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Headline: Identifying, making sense of consumer patterns

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\$50m research projects will help businesses meet needs of customers

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TWO new research projects here, costing a total of \$50 million, aim to pull together the vast torrent of digital data left behind as consum-

ers shop and travel around.

By distilling this avalanche of data, the projects, launched yesdata, the projects, launched yes-terday, aim to equip retailers and other firms with a clearer picture of shoppers' likes, dislikes, and spending and travelling patterns. They will also focus on data such as video-watching habits. That, in turn, should mean con-

sumers and visitors here will get targeted information on where to go for the best buys and promo-tions as well as recommendations. Singapore is a test bed for

these pilot projects.
The research, funded by
StarHub, Singapore Management
University (SMU) and the National
Research Foundation, could lead to innovations and services that will be sold abroad.

Already, one early finding shows Canadians visiting Singapore tend to shop at Tanglin Mall.

Knowing this, the Orchard Road Business Association can tell members that the mall is the best spot to sell to Canadians.

The association worked with specialist software firm QlikView to study where shopping crowds

are gathering in Orchard Road. In another early finding, IBM Singapore studied travel patterns of train and bus commuters so urban planners can help locate new stores or new transport services.

They are both part of Smart-Hub, a three-year "big data" re-search project led by StarHub.

SmartHub was launched by Deputy Prime Minister Teo Chee Hean at SMU. He also launched LiveLabs Urban Lifestyle Innovation Platform, another big data research project. SMU's School of Information

Systems is undertaking this five-

year project.
"Big data" refers to the vast levels of data regular computers can-not handle. Illustrating this, Mr Teo said that in one minute, Google gets two million search queries while YouTube users up-load 48 hours of new videos.

Faced with this avalanche, businesses need help to identify and understand patterns, so that they can draw finer customer segments or develop new products and services more closely tailored to us-ers' needs, he said.

Singapore is well-suited to the research, with its robust intellecresearch, with its footst intellec-tual property regime, tech-savvy and well-educated population, and multicultural, cosmopolitan society offering cultural insights. Mr Teo said the research will in-

crease the quality and quantity of innovations in the interactive digital media space

While StarHub will focus on research on the use of big data for business use, SMU will focus on the technologies of efficiently col-

lecting and analysing data.
Initially, StarHub and SMU
will work with outfits such as CapitaMalls Asia, Nanyang Polytech-nic, Changi Airport and Sentosa

Leisure Group on their research.

A key part of the project is to build local expertise in big data an-

alytics. Mr Tan Tong Hai, StarHub's chief operating officer, said data scientists who understand human behaviour and sociology are needed to interpret the data collected. "We're short of data scientists,

and Singapore must not miss the boat to participate in big data be-cause it is crucial to the success of our businesses," said Mr Tan, who attended the launch.

Data collected for SmartHub will come from StarHub's mobile, pay TV, broadband and fixed phone line customers. SMU aims to collect data from 30,000 peo-

ple from next year.

Both organisations stressed that the information they collect will have personal details scrubbed out before it is analysed. The data received by research partners will contain only information such as

ages and places frequented. SMU's LiveLabs director Rajesh Krishna Balan said people will have to opt-in to get their da-ta collected. "Everything that our business partners need to do will have to go through LiveLabs. They do not have access to the da-ta. And only a few of my staff will have access to the data," he said. chngkeg@sph.com.sg