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# New app tracks school bus attendance

### Big convenience 'Each day I handle more than 100 phone calls from parents who ask me if their kid is on the bus, or why their

kid is not home yet. If parents use the app too, it would really save time for

MS SUSAN LEE, a bus company owner who uses the app



Twice, Max Liu's forgetful ways caused panic in his home and at school. The first time, he forgot to get on the school bus to go home. He was found playing in the garden of his school, Anglo-Chinese Primary. He was

The second time, just months later, he got on the bus when he had been told his mother would take him home. Today, the nine-year-old's absence or presence on the school bus is easy to detect, thanks to a smartphone app

The two incidents, which saw the

school's teachers joining in the frantic

search, drove Max's father, Mr Henry Low, 40, to develop the app that lets school bus drivers and parents track whether their children are on board. "Miscommunication and misinformation between parents and the drivers are more common than we think, but it is something parents don't think about until it happens to them," said Mr Low, a former product marketing

The app took eight months to develop, with help from his Shanghai-based business partner. The app runs on iPhone and Android mobile devices, with one version for drivers and anoth-

This is how it works: It generates a daily attendance sheet based on the children's bus schedules. The driver takes attendance by tapping against the A notification is sent to his parent's phone instantly. Parents will also be no-Baru to Singapore schools and back.

tified if their child is not on the bus, or is on the bus when he is not supposed to be. This extra feature is a precaution. "Drivers sometimes assume parents have gone to pick a child up when they don't see the child. Some parents don't 



Mr Henry Low with son Max, who inspired his father to develop the BusBuzz

too," said Mr Low, who studied business at the University of Tasmania and human factors engineering at Nanyang The app is available free on Apple and Google app stores. Users can also visit www.busbuzz.com to learn how to

use the app. Available in English, Chinese, Malay, Hindi and Thai, it has been downloaded by users in Singapore, Malaysia, Cambodia and Thailand, said Mr Low. There are plans to have it done in Tagalog and Japanese.

Bus Services, have started using the app. Said its owner, Ms Susan Lee: "My buses also ferry students from Johor "Each day I handle more than 100 phone calls from parents who ask me if their kid is on the bus, or why their kid is not home yet. If parents use the app too, it would really save time for us."

Some bus companies, like Century

# Shaping the urban future with high-tech planning today

The result should be a city that is more liveable and uses less resources, says MIT expert

## **David Ee**

One day, you will be able to sit back and relax as a robot car weaves through rush-hour traffic and drives you to work.

and it may even suggest that you avoid nasi lemak

It will even know of the jam along Lornie Road that it should avoid. As you enjoy the view, sensors on your body will help you monitor your health. Tap on your phone,

and have a low-salt lunch instead. "Smart" technologies such as these that promise to change the face of urban life as you know it are already being imagined by researchers, businesses and

Last week, the topic hogged discussions at the World Cities Summit

Such mobile apps and driverless cars already exist. Other technologies involve using powerful computer analytics to crunch down and make sense of masses of data from sensors, such as tiny microchips, closed-circuit television cameras and mobile phones, and social media.

Experts said that behind the high-tech gizmos is an ability to improve people's day-to-day lives. "The end result for people should be a city that is more liveable and uses less resources," said Professor

Carlo Ratti, principal investigator at the Singapore-MIT Alliance for Research and Technology (Smart), and director of the SENSEable City Lab at the Massachusetts Institute of Technology (MIT). Cities around the world are all readying plans to be-

Britain's Smart London Plan envisions a fu-Smart benefits ture where the entire "Think about

city's underground is how difficult it 3D-mapped, reducing was just a few the need for noisy roadyears ago to call works and excavations. In Copenhagen, the Danish capital with one of the highest cycling GrabTaxi makes rates in the world, a it much easier. smart bicycle has been de-Multiply that for veloped with sensors that send real-time inforevery dimension mation on air quality and traffic congestion to you will see an both riders and the au-

come smarter.

Brazilian city Rio de Janeiro is leading the way citizens, for how in some respects with its efficiently a city Operations Centre. This helped it win the

PROFESSOR CARLO RATTI top honour at the Smart to people uncertain of a City Expo World Consmart city's benefits, on gress in Barcelona, Spain, the lesson to be gained last year, edging out cit-GrabTaxi, which has beer ies like Berlin and Copenhelping to connect taxi

a taxi. Think

about how

incredible

change for

Developed with technology firm IBM, the centre's smart map analyses - under one roof – data from about 30 government agencies. It gives officials a bird's-eve view of information such as video feeds from subway stations and weather predictions.

All this has already helped them to respond faster to city-wide problems such as floods or power failures – it lowered emergency response times by 30 per cent. Singapore has also been no slouch in this area. In 2006, it launched its Intelligent Nation Masterplan, which aims to make the nation the world leader in harnessing infocomm technology for the economy

The country already has 86 per cent smartphone penetration, placing it top in a global survey last year. The Government's smart-city research cuts across all sectors, with a range of agencies all having a finger

In April this year, the Singapore Land Authority sent two light planes into the sky to map the entire island's topography in 3D over 40 days, using lasers and high-resolution cameras.

The map is expected to be ready by 2016, and national water agency PUB could use it then to model flood patterns and better manage them. The Civil Aviation Authority of Singapore could also use it to plan more efficient landing paths for jumbo jets.

Meanwhile, driverless buggies will be given a test run in Jurong Lake District later this year. Outbreaks of food poisoning could be nipped in the bud quicker in future too, if the National Environment Agency's research with IBM bears fruit. Their



computer models would alert officers if people comthe real decisions are being made based on facts." plained on social media of being sick after eating at a

Smart technology could even make public flats more windy, and hence cooler.

city-modelling system it is working on with French energy firm Electricite de France and environmental ser-

on the environment, resources and people. Among other things, it could enable HDB to design new housing blocks for ideal wind flow and help it plan cycling

where incidents happen and how to respond. It all comes down to the gathering of facts, said

vices firm Veolia. It is expected to be ready by the end The model simulates a city's sprawl and the impact zens to do so.

deployed faster and water leaks repaired more prompt- study. ly – all thanks to sensors and computers that assess

IBM's general manager for Smarter Cities, Mr Michael "While for generations, people have used experi-

in making decisions, we've now come to a point where World Cities Summit shared her view that smart tech-

Singapore, though, should not stand still but nurgovernments ture its start-up and "hackathon culture" further, sug-

Last Wednesday, the HDB unveiled a prototype of a and industry but by ordinary people too, he said. Senior Minister of State for National Development Lee Yi Shyan said in Parliament two weeks ago that the Government would try to share more data, for examies, Mr David Post. ple, through the Open Data initiative, to encourage citi-

> The initiative aims to make public more governthe box. You can put technology in place but... urban ment data to drive innovation. Since 2011, more than development is a human process. 130 apps have been created through this. These in-

thing, there are also voices calling for some balance. Professor Chan Heng Chee, chairman of the Lee much easier Kuan Yew Centre for Innovative Cities at the Singasearches cutting-edge urban solutions, told The Sunence, good judgment, education and certainly advice day Times that several delegates she spoke to at the

nologies may in turn create unrealistic expectations of

She said: "There are great strengths... but we should gested Smart's Prof Ratti. This is so that smart technolobe careful that it does not create the expectation of ingies and apps are created not just by the Government stant response. I think governments all over may find that not so easy to fulfil."

Any smart-city approach must also be inclusive, said IBM's executive manager for Global Smarter Cit-

"You have to get the vulnerable involved in the policy process," he said. "You can't solve inequality out of

Still, for people uncertain of its benefits, Prof Ratti clude The Great Singapore Rat Race, which visualises chose to remind them of taxi-booking app GrabTaxi, In future, trains could run extra smoothly, police be how starting pay varies with university and course of which since last year has been helping to connect taxi

> Amid the worldwide clamour for smarter every-"Think about how difficult it was just a few years ago to call a taxi. Think about how GrabTaxi makes it

drivers and commuters here more easily

"Multiply that for every dimension of your life and pore University of Technology and Design, which re-vou will see an incredible change for citizens, for how

