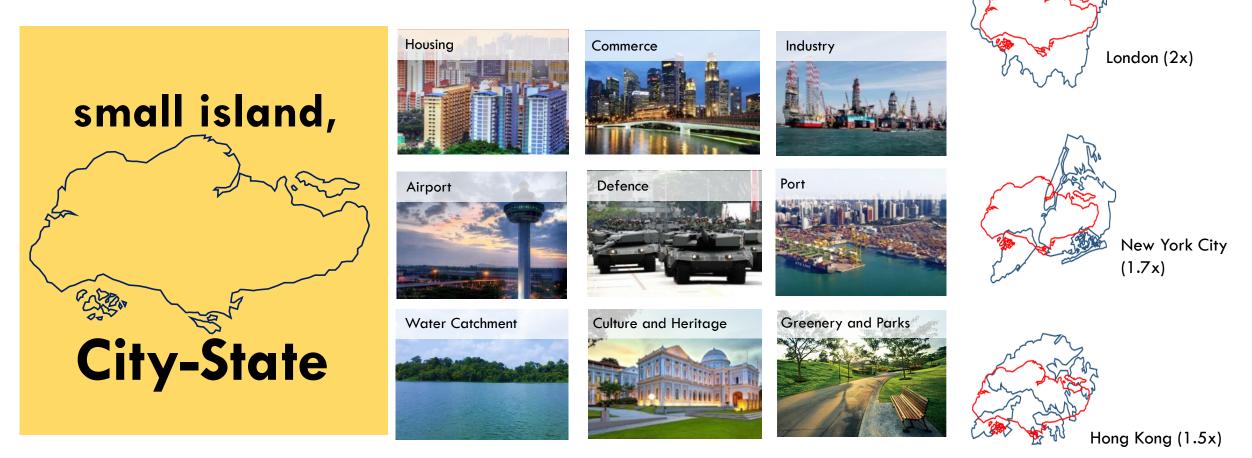




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Planning in Singapore

URA, as Singapore's urban planning authority, balances a multitude of needs in a small space.



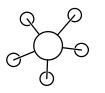


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Harnessing Data and Analytics – 3 Desired Outcomes



- 1. Data-driven insights for better planning decisions
 - Access and analyse data, and build internal analytics capabilities



- 2. Integrated, Whole-of-Government planning
 - Collaborate, share insights and enhance public sector service delivery



- 3. Enhance industry productivity
 - Provide information and services more effectively



Enabled by Digital Technologies





Data-Driven Insights

Using Demographic Data to Plan Healthcare Facilities for Seniors

Context

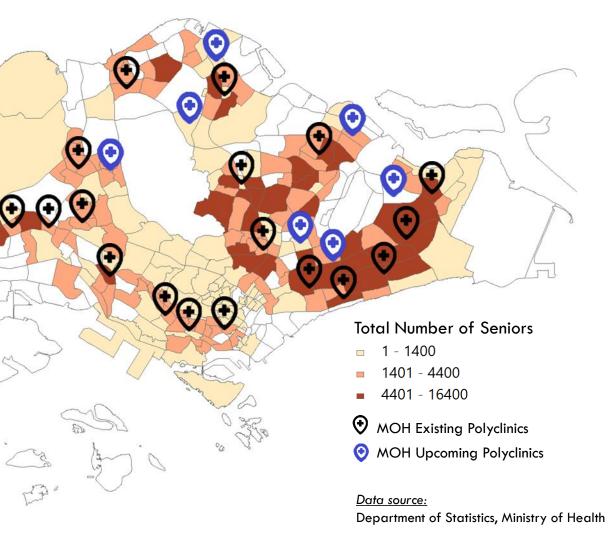
As the population ages, planners face growing challenges in right-siting, right-sizing and right-timing healthcare facilities.

Date-Driven Insight

Demographic information showed where larger numbers of senior citizens were concentrated. Taken together with locations of existing and upcoming polyclinics, it was found that most seniors live within 1.5km (<1 mile) from the closest polyclinic.

Planning Implication

More healthcare facilities will be needed in areas where more seniors reside further away from existing services, and where the population of seniors is expected to grow.





Data-Driven Insights

The "Park Score": Using Data Analytics to Plan Parks

Context

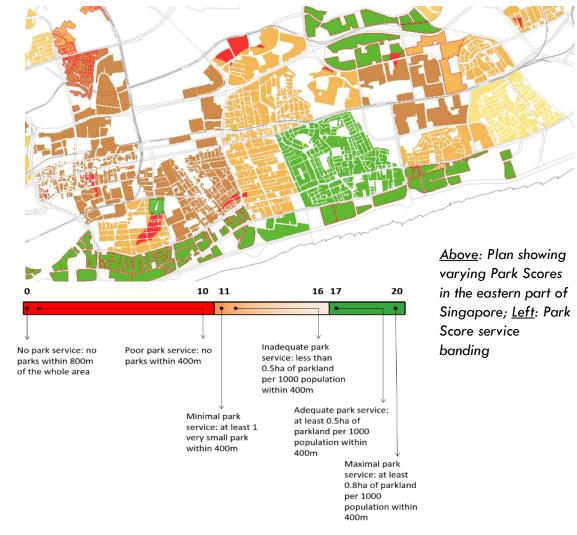
To achieve Singapore's "City in a Garden" vision, a planning target of 8sqm of park space per person/ having 90% of households within 10 minutes' walk of a park has been set. How can the siting of new parks be optimised?

Date-Driven Insight

A Park Score was created to measure park service levels across the island. The score takes into account <u>both</u> accessibility to parks and size of parks, giving more insight into how well areas are currently served.

Planning Implication

The Park Score provided a standardized way to understand the distribution of parks and prioritize new parks for implementation.





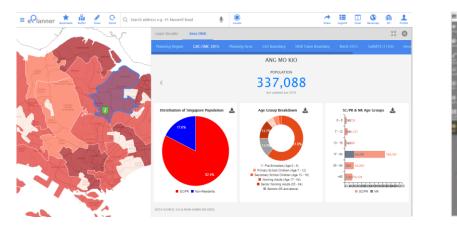
Data-Driven Insights

Supported by Digital Planning Tools

Suite of tools built in-house to support access to, and analysis of, data for planning.

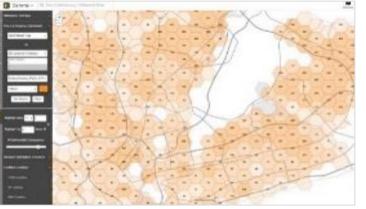
🭳 ePlanner

Provides planners with rich planning data for quick visualisation and analyses



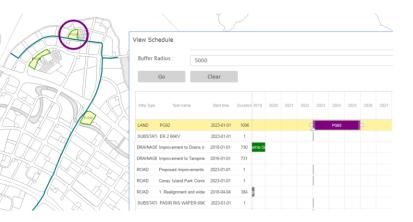
GEMMA

Brings planners from across agencies on a common platform to study land use scenarios together



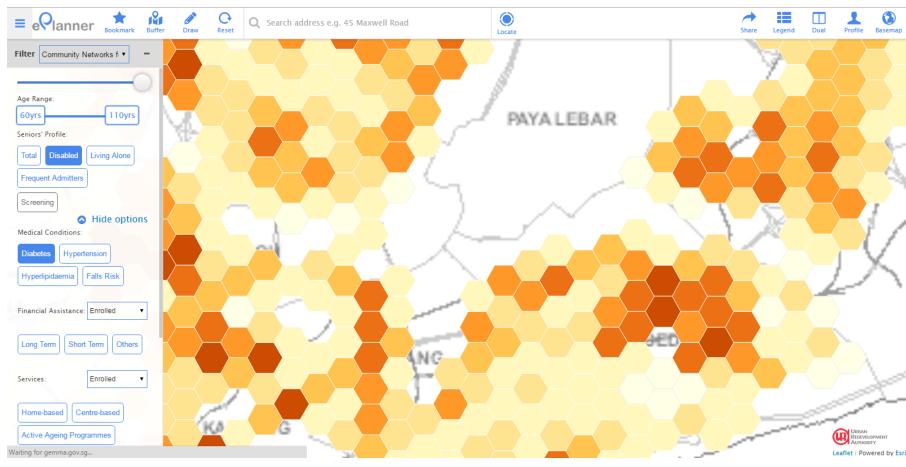
🕒 Urban Systems Dashboard

Allows planners to track the implementation progress of development and infrastructure





Formulating Targeted Interventions for Seniors



*Image for illustrative purposes only.

Working together with the **Ministry of Health,** an analysis of the needs of seniors down to the individual housing block level was carried out.

The resultant Community Networks for Seniors layer on **ePlanner** enables:

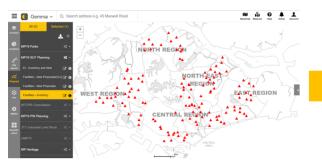
- Better planning and programming of facilities based on the community's needs
- Sharing of insights with grassroots and community groups



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Integrated, Whole-of-Government Planning

Using GEMMA for Social & Community Facilities



Step 1: Mapping existing inventory



Step 4: Consult and view multiple agencies' inputs



Step 2: Analysing demand & distribution



Step 3: Propose co-location with other facilities

GEMMA serves as a common platform for agencies to plan for social and community facilities (e.g. childcare centers, libraries, community clubs).

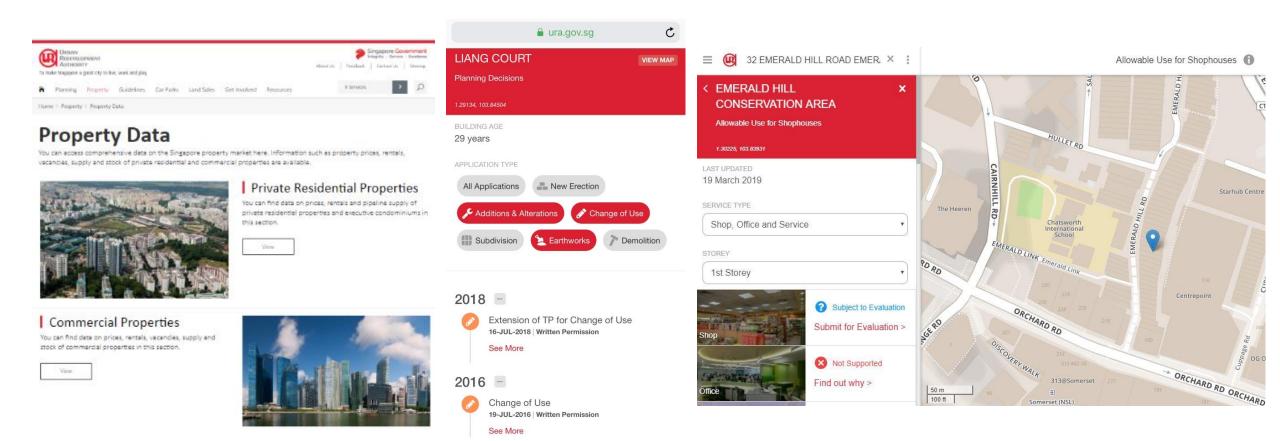
By accessing the platform, agencies are able to:

- View existing and planned facilities •
- Understand the demography of towns
- Use the in-built map editing tool to propose scenarios •
- Jointly evaluate scenarios and agree on locations for facilities.





Allowing hassle-free access to planning data and mapping services.



Online portals enable members of the public and industry professionals to search and view information more easily.



Five Final Points on Digitalization



Build strong data foundations

Policies and infrastructure for sharing, accessing and analyzing data



Adopt a systems approach Not piecemeal IT projects, but a systematic digitalization of processes



Drive adoption

Data analytics must always have a purpose; seek to turn insights into actions



Experiment Fast

Test assumptions, prototype, try things out



Learn from Each Other

Keep exploring with agencies and industry partners

