



Private Sector Enablers

The Business of Urban Solutions

New technological applications often stem from the commercial sector, but require collaboration with other players to make an impact. *Urban Solutions* looks at international examples of how cities adopt private sector innovations to improve transport infrastructure, boost environmental awareness, provide timely healthcare services, and support urban planning and policy formulation.



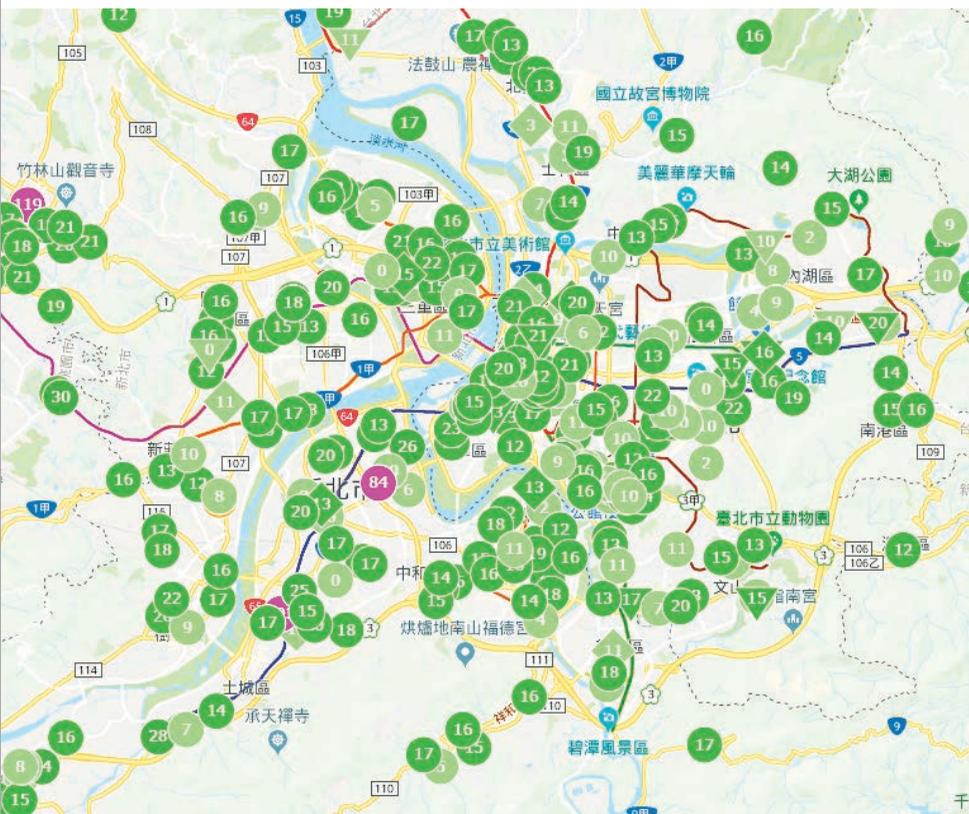
Reimagining Infrastructure for Commuter Comfort

Built by ST Engineering, the Airbitat Oasis Smart Bus Stop in front of Plaza Singapura mall in Singapore is the world's first next-generation smart bus stop. Overhead nozzles deliver cool and fresh air addressing urban heat and air pollution, with up to 70% energy savings compared to a conventional air conditioner with similar capacity. Computer vision and smart sensors analyse commuter traffic and waiting time, while digital panels display live updates of temperature and PM2.5 concentration levels.



Cloud Computing for Accessible Healthcare Services

Hewlett Packard Enterprise partners with state healthcare departments and local healthcare providers to implement cloud-enabled eHealth Centres in India. Located in remote areas, these centres are connected to the nearest hospitals through cloud computing, for patients to receive diagnostic tests and remote consultations free of charge. Since 2012, 94 centres have treated 525,000 patients in 18 Indian states, complementing the existing healthcare system with accessible primary healthcare services in resource-poor locations.



Monitoring Air Quality with AirBox

AirBox is an Internet of Things (IoT) air quality monitoring device that publishes real-time data on its cloud platform for public access through mobile or web. With sponsorship from the city government and Edimax, hundreds of AirBoxes were installed in public spaces and schools in Taipei to complement existing air quality monitoring stations.

The availability and transparency of air quality data has raised environmental awareness significantly and stimulated scientific discussion on air quality among the public. In schools, students have been taught to read air quality indices and even develop their own air quality sensors.

Optimising Sydney with Big Data

The Committee for Sydney used Mastercard's anonymised and aggregated payment transaction data to understand the city's night-time economy and how it compared with other global cities. The analysis helped the Committee to generate 22 recommendations to maximise the social, cultural and economic potential of the city at night, captured in a "Sydney as a 24-Hour City report".



	Sydney	London	Hong Kong	Berlin	San Francisco	Tel Aviv	Montreal	Melbourne
	77%	66%	67%	64%	67%	72%	79%	82%
	23%	34%	33%	36%	33%	28%	31%	18%

How does Sydney Compare to Global Cities?

	12%	–	37%	–	–	–	–	–
	2%	12%	–	–	–	–	–	–
	6%	14%	–	–	–	–	–	–
	27%	14%	–	–	–	–	–	–
	0.1%	3.8%*	–	–	–	–	–	–
	1.1%	–	–	2.5%**	–	–	–	–



Day & Night
% of Spend



Restaurant
& Bar



Apparel



General
Merchandise



Grocery &
Food Stores



Live Performance
& Entertainment



Misc Entertainment
& Recreation

* London's spending has grown 12 times in the past three years.

** Berlin's spending growth is twice of Sydney's in the past three years.





Cooling Islet for Climate Comfort

Paris is preparing for more frequent and severe heat waves, and one of the measures being piloted is the Cooling Islet developed by Climespace and ENGIE. Shaped like an urban tree with a crown as shelter and roots as benches, the biomorphically designed street furniture by architectural firm SETEC features a patented plug-and-play connection to the Parisian district cooling network that cools the seats, offering pedestrians a welcome respite in summer.