HK IoT AWARDS
香港物聯網大獎

Creating a Smart City

Hong Kong U-21 IoT Awards 2014

Nomination Paper

I. About the Organizer

Founded by the Hong Kong General Chamber of Commerce in 1989, GS1 Hong Kong is the local chapter of GS1®, a not-for-profit, global supply chain standards organization headquartered in Brussels, Belgium, with over 110 national chapters in 150 countries.

GS1 Hong Kong's mission is to enable Hong Kong enterprises to have more efficient, visible and safer supply chains through the provision of global standards and a full spectrum of standards-based solutions and services, thus making possible business optimization and value creation. It engages with communities of trading partners, industry organizations, governments, and technology providers to understand and respond to their business needs through the adoption and implementation of global standards.

GS1 Hong Kong currently has more than 6,500 corporate members covering close to 20 industries including retail consumer goods, food, wine, healthcare, apparel, consumer electronics, logistics and information technology.

For more information about GS1 Hong Kong, please visit www.gs1hk.org.

II. The Hong Kong U-21 IoT Awards

IoT (Internet of Things) refer to any smart interconnected devices (e.g. RFID, sensors, etc.) that enterprises or organizations adopt to obtain more visibility into the identification, location, and condition of products, assets, transactions, or even people with the ultimate goals to be able to trace their pedigree and to drive more effective, timely business decisions or to improve customer interactions, leveraging the Internet backbone.

Technology advancement and sustainability require input from both industry and academia. Today's young generations are the industry talents in the future who will undertake the important role of sustaining Hong Kong's competitiveness in the global marketplace.

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Hong Kong U-21 Internet of Things (IoT) Awards (formerly known as Hong Kong U-21 RFID Awards) is an award stream of the Hong Kong Internet of Things Awards, with the aim to bring recognition to creative young talents who were committed to innovating and developing new IoT applications or technological products to address business issues and problems of daily lives. Against this backdrop, the Hong Kong U-21 IoT Awards is established to:

- Foster collaboration between industry and academia to develop new IoT applications and technological products with market potential
- Nurture a new generation of technical professionals with creativity and business acumen
- Stimulate market demand for innovative IoT applications and products
- Inspire new insights into the industry with the innovativeness and enthusiasm of tertiary students

Project nomination with the adoption or application of Internet of Things technologies spanning from **sensors**, **M2M**, **cloud computing**, **big data**, **data analytics**, **to storage**, **security**, **mobility**, **business intelligence** etc. with the ultimate goals to uplift business performance and customer satisfaction is most welcome.

The Hong Kong Internet of Things (IoT) Awards (Formerly known as Hong Kong RFID Awards) is established in 2014 by GS1 Hong Kong with two key purposes:

1. To widen the adoption of IoT technologies in the community, to promote the efficiency of the industries, services, product qualities and overall competitiveness.

2. The IoT Awards aims to champion the original IoT application and product development so as to promote creative exploitation of IoT technologies and to meet the market needs.

III. Categories

1. *IoT Revolution Concept*
The winner of this award will demonstrate a high level of originality and creativity in adopting IoT technologies spanning from *sensors, M2M, cloud computing, big data, data analytics, to storage, security, mobility, business intelligence* etc. with the ultimate goals to uplift business performance and customer satisfaction, and attempting to address a well-defined business issue or daily lives' problem, which has foreseeable market potentials.

2. *IoT Revolution Application*
The winner of this award will be an IoT application, integration or product, which is innovative, possesses distinctive features, and may also address market needs. Heavy weight will be allocated for projects developed through partnership between an enterprise and an academic institution.

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All projects submitted will be judged in both categories. Proof-of-concept projects or projects that have no application or prototype/beta development will be judged in the "*IoT Revolution Concept*" category only.

Collaboration between the industry and the academia is highly encouraged during the project development. Such partnership may include, but not limited to:

i.   Provision of project-related equipment
ii. Provision of reference business workflow for project development
iii. Provision of site / environment for project development
iv. Provision of advices and IoT expertise for project development

Every individual or group must submit their paper in full with a topic / title, project abstract, objectives, design, work procedures or methodology, technology designs and adoptions etc. All information provided will be kept confidential and restricted for assessment purpose only.

IV. Benefits of Participation

Demonstrate Your Success
Hong Kong U-21 IoT Awards 2014 winners may receive a rare opportunity to showcase their project success to hundreds of global & local executives at the official Award presentation ceremony to be held tentatively in December 2014 and in occasions where appropriate.

Recognition and Publicity
Hong Kong U-21 IoT Awards 2014 winners may make reference to the Awards in their future projects or curriculum vitas, leveraging on the Hong Kong IoT Award scheme's prestige.

Media Exposure
Hong Kong U-21 IoT Awards winners will enjoy extensive press coverage, serving as role models for the academia and to enable Hong Kong enterprises to bring innovative IoT technology and applications into their operations. They will also enjoy broad coverage in the Awards' promotional materials produced by GS1 Hong Kong.

Winner Entitlements
The winning projects will be documented in an award winning case sharing book to be distributed locally and globally.

Core Analysis
The process of collecting data and drafting a submission for the Awards will give all participants the chance to analyze their project objective in order to identify their strengths and areas for improvement.

Global Exposure

All Hong Kong U-21 IoT Awards 2014 winners will have the opportunity to demonstrate their success worldwide through publication of GS1 Hong Kong.

All winners will have the priority to take part in overseas study tours to showcase their success and exchange ideas with IoT pioneers all over the world.

The winning teams of the HK U-21 IoT Awards 2014 will be nominated for Hong Kong-Taiwan IoT Academia Awards 2014 at the discretion of the panel judges. This cross-border award program was established by GS1 Hong Kong and GS1 Taiwan with the mission to bring recognition to creative young talents in Hong Kong & Taiwan, who are committed to innovating and developing new IoT applications or technological products to realize the many benefits of IoT technology promises for enterprises and our daily lives, and inspire new insights into the industry with the innovativeness and enthusiasm of tertiary students in the respective regions.

V. Hong Kong U-21 IoT Awards Mentorship Program

Students with ***applications submitted on or before 25 April 2014*** will be granted the opportunity to join the Hong Kong U-21 IoT Awards Mentorship Program organized by GS1 Hong Kong and the GS1 Hong Kong Vendor Partnership Program.

The Program consists of a group of leading IoT technology companies with the mission to promote wide acceptance and adoption of IoT technology across industries.

Each registered project team will be assigned to an appropriate mentor volunteered from the Program with reference to the project information given by the team. Mentors are IoT professionals with distinguished accomplishments in application innovations and technology development and whom will give advice, share real life experience and their thoughts to the project teams on the project / application design and technical development etc. Registered project teams may also be able to obtain hardware support from their mentors for the development of their projects.

VI. Entry Requirements

1. The paper must be submitted by registered full-time or part-time undergraduate or postgraduate students of Hong Kong tertiary institutions and universities.

2. Projects developed jointly by a Hong Kong tertiary institution and an overseas tertiary institution are also welcome to submit.

3. All projects submitted will be judged in both "***IoT Revolution Concept***" and "***IoT Revolution Application***" categories. Projects which are proof-of-concept or have no application or prototype/beta development will be judged on the "***IoT Revolution Concept***" only.

4. The projects submitted can be conducted by an individual or a group of no more than **SIX** students. Each student can submit more than one project.

5. The projects submitted must be 100% developed and supervised by at least **ONE** teaching staff of Hong Kong tertiary institutions in the course of its development.

6. Hong Kong tertiary institutions' participation and involvement in projects co-developed with overseas tertiary institutions should account for NOT LESS THAN 25% of the total contribution and project development

7. Partnership between the academia and the industry is highly encouraged for the project development, while the contribution by students for the project development should account for **NOT LESS THAN 75%** of total contribution.

    Such partnership may include but not limited to:

    i.   Provision of project-related equipment
    ii.   Provision of reference business workflow for project development
    iii. Provision of site / environment for project development
    iv.   Provision of advice and IoT expertise for project development

    Partnering companies are required to declare their involvement in the project development.

8. English is preferred as the main language for the application form, project paper and any supporting documents.

9. You are advised to provide all the information required, failing which the Organizer may declare your submission void and invalid.

10. The paper should be able to outline all the required information intended to collect as stated in the submission form. The more details provided on the IoT project for the judging panel, the better understanding of the projects.

11. All applications will be vetted for accuracy by GS1 Hong Kong. Any candidate found to have submitted the paper with false information will be disqualified.

12. The Organizer's decision on the matters mentioned above is final.

VII. Application

Step 1: Application Form Submission
a) Deadline for submission with industry mentorship program registration:
   On or before 12:00 noon, 25 April 2014
b) Deadline for submission: On or before 5:00pm, 20 June 2014

Complete the Awards application form and return it to the Organizer (GS1 Hong Kong) with all supporting materials by one of the following means:

i. Fax to (852) 2861-2423; or
ii. Email to yvonnewong@gs1hk.org; or
iii. Submit in person to GS1 Hong Kong office at 22/F, OTB Building, 160 Gloucester Road, Wan Chai, Hong Kong

An email acknowledgment will be sent to the applicant upon receipt of his/her application form.

Step 2: Full Project Submission
Deadline: On or before 12:00 noon, July 18, 2014

All applicants are required to submit their full project and any supplementary materials in WORD or PDF format to the Organizer (GS1 Hong Kong) by fax, email or in person. Applicants can also submit their full project in softcopy on a CD/DVD.

The cover page should include project title, school name, student names, name of supervisor and the department. The content of the full project should cover:

i. Project title
ii. Project abstract (no more than 200 words)
iii. Project objectives
iv. Issues / challenges your project attempted to address
v. Application / technical development design
vi. Outline the specific steps / work of procedures / methodologies taken to conduct the project
vii. Partnership between industry and academia
viii. Project extensibility and scalability
ix. Potential commercial values
x. Originalities, uniqueness and innovativeness demonstrated
xi. Practicality, user-friendliness, extensibilities & scalabilities demonstrated
xii. Social responsibilities demonstrated
xiii. In what ways / To what extent the project results meet the objectives set forth
xiv. Any recognitions received in other types of award inside or outside Hong Kong
xv. Why do you think your project deserves an award?
xvi. Video demonstration in CD / DVD format

VIII. Judging Panel

The panelists may include representatives from GS1 Hong Kong, academic institutes, industry associations and leading IoT pioneers.

IX. Judging Criteria

All projects submitted will be judged in both "*IoT Revolution Concept* "and "*IoT/RFID Revolution Application*" categories. Projects which are a proof-of-concept or have no application or prototype development will be judged in the "*IoT Revolution Concept" category* only.

In particular, judges will be looking at:

1. IoT Revolution Concept

- Project objectives and whether those objectives are relevant to a well-defined business issue or problem of daily lives
- Degree of success in meeting the project objectives or solving specified problems / challenges
- Originality and creativity of concept
- Project feasibility
- Degree of innovation and creativity demonstrated in use of IoT technologies
- Technical feasibility of applying the concept across different industries
- Documentation & overall presentation

2. IoT/RFID Revolution Application

- Project objectives and whether those objectives are relevant to specified business issues or problems of daily lives
- Degree of success in meeting the project objectives or solving specified problems / challenges
- Originality of design
- Degree of innovation and creativity demonstrated in use of IoT/RFID technology
- Collaboration between industry and academia
- Technical feasibility of applying the application across different industries
- Project extensibility and scalability
- Development methodologies adopted
- Potential commercial values demonstrated
- User-friendliness and social responsibilities
- Documentation & overall presentation

X. Judging Process

Date	Process
25 April 2014	Deadline for application form submission (with mentorship program registration)
20 June 2014	Deadline for application form submission (without mentorship program registration)
18 July 2014	Deadline for full project submission
August 2014	Assessments for selecting short-listed candidates, classroom presentation is required
September 2014	Winners announcement

XI. Awards Presentation

The presentation ceremony of the Hong Kong U-21 IoT Awards and the Hong Kong-Taiwan IoT Academia Awards will take place tentatively in December 2014.

XII. Rules and Policies

1. Participants must be registered students of Hong Kong tertiary institutions and must submit photocopies of student ID cards for verification purpose.

2. For projects submitted jointly by a Hong Kong tertiary institution and an overseas tertiary institution, overseas participants must be registered students and must submit photocopies of student ID cards for verification purpose. The level of contribution by Hong Kong tertiary students during project development will be a key consideration factor in the judging process.

3. Partnership between the academia and the industry is highly encouraged for the projects submitted, while the contribution by students during project development should account for **NOT LESS THAN 75%** of total contribution.

4. Participants should submit their project in full and all the information required in the application form by the deadlines specified. The organizer reserves the right to disqualify any participants who fail to do so.

5. The Hong Kong U-21 IoT Awards 2014 will be granted at the sole discretion of the panel of judges. The decision of the judging panel on all results shall be final and conclusive. No appeals will be entertained.

6. All information and documents supplied by participants including identities and commentaries drafted for the judging process will be kept strictly confidential and used solely for the process of assessment in the Awards. All works submitted will not be returned to the participants.

7. The organizer reserves the absolute discretion on accepting or refusing any nominations without disclosing the reasons.

8. All participants should be prepared to arrange on site demonstrations / site visits for the organizer or the panel of judges if necessary.

9. Any participants who are found to have committed any illegal practices by the law of the HKSAR Government will be disqualified immediately. Awards given to such individual / group will be withdrawn.

10. Participants should ensure their project submitted do not infringe the copyright of any third party. Participants found to have committed copyright infringements in their work will be disqualified immediately. The organizer will not be responsible for any infringements in whatever way.

11. Participants found to have committed acts of plagiarism in their work will be disqualified.

12. The organizer shall not own the copyright of any projects submitted.

13. The participants should ensure all the information provided in the application form including the names and contact details of the participants are correct and valid. The organizer will not be responsible for any communication errors or other problems that may occur due to false information provided.

14. The organizer will not be responsible for any data loss due to technical failure and it reserves the right to postpone or cancel the event should such problems continue.

15. All judges and examiners are required to declare in advance to GS1 Hong Kong any circumstances, which may create a conflict of interest in the process of assessing any entrants. Where there are potential conflicts of interests, the judges or examiners involved will not participate in the assessment of or handle in any manner the materials submitted by the applicant concerned.

16. Award winners should be prepared to provide GS1 Hong Kong with sufficient information in its application and additional materials for editorial or promotional purposes of GS1 Hong Kong. Additional materials may include, but are not limited to logo of the academic institution, photographs, videos, and biographies of the project teammates. Additionally, award winners should make themselves available to participate in media interviews, should there be any organized by GS1 Hong Kong.

17. GS1 Hong Kong's approval is required for any press activities organized by award winners.

18. Personal data, company/organization information including the logo provided in the course of contest will, during the entire process, be used for the assessment and post-event promotional purposes.

19. The Organizer reserves the rights to publish the works for promotional purposes only.

20. The organizer reserves the rights to alert or modify the rules or schedule of the event if necessary or expedient.

21. The Organizer's decision on the matters mentioned above is final.

XIII. Enquiries

Ms Yvonne Wong

Assistant Manager, Marketing & Communications

Email: yvonnewong@gs1hk.org

Direct: (852) 2863 9730

Ms Haissi Ho

Marketing Officer, Marketing & Communications

Email: haissiho@gs1hk.org

Direct: (852) 2863 9766

Website: www.gs1hk.org/hkiotawards

Facebook: www.facebook.com/HKIoTAwards

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Hong Kong U-21 IoT Awards 2014

Nomination Paper

<u>Step 1: Application Form Submission</u>

***Important note for submission:**

On or before 12:00 noon, 25 April, 2014 (with Hong Kong U-21 IoT Awards Mentorship Program registration)

On or before 12:00 noon, 20 June, 2014 (without Mentorship Program registration)

Please submit the below documents and supporting materials to the organizer, GS1 Hong Kong, on or before the submission deadlines stated above by fax, email or in person. Late submission will not be processed.

GS1 Hong Kong contact and submission: Ms Yvonne Wong
Mailing Address: 22/F, OTB Building, 160 Gloucester Road, Wan Chai, Hong Kong
Email: yvonnewong@gs1hk.org
Enquiries contact: (852) 2863 9730
Website: www.gs1hk.org/hkiotawards

Document Checklist
☐ Completed application form
☐ Indicate your interest to join the Industry Mentorship Program in the application form
☐ Completed declaration form with the signatures of all teammates
☐ Photocopies of student ID cards of all teammates

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Application Form

1. *Participants must submit photocopies of their student ID cards for verification purpose.*
2. *For projects developed through partnership between an academia and an enterprise, please also fill in the company information of the enterprise.*
3. *Award-related information will be communicated to the participants according to the below particulars. Participants should ensure their contact information is accurate and valid during the course of the Awards. The organizer will not be responsible for any communication errors due to inaccurate information provided.*

Entrant 1 (Primary contact person)	
Name	(English)
	(Chinese)
University / Tertiary Institution	(English)
	(Chinese)
Department and Curriculum (Year)	(English)
	(Chinese)
Position	
Email	
Mobile	
Entrant 2 (Secondary contact person)	
Name	(English)
	(Chinese)
University / Tertiary Institution	(English)
	(Chinese)
Department and Curriculum (Year)	(English)
	(Chinese)
Position	
Email	
Mobile	

Entrant 3	
Name	(English)
	(Chinese)
University / Tertiary Institution	(English)
	(Chinese)
Department and Curriculum (Year)	(English)
	(Chinese)
Position	
Email	
Mobile	
Entrant 4	
Name	(English)
	(Chinese)
University / Tertiary Institution	(English)
	(Chinese)
Department and Curriculum (Year)	(English)
	(Chinese)
Position	
Email	
Mobile	
Entrant 5	
Name	(English)
	(Chinese)
University / Tertiary Institution	(English)
	(Chinese)
Department and Curriculum (Year)	(English)
	(Chinese)
Position	
Email	
Mobile	

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Entrant 6	
Name	(English)
	(Chinese)
University / Tertiary Institution	(English)
	(Chinese)
Department and Curriculum (Year)	(English)
	(Chinese)
Position	
Email	
Mobile	

Project Supervisor *Project supervisor cannot be a member of the participating team.*	
Name	(English)
	(Chinese)
University / Tertiary Institution	(English)
	(Chinese)
Department and Curriculum (Year)	(English)
	(Chinese)
Position	
Email	
Office Tel / Mobile	

*** *Sign up for the Hong Kong U-21 IoT Awards Mentorship Program 2014 by putting a √ to indicate your interest.*

(   ) Our project team is interested to join the Hong Kong U-21 IoT Awards Mentorship Program

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Company Information	
***** *For projects developed through partnership between an academia and an enterprise*	
Company Name	(English)
	(Chinese)
Contact Person	(English)
	(Chinese)
Position	
Email	
Mobile / Office Tel	

Partnership Involvement *(*Please tick where appropriate)*	This is to confirm the involvement of_____ _____(company name) for the project development includes:
	
	☐ Provision of project-related equipment
	
	☐ Provision of reference business workflow for project development
	
	☐ Provision of site / environment for project development
	
	☐ Provision of advice and IoT expertise
	
	☐ Others. Please specify:
	    _____
	    _____

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Declaration Form

1. I/We hereby submit this application form to the Organizer of the Hong Kong U-21 IoT Awards 2014 for assessment and evaluation of the Hong Kong IoT Awards.

2. I/We declare that I/We have read and fully understood the assessment and agreed to be bound by the rules.

3. I/We represent, warrant and undertake that all information supplied in this application form and any other supplementary information, documents and materials are true and accurate to the best of my/our knowledge.

4. I/We warrant that in respect of any third party's works and materials incorporated in the above entry, I/we have a valid and continuing license under which I am/we are entitled to use such third party's works and materials in the project development.

5. I/We agree and authorize that any of my/our business and/or personal data and submission (if any) provided in this application form can be used by GS1 Hong Kong (the Organizer) for purposes in relation to the conduct of the Awards and may be disclosed to the assessment committee and panel of judges in connection with or incidental to the foregoing purposes.

6. I/We declare that I am/We are the owner of the copyrighted and all other intellectual property rights in the project submitted and I/We agree that the Organizer retains the right to use any of the enclosed information for promotional purposes, editorial coverage, demonstration purposes, and pre- and post-event promotion of Hong Kong U-21 IoT Awards 2014.

7. I/We have read the rules and policies of the contest and I/We understand the requirements and my/our commitments if selected as a winner in the Hong Kong U-21 IoT Awards 2014.

8. I am/we are obliged to attend the Hong Kong U-21 IoT Awards 2014 Presentation Ceremony if I am/We are selected as the winner of the Awards.

9. I/we agree to be nominated in the Hong Kong-Taiwan IoT Academia Awards 2014 in the event that I/we won the Hong Kong IoT Awards 2014.

10. I am/we are aware that the Organizer reserves the right to accept or reject any entries and have the authority to amend any judging criteria as deemed necessary. Should there be any dispute in the result of the Awards, the decision of the Judging Panel shall be final.

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Disclaimer

In no event shall the Hong Kong U-21 IoT Awards 2014 or the Organizer including its affiliates, successors, officers, directors, employees and agents be liable for any direct, indirect, incidental, or consequential damages arising out of or in any way related with this application form or the Hong Kong U-21 IoT Awards 2014.

Indemnification

By submitting this entry, I/ We and the organization with which I am associated, do hereby release, indemnify and hold harmless GS1 Hong Kong, and its affiliates, successors, officers, directors, employees, and agents from and against any and all losses, damages, or expenses of any nature that may arise from my / our participation or acceptance of a prize in the Hong Kong U-21 IoT Awards 2014. Such indemnification shall include, but is not limited to, any claims based upon an alleged infringement of copyright or other proprietary rights.

Entrant 1	
Name	
University / Tertiary Institution	
Signature	
Date	
Entrant 2	
Name	
University / Tertiary Institution	
Signature	
Date	
Entrant 3	
Name	
University / Tertiary Institution	
Signature	
Date	

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Entrant 4	
Name	
University / Tertiary Institution	
Signature	
Date	

Entrant 5	
Name	
University / Tertiary Institution	
Signature	
Date	

Entrant 6	
Name	
University / Tertiary Institution	
Signature	
Date	

Partnering Company	
* For projects developed through partnership between an academia and an enterprise	
Company Name	
Contact Person	
Position	
Company Chop & Signature	
Date	

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Step 2: Full Project Submission

Deadline: 18 July, 2014

Participants should submit the full project and supplementary materials to the organizer, GS1 Hong Kong, on or before the submission deadline by fax, email or in person no later than 5:00pm on July 19, 2014. Late submission will not be processed.

The full project may be submitted in WORD or PDF format. Applicants can also submit their full project in a CD softcopy.

The cover page should include project title, school name, student names, name of supervisor and the department. The content of the full project should cover:

i.   Project title
ii.   Project abstract (no more than 200 words in WORD format)
iii.   Project objectives
iv.   Issues / challenges your project attempted to address
v.   Application / technical development design
vi.   Outline the specific steps / work of procedures / methodologies taken to conduct the project
vii.   Open IoT technology standard(s) adopted
viii.   Partnership between industry and academia
ix.   Project extensibility and scalability
x.   Potential commercial values
xi.   Originalities, uniqueness and innovativeness demonstrated
xii.   Practicality, user-friendliness, extensibilities & scalabilities demonstrated
xiii.   Social responsibilities demonstrated
xiv.   In what ways / To what extent the project results meet the objectives set forth
xv.   Any recognitions received in other types of award inside or outside Hong Kong
xvi.   Why do you think your project deserves an award?
xvii.   Video demonstration in CD / DVD format

*****Your paper should not be bound by the above guiding questions and you are most welcome and encouraged to supplement your paper with additional information, presentations and materials, which you believe to be relevant to the assessment of your submission.

All information and documents supplied by participants including identities and commentaries drafted for the judging process will be kept strictly confidential and used solely for the purpose of assessment for the Awards.