Improving quality of life in Singapore
SINGAPORE – A global financial centre, a commerce and aviation hub, and a distinctive, vibrant city. Growing from a strong vision, Singapore now faces the future with a plan to develop world class infrastructure and a Smart Nation, all the while creating a more liveable and sustainable city.
PROMOTING PROGRESSIVE SOCIAL INFRASTRUCTURE - OUTRAM MEDICAL CAMPUS
- ITE COLLEGE CENTRAL AND HEADQUARTERS
- HOUSING DEVELOPMENT BOARD

REDEFINING A WORLD CLASS AVIATION HUB - SINGAPORE CHANGI AIRPORT T4
- SINGAPORE CHANGI AIRPORT T1 AND T2

DELIVERING MOBILITY ORIENTED DEVELOPMENT (MODe) - JEWEL CHANGI AIRPORT
- PERSPECTIVE: SINGAPORE AND MODE

REALISING A SMART AND RESILIENT CITY - PERSPECTIVE: FORMULATING A SMART AND RESILIENT CITY
- OUR TAMPINES HUB
- ZERO ENERGY BUILDING

ENHANCING BIODIVERSITY AND PUBLIC AMENITY - GARDENS BY THE BAY
- PROPOSED MANDAI DEVELOPMENT

FOSTERING COMMERCIAL DEVELOPMENT FOR A LEADING CITY - MARINA BAY FINANCIAL CENTRE
- TANJONG PAGAR CENTRE
- PHILIPS REGIONAL HEADQUARTERS
PASSION
EXPERIENCE
VISION
AN 80+ YEAR HISTORY OF DELIVERING EXCEPTIONAL AND SUSTAINABLE OUTCOMES IN ASIA

70+ OFFICES ACROSS ASIA
6,000 STAFF IN ASIA
13 COUNTRIES ACROSS ASIA
$3.8 BILLION IN REVENUES

300+ OFFICES WORLDWIDE
27,000 STAFF WORLDWIDE
70 COUNTRIES WORLDWIDE
SERVING YOU
Addressing your challenges with innovative outcomes based on leading service and sector expertise.

**DESIGN + CONSULTANCY**

**ARCHITECTURE**

**BUSINESS ADVISORY**

**ENVIRONMENT**

**WATER**

**ENGINEERING**

**QUANTITY SURVEYING**

**PROJECT & PROGRAMME MANAGEMENT**

**CONTRACT SOLUTIONS**

**NATURAL + BUILT ASSETS**

**AIR**

**BUILDINGS**

**LAND**

**INFRASTRUCTURE**

**WATER**

**POWER & ENERGY**
The Arcadis heritage incorporates a number of firms with long and successful histories in Singapore including Langdon & Seah, EC Harris and inProjects. In 2015 these companies came together to form one organization, Arcadis Asia Limited. Together we harness our collective expertise to deliver exceptional outcomes and solutions for Singapore.

**Innovation and Technology**

Innovation and technology-based solutions will increasingly serve as a fundamental enabler for better business performance and improved quality of life in Singapore and across the world. Arcadis’ innovative technologies like Prefabricated Pre-finished Volumetric Construction to Prefabricated Bathroom Units raised construction productivity in Singapore, by a projected time savings of 25-60%.

Additionally, value delivered through Building Information Modelling provides full visualization of projects, bringing greater engagement and clarity for all stakeholders.
PROMOTING PROGRESSIVE SOCIAL INFRASTRUCTURE
By supporting the diverse needs and growing aspirations of Singaporeans through the delivery of leading healthcare, education facilities and housing that promote a better future.

REDEFINING A WORLD CLASS AVIATION HUB
Through the upgrade and expansion of Singapore Changi Airport to maintain its position as one of the world’s best airports, preparing the aviation hub to receive 100 million passengers each year by 2030.

DELIVERING MOBILITY ORIENTED DEVELOPMENT (MODE)
By utilizing Arcadis’ MODe approach to plan for future needs and maximise the potential of transport developments – economically, socially and environmentally.

REALISING A SMART AND RESILIENT CITY
Through working with leading developers and agencies on the development of strategic plans for a smart and resilient city.

ENHANCING BIODIVERSITY AND PUBLIC AMENITY
By delivering projects that enhance biodiversity and improve public access to green and blue spaces that improve quality of life.

FOSTERING COMMERCIAL DEVELOPMENT FOR A LEADING CITY
By leading the way in the delivery of outstanding commercial development that promotes Singapore’s ongoing success as a business hub and financial centre.

These and other instances of our contributions to Singapore’s housing, transportation, land, air and more are illustrated on the following pages.
A SNAPSHOT of Arcadis’ contributions to Singapore

KEY
1 Outram Medical Campus
2 ITE College HQ
3 Changi Airport
4 Changi Jewel
5 Our Tampines Hub
6 Zero Energy Building
7 Gardens by the Bay
8 Marina Bay
9 Tanjong Pagar
10 Philips Regional HQ
11 Mandai Development
Leveraging international and local healthcare expertise to deliver world-class facilities that enhance healthcare provisions in Singapore.

Outram Medical Campus incorporates a hospital, community healthcare facilities and specialist treatment centres in addition to dedicated teaching and research units. Arcadis was appointed by the Singapore General Hospital to provide project management services and assist in the procurement of a leading design team to develop the detailed master plan for the campus. The first stage of the masterplan, including the Outram Community Hospital and 146,000sq m floor area will be implemented by Arcadis.

• 547 new patient beds at Outram Community Hospital
• 432,000sq m master plan site
ITE COLLEGE CENTRAL and ITE Headquarters

Delivering leading education and recreation facilities to achieve a comprehensive learning experience.

ITE College Central is positioned as ‘A College of Creativity and Innovation’ and is co-located with ITE Headquarters. Arcadis provided full pre- and post-contract quantity surveying services for the School of Business & Services, School of Design & Media, ITE Headquarters, an aerospace hub, sports facilities and more.

• On-time start of the semester for over 10,000 students
• More than one thousand staff at improved facilities
• 192,820sq m total gross floor area

“ITE’s journey reflects the Government’s commitment to develop every student to his/her full potential.” Prime Minister Lee Hsien Loong at the opening of ITE College Central and ITE Headquarters.
Delivering affordable housing and additional properties for the Housing Development Board (HDB).

The HDB of Singapore provides affordable government housing and is one of Singapore’s largest residential developers. HDB has expanded their development to retail, social hubs and land reclamation. Tailored cost and commercial management have to be custom-made to meet specific asset needs due to a unique cost matrix. The procurement approach is strict and thorough and Arcadis’ cost and commercial management services facilitated with HDB spans across residential blocks, industrial properties, landscape, site preparation works and infrastructure works.

• 66 residential projects delivered with HDB
A fourth terminal to accommodate the continued growth in air traffic.

Singapore’s Changi Airport is recognized as one of the world’s best airports. The new fourth terminal brings an additional 195,000sq m of floor area and another 21 aircraft parking stands. It creates an airport retail destination and sets a new standard in airport innovation. Building on over a decade-long relationship, Arcadis worked closely with Changi Airport Group to procure the multi-disciplinary design team and provide pre- and post-contract quantity surveying services for cost efficient delivery of the terminal.

- Increasing passenger capacity from 66 million passengers each year to 82 million
- Enhancing the passenger experience with gardens, playgrounds and movie theatres
- 350 shops and 120 food outlets
Ensuring the successful upgrade of Terminals 1 and 2 to maintain a world class airport experience and create additional space.

In 2012, Changi Airport Group officially unveiled the S$500 million upgrade of Terminal 1, Changi’s oldest terminal. Arcadis provided full pre- and post-contract quantity surveying services to ensure the successful renovation and expansion of Terminal 1. In addition, full pre- and post-contract quantity surveying services were provided for the upgrading of architectural finishes, structural works and all related mechanical and electrical works to Terminal 2.

- 182,000sq m of floor space renovated
- 22,000sq m of new floor space
- Extended viewing gallery and gate holdrooms to enhance the passenger experience
Jewel Changi Airport is a new mixed-use complex featuring attractions, retail offerings, a hotel and facilities for airport operations. Envisaged as a world-class lifestyle destination, Jewel will be developed in front of Terminal 1 (T1) at Changi Airport. It will greatly increase capacity of the terminal with new walkways to connect T1 and Jewel to the MRT station. Cost research and mechanical and electrical quantity surveying conducted by Arcadis.

- 70% floor area added at T1’s arrival and baggage claim halls
- Handling capacity in T1 increased to 24 million passengers each year

JEWEL Changi Airport
Delivering City Value & Prosperity Through Mobility Oriented Development (MODe).

Transit-hubs are no longer simply places where travellers arrive or depart, increasingly they are destinations in themselves for improved quality of life. As a result they can positively impact a wide surrounding area, both economically and socially.

Arcadis’ MODe approach helps our clients plan for the future and access the unrealized potential in their existing transport developments from an economic, social and environmental perspective. MODe projects are fast becoming popular in the city of Singapore. Developers are not only concerned on capital cost, but also environmental impacts and assessments, connectivity to transport hubs, social spaces, and equity and security. When it comes to infrastructure works, Arcadis has been involved in several MODe projects; from ports, roads and tunnels to airports. With experience surrounding the Changi Airport for more than a decade which includes Changi Terminals 1, 2 and 4, The Jewel and the third runway, mobility in the city of Singapore has been improved for millions of residents and visitors.
REALISING A Smart and Resilient City

Singapore has recently signed the 100 Resilient Cities Charter, hired a Chief Resilience Officer and is also moving in the direction of a smart city. Singapore is looking at improving the quality of life for the people living in Singapore through smart living, the use of information and communications technology and forward planning on social and hard infrastructure programs. Through Government initiatives, round table talks, think tanks and projects that relate or contribute to the resiliency of the city and to the Smart Nation initiative, Arcadis is leading the discussion around resiliency to improve quality of life for Singapore’s 5.4 million people; be it in healthcare, social infrastructure, aviation ports or even smart buildings.
OUR TAMPINES Hub

Delivering a socially-integrated hub in the heart of the Tampines.

The Tampines town hub hosts more than 30 entities with a wide range from medical, educational, sports, recreational, offices and eateries. With diverse stakeholders and project complexities, Arcadis is the program and project manager and is also responsible for addressing risks and concerns from 15,000 residential stakeholders on social, political, economic and environmental interests to create a hub beneficial for all. Additionally, the hub is located closely to a transportation depot, allowing for maximum mobility of the residents.

- 2,300sq m Eco-Rooftop Community Garden
- 745sq m Family Medical Clinic and Community Health Centre
- 14,000sq m Library
- First of its type in Singapore where people can live, work and play in this socially-integrated hub
The Zero Energy Building at the BCA Academy is the first zero energy building in South-East Asia to be retrofitted from an existing building. It is completely self-sufficient in meeting its electricity needs and demonstrates how sustainable design and green building technologies can be successfully applied to existing buildings. Arcadis provided full pre- and post-contract quantity surveying services for this S$11 million three-story building retrofit, housing offices, classrooms and a resource centre.
GARDENS BY THE BAY
Bay South Garden

Transforming 54 hectares of reclaimed land to create the new national icon and one of Singapore’s leading attractions.

Gardens by the Bay is an integral part of the Singapore government’s strategy to transform Singapore from a “Garden City” to a “City in a Garden”. The stated aim is to enhance the greenery and flora in the city. This mega project has three significant features; the Conservatory Complex featuring the Flower Dome and Cloud Forest; the Supertree Grove showcasing iconic tree-like vertical gardens and the Main Gardens comprised of ten themed gardens from around the world.

Arcadis provided quantity surveying, procurement management strategy and cost management services for all aspects of the project with a focus on life cycle cost to ensure cost efficiency.

- Over 20 million visitors in its first 3.5 years
- The largest glass greenhouse in the world
- RIBA International Project of the Year, 2013
- BCA Green Mark Platinum Award (Special Project)

“I have always believed that a blighted urban landscape, a concrete jungle destroys the human spirit. We need the greenery of nature to lift our spirits.” Mr Lee Kuan Yew
The proposed development involves integration with existing surroundings, inclusion for affordability, accessibility, and environmental and commercial sustainability elements.

Located in the heart of Singapore and in the water catchment area, the Mandai Development project consists of multiple assets including a Bird Park bounded by roads acting as natural buffers; indoor attractions centred on conservation, education and outreach; an Eco Resort and retail. It is unique with a transport link from the nearest Mass Rapid Transit Station traversing water bodies and existing roads to the proposed project site. As the cost managers and quantity surveyors on the project, Arcadis is working to ensure integration with existing sites and ensure biodiversity and environmental sensitivity. It will bring in thousands of tourists and become and even more robust and enjoyable destination for residents.
Marina Bay Financial Centre is positioned as Asia’s Best Business Address™, a purpose-built financial centre designed to ensure Singapore’s place as the financial capital of South-East Asia.

This multiple award winning development is located on a 3.55 hectare site in Singapore’s new downtown district. Arcadis delivered full pre and post contract quantity surveying services to ensure the successful delivery of a world-class urban waterfront development.

• FIABCI Prix d’Excellence Awards 2012, Office category
• Three office towers provide 279,000sq m of prime Grade A office space
• Two residential towers offer 649 luxury apartments
• 16,630sq m of retail space
Redefining Singapore’s skyline with an iconic landmark development, Singapore’s tallest tower.

Tanjong Pagar Centre is a premier business and lifestyle hub in Singapore’s central business district. Arcadis provided full pre- and post-contract quantity surveying services utilizing building information modelling and Green Mark initiatives.

- Awarded BCA Green Mark Platinum and LEED Platinum pre-certification (Core and Shell)
- 160,000sq m development
- 64-story, 290-meter tower with 181 luxurious apartments
- 32 floors of Grade A office space
- Separate 20-storey mid-rise tower accommodates a 5-star luxury business hotel featuring a pool deck

Leading the transformation of Singapore’s central business district
PHILIPS Regional Headquarters

Delivering a state-of-the-art, smart facility of the future to drive innovation.

Philips is responding to rapid growth in the ASEAN region with innovation that responds to the needs of an aging population, urbanization and increasing energy consumption. The new Philips Regional Headquarters provides support to the company's growth plans and drives innovation, particularly in healthcare. Arcadis provided project and cost management services for design and construction, managed the procurement and fit-out, and facilitated the move into the new facility.

- Enabling hospitals to remotely monitor and treat patients at home through tele-health 38,000sq m facility, contributing to making a Smart Nation
Arcadis is the leading global design & 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 deliver exceptional and sustainable outcomes throughout the lifecycle of their natural and built assets. We are 27,000 people active in over 70 countries that generate $3.8 billion in revenues. We support UN-Habitat with knowledge and expertise to improve the quality of life in rapidly growing cities around the world. Arcadis. Improving quality of life.

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