

Annex A: Additional information on PUB Splash Lab finalists

INNOVATIVE SOLUTION CATEGORY

**Note: Consolation prizes are in no order of merit*

Prize	Team	About the project
1 st Place \$3,000	Quest Saga Singapore Polytechnic <i>Cheam Zhi Kai, Lim Cai Ying, Joseph Goh, Teo Wenxin, Lo Ho Tin</i>	Quest Saga is a mobile role-playing game (RPG) that aims to encourage families with kids to conserve and save water through interactive and fun gaming content. The RPG visualises Singapore in the year 2050, where climate change is at an all-time high with unpredictable weather and long periods of dry spells. Players are tasked to conquer monsters of various levels, powering up by answering questions on water saving tips. The game is complemented with an actual flowmeter set that measures the amount of water used per showering session, promoting water-saving habits within households.
2 nd Place \$2,000	Draint Temasek Polytechnic <i>Arifin Salleh</i>	In the span of a year, every person spends roughly 172,800L of water due to us leaving the water tap turned on while we are washing the dishes. It is the most negatively impactful overall household water consumption as it consumes the second highest amount of water yearly. Draint was designed to solve this issue by encouraging a change of user habits over time, tracking water consumption while we are washing our dishes. With functions to prevent water wastage, Draint will ensure massive water savings over the long term.
3 rd Place \$1,000	Our Blue Garden Ngee Ann Polytechnic <i>Ian Lee Yi-en, Lee Suer Er, Madihah Asaad, Sophia Ang (Hong Wei Si)</i>	Students from NP's Diploma in Environmental & Water Technology have been conducting Learning Trails at Sungei Ulu Pandan since 2013. The programme creates awareness about the Singapore Water Story, the four National Taps and the role of ABC Waters Management. Our Blue Garden designed a website as a green initiative to replace the hard-copy learning trail booklets, allowing easy access using mobile devices. This digitisation initiative allows anyone to experience the ABC site at Sungei Ulu Pandan on their own as the world adapts to a 'new' normal.
Consolation Prize \$500	Novel Green Sponge Ngee Ann Polytechnic <i>Ong Jing Jie Marcus, Pearlyn, Hsu Pei Xun, Ong Hui Min Jessica</i>	Novel Green Sponge (GS) is a filter medium for bioretention (ABC) systems using locally available materials. The high water-holding capacity of GS allows it to detain stormwater and prevent floods. The detained water will then be purified naturally (preventing algae blooms) and released slowly, such that every drop is collected, ensuring water sustainability for Singapore. GS addresses the impact of increased rainfall intensity

		and dry spells, while reducing greenhouse gas emissions using biochar and preventing their release due to eutrophication as a result of algae blooms.
Consolation Prize \$500	DOS-TAP Nanyang Polytechnic <i>Jeremy Yasin, Clayton Ng Kuan Kit, Shajesh Raja Naran</i>	The DOS-TAP is a smart tap attachment that turns any existing faucet into an automatic-sensor water tap. When installed at residential homes, the tap also notifies homeowners through an app if the tap is leaking, or if there is a need to change its battery. Automatic sensor taps help to save water by reducing overuse and carelessness at home.
Consolation Prize \$500	FLO Nanyang Polytechnic <i>Amir Zaky Ismail, Clara Lim Hwee Suan, Eugene Choo Shao Jun, Kenrick Law Lezz Haen</i>	FLO is a product targeted at children to cultivate good showering habits via an interactive app (ShowCon) that tracks the amount of water being used during a shower session. It allows the user to set water usage goals and alerts the user when too much water is being used. FLO is shaped like a flower and sends a message that mimics nature. As more water is being used in the shower, the product reacts – light slowly fades off to replicate the effect of a flower losing its petals, while water distribution becomes intermittent and a buzzer alerts when the goal is reached.
Consolation Prize \$500	Water Break Nanyang Polytechnic <i>Mohamed Khairul Bin Mohd Ali, Syafiqah Aiffah Binti Sahri, Hsu Che Wei</i>	The Water Break is an external universal attachment that helps reduce water usage and cultivate good water habits in children. This device trains them to use a certain volume of water for their daily tasks at the sink to avoid water wastage. It allows the child to open the tap easily and closes by itself over time.
Consolation Prize \$500	E-Trap Temasek Polytechnic <i>Marylyn Yap Fan Qianzi Ong Wee Wen</i>	E-Trap reuses water that is used to wash hands to flush toilets. It is fully autonomous and has a mobile application which informs users on their water savings, thus increasing awareness and instilling discipline. Water from the wash basin goes to a tank, where it is filtered and sanitised using UV light. Water is then pumped to the reservoir where water is distributed for flushing. The E-Trap application then records the total amount of water saved and notifies the user for filter replacement.
Consolation Prize \$500	JI-MAT Temasek Polytechnic <i>Nur Zahidah</i>	JI-MAT is a device that learns and records users' shower habits, and encourages positive showering habits through music and visuals. During a shower, JI-MAT regulates water pressure and temperature over time, complemented with scenic visuals and music on an LED screen. Once JI-MAT learns that the user is in the shower for too long, it quickens the tempo of music, pushing the user to shower faster.

PUBLIC CAMPAIGN CATEGORY

**Note: Consolation prizes are in no order of merit*

Prize	Team	About the project
1 st Place \$3,000	#itstartswithme Temasek Polytechnic <i>Wee Tong Lin Eva, Wong Kar Wai Naomi Abigail, Kandakumar Harshitha Smruthi L, Rachel Rui-Qi Castaneda, Sim Theen Yen, Teng Yu Xuan Fiona</i>	#itstartswithme empowers Singaporean youths to start a conversation about water conservation. The campaign stars Singaporean girl Sammy, who educates her followers about dry spells and uses real-life scenarios to demonstrate the importance of water conservation and raise youths' consciousness of their own water usage. She then shares more about how youths can have conversations about water, through an interactive, socially-led approach. Click here to find out more: https://www.instagram.com/itstartswithsammy
2 nd Place \$2,000	Water Warriors Republic Polytechnic <i>Lee Suan Hui, Genevieve Lee Pawathra Pauwai D/O G Sarkunan, Silvia Chew Zi Wei, Lim Kia Yee</i>	Water Warriors is a learning package that aims to educate four to nine-year-olds about rising sea levels. As inheritors of the world, children are our future and have the power to help save a submerging Singapore and defeat the villain Water Waster – this is done via a microsite that serves as a one-stop centre for all their resources (e-Books, mission videos, colouring templates etc), easily accessible for parents and their children. Click here to find out more: https://waterwarriorsrpdmc.wixsite.com/waterwarriors
3 rd Place \$1,000	Aqua Princesses Republic Polytechnic <i>Tan Fong Ling Jessica, Lya Neo, Nadia Begum Nainish, Zuilan Rica Yna Marie Macol, Shaleenaa Bte Shaifuldeen</i>	As a small low-lying nation, with 30% of our land lesser than 5m above sea levels, it is now or never - we have to take action fast. Aqua Princesses made use of stop-motion animations and pop art to bring the threat of rising sea levels to life on social media. Together with their mascot, Sadie the Seal, the team engaged in virtual escape rooms, giveaways and bite-sized factoids on Instagram to educate youths on these issues. Click here to find out more: https://instagram.com/thewatercalls
Consolation Prize \$500	Beyond a Drop Ngee Ann Polytechnic <i>Ang Tze Yu, Eunice Oh, Kwong Jia Qi, Nicole Wang, Soh Richie</i>	Beyond a Drop aims to demonstrate to youths the severity of water scarcity and encourage them to conserve water. “Beyond a Drop” signifies how individual efforts to save water can accumulate to something more when everyone plays their part. This was done through a range of video content, interactive treasure hunts, spotify playlists and pledges hosted on a microsite. Click here to find out more: https://tinyurl.com/beyondadrop

Consolation Prize \$500	Our Water Conversation Ngee Ann Polytechnic <i>Michelle Low, Isabelle Hong, Natasha Lee, Ivy Thom, Muhamed Syazriel</i>	Our Water Conversation is an interactive marketing campaign targeted at youths aged 15-24. They aim to raise awareness, engage and spark conversations about dry spells and water, through interactive content that is relatable and shareable to youths. The team complemented social media outreach with sharing sessions and interviews, encouraging youths to advocate and share about water sustainability with their peers. Click here to find out more: https://ourwaterconversation.wixsite.com/home
Consolation Prize \$500	WaterWorks Ngee Ann Polytechnic <i>Alif Izwan Harris, Chloe Goh Jing Yu, Hing Pei Jie, Tahirah Sarbudeen, Sarah Ng Si En</i>	WaterWorks seeks to effectively educate young children via simple lessons and fun activities about dry spells in the early years of primary school education. Through a vibrant animation style hosted on a microsite, the team designed a Water Wally hero, inspiring children to emulate his water conservation habits. The use of simple animation across all the deliverables and learning materials made the topic of water conservation lighthearted and understandable to children, helping teachers better engage them in such lessons. Click here to find out more: https://beawaterwarrior.wixsite.com/waterworks
Consolation Prize \$500	Sky Limited Nanyang Polytechnic <i>Ng Zheng Kang, Nigel Yeo, Ng Guan Wei, Peter Goh</i>	Sky Limited aims to pique interest and spark conversations around rising sea levels. This was achieved through a sci-fi themed campaign outreach comprising apocalyptic video depictions of future Singapore being flooded, and how individual lifestyles are affected. Accompanied by informative social posts, the team highlights the immediacy of the climate change crisis, and urges their audience to exercise water saving habits before it is too late. Click here to find out more: https://www.instagram.com/team_sky_limited/
Consolation Prize \$500	The Parched Planet Republic Polytechnic <i>Chelsea Lorraine Fonseka, Joshua Calvin Paul, Chang Shan Ming, Lew Huai Qing, Gajeto Alyssa Joy Decafe</i>	The Parched Planet is an informative social media channel that aims to educate the public on how our water supply has evolved over the years. Through a variety of static and animated visuals, the team demonstrates how we can tackle climate change through daily water saving habits. Click here to find out more: https://www.instagram.com/theparchedplanet
Consolation Prize	The Rising Shadow Singapore Polytechnic	The Rising Shadow is a campaign by SP students to educate Singaporean youths on the danger of rising sea levels in Singapore.

\$500	<i>Oh Tien Cheng, Tang Xin Ying, Tan Yue Kai Ivan, Cheong Yuan Rong, Ng Yan Fei</i>	This campaign shows youths how rising sea levels could personally affect their lives, urging them to take action against climate change. The team created social media posts to engage youths, screened educational videos in schools, and sought help from teachers and family to spread the word online and offline. Click here to find out more: https://www.instagram.com/therisingshadow.sg
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