Siemens launches STEM program to get students digital-ready

- Siemens equips students with the digital mindset to tackle urban challenges brought by megatrends
- Program comprises sharing from Siemens digital experts and a four-day experiential learning event, prompting students to create a greener and smarter campus

Siemens Limited (Siemens) partnered with Yew Chung International School Hong Kong (YCIS) to promote the advancement of STEM education among students in an initiative under the Business-School Partnership Program established by the Hong Kong General Chamber of Commerce.

Being at the forefront of digital transformation, Siemens once again took part in a school program to nurture digital talents of the next generation and build a smarter tomorrow. “It has been exciting for us to step up our initiatives in the field of STEM education and bring these disciplines to life in the classroom. This program prompted students to envision how they could leverage digitalization for a smarter and more resilient Hong Kong, especially at a time of profound and disruptive transformation. Along with the insights from our digital experts, it provided an invaluable opportunity for students to explore latest technologies and rethink the school of the future. I very much look forward to supporting these great minds that hold the potential to transform the everyday in the future.” said Erdal Elver, President and CEO of Siemens Limited.

Spanning from March to June, the program featured a series of events consisting of tech talks and experiential learning. The highlight goes to a four-day experiential
learning event during June 7-10 under the theme “The School of the Future”. Using their school as the outset of their digital journey, students were formed in groups and acted like startups to explore how smart innovation can navigate the challenges of learning under the new normal. Two scenarios were given to students focusing on digitalizing their classroom and making school facilities adaptable. Upon completion of their projects, feedback was also provided to enrich their experience on developing a viable solution with technologies.

Before kicking off the experiential learning event, two tech talks from Siemens experts were hosted for both students and parents. Through diving into some of the latest technological trends, the session offered participants a glimpse into the life of an engineer and illustrated how innovations are brought to life through value co-creation.

Apart from the mentioned collaboration, Siemens has long been dedicated to grooming local digital talents. In partnership with VTC, Siemens sponsored HKD 2.5 million to empower students through seamless STEM career development on advanced IoT. Moreover, the establishment of Smart City Digital Hub has been serving as an open lab for talents to develop their digital portfolio and co-create smart city solutions with startups, SMEs, business partners and academia.

“STEM has been incorporated in our Project-based Learning (PBL) approach in our Secondary and Primary schools. It is a great experience for our students to participate in this STEM program to learn from a global technology leader. The series of events, especially the four-day Experiential Learning Week not only enriched the students’ knowledge in the digital trend and the technological innovation in coping with various difficult situations, but also enhanced the students’ curiosity and enthusiasm in the latest technology. It perfectly matches with our school motto “to align with science and technology”. We look forward to more collaborations with Siemens in the near future.” said Mr. Andrew Finn, Western Co-Principal, Yew Chung International School (Hong Kong) – Secondary.

“Through encouraging students to reimagine their learning experience, this program allows students to create their innovative ideas and inspire them to tap into the potential of data through technologies. Beginning with developing small innovations for their school, the digital mindset that we instilled not only enables our younger
generations to stay ahead in the digital race but also inspires them to think bigger and fosters ingenuity that goes beyond their campus and benefits our future society. As a trusted partner of Hong Kong, we are incredibly proud to create another rewarding journey in support of the Hong Kong Government's Smart People vision.' said Erdal Elver.

Two winning teams are entitled to the Innovation Award while an 'Innovator’s Box' is distributed to each participant to enrich student's digital journey.

The experiential learning event culminates with a pitching session where YCIS students present their innovative ideas on “The School of the Future”.
About Siemens

Siemens AG (Berlin and Munich) is a global technology powerhouse that has stood for engineering excellence, innovation, quality, reliability and internationality for more than 170 years. Active around the world, the company focuses on intelligent infrastructure for buildings and distributed energy systems and on automation and digitalization in the process and manufacturing industries. Siemens brings together the digital and physical worlds to benefit customers and society. Through Mobility, a leading supplier of intelligent mobility solutions for rail and road transport, Siemens is helping to shape the world market for passenger and freight services. Via its majority stake in the publicly listed company Siemens Healthineers, Siemens is also a world-leading supplier of medical technology and digital health services. In addition, Siemens holds a minority stake in Siemens Energy, a global leader in the transmission and generation of electrical power that has been listed on the stock exchange since September 28, 2020. In fiscal 2020, which ended on September 30, 2020, the Siemens Group generated revenue of €57.1 billion and net income of €4.2 billion. As of September 30, 2020, the company had around 293,000 employees worldwide.

In 1911, Siemens opened its first sales office in Hong Kong. Since then, the company has committed to being a trusted technology partner and providing innovative solutions in Hong Kong & Macao. Siemens has provided integrated solutions for infrastructure development projects, including power substations for CLP Power in Hong Kong and CEM in Macao; cranes drives modernization for Hong Kong’s Port; and building solutions for Tai Kwun in Hong Kong and City of Dreams in Macao. Powered by Siemens Advanta, Smart City Digital Hub was also setup to unlock the potential of digitalization in 2017. Further information is available on the Internet at www.siemens.com.hk.
西門子推行 STEM 計劃，引領學生迎接數碼未來

• 西門子啟發學生創意思維，以應對大趨勢所帶來的城市挑戰
• 計劃包括西門子數碼專家的分享環節，以及為期四天的體驗學習活動，引領學生
建立一個更環保的智慧校園

西門子有限公司（西門子）透過參與香港總商會推行的商校合作計劃，與香港耀中國際學校（YCIS）攜手合作推動 STEM 教育。

西門子多年來致力於數碼轉型，積極勇於創新。有見及此，西門子再次走進校園培育未來的數碼人才，為香港邁向智慧城市作好準備。西門子行政總裁艾偉先生表示：「我們很高興透過是次計劃加快香港 STEM 教育的步伐，並將我們的專業知識帶入校園。這項計劃鼓勵學生運用數碼化的潛力，讓香港在這個瞬息萬變時期發展成一個更具適應力的智慧城市。除了透過我們數碼專家的分享外，此計劃亦為學生提供了寶貴的學習體驗，讓他們探索科技及重塑校園的智慧未來。我非常期待薈萃這些創新思維，為前途無可限量的年輕人提供支援，以創新我們的每一天。」

此計劃於三月至六月期間舉行，涵蓋了科技講座和體驗學習等活動。其中的重頭戲是「明日校園」為題的四天體驗學習，於六月七日至十日期間舉行。學生分成小組，以他們的學校作為出發點，並代入初創企業的角色，探討如何利用創新科技幫助學校應對新常態下的挑戰。活動囊括兩大主題，分別為課室數碼化學習和提高校園設施的靈活性。完成項目後，西門子為每組學生提供專業意見，以豐富他們的學習體驗，並讓學生了解如何利用科技發展可行的智慧方案。

西門子有限公司

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在正式展开体验式学习活动前，西门子为学生和家长举办了两场科技讲座。透过讲解最新的科技趋势，讲座不但让参加者了解工程师的日常工作，亦展示如何透过价值共创让科融入生活。

除了上述合作外，西门子亦一直致力培育本地的数码专才，早前为职训局学生提供价值港币250万元的持续物联网培训及职业发展。此外，西门子亦设立了智慧城市数码中心，中心采取开放式实验室的设计，除了协助专才开发他们的数码方案，亦提供平台他们让初创企业、中小企、商业夥伴和学术界共同建立智慧城市解决方案。

耀中国际学校（中学）外籍校长范安德表示：「STEM已融入我们中小学的『专题学习模式(PBL)』中。对于我们的学生来说，能够参加这次STEM活动，並向全球科技领导先驱学习，绝对是难能可贵的经历。这一系列活动，尤其是为期四天的体验学习，不仅增强了学生对数位化趋势的了解，亦提高他们以科应对此种困难的能力，更重要的是增添了学生对创新科技的好奇心和热诚，这与我们校训『与科技结盟』完美契合。我们热切期待在不久将来与西门子开展更多合作。」

西门子行政总裁艾伟先生表示：「这个计划鼓励学生利用科技提升自身的学习体验，并以此发挥数据的庞大价值。我们希望先从校园引入细微的创新理念，透过体验学习促进他们的数位思维，目的不仅让我们的年长一代在数位竞赛中持续领先，更可将他们的创造力及潜能在校园以外，造福未来社会。作为香港值得信赖的合作夥伴，我们很荣幸能再次踏上这具意义的旅程，为促进香港政府的智慧市民愿景作出贡献。」
是次體驗學習特設「創新科技大獎」予兩大勝出的隊伍，而每位參賽者亦會獲得「創科錦囊」，以豐富學生們的數碼歷程。

體驗學習的亮點為學生的提案環節，圖為耀中學生介紹他們以「明日校園」為題的創新方案。

**傳媒聯絡**
西門子有限公司
鄭惠心
電話：+852- 2870 7872
電郵：samantha.cheng@siemens.com