Digital Cities Enabling Urban Innovations

A Geospatial Collaborative Perspective

Lim Liyang
Senior Manager, GeoSpatial & Data Division
Singapore Land Authority

24 August 2017

©SLA 2017

Leveraging on Tech to Enhance Opportunities, Productivity & Convenience

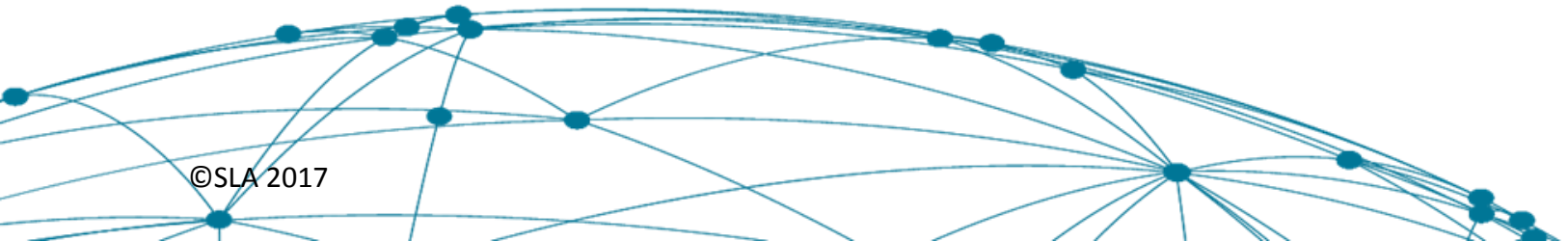
Transport

Home & Environment

Business Productivity

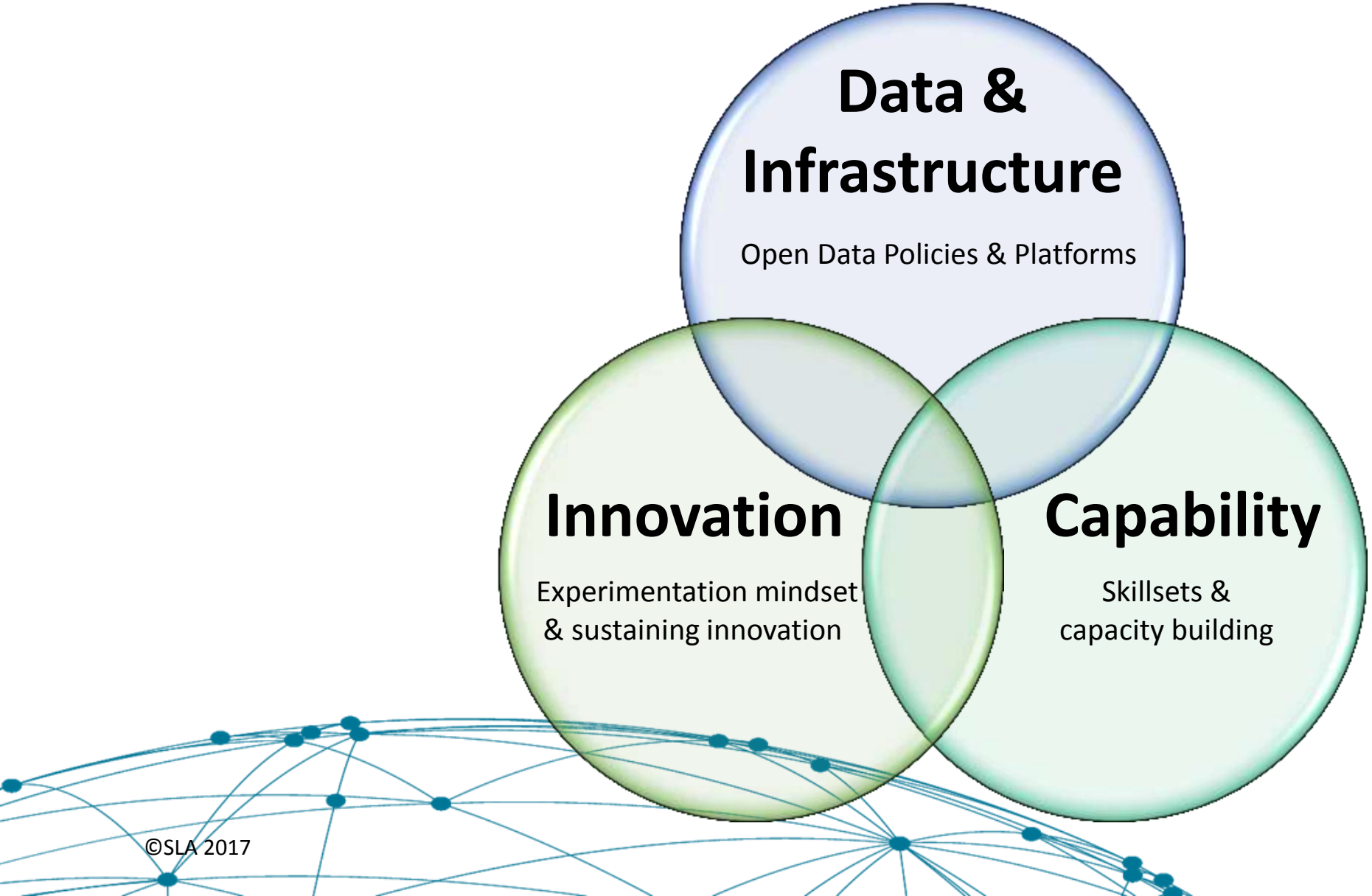
Health & Enabled Ageing

Public Sector Services



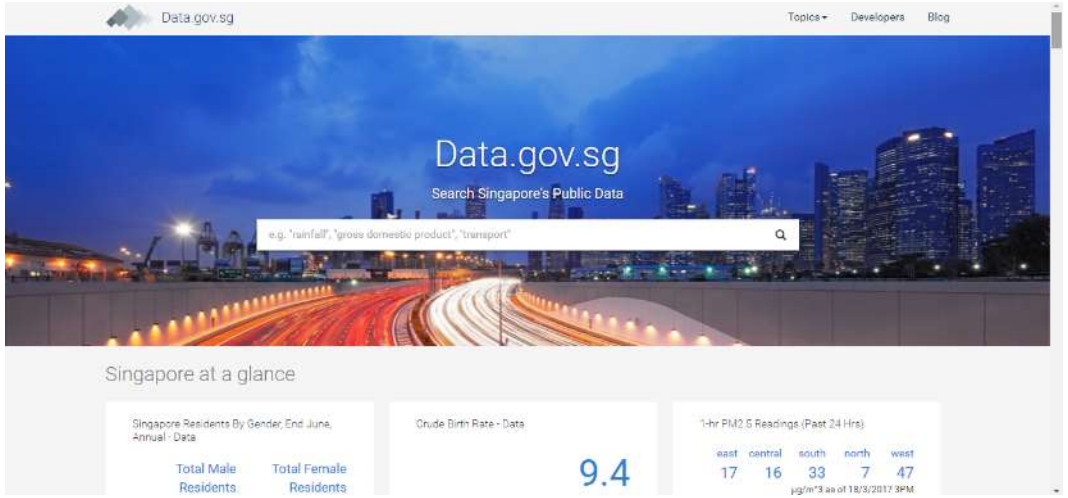
©SLA 2017

3 Key Enablers towards a Smart City



©SLA 2017

Open Data Policies & Platforms

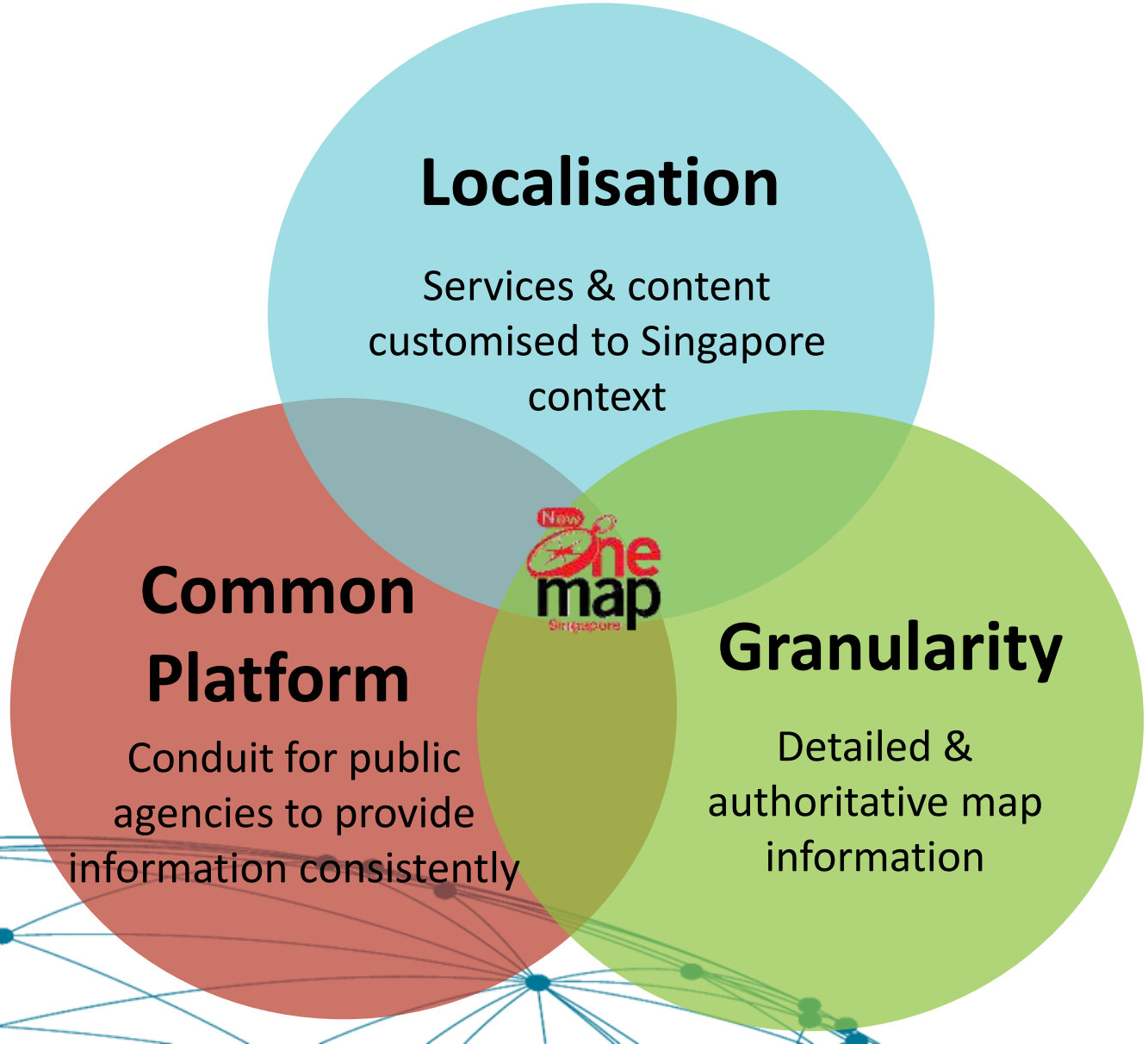


New OneMap Singapore

Data Sharing Principles Guiding Agencies in Open Data Efforts		
1. Easily accessible	3. Released in a timely manner	5. As raw as possible
2. Made available for co-creation	4. Shared in a machine-readable format	

©SLA 2017

New OneMap – Infra for a Smart City

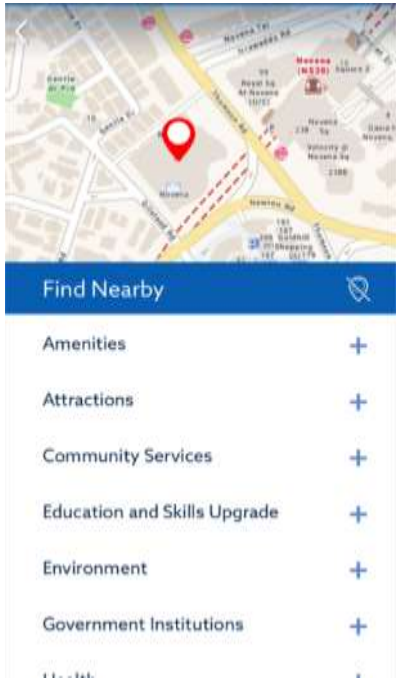


Datasets and Services available for Free via APIs & downloads

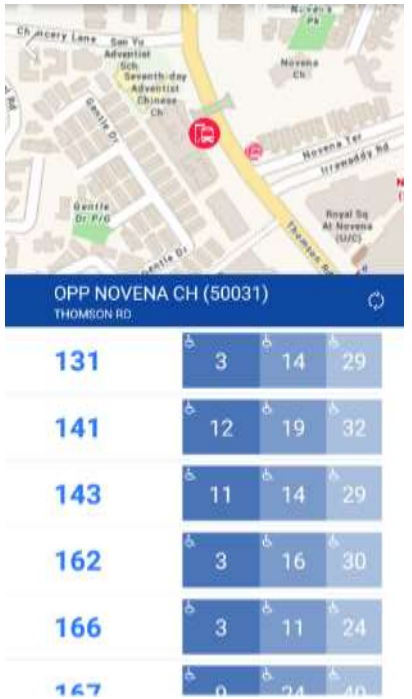
©SLA 2017

Value-Add thru OneMap Services

Journey Planner with Walking Route



Locate Nearby Amenities & Services



Bus Route Explorer

©SLA 2017

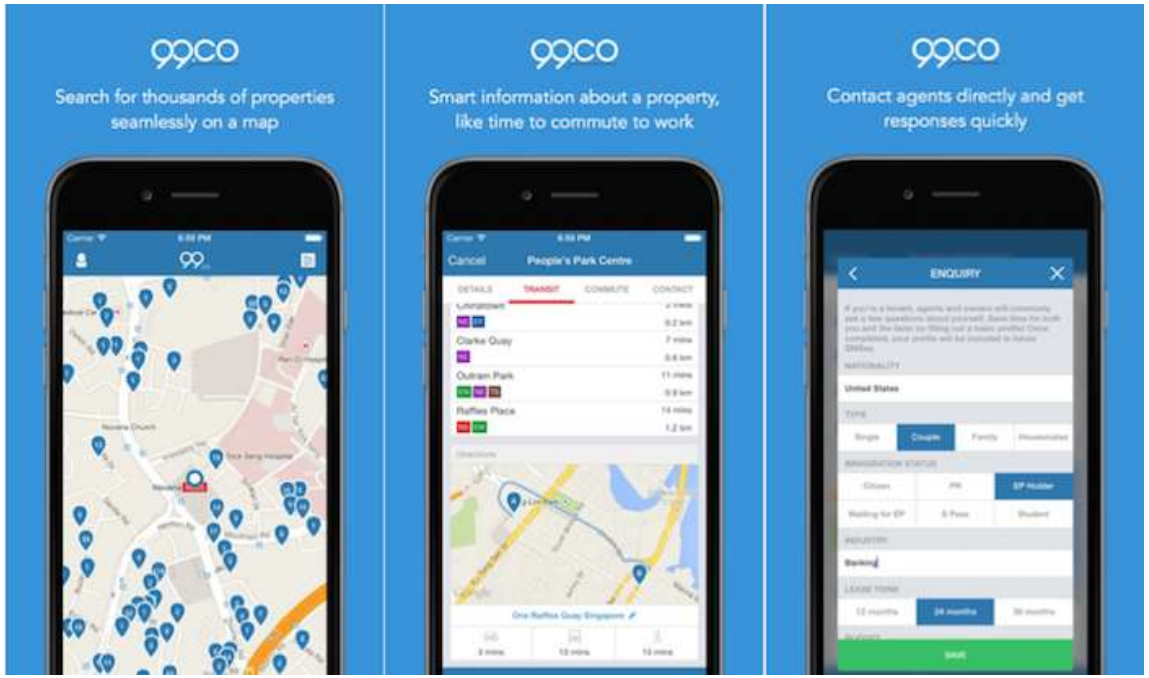
Linking Infrastructure to Innovation Mechanisms

©SLA 2017

Leveraging on Strengths of Communities

©SLA 2017

Joint-Solutioning for Co-Creation



GeoApps Optimizes Food Distribution for the Needy

Sunday, Jun 29, 2014

thesundaytimes

NEWS PREMIUM LIFESTYLE TECH COMMUNITIES VIDEO MULTIMEDIA MORE

SINGAPOLITICS | FIFA WORLD CUP HYUNDAI | asiareport | COMMUNITIES | READERS POST | ST

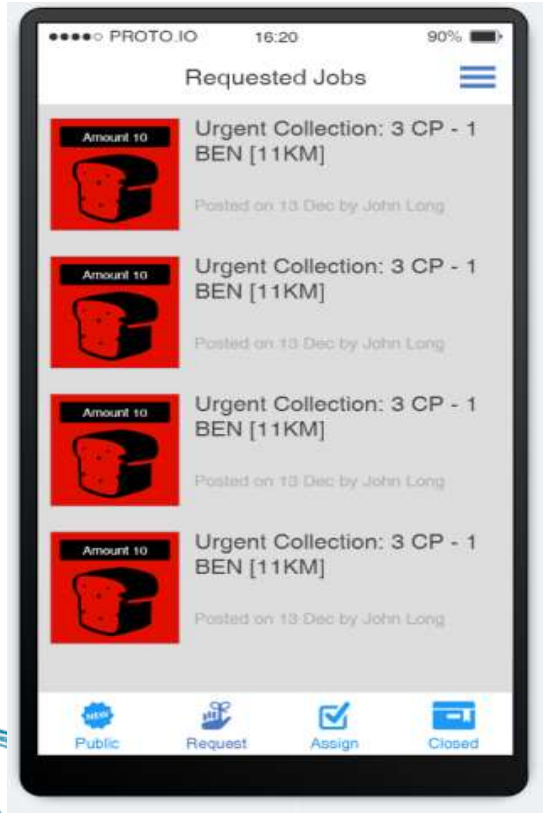
App fixes volunteer woes of Food from the Heart

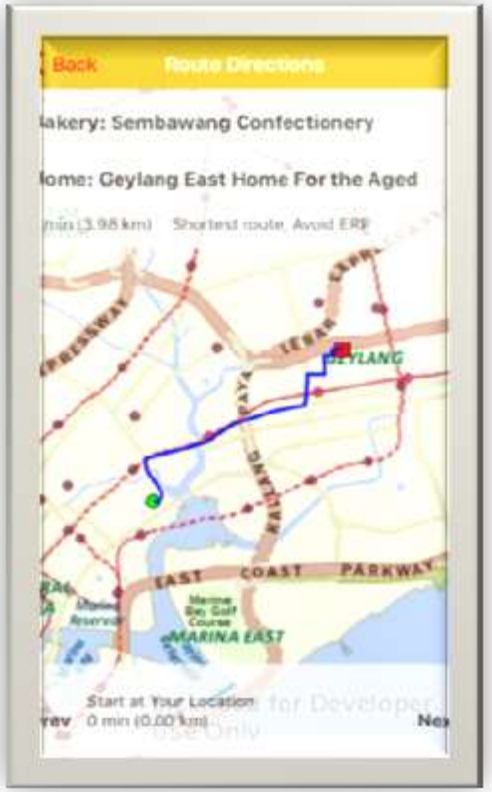
Mobile app's creators among 8 winners of contest on use of geospatial technology

PUBLISHED ON JUN 29, 2014 7:55 AM

(http://www.straitstimes.com/sites/straitstimes.com/files/20140629/ST_20140629_PGFOOD29_4489844e.jpg)

A group of five friends - (from left) Mr Leonard Yeo, Mr Rawwinton Tan, Mr Sivakumar Palaniappan, Ms Mabel Chew and Mr C.J. Lee - developed the app to help reallocate delivery routes to volunteers from Food from the Heart. It was one of eight winners at the GeoHackathon held earlier this month. -- PHOTO: UP SINGAPORE





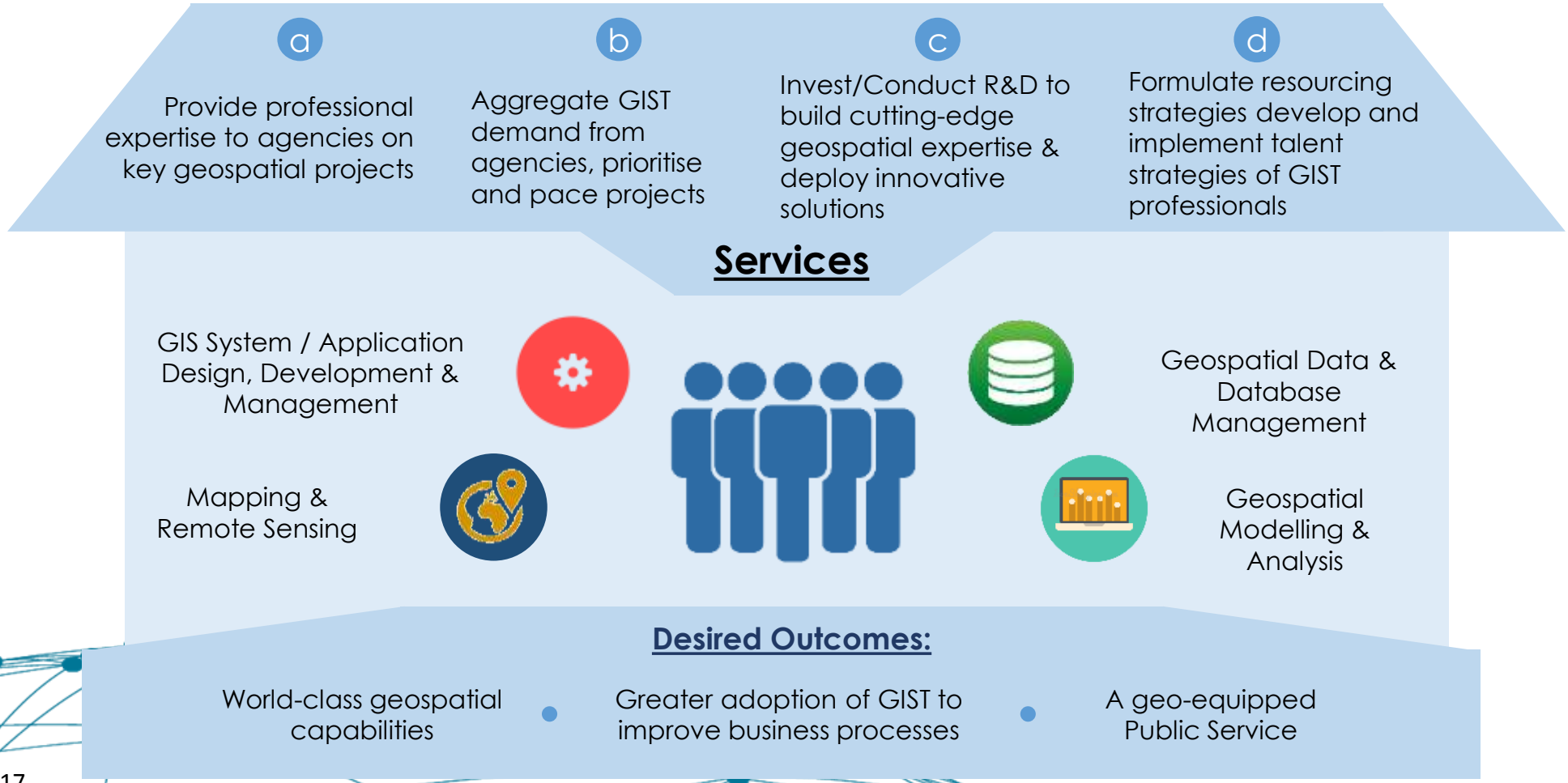
Establishing Key Knowledge Clusters

"We will need to make full use of ICT to ***improve business efficiency and public services****, and to protect our people and our country. We will establish Centres of Excellence for key engineering knowledge clusters….. We are in the process of establishing other* ***Centres of Excellence in geospatial information science*** *and cyber security."*

Teo Chee Hean
Deputy Prime Minister,
Committee of Supply, 2016

©SLA 2017

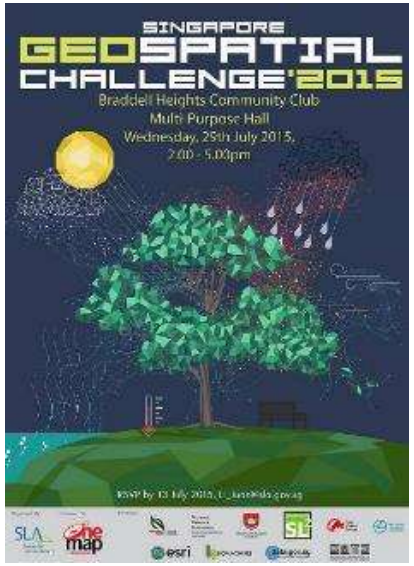
Deeping Geospatial Capabilities thru Geospatial Centre of Excellence



©SLA 2017

Restricted

Building Capacity & Education Pathways



NUS
National University of Singapore

Ministry of Education
SINGAPORE

NYP Nanyang Polytechnic

Towards a Possible Model for Urban Innovation

Transport | Home & Environment | Business Productivity | Health & Enabled Ageing | Public Sector Services

A Collaborative Effort

Industry | Government | Academia | Public

Open Data & Platform Infrastructure

Innovation Mechanisms

Capability Building

©S