



2020 Presidential Hackathon International Track Handbook

Supervisor: Presidential Office

Organizer: Executive Yuan

Co-organizer: Open Contracting Partnership

Supporting Organizer: National Development Council
Ministry of Foreign Affairs
American Institute in Taiwan

Implementer: Ministry of Economic Affairs

Executer: National Association of Small and Medium Enterprises

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I. Background & Introduction

Presidential Hackathon: International Track

A. About Presidential Hackathon

The Presidential Hackathon is an initiative designed by the Taiwanese government to demonstrate its emphasis on open data and innovative data use to address national development and social needs. The event aims to facilitate knowledge exchanges and collaborative learning among data owners, data scientists and field experts by bringing together the collective wisdom of crowds across government, industry and civil society. Ultimately, it strives to accelerate the optimization of public services and encourage proactive innovation from public servants to upgrade government services by enabling a ‘hacker culture’, promoting the well-being of the people and creating global partnerships.

Launched in 2018 by the Taiwan Presidency as a domestic challenge, the Taiwan Presidency then expanded the initiative to include an international track in 2019 where participants from around the world were invited to propose open data solutions for delivering better and more sustainable infrastructure worldwide. In 2019, the winning teams were from Malaysia and Honduras. MasTeam¹ from Malaysia developed a red flags tool to identify collusion and corruption at the tender stages of public procurement whilst the Honduras INFRAS team² created an infrastructure planning tool for safeguarding forests and environmentally sensitive areas.

This year, the Presidential Hackathon challenges you to use (open) data to enable the Sustainable Development Goals.

¹ About the project: <https://www.open-contracting.org/2019/08/23/cartelogy-a-tool-for-fair-competition-and-corruption-free-public-procurement-in-malaysia/>

² About the project: <https://www.open-contracting.org/2019/08/28/build-better-build-right-a-new-tool-for-sustainable-climate-resilient-infrastructure/>

B. Sustainable Development Goals

The 2030 Agenda for Sustainable Development³, adopted by all United Nations member states in 2015, provides a shared blueprint for peace and prosperity for people and the planet. At its heart are the 17 Sustainable Development Goals (SDGs)⁴, which are an urgent call for action by all countries - developed and developing.

The SDGs are intrinsically linked to the way governmental and non-governmental agencies spend money. Every year, governments spend over US\$9.5 trillion on public contracts. Representing approximately 12% of GDP on average in Organization for Economic Co-operation and Development (OECD) countries, and up to 25-30 % of GDP in developing countries, public procurement has the potential to be the driving force for social and environmental change⁵. For example, through ‘sustainable’ or ‘green’ procurement in infrastructure such as schools, clinics and roads which are critical to ensuring better lives for citizens.

This is why the 2020 Presidential Hackathon: International Track challenges you to use (open) data to transform public procurement to enable the SDGs.

³ UN SDG knowledge platform: <https://sustainabledevelopment.un.org/post2015/transformingourworld>

⁴ UN SDG menu: <https://sustainabledevelopment.un.org/?menu=1300>

⁵ The World Bank: <https://www.worldbank.org/en/news/press-release/2016/12/05/despite-progress-transparent-and-efficient-government-procurement-rules-remain-a-global-challenge-wbg-report>

II. 2020 Challenge Theme

The 2020 challenge theme is

Enabling Sustainable Development

A. Your Challenge

How can (open) data help enable the SDGs?

We want your best ideas on how to use data, technology and collaboration to help ensure public procurement deliver the SDGs. We challenge teams to generate, analyze and prototype

[Start your application here.](#)

You should address at least one or more of the following:

- **Generate:** Can you create new or better (open) data sources on public procurement for sustainable development?
- **Analyze:** Can you find new or improved uses of existing (open) data and tools that support social innovation in public procurement to enable the SDGs?
- **Prototype:** Can you create new or better tools for (open) data in public procurement to enable the SDGs?

You are **strongly encouraged** to use the Open Contracting Data Standard and/or the Open Contracting for Infrastructure Data Standard in your solution and project. Your project **should be unique, and may contribute something new** or unfamiliar to the public. What matters is that you have an open data vision for solving a specific SDG problem, whether it is at the regional, national or sub-national level. For need inspiration, please refer to for successful projects and solutions?

Note:

We have prepared a list of resources including but not limited to introductory knowledge slides, open data resources, data standards, tools...etc. for you, please click [Resources](#).

B. What is the journey?



Note: We are constantly monitoring the global response to the Coronavirus pandemic. The health and well-being of our participants is our first priority which may require rapid changes to the format of the challenge and events. With that in mind, the Organizer reserves the right to alter the formation of Grand Final and award event at any time without prior notice to the participants, in such case they will make reasonable effort to inform the participants prior to the date of the event.

C. Need inspiration?

For inspiration, here are examples from previous projects and successful innovations.

1. Generate: See [Mexico's Todosloscontratos.mx](#), [Budeshi](#), Europe's [Opentenders.eu](#) for inspiration on **generating new or better open data sources** on public procurement (e.g. OCDS and/or OC4IDS) from government systems, including improving existing data offerings;
2. Analyze: See [Chile's Buyer Observatory](#), [Colombia School Meals](#), and [Follow the Water](#) for inspiration on **analyzing** existing open data, for which you might re-use some of our tools, for example uncovering the procurement features that hinder competition and prevent participation of SMEs, or matching OCDS/OC4IDS data with flood data to target government spending in specific sectors or locations.
3. Prototype: See [Malaysia Cartelogy](#), [Malaysia Buildcaster](#) and [Honduras INFRAS](#) for inspiration on **prototyping** a new re-usable data tool to share with the open data community, for example mapping infrastructure projects with a mobile-friendly UI so that local CSOs can contribute to project monitoring.

III. Application

A. Why apply

We want you to collaborate on the next generation of data tools to help society move towards achieving the Sustainable Development Goals. Through this Presidential Hackathon, you will be able to:

Propel your innovation ambitions.

Get dedicated support in advancing your innovation. Create actionable data, analysis and tools through a dedicated programme of activities and technical support that will help you achieve your ambitious development goals.

Learn globally, change locally.

Become a change agent in the open development space. Learn from global innovators and practitioners on what works and which mistakes to avoid in generating, analyzing and prototyping for SDGs.

Join a community of innovators.

Connect with experienced peers who have led successful innovation projects and overcome similar challenges. Be part of an active community and network that can help change global, regional and national norms.

B. Who can apply

Anyone can apply. We encourage teams from academia, business, civil society, government, media, or a combination of roles. What matters is that you **have an open data vision for solving a specific problem**, whether it is at the regional, national or sub-national level.

Your team should consist of 3-5 members. Successful teams will consist of at least three key roles:

A Bureaucracy Navigator who understands and can navigate social development systems;

A Technical Navigator who can navigate data or build tools; and

A Partnership Builder who can navigate and build decision makers buy-in to influence change in stakeholders, but does not have to be from the government.

For teams planning to

- **Generate** open data (e.g. OCDS/OC4IDS data), you will need a developer who can combine multiple sources and create JSON data;
- **Analyse** open data (e.g. OCDS/OC4IDS data), you will need a data analyst with data cleaning and analysis skills;
- **Prototype**, you will need a developer who can build the target product on top of your chosen open data (e.g. OCDS/OC4IDS data) and/or tools.

C. Intellectual Property Rights Statement

1. Any intellectual property in the submission must belong to the Applicant. Applicants will retain the intellectual property rights to their entry to the Prize. Such Intellectual Property must be clearly marked as proprietary except if you are publishing open source. It is the applicant's responsibility to ensure that they are not infringing on the Intellectual Property of others.
2. The teams guarantee that the information provided, including but not limited to the proposal, graphics, presentation, audio, video, and other materials, does not infringe intellectual property rights and other rights of others, or violate laws and regulations.
3. The shortlisted teams agree to authorize the organizer or co-organizers to use the graphics, presentations, photos, videos and other materials, including but not limited to the names and portraits of the team members, free of charge without the restriction of time, location, and number of times for non-profit purposes, including but not limited to printing, display, promotion, news reporting, publication, and publicizing, and to sublicense third parties to use the aforementioned materials. The teams also agree that the organizer may revise, reproduce, edit, and exercise, on relevant marketing media, all of the rights of the copyright owner enjoys under the copyright law without notifying the teams. However, the programs, software, system produced by the teams during the event are not included. The teams and their members also agree not to exercise their moral rights if the aforementioned rights are not compromised.
4. The team agrees to authorize the organizer or co-organizer to take photos, make films, or request the teams to provide relevant photos or videos for the purposes of recording, promoting, and marketing this event or related activities during the course of this event and that the organizer and co-organizer may publish the aforementioned photos or videos in any form.

IV. Selection Criteria

Proposals will be evaluated based on three key criteria:

Innovation (30%)

- How unique is the solution in generating, analysing or prototyping open data to deliver the SDGs?
- Is your approach more effective than the existing solutions?
- Does this unique innovation achieve its goal effectively and efficiently?

Social impact (40%)

- Does the solution address a high priority area within the SDGs?
- What the solution deliver significant social impact?
- Is the solution replicable or transferable?

Feasibility (30%)

- How fully has the idea been developed?
- Is the use case and solution clear? How complete is the solution?
- Have all the required documentation and deliverables been provided? (e.g. system architecture, draft data, action plans etc.)
- How much has been done to generate buy-in or support for this solution? Have the relevant stakeholders been identified and engaged?
- How robust are the post-hackathon project development strategy and action plans?
 - How will this contribute to adoption or implementation?
 - How quickly can it be implemented

V. What's in it for you?

A. Rewards

In addition to bragging rights, you also stand to win:

1. For Finalists

- Travel arrangements for all selected finalists
 - ◆ Terms of travel reimbursement please refer to [section B - Terms of travel reimbursement](#).
- Official invitation letter to Taipei, Taiwan for the 2020 Presidential Hackathon
- 4-night accommodations in Taipei, Taiwan

2. For Winning Teams

- Award cups for winning teams
- Live demo in the Presidential Building
- An invitation from the Taiwanese government for future collaboration
- The Open Contracting Bounty (For terms of OC Bounty, please refer to Section C)
 - US\$5,000 each for the top two winning teams to further develop their proposal.
 - Post-hackathon strategic & technical helpdesk support for OCDS/OC4IDS teams.
 - An invitation to showcase your project at future OCP global events.

B. Terms of travel reimbursement

1. Round-trip tickets will be reimbursed up to US\$7,000 on Economy Class for each team (up to five members.) The exchange rate will be based on the date of ticket purchase.
2. If the tickets or boarding passes show that the flights depart from and arrive at different airports, the amount reimbursed will be based on the fare from the origin to Taiwan and back.
3. Upon arrival in Taiwan, each member shall submit one's ticket payment receipt/certificate of ticket issuance and the (outbound) boarding pass(es) to the organizer, sign relevant papers and complete the withholding tax procedure in accordance with the laws of Taiwan. Within seven calendar days of return from Taiwan, the (inbound) boarding pass(es) must be posted or scanned back to the organizer, who will then review the documents and transfer the reimbursement to the bank account (no more than one) designated by the team.

C. The Open Contracting Bounty (provided by OCP)

The top two winning teams will receive US\$5,000 each to further develop their proposals. This will be paid out in 2 tranches and subject to the completion or delivery of the following milestones:

1. \$2k will be payable within 3-4 weeks post-hackathon and upon delivery of the following:
 - a. Draft and Deliver 1 blog/data use story on your project
 - b. Participate/Lead an OC Community Call to share knowledge/process/learning
 - c. Participate in a minimum of 2 Mentorship Calls (every 2 weeks) with OCP to collaborate on next steps/progress on Action Plan
2. \$3k will be payable within 7-8 weeks post-hackathon and upon delivery of

- a. Reusable resources:
 - i. Generate: If your project was aimed at generating data, you will provide improved data & preliminary analysis;
 - ii. Analyze: If your project was aimed at analysing data, you will document your analysis & how you did this;
 - iii. Prototype: If your project was aimed at prototyping a solution, you will document your tool so it can be reused easily.
- b. Evidence of engagement with relevant stakeholders to advance the projects (e.g. correspondence, meetings or calls with government/journalists etc)
- c. Participation in 2 additional Mentorship Calls (every 2 weeks)

VI. Timeline

Call for application	GMT+8 10:00, Mar 20- GMT+8 15:00, Jun 12
Review of applications	Jun 15 – Jun 26
Announcement of Finalists	GMT+8 11:00, Jun 30
Grand Final	September 11-15
Final pitch and Award	September 15

[1] The Organiser reserves the right to modify the rules at its sole discretion and without prior notification. Any amendments to these rules will be updated on the Official Website.

[2] The Organiser reserves the right to cancel the Event at any time without prior notice to the participants, in such case they will make reasonable effort to inform the participants prior to the date of the event.

VII. Resources

Here is a list of resources that might be helpful to tackle the challenge.

A. Open data

Taiwan Government Open Data

Category: <https://data.gov.tw/en>

NARLabs

[Data Service Platform](#)

NASA Open Data

Open Data portal: <https://nasa.github.io/data-nasa-gov-frontpage/>

NOAA DATA

NOAA Data discovery portal: <https://data.noaa.gov/datasetsearch/>

B. Data Standards

OCDS and OC4IDS standard documentation

<https://standard.open-contracting.org/latest/en/support/>

Introduction to Open Contracting <https://pse.is/P6NVZ>

History of OCDS <https://pse.is/QDR6R>

Learning The Standard <https://pse.is/QHTLQ>

For OCDS publishers, please refer to the OCP's "[get the data](#)" website section, [World map of OCDS publishers](#) and [OCDS Kingfisher](#). For more detail, refer to the Data Resources, Tools & Technical FAQa below.

[Follow this link for a full list of Data Resources, Tools and Technical FAQs](#)

C. Tools

Open Contracting Tools Directory

<https://www.open-contracting.org/resources/open-contracting-tools-directory/>

Analyzing Open Contracting data <https://open-contracting.github.io/ocds-r-manual/>

JSON Introduction https://www.w3schools.com/js/js_json_intro.asp

D. Presentations

[OCP Taiwan Hackathon 2020 Introductory slides \(English\)](#)

[OCP Taiwan Hackathon 2020 Introductory slides \(Chinese\)](#)

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