

October 2015

FACTSHEET

Data-Driven Innovation Challenge for Institutes of Higher Learning

Background

Singapore aims to be the world's first Smart Nation, with fuller use of technology to live, work and play, resulting in improved quality of life for individuals; business opportunities for enterprises and an anticipatory government that uses tech to better serve and anticipate citizens' needs. Citizens are also empowered through access to data, to be more participatory in engaging government, as well as businesses, to make more informed decisions and meaningful choices in their daily living.

The Data-Driven Innovation (DDI) Challenge for Institutes of Higher Learning (IHLs) competition was launched in June this year. Participating schools had four months to formulate ideas on how data can be innovatively used in dataset mashups to address or provide insights to key challenges faced by Singapore today. The objectives of the DDI challenge are to:

1. Encourage students to undertake DDIs as part of school work, away from competitive pressures of regular hackathons,
2. Provide opportunities for students to develop DDIs aligned with Smart Nation
3. To inculcate a culture of data literacy amongst students.

Submissions

The DDI submissions are **mashups that made use of at least two separate datasets**, with **at least 1 dataset** from the Data-as-a-Service (DaaS) platform.

The submissions fell under one of the following categories:

- a. Web or mobile application
Submission needs to be a working web or mobile application that is a prototype which can demonstrate key functionalities.
- b. Data Journalism
Submission needs to be an insightful article that includes charts, graphs or other forms of visualization that addresses a topic, issue, theme or tells a story.
- c. Data Gamification
Submission needs to be a working prototype which can demonstrate key functionalities of a game that uses datasets.
- d. Any output as a result of using DaaS datasets

A total of **16** submissions were received from 37 students across five IHLs (Singapore Institute of Technology, Singapore University of Technology and Design, Singapore Polytechnic, Temasek Polytechnic, and Nanyang Polytechnic.)

Challenge Format

The Challenge was split into 2 rounds. Round 1 was held at the IHL level, where competitions were held for students to create DDI as part of coursework team projects or outside-class projects. From these competitions, up to three teams were selected from each IHL.

These 10 shortlisted teams then proceeded to a final round where they presented submissions to a panel of judges on October 21. The top three winners were then announced on October 29 at CloudAsia 2015. IDA's Assistant Chief Executive Khoong Hock Yun presented the top three teams with the grand prizes.

Judging Criterion

The final judging panel included members from IDA, IHLs, industry partners, and supporting organisations such as the National Cloud Computing Advisory Council and Information Technology Standards Committee.

Student submissions were judged based on four key factors:

- (i) Innovation – how unique and interesting is the submission
- (ii) Impact, Potential, Sustainability – whether the submission bears an impact on business, social and economic activities etc
- (iii) Data Usage - Whether use of datasets is key to the submission
- (iv) Presentation – effectiveness and clarity of the submission presentation

Prizes

1. Round 1 prizes were sponsored by Amazon Web Services.

Round 1 winners received the following:

- a. 1st prize: Amazon Fire HD 7
- b. 2nd prize: Amazon Kindle PaperWhite
- c. 3rd prize: Amazon Fire TV

2. The grand prizes were sponsored by IDA.

The top three winners received the following:

- a. 1st prize: S\$3,000 cash
- b. 2nd prize: S\$2,000 cash
- c. 3rd prize: S\$1,000 cash

Top Three Winners:

1st Prize

Singapore Polytechnic

Submission title:

Project Check.Go.Earn

Names of team members

Adriel Lam Hoe Yan, 19

Lim Chee Xiong, 19

Brief description of submission:

Data journalism submission related to shopping malls. The team attempted to enhance the shopping experience for customers through an infographic presentation that leveraged on the shopping mall footfall data from DaaS.

2nd Prize

Temasek Polytechnic

Submission title:

Two-Pronged Approach to Smart Transportation in Singapore

Names of team members

Chan Shi Cong, 19

Ng Jia Min, 19

Brief description of submission

Data journalism submission related to public transport. The team demonstrated how DaaS's transport related datasets could be used to provide smoother ridership for commuters.

3rd Prize

Temasek Polytechnic

Submission title:

Silver Eye

Names of team members

Samuel Cheah, 19

Ashton Goh, 20

Ng Ying Xian, 20

Brief description of submission

Web mobile application for eldercare. The team's concept of Elderly Overwatch System, a monitoring solution to ensure effective care-giving, was powered by the elderly activity analysis data in DaaS.

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