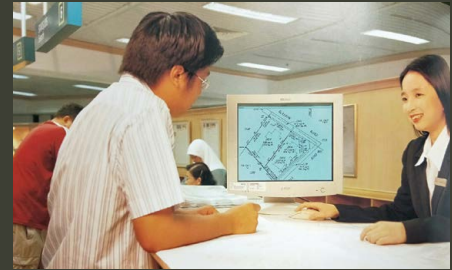




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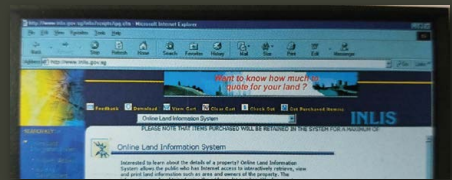
# SLA 20<sup>th</sup> Anniversary Milestones 2001-2020

- On 1 June 2001, the Singapore Land Authority (SLA) was formed with the merger of the Land Office, Singapore Land Registry, Land Survey Department and Land Systems Support Unit.
- With the Land Titles (Amendment) Act 2001, for the first time in Singapore's land registration history, there was now one system of registration under the Land Titles Act. With one system, completed after a five-year project, the public could search online for property ownership and other related information for all private properties in Singapore, as opposed to manual searches of the paper-based deeds register.



A member of public making an enquiry at the SLA service counter

- In June 2001, nine new services were added to the existing five services in the Integrated Land Information Service (INLIS) system. INLIS was the first system in Southeast Asia to combine Geographical Information System (GIS) technology and E-commerce technology, which enabled interactive digital maps tagged with land information to be delivered to any Internet user.



A total of 14 services were made available online with INLIS

## 2001

## 2002



Mr Ho Peng Kee, who was the Senior Minister of State for Law and the Ministry of Home Affairs, at the launch of SPIO in 2002

- To optimise land use in land-scarce Singapore, SLA launched a new initiative in 2002 to open up school fields to the community after school hours. This project kicked off with Fuchun Secondary School in Marsiling.



The opening of school fields to members of the public meant more space for activities such as football

- SLA's State Property Information Online (SPIO), a one-stop portal providing timely State property tender information, was launched in 2002. It listed spaces available for rental for residential, commercial, and office use, as well as the latest online updates on tender openings, closings and awards.
- SLA conducted its first land sale on 10 May 2002, where it auctioned an existing petrol station site at 551 Upper Thomson Road.



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# SLA 20<sup>th</sup> Anniversary Milestones 2001-2020

- With the launch of the e-lodgement system in August 2003, SLA became the first ASEAN nation to have a fully electronic land registration and public search system. Lawyers could prepare and lodge legal documents over the Internet from anywhere, which was far more efficient than the previous manual approach.

2003

2004



*Members of the public could enjoy more outdoor activities with the opening of playfields*

- In September 2004, SLA opened up some 251ha (equivalent to more than 200 football fields) of selected sites for public use. Members of the public were encouraged to enjoy these turfed fields for non-organised recreational activities such as football, outdoor games and physical exercise.

- SLA, for the first time, granted in-principle approval for the upgrading of a lease tenure of a 99-year leasehold site without the provision of a detailed development plan. This paved the way for interested developers to carry out feasibility studies to determine if a property was suitable for en-bloc redevelopment. Eng Cheong Tower was the first property to be given such in-principle approval.



*Eng Cheong Tower*



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# SLA 20<sup>th</sup> Anniversary Milestones 2001-2020

- SLA rolled out the Singapore Satellite Positioning Reference Network (SiReNT) in September 2006. SiReNT was then a network of five permanent reference stations that utilised Global Positioning System (GPS) technology, and marked a new era of accuracy and productivity in surveying, mapping, navigation and tracking activities in Singapore.



*SiReNT's first logo*

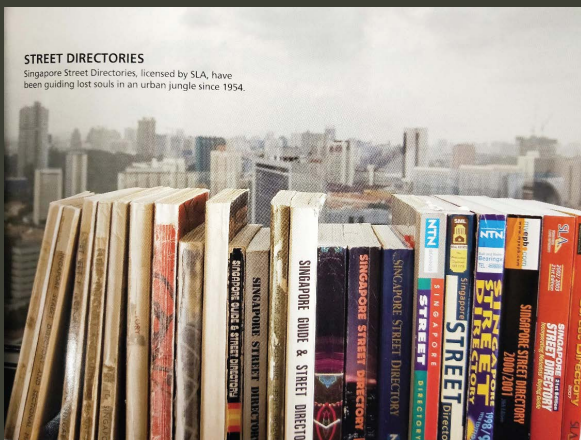
- SLA launched the Ideas Tender Scheme to encourage businessmen and entrepreneurs to pursue innovative ideas for use of State properties.
- Clifford Pier, one of Shenton Way's historical landmarks, was closed and its site returned to the State at a ceremony in April 2006. Preserved for its historical and architectural significance, it was given a new lease of life in June 2006 when it was put up for sale, as part of URA's masterplan for the development of Marina Bay.



*Clifford Pier was closed and returned to the State in 2006*

## 2006

## 2007



**STREET DIRECTORIES**  
Singapore Street Directories, licensed by SLA, have been guiding lost souls in an urban jungle since 1954.

*SLA won a Special Achievement Award for the Singapore Street Directory 2007*

- From April 2007, landowners whose lands are acquired, are paid market value compensation under the Land Acquisition Act. With this landmark change, SLA played a more important role than ever in facilitating the availability of land for national development projects such as essential public programmes and infrastructure developments.
- The Animal Concerns Research and Education Society (ACRES) rented a 2ha plot of land at Sungei Tengah from SLA to set up Singapore's first wildlife rescue centre. The centre began operations in April 2007.
- The SLA Singapore Street Directory 2007 won a Special Achievement Award at the 27<sup>th</sup> ESRI International User Conference. Jack Dangermond, founder and president of ESRI, cited SLA's innovative use of technology in creating high quality street maps from raw GIS data.





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# SLA 20<sup>th</sup> Anniversary Milestones 2001-2020

- SLA, which was located at the former Temasek Tower in the Central Business District (CBD), moved to Revenue House in Novena. This move kicked off the initiative to move some government agencies out of the CBD to ease the acute shortage of prime office space.



*SLA staff commemorated their last day at the former Temasek Tower*

2008

2009

- SLA and GIS Development, a regional Geographic Information System (GIS) consortium, organised Map Asia 2009. This annual conference promoted the convergence and use of geospatial information, technologies and applications.
- SLA launched the new SGeoid09 model to help Global Positioning System (GPS) users to measure heights above the survey department's datum. This service was estimated to save building owners up to \$2 million each year.



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# SLA 20<sup>th</sup> Anniversary Milestones 2001-2020

- OneMap, an integrated map system, was launched in March 2010 for government agencies to deliver location-based services and information. A multi-agency collaboration, it is also used by the private sector and the community to create useful and value-added services. The public can find locations using intelligent search, get driving directions, obtain public transport routing and other comprehensive information contributed by participating government agencies.



*The earliest interface of OneMap*

- SLA organised the Global Spatial Data Infrastructure 12<sup>th</sup> World Conference, in conjunction with the 16<sup>th</sup> Permanent Committee, for GIS Infrastructure for Asia and the Pacific from 19-22 October 2010. Being appointed the host city for the conference was a sign of recognition of SLA's geospatial expertise and capability.

## 2010

## 2011



*CE and CS with CDC kids, volunteers and helpers*

- SLA celebrated its 10th anniversary with a series of exciting activities, which culminated in a charity walkathon held at HortPark to support less-privileged families under the Central Singapore Community Development Council (CDC). A total of \$80,000 was raised!

- On 1 April 2011, SLA rolled out its new vision, "Limited Land • Unlimited Space". This new vision emphasises how the scarcity of land in Singapore should not be viewed as just a constraint, but also an opportunity for greater innovation and creativity in land use.
- The landmark return of the former railway land by the Keretapi Tanah Melayu (KMT) took place on 1 July 2011. In addition to taking possession of the site, SLA was tasked with the removal of the entire railway track and ancillary structures, as well as levelling and turfing works on the former track.



*Bukit Timah Railway Station*



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# SLA 20<sup>th</sup> Anniversary Milestones 2001-2020

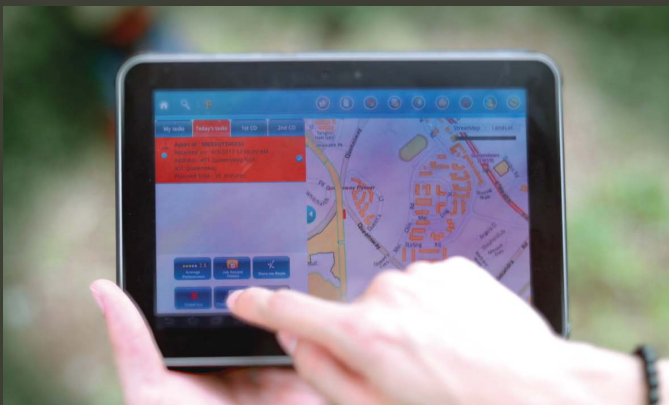
- The Rail Corridor was opened to the public in January 2012, after SLA completed the removal works and levelling of the former railway tracks. Formerly used for commuting and transporting goods between Singapore and the rest of the Malay Peninsula, attractions such as the former Bukit Timah Railway Station (BTFS) and the steel truss bridge along Bukit Timah Road were subsequently opened to the public in September 2012. BTFS and the former Tanjong Pagar Railway Station were also opened to individuals and organisations for ad-hoc activities and events.



*The popular steel truss bridge along Bukit Timah Road*

2012

2013



*4gLAMS Interface*

- To encourage geospatial innovation through the use of Geospatial Information Science and Technology (GIST), SLA launched the Geoinnovation Fund in 2013. Reaching out to students, application developers and start-up entrepreneurs, this initiative was a call to leverage GIST to benefit the society and economy.
- Leveraging mobile technology, 4gLAMS was introduced in January 2013 to facilitate data collection and decision-making. 4gLAMS allowed officers to reach their desired destinations in the shortest time and enabled them to “check-in” at land sites and upload photos which were then recorded in the backend support system.





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# SLA 20<sup>th</sup> Anniversary Milestones 2001-2020

- In 2014, SLA led a WOG initiative to create and maintain an authoritative 3D map, which involved the capturing of 3D data using aerial imagery and aerial laser scanning technologies. The project produced high quality 3D city models which included terrain, buildings and other infrastructure. The 3D mapping dataset was shared with government agencies for use in operations, planning and risk management.
- The playfields of three former educational institutions were progressively opened for public use from 2014. These were the fields at the former Manjusri Secondary School at 149 Sims Drive, the former ITE Clementi at 6 Lempeng Drive, and ITE Tampines at 2 Tampines Street 92.



Members of the public enjoy more spaces for recreational activities

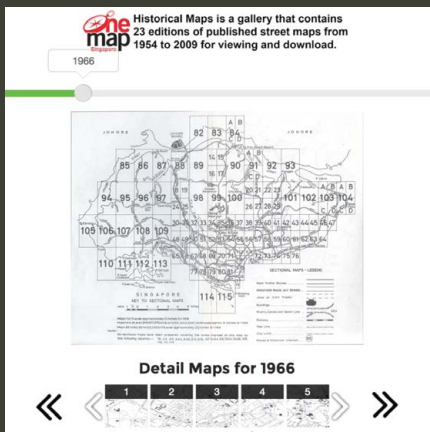
- To enhance the vibrancy of the Rail Corridor, SLA worked with the Urban Redevelopment Authority (URA) and National Arts Council (NAC) to create an interim independent space for street art beneath the Commonwealth Avenue viaduct.



Art along the Rail Corridor

## 2014

## 2015



The One Historical Map interface allows you to look for maps from throughout history

- 2015 saw an amendment to the Land Acquisition Act, which gave the Government the flexibility to acquire only a specific stratum of space that was needed, instead of having to acquire the entire plot of land when developing public projects. This enabled the development of more subterranean spaces, while keeping acquisition to a minimum.
- The One Historical Map app was launched in December 2015 to celebrate SG50. This crowd-sourcing app, a collaboration between SLA and the National Heritage Board (NHB), allowed users to compare modern Singapore streetscapes to their historical counterparts. Users could also contribute to the geographical history of Singapore by geo-tagging their personal photographs of Singapore and sharing them with the public.

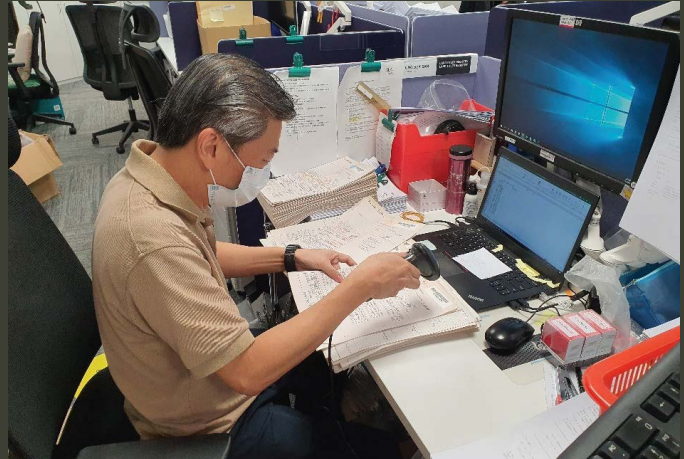
- In 2015, SLA opened the Tanjong Pagar Railway Station (TPRS) on public holidays for people to enjoy its history and charm. On 9 August 2015, TPRS hosted the SLA SG50 Carnival and carried a live telecast of the National Day Parade to celebrate Singapore's Golden Jubilee.



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# SLA 20<sup>th</sup> Anniversary Milestones 2001-2020

- SLA completed the national 3D mapping project at the end of 2016. The 3D digital model would be used by the public, private, and people (3P), and the research sector. The project collected a 360 panoramic imagery dataset on approximately 6,000 km of roads, and the data collected was used to create 3D models of road and street furniture.
- SLA started the process of converting all paper records of HDB leases into electronic format, which was enabled through the enhancement of the Singapore Titles Automated Registration System (STARS) in 2015. This would bring about a fully digitised platform which would enable simpler and faster lodgement of documents, registration and online title search.



*SLA staff hard at work converting all paper records of HDB leases into electronic format*

## 2016

## 2017



*SLA had the privilege of organising KPS for the first time in 2017*

- SLA took over the management of 10 offshore islands from Sentosa Development Corporation (SDC) in March 2017. In October and November 2017, SLA organised the Kusu Pilgrimage Season (KPS) for the first time.

- The Singapore Advanced Map (SAM) was completed in July 2017. It stores, maintains, and integrates various sources of map data, 3D city models, orthophoto, point cloud data, cadastre information, topographical survey data and existing 2D Geographic Information System (GIS) data for visualisation and analysis on one single platform.
- SLA clinched the top spot in 2017's Pro-Enterprise Ranking (PER) Survey – a testament to SLA's drive towards fostering an innovative and business-friendly regulatory environment.





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# SLA 20<sup>th</sup> Anniversary Milestones 2001-2020

- GeoWorks, Southeast Asia's first geospatial industry centre, was launched in July 2018, aiming to foster a vibrant geospatial ecosystem in Singapore and the region, promote business growth, drive innovation and foster a well-connected geospatial community.



*GeoWorks marked the launch of Southeast Asia's first geospatial industry centre*

- The Geospatial Master Plan was unveiled in July 2018, articulating the vision of a "Geospatial-Powered Singapore", where businesses, people and the Government are empowered to use geospatial information and technology.
- Singapore was ranked joint first for Quality of Land Administration Index by the World Bank. The Quality of Land Administration Index comprises the Reliability of Infrastructure Index, Transparency of Information Index, Geographic Coverage Index, Land Dispute Resolution Index and Equal Access to Property Rights Index.

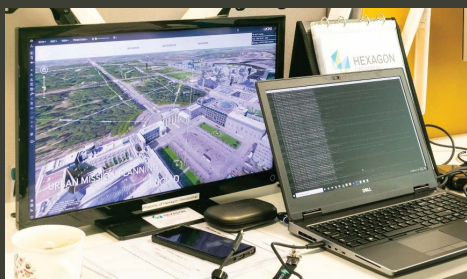
## 2018

## 2019



*Participants came up with creative ideas for the utilisation of the Pasir Panjang Power District*

- SLA and URA launched an Ideas Competition called "Power-Up Pasir Panjang", seeking creative new ideas for the transformation of the Pasir Panjang power district as part of the Greater Southern Waterfront.



*The 3D Singapore Sandbox allowed users access to a wide range of geospatial solutions*

- SLA launched Reinventing Spaces for Vibrant Places (RSVP), which called for innovative proposals to transform vacant State properties to add to their unique charm and benefit the local community.
- GeoWorks launched the 3D Singapore Sandbox, which makes available 3D geospatial data, including the models of over 160,000 buildings mapped nationwide. A collaborative environment which allows industry partners and developers to leverage 3D geospatial data, Sandbox users will have access to geospatial solutions provided by established industry partners to enhance their own business operations.



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# SLA 20<sup>th</sup> Anniversary Milestones 2001-2020

## 2020



*The Beta version of OneMap3D lets users tap on a wide range of 3D features*

- When COVID-19 hit Singapore in early 2020, SLA was part of WOG efforts to react swiftly and took on new roles to protect Singapore. SLA's efforts ranged from ensuring safe distancing measures on State properties and upgrading OneMap with useful and updated public information, to transforming vacant State properties for use as COVID-19 facilities and supporting various measures to aid the businesses and tenants who have been hard-hit by the pandemic. SLA staff also stepped forward and volunteered their time as Safe Distancing Ambassadors (SDAs) and Safe Distancing Enforcement Officers (SDEOs).
- The Mass Data Conversion (MDC) project, which began in 2016 to digitise close to 1 million paper HDB leases, was completed in September 2020. SLA now has a fully digital database for both private and HDB properties, bringing it one step closer towards the digitalisation and transformation of the entire paper-based conveyancing process.
- The Beta version of OneMap3D, SLA's open-source island-wide 3D city map portal, was launched in September 2020 for businesses, developers and members of the public, providing 3D features such as shadow analysis and a first-person window view at different levels of a building.

- SLA facilitated the first-ever residential lease expiry in Singapore, where 191 private terrace houses at Lorong 3 Geylang were returned to the State when their leases expired on 31 December 2020. The site is slated for new public housing development as part of a larger plan to rejuvenate Kallang.



*SLA worked closely with residents and other agencies to ensure all 191 units were returned by 31 Dec 2021*

- In December 2020, SLA, URA and Singapore Food Agency (SFA) conducted a joint Street Enhancement Exercise along Waterloo Mall to improve public health and safety by allowing safe distancing between street vendors and unobstructed fire engine access. Under the exercise, the existing street vendors were offered designated lots along stretches of Waterloo Mall and Albert Mall to set up stalls and ply their trade. These lots are also spaced out to improve the experience of those who visit the popular area.



*Waterloo Mall after the Street Enhancement Exercise*