposing of an asset, providing development debt or equity, or investing into a security, we provide holistic, outcome focused advice to ensure technical risks are known and appropriately managed prior to the commitment of funds.

**ASSET PERFORMANCE OPTIMIZATION**
We advise clients on how to optimize the economic, social and environmental costs of their assets and ensure their portfolio is fully aligned to their overall business strategy.

**STRATEGIC CONSULTING**
Our Business Advisory consultants provide a wide range of strategic advice to our clients through discreet, one-off, tailored solutions including market entry strategies, workforce analytics, product performance benchmarking, feasibility studies and predictive urban planning.

Through our sector expertise, technical insight, local understanding and international experience, we have a deep track record in identifying opportunities to help clients gain the maximum benefits from their investments.
Arcadis was appointed by ED Zublin to provide detailed engineering and permitting services for the Deep Tunnel Sewerage System (DTSS) Phase 2 Contract T-07. Contract T07 involves 12.0 km of TBM tunnels with diameter up to 6.0m, 14 shafts, including hydraulic structures.

**CHALLENGE**
The tunnels run through challenging ground conditions that require careful engineering to ensure stability and the project interfaces with existing buildings and infrastructures where boring and excavation works need to be controlled to a minimum. Multiple level of approvals are also required to meet permitting and contractual requirements.

**SOLUTION**
Led by the Arcadis Singapore team, we tackled the challenging ground conditions by working with various authorities and Arcadis specialists in tunnels, hydraulics, geology, ground-hydrology and structures from Hong Kong, US and India. Employing observation method, performance based design and 3D PLAXIS enabled us to analyze complicated and highly variable site conditions for the shafts construction. We adopted an innovative approach in the tunnel design, leveraging on composite behavior, and adopting a full SFRC tunnel lining segment at selected tunnel stretches. Various interfaces were managed using robust design management methodology which enabled Arcadis to produce an economical and innovative design.

**OUTCOMES**
Our proactive management of the design schedule helped ED Zublin to be the first contract in the project to launch the TBM ahead of all other contractors. Despite technical complexities, Arcadis attained the necessary approvals from authorities without impacting the construction schedule. Furthermore, cost and schedule savings were achieved in the hydraulic structures by value engineering.

Transporting 800,000 cubic metres of NEWater per day

30%-55% increase in water recycling rate

Increasing water resiliency for Singapore through cost-effective solutions to meet long term water needs.
From tall buildings to busy airports; from underground tunnels to iconic bridges, engineering feats help to shape the future of cities and improve quality of life.

DESIGN AND ENGINEERING

Our design and engineering consultancy services are characterized by our sense of responsibility and acute focus on quality. From concept design and pre-feasibility development, through to detailed design and construction support.

We strive to use our understanding and expertise to achieve optimum social and economic outcomes that are in line with our clients’ and stakeholders’ biggest priorities.

We have experience in delivering a diverse range of projects using a variety of delivery models, including alliance, public-private partnerships, design and construct, early contractor involvement model, design only, professional project management, design verification and maintenance contracts.

Our capabilities are spread across a range of areas including:

- Infrastructure – rail and railway systems, airports, ports and maritime assets
- Bridges and civil structures
- Caverns and tunnels
- Geotechnics
- Waste and environmental management
- Water management, treatment and conveyance
- Sustainability design
Digital solutions throughout the asset lifecycle to help you deliver better business performance.
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By leveraging drone technology, organizations can mitigate risk through innovative data collection, management and visualization. From site surveying and evaluation, construction project monitoring, site safety audits and volumetric analysis, Arcadis’ drone and data optimization capabilities have incredible potential in the engineering and consultancy industry.

**DRONES AND DATA OPTIMIZATION**

Surveying large areas of land, property or industrial sites can be time consuming and costly. Arcadis’ drone and data optimization capabilities in Singapore reshapes the realities of site surveying, inspections and analysis while improving productivity and reporting.

Unmanned aircrafts (UA), commonly known as drones serve as a first step in more efficient, cost-effective and thorough data collection. Arcadis’ comprehensive and scalable approach towards data collection, management and visualization works together to unlock the full potential of digital for our clients’ projects. When used correctly, digital solutions like drones enable faster, safer, simpler and more informed management of your natural and built assets.

Combining our industry expertise, state-of-the-art equipment and software, and CAAS certified drone pilots, we deliver accurate and timely data to enable our clients to achieve better business outcomes. Our digital innovations focus on harnessing high-quality data and turning it into actionable insights using innovative technology and methodology to optimise value for our clients.

Some of the areas we are already making a difference:
- Automated Road Inspection & Analysis
- Aerial Façade Inspection & Analysis
- Site Monitoring & Analysis
- Vessel Volumetric Analysis

Our in-house developed software enables the automation of detecting defects and deformations in roads, bridges, and facades through machine learning capabilities and drones, thereby allowing clients to have increased accuracy in reporting, prioritise rectification works and carry out preventive maintenance. Our solutions also provide efficiencies in volumetric computations, site safety inspections and progress monitoring through model generation software and drones. The data captured can form documentations useful for site control and dispute resolution.

**KEY OUTCOMES**
- Enhanced health & safety
- Significant cost and time savings
- Increased density of data points gathered
- Quick and accurate data turnaround
Across many parts of Asia today, organizations are recognizing the need to integrate environmental, health, safety and governance risk factors into their business decision-making. We support you from planning to decommissioning, translating the value of conserving nature, worker-safety, compliance assurance and sustainable operations into economic terms where it is crucial for success within today’s business environment.

ENVIRONMENTAL SOLUTIONS

Arcadis has become a global leader in developing creative technical and financial approaches for the success and sustainability of some of the world’s leading companies. We partner with our clients to help mitigate risks, build capacity and deliver viable, sustainable solutions that add value to both the environment and your organisation.

Core specialised services we offer to clients in Singapore include:

**STRATEGIC ENVIRONMENTAL CONSULTING**
- Cost effective business solutions to enterprises and operating facilities for management of environmental, health and safety risks.

**SITE EVALUATION AND RESTORATION**
- Maximize the value of your built and natural assets through tailored, comprehensive, and outcome-driven environmental restoration

**ENVIRONMENTAL PLANNING**
- Create awareness and understanding of key environmental and social impacts of your capital development projects, so that you can make an informed decision on the sustainable way forward for your business

**ENVIRONMENTAL CONSTRUCTION SERVICES**
- Manage our client’s environmental construction and contracting requirements delivering guaranteed outcomes

At Arcadis, we are helping our clients to mitigate environmental risks and increase positive impact, giving them certainty towards a sustainable future.
Sustainability is one of our core values. We operate our business in a sustainable and socially responsible manner, based on our Global Sustainability policy.

**SUSTAINABILITY**

Together with our clients and partners, we push the boundaries of sustainability and fulfill our passion to improve quality of life and be recognized as the best.

We aim to apply the principles of sustainable development across all of our operations, as well as in the solutions that we provide to our clients.

When it comes to projects for clients, we proactively provide sustainable alternatives to them, minimizing the environmental impact these projects may have.

Through our Global Sustainability Program, we also aim to reduce the environmental impact of our own operations through global policies in the following focus areas:

- Transportation, ground and air
- Energy and water usage in our offices
- Paper usage and type
- Waste reduction and disposal or recycling
- Selection of purchased materials and products

Arcadis has a global partnership with UN-Habitat, the leading United Nations organization responsible for one the most urgent challenges in the world. We support UN-Habitat by sharing our knowledge and skills in a range of projects, assessments, trainings and site visits through the Shelter Programme.

We have more than 120 experts from a range of disciplines engaged in this programme, helping UN-Habitat to achieve its goal for sustainable urbanization.

Together with our clients and partners, we push the boundaries of sustainability and fulfill our passion to improve quality of life and be recognized as the best.
At Arcadis, protecting the health and safety of our clients, consultants, contractors and the employees who we work with is our number one priority. We integrate health and safety standards and best practices to create a safe environment for everyone.

HEALTH & SAFETY

We strive to achieve zero incidents in all of our workspaces and project sites through recognizing hazards, assessing and managing risks, and taking a proactive leadership position in the area of health and safety.
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