

EDUCATION BUREAU CIRCULAR MEMORANDUM NO.203/2023

From: Secretary for Education

To: Heads of Primary and
Secondary Schools

Ref.: (3) in EDB(CD/MA)/4060/8(1)

Date : 2 November 2023

Smart City Project Programme 2023/24

SUMMARY

The purpose of this circular memorandum is to invite primary and secondary schools to participate in the “Smart City Project Programme 2023/24” (SCPP) organised by the Education Bureau (EDB).

DETAILS

2. The EDB organised the “Smart City Project Programme” in the 2017/18 and 2018/19 school years with active participation and positive feedback from schools. The EDB will re-organise the programme in this school year (2023/24), enhancing the elements on the smart use of credible and authentic data. The EDB will also collaborate with other government departments, tertiary institutions and professional organisations to organise a variety of activities for teachers and students to deepen students’ understanding of smart city.

3. All primary and secondary schools are welcomed to participate in the events of SCPP, which include seminars, workshops, visits for both teachers and students, and online quizzes and project learning activities for students. Selected student projects will also be showcased in a Joint-school Smart City Project Exhibition to celebrate students’ learning outcomes.

4. In view of the accelerating development and wide application of the next generation information technology and our country’s achievement in the development of digital economy, SCPP 2023/24 not only continues to focus on the development of a smart city, but also enhances the elements on the smart use of credible and authentic data in society so as to nurture students’ data literacy to strengthen students’ capability in the applications of Mathematics and respond to the policy measures outlined in the

Chief Executive's 2023 Policy Address. Through the project, it is expected to promote students' exploration of how to keep Hong Kong grow as a smart city of our country and the world from mathematical and interdisciplinary perspectives.

5. Students may participate in the SCPP by joining the Joint-school Smart City Project Exhibition (JSPE) and the online Smart City Knowledge Challenge (SCKC). The details of the JSPE and SCKC are as follows:

Joint-school Smart City Project Exhibition (JSPE)

6. Students can demonstrate their smart use of credible and authentic data in society to keep Hong Kong grow as a smart city through completing a project with themes related to smart city. There are Primary (P.4 – P.6), Junior Secondary (S.1 – S.3) and Senior Secondary (S.4 – S.6) categories. Each school can nominate a maximum of FOUR teams to join the JSPE. Please refer to Annex 1 for details of the JSPE.

7. Interested schools are required to submit the application form and online nomination form (Annex 2 or 3) by **1 December 2023 (Friday)**, and the project proposals (Annex 4) by **4 January 2024 (Thursday)**.

8. A first-round selection will take place, and the results will be announced by **31 January 2024 (Wednesday)**. The selected teams may proceed to work on their projects, and are required to submit a detailed report and the products, if any, of their projects by **9 May 2024 (Thursday)**.

Smart City Knowledge Challenge (SCKC)

9. SCKC is an automatically graded online multiple-choice quizzes related to smart city. All students from local primary and secondary schools are encouraged to take part in the online SCKC to broaden their horizon and enhance their awareness of how technological advancements such as big data and artificial intelligence could support sustainable development in a smart city.

10. There are Junior Primary (P.1 – P.3), Senior Primary (P.4 – P.6), and Secondary (S.1 – S.6) categories. Students are required to login the SCKC platform with their HKEdCity accounts when participating in the activity.

11. The SCKC is scheduled to be launched in April 2024. More details will be

provided in due course.

BRIEFING SEMINAR

12. To provide schools with details of the SCPP, the EDB will hold an online briefing seminar on 17 November 2023 (Friday). For details of the seminar, please visit the EDB Training Calendar System (Course ID: CDI020231430).

13. To help teachers and students acquire the knowledge related to smart city, training programmes such as seminars, workshops and visits on themes related to smart city, such as data literacy and sustainable developments, will also be organised for teachers and students. Details of the SCPP as well as the related seminars, workshops and visits will be updated regularly on the SCPP 2023/24 website: <https://www.edb.gov.hk/en/curriculum-development/kla/ma/res/sa/smartcity.html>.

Teachers and students are encouraged to check the SCPP 2023/24 website regularly for the latest updates of the Programme. Given the limited capacity, priority will be given to (1) teachers and students whose proposals are selected in the first-round selection, and (2) teachers and students who participate in the JSPE, to enrol in relevant training programmes.

14. Interested schools to participate in the JSPE should complete and return the enclosed application form and online nomination form (Annex 2 or 3) and return it to the Mathematics Education Section, EDB by email (email address: smartcity2023@edb.gov.hk) on or before **1 December 2023 (Friday)**.

ENQUIRY

15. For enquiries, please contact Mr TSANG Yu-man at 2153 7466 or Mr LEE Kin-sum at 2153 7456.

CY LEE
for Secretary for Education

cc: Heads of Sections – for information

Smart City Project Programme 2023/24 Details of the Programme

1. Introduction

The programme mainly comprises the Joint-school Smart City Project Exhibition and the online Smart City Knowledge Challenge under the theme “Smart City”, as well as a series of teachers’ training courses, students’ workshops, and visits. All primary and secondary schools of Hong Kong are invited to nominate student teams to join the programme to work on projects on smart city. For details of smart city, schools can refer to the following website of the Office of the Government Chief Information Officer: <https://www.smartcity.gov.hk>

2. Objectives

The programme aims at enabling students:

- to understand the latest development of smart city, and the relevance of the six “Smart Areas”, namely “Smart Mobility”, “Smart Living”, “Smart Environment”, “Smart People”, “Smart Government” and “Smart Economy”, to our daily lives;
- to broaden their horizon and enhance their awareness of how technological advancements such as big data and artificial intelligence could support sustainable development in smart city;
- to further develop the knowledge and skills in organising, manipulating and analysing credible and authentic data in society so as to develop their data literacy;
- to integrate and apply the afore-mentioned knowledge and skills to explore innovative ways of how the ideas of smart city can be implemented at home, school, community or city level;
- to recognise the positive impacts of the development of Hong Kong as a smart city on our country’s development; and
- to share and exchange ideas, and celebrate learning outcomes through the Joint-school Smart City Project Exhibition.

3. Joint-school Smart City Project Exhibition (JSPE)

3(i) Main themes of the projects in the JSPE

- Schools should prepare projects for the exhibition based on the theme of the six “Smart Areas”, namely “Smart Mobility”, “Smart Living”, “Smart Environment”, “Smart People”, “Smart Government” and “Smart Economy”.

- The exhibits for all categories should demonstrate the smart use of credible and authentic data in society.

3(ii) Details

A. Categories

- Primary (P.4 – P.6)
- Junior Secondary (S.1 – S.3)
- Senior Secondary (S.4 – S.6)

B. Content

- The project should involve an enquiry study on how the ideas of smart city can be implemented at home, school, community or city level. It should include a proposal on how to respond to a daily-life issue via the development of “Smart Mobility”, “Smart Living”, “Smart Environment”, “Smart People”, “Smart Government” and “Smart Economy”, with an emphasis on how credible and authentic data in society would be appropriately used.
- The project for final submission should contain concrete suggestions on how the proposed ideas can be implemented. This project can be presented in the form of workable products, prototypes, models, video, computer presentation, or equivalent.

C. First-round selection

- Interested schools are required to complete the application form and online nomination form (Annex 2 or 3) on or before **1 December 2023 (Friday)**, and submit a project proposal (Annex 4) on or before **4 January 2024 (Thursday)**.
- The proposal should not be more than 1 A-4 sheet with font size 12 in single line spacing, and should contain the theme, title and a brief introduction of the project.
- Schools will be informed of the first-round selection results on or before **31 January 2024 (Wednesday)**. Students of the selected teams will be invited to join various training programmes such as workshops and visits for equipping themselves with the knowledge and skills for completing their projects. These programmes are scheduled to take place between February and April 2024.

D. Second-round selection

- Teams passing the first-round selection will be required to submit a detailed report of its project study on or before **9 May 2024 (Thursday)**. The study should include:
 - the objectives and the scope of the study,

- method(s) used in the study,
 - how credible and authentic data in society are used to formulate the rationale of the project,
 - a brief description of how the proposed ideas are implemented, and
 - a part which help other students understand more about smart city and/or the project, such as reflections on the problems faced during the learning process and the solutions, possible way forward of the project, etc.
- The report should demonstrate how the final product works. The report can be presented in a variety of formats including, but not limited to, written report, computer presentation, video (in the format of MPEG-4), end product, prototype or software programme. Reports in digital format should be stored in suitable mobile device (USB drive is preferable) for submission. The length of the project would be comparable to the maximum time an adjudicator spent on studying each project. The time will be:
 - 10 minutes for the “Primary” category;
 - 15 minutes for the “Junior Secondary” and “Senior Secondary” categories.
 - All teams that can submit their project reports by the deadline will be awarded “Certificate of Appreciation”.
 - A panel of adjudicators which comprises scholars in tertiary institutions, experts in smart city, principals and teachers, and government officials, will select shortlisted projects in each category separately to receive the “Outstanding Smart City Project Awards” and “Good Smart City Project Awards”.
- E. The exhibition cum prize-presentation ceremony
- Teams with “Outstanding Smart City Project Awards” and “Good Smart City Project Awards” will be invited to join the JSPE which is scheduled tentatively for July 2024. Simultaneously, a prize-presentation ceremony will be held in the JSPE.

3(iii) Rules and regulations


- The project must be designed and completed by a team of **FOUR students**. Each student can participate in one team only. Each school can nominate a maximum of **FOUR teams** of students to participate in the programme.
- Participating schools will be responsible for the production costs of the project. Cost limit of each project is HK\$5,000.
- The project report can be written either in English or Chinese. For verbal version, Cantonese, English or Putonghua can be used.

- The design of all projects must be original and should not infringe on the copyright of any third parties. All sources of information quoted in writing must be explicitly acknowledged. The EDB accepts no legal responsibility whatsoever in respect of any copyright issues.
- Presenting work completed by others (including works generated by AI tools), in part or in whole, as one's own work is generally referred to as plagiarism. Participating school may be liable to disqualification from the competition if plagiarism is proven.
- The Adjudication Panel has complete discretion in relation to all matters concerning scores and award. In all aspects, the Panel shall be the final arbiter.

3(iv) Application deadline

1 December 2023 (Friday)

3(v) Schedule

Date	Important event
17 November 2023	Briefing seminar of S CPP 2023/24
1 December 2023	Nomination deadline for JSPE from schools
November – December 2023	Training programmes (Part I) including: <ul style="list-style-type: none"> • Teachers' professional development programmes
4 January 2024	Submission deadline for proposals of projects for JSPE
31 January 2024 (tentative)	Announcement of shortlisted proposals for JSPE
February – April 2024	Training programmes (Part II) including: <ul style="list-style-type: none"> • Teachers' professional development programmes • Students' workshops • Visits
9 May 2024	Submission deadline for reports of projects for JSPE (Any updates will be announced in the website of Smart City Project Programme 2023/24: https://www.edb.gov.hk/en/curriculum-development/kla/ma/res/sa/smartcity.html)
	
July 2024 (tentative)	JSPE cum prize presentation ceremony for S CPP 2023/24

3(vi) Judging criteria

Criteria	Percentage
A. Originality <ul style="list-style-type: none"> • Innovativeness / creativity 	20
B. Scope of study, methodology and analysis <ul style="list-style-type: none"> • Scope of study • Investigation or survey methods • Logic of data analysis 	20
C. Demonstration of smart use of credible and authentic data <ul style="list-style-type: none"> • Data collection • Data analysis • Data interpretation • Data presentation 	20
D. Relevance <ul style="list-style-type: none"> • Theme related • Application of knowledge / skills / values 	10
D. Design implementation <ul style="list-style-type: none"> • Feasibility of the innovative suggestions • Craftsmanship / design of the final product • Testing and evaluation of the design solution 	20
E. Presentation skills <ul style="list-style-type: none"> • Presentation of data and suggestions • Fluency of language 	10

3(vii) Award, prizes and training opportunities

Participating teams will have the chance to receive the following awards, prizes and training opportunities:

Outstanding projects

- Summer learning activities, such as meeting opportunities with experts (quota for each team: 1 teacher and 4 students)
- \$500 book coupon for each of the 4 students of the teams
- A certificate for each of the 4 students and the supervising teacher(s) of the teams
- A trophy for the schools of the teams

Good projects

- \$500 book coupon for each of the 4 students of the teams
- A certificate for each of the 4 students and the supervising teacher(s) of the teams
- A trophy for the schools of the teams

4. Smart City Knowledge Challenge (SCKC)

4(i) Categories

- Lower Primary (P.1 – P.3)
- Upper Primary (P.4 – P.6)
- Secondary (S.1 – S.6)

4(ii) Details

- An online platform will be open for all students for participation in April 2024 (tentative). The exact date for the launch of the online platform will be announced via <https://www.edb.gov.hk/en/curriculum-development/kla/ma/res/sa/smartcity.html> in due course.
- A set of multiple-choice questions covering different areas of smart city will be set for each category of students to broaden their horizon towards smart city.
- Students are encouraged to participate in the SCKC through their HKEdCity account to record their results.

4(iii) Prizes

- An electronic certificate of merit for each of the students who achieve perfect scores for all multiple-choice questions
- An electronic certificate of participation for each of the participating students
- A trophy for the schools with the highest participation

Attn.: Mr TSANG Yu-man Mathematics Education Section, Education Bureau Email: smartcity2023@edb.gov.hk Application deadline: 1 December 2023 (Friday)	(Official use only) P
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**Smart City Project Programme 2023/24
Application Form – Primary (P.4 – P.6)**

School information

Name of School: _____

School Address: _____

My school would like to participate in the Smart City Project Programme 2023/24.

The teacher-in-charge is:

Name of Teacher: (中文) _____ 先生/女士* (English) Mr/Ms* _____

Contact Tel No.: _____ Email: _____

Please put a “✓” in the box if the online nomination had been submitted.

- My school had submitted the online nomination form on or before 1 December 2023 (Friday) through the link below

<https://forms.gle/VQAbqmp4Ap6PsAzt6>



Our school authorises the Education Bureau to announce the related information of the student(s) (Restricted to the name of student(s), class level(s) and name of school) for the results of the captioned programme.

Signature of School Head:

Name of School Head:

Date:

School chop

(*Please delete as appropriate)

Attn.: Mr LEE Kin-sum Mathematics Education Section, Education Bureau Email: smartcity2023@edb.gov.hk Application deadline: 1 December 2023 (Friday)	<i>(Official use only)</i> J S
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Smart City Project Programme 2023/24
Application Form – Junior Secondary (S.1 – S.3) / Senior Secondary (S.4 – S.6)

School information

Name of School: _____

School Address: _____

My school would like to participate in the Smart City Project Programme 2023/24.

The teacher-in-charge is:

Name of Teacher: (中文) _____ 先生/女士* (English) Mr/Ms* _____

Contact Tel No.: _____ Email: _____

Please put a “✓” in the box if the online nomination had been submitted.

- My school had submitted the online nomination form on or before 1 December 2023 (Friday) through the link below

<https://forms.gle/VQAbqmp4Ap6PsAzt6>



Our school authorises the Education Bureau to announce the related information of the student(s) (Restricted to the name of student(s), class level(s) and name of school) for the results of the captioned programme.

Signature of School Head: _____

Name of School Head: _____

Date: _____

School chop

(*Please delete as appropriate)

Annex 4

Attn.: Mathematics Education Section, Education Bureau Email: smartcity2023@edb.gov.hk Submission deadline: 4 January 2024 (Thursday)	<i>(Official use only)</i>
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Proposal for the “Smart City Project Programme 2023/24”

Name of school:	
Category:	Primary / Junior Secondary / Senior Secondary*
Team:	A / B / C / D*
Names of students:	

(*Please delete as appropriate)

Note:

1. Each team should submit one proposal by email to **smartcity2023@edb.gov.hk** on or before **4 January 2024 (Thursday)**. Please duplicate Annex 4 if your school has more than one team.
2. The proposal should not be more than 1 A-4 sheet with font size 12 in single line spacing and should contain the theme, the title and a brief introduction of the project.
3. The project proposal should be submitted in PDF format.
4. This Annex can be downloaded from the website of Smart City Project Programme 2023/24:
<https://www.edb.gov.hk/en/curriculum-development/kla/ma/res/sa/smartcity.html>

Signature of School Head:

Name of School Head:

Date:

<p>_____</p> <p>_____</p> <p>_____</p>	<p>School chop</p>
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The theme and title of the project:

A brief introduction of the project: