

ASTRI E-Newsletter Jan-Apr 2023

ASTRI



Establishment of “Smart Mobility Technology (C-V2X) Alliance”



ASTRI announced the establishment of the “Smart Mobility Technology (C-V2X) Alliance” (SMTA), to enhance the Smart Mobility ecosystem in Hong Kong, fostering more collaboration amongst industry, academia and research on Smart Mobility and related technologies, and facilitating Hong Kong in the deployment of C-V2X technology and infrastructure, that will help Hong Kong to become an exemplar of Smart City.

Mr. Lam Sai-hung, Secretary for Transport and Logistics, as well as experts and industry leaders from academic and Smart Mobility sectors, got together to witness the establishment of SMTA. “Digital Economy Summit – Smart Mobility Forum” was also held to share about initial achievements made in technology and its future development, and discuss challenges of C-V2X applications in Hong Kong and its solutions, and issues such as commercialisation in autonomous driving.

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TECH FOR IMPACT

ASTRI showcases Hero Technologies at the first-ever InnoEX 2023



ASTRI participated in the first-ever InnoEX Exhibition from 12 to 15 April 2023 at HKCEC, demonstrating a range of Hero technologies (HeroTech) aligned with the Expo's theme of “Connecting the World with Innovations for Better Living”.

During the exhibition, Professor Sun Dong, Secretary for Innovation, Technology and Industry, visited ASTRI's booth to experience ASTRI's smart mobility C-V2X technology and recognised ASTRI's efforts in promoting the implementation of R&D outcomes. In addition, our experts also attended various forums, panel discussions and seminars to share their insights on latest technology trends and showcased our R&D achievements in Smart City Development. Apart from the local and international VIPs and industry leaders, we were pleased to receive a significant number of enquiries from students and youngsters who wish to learn more from our R&D experts.

The HeroTech showcased at InnoEx included:

- C-V2X Technology
- Easy 5G solution
- Federated Learning
- HoneyNet - Early Cyber Threat Hunting & Analysis Network
- Natural Language Processing
- Privacy-preserved Sensing
- 3D Integrated Circuit Platform
- Third-generation Semiconductor / Direct Current & Circuit Breaker

ASTRI Technovation Centre Launch to Promote Collaboration Between Academic and Research Sectors



ASTRI held a launch ceremony of the ASTRI Technovation Centre (ATC) today, providing an I&T collaboration platform among the government, industry, academic and research sectors to showcase leading R&D outcomes from Hong Kong.

Ms Lillian Cheong, Acting Secretary for Innovation, Technology and Industry, as well as leaders who have immense contributions to R&D in Hong Kong and have obtained great achievements in academia, including Professor Alexander Wai, President of HKBU; Professor Rocky Tuan, President of CUHK; Professor Sham Mai-har, Vice-President (Research) of CUHK; Professor Christopher Chao Yu-hang, Vice-President (Research and Innovation) of PolyU; Professor Michael Tse, Associate Vice-President (Strategic Knowledge) of CityU; Dr Shin Cheul Kim, Associate Vice-President and Development (Knowledge Transfer) of HKUST; and Professor Anderson Shum, Associate Vice-President (Research and Innovation) of HKU.

They showed support and attached great importance to the direction of enhancing the I&T ecosystem advocated in the “Hong Kong I&T Development Blueprint”, jointly facilitating a closer connection between upstream, midstream research to downstream markets in the ecosystem.

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ASTRI and Ecosystem Partners Share Cutting-edge 5G Technologies at Mobile World Congress Barcelona



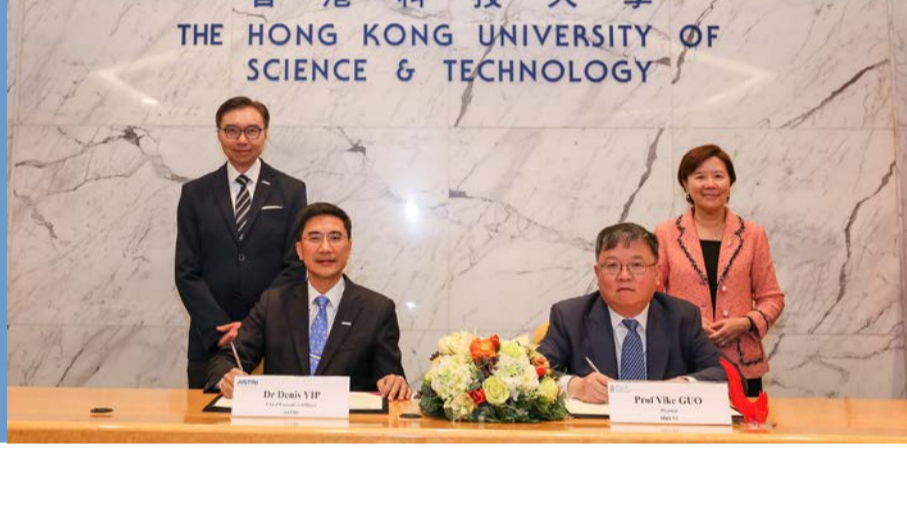
ASTRI, together with ecosystem partners Anktion (Fujian) Technology Co., Ltd., Astella Technologies Limited, n-hop technologies Limited, and Peng Cheng Laboratory, showcase the latest 5G applications and innovations with the theme “Intelligent 5G, Beyond Connectivity” at the Mobile World Congress (MWC) Barcelona 2023 from 27 February to 2 March.

During the event, ASTRI and ecosystems partners showcase various cost-effective, cutting-edge 5G technologies, enabling corporates to enter the market quickly for rolling out 5G for public, private or vertical market applications using Easy 5G. Our “5G + Industrial Internet” supports use cases such as smart factories, power grids, mining, smart transportation, which will enable factories in realising Industry 4.0 transformation towards fully 5G connected factories. We are actively engaging with different local and global partners to commercialise and apply 5G network solutions currently.

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ECOSYSTEM & UNIVERSITY TECH TRANSFER

ASTRI and HKUST jointly launch the first part-time doctoral student work program to cultivate scientific research talents and improve the innovation and technology ecosystem



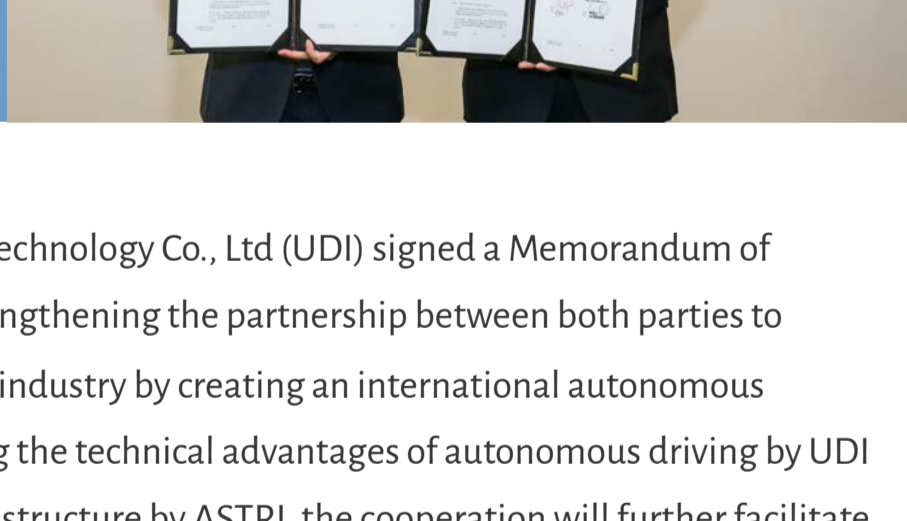
ASTRI and the Hong Kong University of Science and Technology (HKUST) signed a Memorandum of Understanding (MoU) on 31 January 2023 to launch their first Joint PhD Program. Dr. Denis Yip, Chief Executive Officer of ASTRI and Prof. Yike GUO, HKUST Provost signed the agreement at the HKUST campus, witnessed by Ir. Sunny Lee, BBS, JP, Chairman of ASTRI Board of Directors and Professor Nancy Ip, President of HKUST.

Under the agreement, ASTRI and HKUST will jointly perform screening and selection work of the candidates. Qualified ones will be employed by ASTRI as full-time R&D staff and pursue a part-time PhD degree in HKUST at the same time. The candidate has the opportunities to participate in frontier research projects spanning artificial intelligence, big data, wireless communications, smart city and advanced materials, as well as R&D projects related to their PhD studies. Senior R&D staff in ASTRI may be appointed as adjunct professors of the HKUST and serve as a co-supervisor to the PhD student.

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PARTNERSHIPS

ASTRI and UDI Signed MoU to Jointly Promote Autonomous Driving Industry Development in Hong Kong

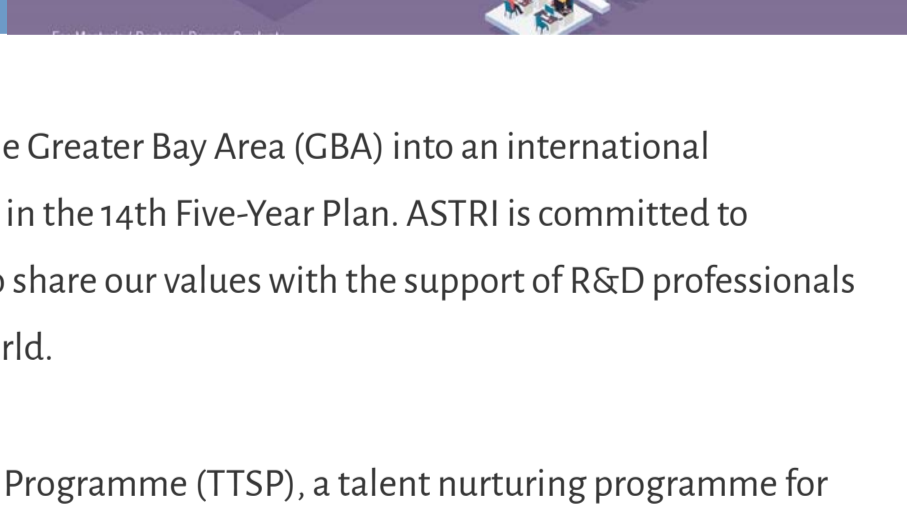


ASTRI and Shenzhen Unity-Drive Innovation Technology Co., Ltd (UDI) signed a Memorandum of Understanding (MoU) on 18 January 2023, strengthening the partnership between both parties to jointly promote the local autonomous driving industry by creating an international autonomous driving application market. By complementing the technical advantages of autonomous driving by UDI and the R&D capability in smart mobility infrastructure by ASTRI, the cooperation will further facilitate the deployment of smart mobility technologies and enhance the ecosystem of Smart mobility in Hong Kong.

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NUTURING TALENTS

Top Technology Scholar Programme



ASTRI actively supports the development of the Greater Bay Area (GBA) into an international innovation and technology (I&T) hub outlined in the 14th Five-Year Plan. ASTRI is committed to nurturing research talents into innovators who share our values with the support of R&D professionals from Hong Kong, China, and the rest of the world.

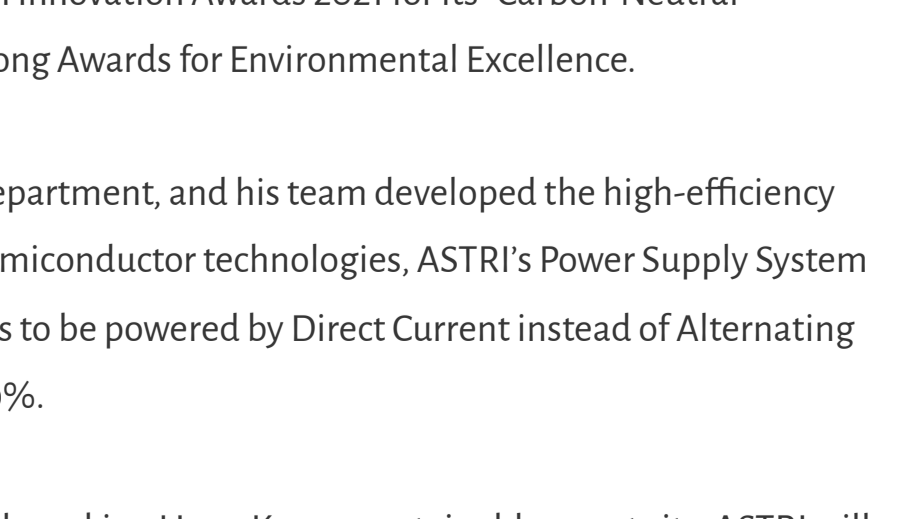
ASTRI has created the Top Technology Scholar Programme (TTSP), a talent nurturing programme for Master's and Doctoral degree graduates. This two-year programme designed to provide the right candidates with inspiring on-the-job trainings from senior leaders and opportunities to participate in significant R&D projects. By unleashing their potential, the programme aims to develop future innovator who can contribute to the advancement of the I&T sector. The programme also offers a guaranteed promotion, salary increment, and a wide range of experiences to the successful candidates.

ASTRI welcomes motivated, future R&D leaders from all over the world to join organization to help position Hong Kong as a world-class, technological innovation hub.

[More Information](#)

RECOGNITIONS

Hong Kong Green Innovation Awards 2021



ASTRI has been awarded the Hong Kong Green Innovation Awards 2021 for its “Carbon-Neutral Building Power Supply System” at The Hong Kong Awards for Environmental Excellence.

Dr River Li, Director of the ASTRI's ICS/SPES Department, and his team developed the high-efficiency power system. By utilising third-generation semiconductor technologies, ASTRI's Power Supply System for Carbon Neutral Buildings enables buildings to be powered by Direct Current instead of Alternating Current, reducing electricity usage by 5% to 20%.

This transformation is a significant step towards making Hong Kong a sustainable smart city. ASTRI will continue to innovate and develop new technologies for a sustainable future.

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