

Press Release
For Immediate Release

Cyberport Academy Co-organises inaugural CAFEA Young Talent Smart City Forum Exploring the Development of Smart Campuses with Over 80 Secondary School Students Displaying New Smart Lifestyle Proposals

Hong Kong, 16 July 2021 – The **inaugural CAFEA Young Talent Smart City Forum** organised by Cyberport community member CAFEA Smart City Limited and co-organised by Cyberport Academy was held on 15 and 16 July at Cyberport campus. 25 teams formed by more than 80 secondary school students devised and presented in academic articles and brief demonstration their innovative proposals for smart cities. Three winning teams are selected by the judging panel. All projects are compiled into the Forum Submission Achievement Summary and Proceedings published on the forum. Representatives from the HKSAR Government, academia, the technological industry and the business world shared insights on the development of smart cities and smart campuses in the panel discussion sessions.

25 Teams Devising New Proposals for Smart Cities

To encourage students to unleash their creativity in combining scientific and technological knowledge acquired from school, projects and academic articles on smart city proposals were collected from local secondary schools. 25 teams consisting of over 80 secondary school students entered the final stage. **Christine Yip, Founder of CAFEA Smart City Limited**, said: "International metropolises are emerging into smart cities, hoping to use technology to enhance the quality and convenience of public services and eradicate problems arising from resources efficiency, pollution, food safety, energy efficiency, health, environmental sustainability and so on. Smart campuses are exemplars of the smart education system as well as microcosms of smart cities, allowing students to think, create, apply and realize innovative ideas. We are honored to host this forum with Cyberport Academy, which enable us to fulfill our social commitment in nurturing the younger generation for the betterment of Hong Kong."

Shortlisted projects cover various areas, with many being inspired by school life, for example, school cafeterias, libraries, health education, history learning, invigilation system etc. There are also projects that leverage technology to solve broader social issues, such as marine pollution, promotion of hydroponics in urban cities, indoor environmental quality. Three winning teams were selected by the judging panel, composed of key figures in the government, academia and the technological industry.

Peter Yan, Chief Executive Officer of Cyberport, said: "Innovation and Technology is essential in building a liveable smart city. It also has to be people-oriented. In this forum, we can better understand how our young generation wants the smart city development to be and their vision. They are also encouraged to turn their innovative ideas into real-life applications with the I&T knowledge acquired from classrooms. They are nurtured to be I&T talents with solid knowledge and practical experience, and then contribute to the

development of our future's smart city."

The Chinese Foundation Secondary School's 'AISight: An AI-powered Object Detector for the Visually-impaired', and 'LyncPlant: An AI Computer-visioned Plant Health Monitoring System for Farmers and Gardeners' teams shared the **Most Innovative Project Award**. The latter said, "Despite all benefits, hydroponics involves complicated procedures and high production cost, holding farmers back from adopting the new technology. Therefore, we combined the technology of artificial intelligence and drones to train LyncPlant in automatically identifying crops conditions, including yellowing, bugs damage and so on. We believe the invention is effective in reducing farmers' workload and raising public awareness on local agriculture."

Rosaryhill Secondary School's 'How Can Virtual Reality (VR) Enhance Students' Learning Experiences in History Subject?' won the **Best Academic Article Award**. The winning team said, "We are excited that our study receives recognition. History is an essential subject that allows us to learn from the past and gazing into the future. With Virtual Reality, students can deepen their history knowledge in a more concrete way while those with learning disability can also be taken care of."

The Chinese Foundation Secondary School's 'AISight: An AI-powered Object Detector for the Visually-impaired' also won the **Best Demonstration Award**. The winning team said, "The visually-impaired relies mainly on sense of touch to learn about their surroundings. With serious outbreak of COVID-19, it is risky for them to do so. Therefore, we invented the AISIGHT smart glasses which could analyze the visuals captured by the lens using AI technology and give instant alert through the built-in Bluetooth earphones to help the visually-impaired understand the surroundings and avoid potential dangers. We hope the product will be recognised by the government so that outdoors can also be safe to more than 170 thousand visually-impaired persons in Hong Kong."

Interactive Development of Smart Cities and Smart Campuses

Two seminars on 'Smart Cities and Smart Campuses' were hosted in the forum. Speakers include: Tony Wong, Deputy Government Chief Information Officer of the HKSAR Government; Henry Lin, Chief Curriculum Development Officer (Technology Education) of the Education Bureau; Tung Keung Chiang, Managing Director of CLP Power Hong Kong Limited; Raymond Choi Wai Man, General Manager (Customer Services) of the Hong Kong Electric Co., Ltd.; Edward Au, Managing Partner of Deloitte China Southern Region; Prof Joe Dong, technical panel chair of the forum; Peter Yan, Chief Executive Officer of Hong Kong Cyberport Management Company Limited, and Christine Yip, Founder of CAFEA Smart City Limited.

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Appendix 1: List of award-winning teams of the 1st CAFEA Young Talent Smart City Forum

Winning secondary school	Winning project title	Project brief
Best Academic Article Award		
Rosaryhill Secondary School	How Can Virtual Reality (VR) Enhance Students' Learning Experiences in History Subject	In-depth proposal on the innovative use of Virtual Reality equipment, such as head-mounted display (HMD), external sensors, sensor-gloves and 360-degree rotating chair, in learning History subject to promote 'Smart Campuses'
Most Innovative Project Award		
The Chinese Foundation Secondary School	AI Sight: An AI-powered Object Detector for the Visually-impaired	Smart glasses featuring built-in camera and Bluetooth earphones for weather and potential dangers identification with shock and water resistance to build an inclusive society for the visually-impaired.
The Chinese Foundation Secondary School	LyncPlant: An AI Computer-visioned Plant Health Monitoring System for Farmers and Gardeners	Solar-powered AI model, equipped with sensors for soil temperature, humidity and CO ₂ concentration as well as automatic drones, to monitor plants' health condition and to boost local agriculture.
Best Demonstration Award		
The Chinese Foundation Secondary School	AI Sight: An AI-powered Object Detector for the Visually-impaired	Smart glasses featuring built-in camera and Bluetooth earphones for weather and potential dangers identification with shock and water resistance to build an inclusive society for the visually-impaired.

For high resolution photos, please download via this [link](#).



Peter Yan, Chief Executive Officer of Cyberport (middle) and Christine Yip, Founder of CAFEA Smart City Limited (fifth left), taking a photo with the winning secondary school students. He says, "In this forum, teenagers are encouraged to turn their innovative ideas into real-life applications with the I&T knowledge acquired from classrooms. They are nurtured to be I&T talents with solid knowledge and practical experience, and then contribute to the development of our future's smart city."



Devised by 25 teams formed by more than 80 secondary school students, the new proposals for smart cities are compiled into the Forum Submission Achievement Summary and Proceedings, and are published on the forum.



Christine Yip, Founder of CAFEA Smart City Limited; Tony Wong, JP, Deputy Government Chief Information Officer of the HKSAR Government; Tung Keung Chiang, Managing Director of CLP Power Hong Kong Limited and Prof Joe Dong, technical panel chair of the forum sharing on the topic of ‘Smart Cities and Smart Campuses’.



Prof Joe Dong, technical panel chair of the forum; Henry Lin, Chief Curriculum Development Officer (Technology Education) of the Education Bureau; Raymond Choi Wai Man, General Manager (Customer Services) of the Hong Kong Electric Co., Ltd.; Edward Au, Managing Partner of Deloitte China Southern Region, and Peter Yan, Chief Executive Officer of Hong Kong Cyberport Management Company Limited sharing on the topic of ‘Smart Cities and Smart Campuses’.



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About Cyberport

Cyberport is an innovative digital community with over 1,650 start-ups and technology companies. It is managed by Hong Kong Cyberport Management Company Limited, which is wholly owned by the Hong Kong SAR Government. With a vision to be the hub for digital technology thereby creating a new economic driver for Hong Kong, Cyberport is committed to nurturing a vibrant tech ecosystem by cultivating talent, promoting entrepreneurship among youth, supporting start-ups on their growth journey, fostering industry development by promoting strategic collaboration with local and international partners, and integrating new and traditional economies by accelerating digital transformation in the public and private sectors.

For more information, please visit www.cyberport.hk.