



# FLAG-ERA JTC 2023 Information Webinar

March 16, 2023

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Supported by the



# Joint Transnational Calls

## Supporting 2 European Initiatives

**\*) JTC 2015, 2017, 2019 & 2021 supporting *Graphene Flagship* and *Human Brain Project - EBRAINS***

**Topics defined with the research funding organisations & the initiatives**

**Graphene & 2D materials research**  
**Computational neuroscience research**

**\*) JTC 2016 for Flagship Pilot projects**

# Joint Transnational Calls

## Outreach

**80 funded projects**

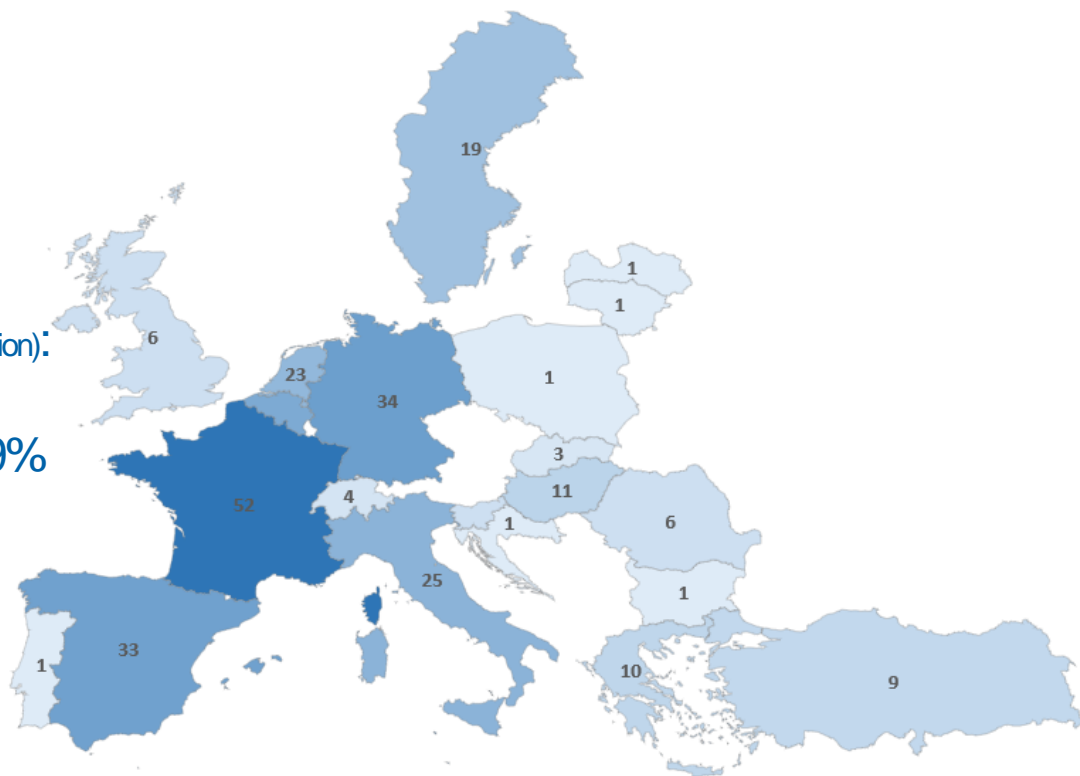
Representing **370 partners**

### Success rate:

- Graphene Flagship (basic research): 34%
- Graphene Flagship (applied research & innovation): 25%
- Human Brain Project – EBRAINS: 29%

**25 countries** in funded projects  
incl. **12 ‘Widening Countries’**

Effective budget **52 M€**



# JTC 2023 Participants

[www.flagera.eu](http://www.flagera.eu)

**Submission deadline June 1, 2023**



**13 countries, 14 research funding organisations**

Europe + Taiwan



*Note: Funding organisations join the call for 1, 2 or 3 sub-calls*

# JTC 2023 Participants

Country		Research funding organisation	Graphene Flagship (basic research)	Graphene Flagship (applied research and innovation)	Human Brain Project - EBRAINS
BE	Belgium	FNRS	Yes	No	Yes
BG	Bulgaria	BNSF	Yes	Yes	Yes
EE	Estonia	ETAg	Yes	No	Yes
FR	France	ANR	Yes	Yes	Yes
DE	Germany	DFG	Yes	No	No
IL	Israel	InnovationAuth	No	Yes	Yes
LT	Lithuania	LMT	Yes	Yes	Yes
NL	The Netherlands	ZonMw	No	No	Yes
RO	Romania	UEFISCDI	No	Yes	Yes
SK	Slovakia	SAS	Yes	Yes	Yes
SI	Slovenia	MVZI	Yes	Yes	Yes
SE	Sweden	VINNOVA	No	Yes	No
SE	Sweden	VR	Yes	No	No
TW	Taiwan	NSTC	Yes	Yes	Yes

## Practical Information



[ABOUT](#) ▾ [NEWS](#) [FLAG-ERA CALLS](#) ▾ [FUNDED PROJECTS](#) [ACTIVITIES](#) ▾ [HBP/EBRAINS](#) ▾ [GRAPHENE FLAGSHIP](#) ▾

PARTNER SEARCH FORM

EXPRESSION OF INTEREST

JTC 2015

JTC 2016

JTC 2017

JTC 2019

JTC 2021

JTC 2023

### Call announcement

Open – deadline: June 1, 2023 – 17:00 CET

Webinar – March 16, 2023 – 10-11.30 am CET

Applications in FLAG-ERA join the agenda of two large-scale European initiatives: *4INS*. The present call aims at supporting the integration of the respective research areas they represent. Building on ten years of experience and evolutions to look to the future under the renewed context of Horizon Europe:

CALL ANNOUNCEMENT

REGISTER AS AN EVALUATOR

The national and regional funding organisations in FLAG-ERA join the agenda of two large-scale European initiatives: *Graphene Flagship* and *EBRAINS*. The present call aims at supporting the integration of the respective research areas they represent. Building on ten years of experience and evolutions to look to the future under the renewed context of Horizon Europe:

- The *Graphene Flagship* will benefit from a continuation of the funding from the European Commission.
- *Human Brain Project – EBRAINS* is evolving towards a new structure Consortium (ERIC).

Both initiatives, launched in 2013 as FET Flagships, address grand and multidisciplinary scientific and technological challenges, built around an ambitious unifying vision. Their overarching nature and magnitude imply that they can only be realised through a federated and sustained effort.

In this context, FLAG-ERA, the 'Flagship ERA-NET', gathers national and regional funding organisations in Europe and beyond with the goal of supporting, together with the European Commission, these initiatives and their research areas: Graphene and 2D materials and computational neurosciences.

The official FLAG-ERA JTC2023 Call Announcement and other relevant documents are available at the bottom of this page. A summary of the main call features is provided below.

### Research areas

The call is divided into three sub-calls. Two sub-calls support *Graphene Flagship* and one sub-call *Human Brain Project – EBRAINS*. The two sub-calls supporting *Graphene Flagship* correspond to different approaches. Indeed, in order to translate graphene and 2D materials known effects and concepts into technological applications, a sub-call on applied research and innovation is organised in addition to one on basic research laying down foundations for future graphene and 2D materials

### FLAG ERA Calls

- ▶ JTC 2016 funded projects
- ▶ FLAG-ERA Joint Transnational Call (JTC) 2016

### Our funders



IDEPA

### Join Us

FLAG-ERA

### Subscribe

Enter email address

# JTC 2023

## Graphene (basic research) dedicated sub-call

1. Graphene-related materials-based scaffolds for living cells integration
2. Graphene-related materials for neuromorphic photonics
3. Layered materials for quantum sensing
4. Neuromorphic circuits based on layered materials
5. Graphene-related materials-based field effect transistor sensors for viral surveillance
6. Layered material-based antiviral, antibacterial and antifungal coatings
7. Tunneling magnetoresistance in layered materials-based spintronic devices

## Graphene (applied research and innovation) dedicated sub-call

1. Graphene-related materials-based scaffolds for living cells integration
2. Graphene-related materials-enhanced industrial sensors
3. Properties of graphene-related materials suspensions
4. Flexible substrates with enhanced thermal dissipation enabled by layered materials
5. Graphene-related materials-based field effect transistor sensors for viral surveillance
6. Layered material-based antiviral, antibacterial and antifungal coatings



## Human Brain Project – EBRAINS dedicated sub-call

### *Preclinical and clinical neuroscience research through data reuse*

Cross dataset analysis and development of robust modelling and simulations to address ambitious and novel research objectives. Proposals should be primarily based on pooling, harmonisation, transformation and/or reanalysis of existing research datasets or a combination of them

Ongoing projects funded through FLAG-ERA and other national, European or international initiatives such as the ERA-NET NEURON and the JPND are encouraged to broaden their initial objectives by exploring and making use of existing datasets

This sub-call is intended to contribute to the transformation of neurosciences research landscape enabled by Open Science opportunities, such as EBRAINS

## Requirements from the Consortia

- Formation of consortia
  - **At least 3 partners from 3 countries** participating in the call topic
    - Industrial partners eligible for some funders (see call text for details)
  - Consortia should be balanced:
    - **Not more than 60% of the total requested funding may be requested by partners from one country**
- Additional partners
  - Research groups from countries whose funding organisations are not in the call may join a project consortium as long as they are able to secure their own funding
  - These groups/institutions do not count for the 3-3 rule
  - **The coordinator must request funding**

## Evaluation procedure

- **Scientific Evaluation Panel:** 1 panel per sub-call → 1 ranking list per sub-call
  - Some experts with specific knowledge on Open Science and technology transfer
  - People in a proposal **\*cannot\*** be member of the panel
- Each proposal will be evaluated by 3 panel members, plus:
  - If the NB of proposals is high: At least 2 external reviewers will provide reviews
  - Otherwise, 2 additional panel members will be involved
- The panel will be made public on FLAG-ERA website after selection

## Evaluation procedure

### Evaluation criteria

	Graphene (basic research)	Graphene (applied research and innovation)	Human Brain Project – EBRAINS
Relevance to the Topic (threshold 4/5)	25%	25%	25%
Excellence (threshold 3/5)	30%	20%	25%
Implementation (threshold 3/5)	25%	25%	25%
Impact (threshold 3/5)	20%	30%	25%

- Address **all** sub-criteria!
  - Standards aspects & less frequent considerations: Reproducibility, Open Science practices
  - Expected impacts may depend on the topic

## Selection procedure

- Based on ranking list
- Ranking list is followed as far as possible
  - To fund more projects, following options are considered
    - Budget of the respective funder(s) can be increased
    - Budget cut in requested funding (manageable up to 10%)
- If several funding scenarios emerge, selection use secondary criteria:
  - Overall funding of the call is maximised
  - Each funding organisation funds at least one project
  - Projects with higher consideration of gender equality are prioritised
  - Projects involving partners from ‘Widening Countries’ are prioritised

# JTC 2023

## Tentative Timeline



## Feedback to Applicants

- Notification of selection decision
  - Proposal below quality threshold, or
  - Proposal above quality threshold but not selected due to lack of funding, or
  - Proposal selected
- Review feedback
  - A consensus report summarising the panel's view on the proposal is sent to the project coordinator
    - Subsequently report is distributed to all partners by project coordinator
- List of selected projects is published on FLAG-ERA website
- If the proposal is selected, contractual negotiation phase is launched with respective funding organisations involved in the project

# Open Science Policy

*'As open as possible, as closed as necessary'*

- All publications of the project must be available in open access under Creative Commons CC-BY licence or equivalent
  - Full text (version Author Accepted Manuscript - AAM or publisher version - VoR) must be deposited on an open institutional repository
- All data underlying a project output must be widely accessible and deposited on a FAIR-enabling repository together with all the necessary documentation in accordance with the FAIR principles
- All software produced by the project must be available under an open-source licence
  - Software development must be performed on a code hosting platform that allows collaborative development
  - Source code of the software must be stored together with all its development history in the Software Heritage archive



# Open Science Policy

*'As open as possible, as closed as necessary'*

- Data Management Plan (DMP) for accepted projects
  - **At the beginning** of the project
  - Update on a yearly basis
- Open Science Coordinator: New role for projects
  - Planning of Open Science (activities, costs)
  - Monitoring throughout the project lifetime

# Gender Equality

*Promote gender equality in R & I to overcome persisting gender gaps*

- The goal is two-fold:
  - Create gender-equal working environments where all talents can thrive
  - Better integrate the gender dimension in projects research and innovation content to improve research quality as well as the relevance to society of the knowledge, technologies and innovations produced
- To support this ambition:
  - A section of the proposal template is dedicated to gender equality
  - The selection criteria prioritise projects ensuring higher gender equality in case of ex-aequo projects

# Widening Countries

- Widening Countries: List of low performing countries in R&I established by the EC
  - To capture the notion of S&T excellence at the national level a composite indicator was designed along four variables (highly cited publications, high quality patent applications, world class universities and research institutes, high prestige research grants)
  - A country falls into the so-called Widening Countries group when its score is below 70% of the European Union average
- Widening Countries in the JTC 2023: Bulgaria, Estonia, Lithuania, Romania, Slovakia and Slovenia

# Widening Countries

- Spread excellence
  - FLAG-ERA, as a funding instrument of collaborative projects following competition, can be instrumental
    - In opening well established non-Widening Countries research networks to most talented researchers in the Widening Countries
    - Conversely, broader engagement of the Widening Countries research communities has the capacity to enrich the European scientific and technology landscape with varied perspectives and scientific and technology challenges to tackle
- Funding Opportunity: In general, the ratio budget spent/available budget is lower for the funders in Widening Countries
- Incentives:
  - In case of ex aequo projects, priority is given to projects with Widening Countries
  - Some funders apply a higher funding limit when coordinator belongs to a Widening Country

## Practical Toolbox

<https://www.flagera.eu/flag-era-calls/flag-era-joint-transnational-call-jtc-2023/jtc2023-call-announcement/>

### Links to relevant documents

To learn more on the topics, eligibility criteria and the submission of proposals to the JTC2023, please consult the [FLAG-ERA JTC2023 Call Announcement](#).

A [JTC 2023-Partner\(s\) Search Tool](#) for submitting Expressions of Interest (EoI) is currently open. Consult all the [JTC 2023 EoI](#).

FLAG-ERA JTC2023 information Webinar: March 16, 2023 – 10-11.30 am CET

- [JTC2023 information webinar – registration](#)
- [JTC2023 information webinar – connexion link](#)

To prepare your proposal, use the [FLAG-ERA JTC2023 Proposal Form](#).

To help you through the submission process, please consult the [FLAG-ERA JTC 2023 Submission Guidelines](#) (in preparation).

The link to the submission website will be published shortly.

## Practical Toolbox

<https://www.flagera.eu/flag-era-calls/flag-era-joint-transnational-call-jtc-2023/jtc2023-call-announcement/>

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- [JTC2023 information webinar – registration](#)
- [JTC2023 information webinar – content](#)

To prepare your proposal, use the [FLAG-ERA](#)

To help you through the submission process

The link to the submission website will be

### Potential partner looking for a project

**Main topic(s) of interest :** Graphene (Basic Research), Graphene (Applied Research and Innovation)

**Brief description of expertise :**

Department of Catalysis and Chemical Reaction Engineering is primarily invested in chemical (process) engineering, reactor and unit operation design and construction, as well as multi-scale process modelling. The Department topics foremost include carbon dioxide and natural gas conversion, hydrogen and fuel cell technologies, biomass valorisation to bio-based compounds, and (bio)pharmaceutical processes (<https://www.ki.si/en/departments/d13-department-of-catalysis-and-chemical-reaction-engineering/>).

**Keywords :** Modelling, Multi-scale, Simulation, Materials, Optimisation, Ab Initio, In Silico

**First Name :** Matej

E-mail address : [matej.hus@ki.si](mailto:matej.hus@ki.si)

Last Name : Huš

Telephone : 00386 1 4760 373

Country : Slovenia

# Joint Funding Instrument

- **European level**

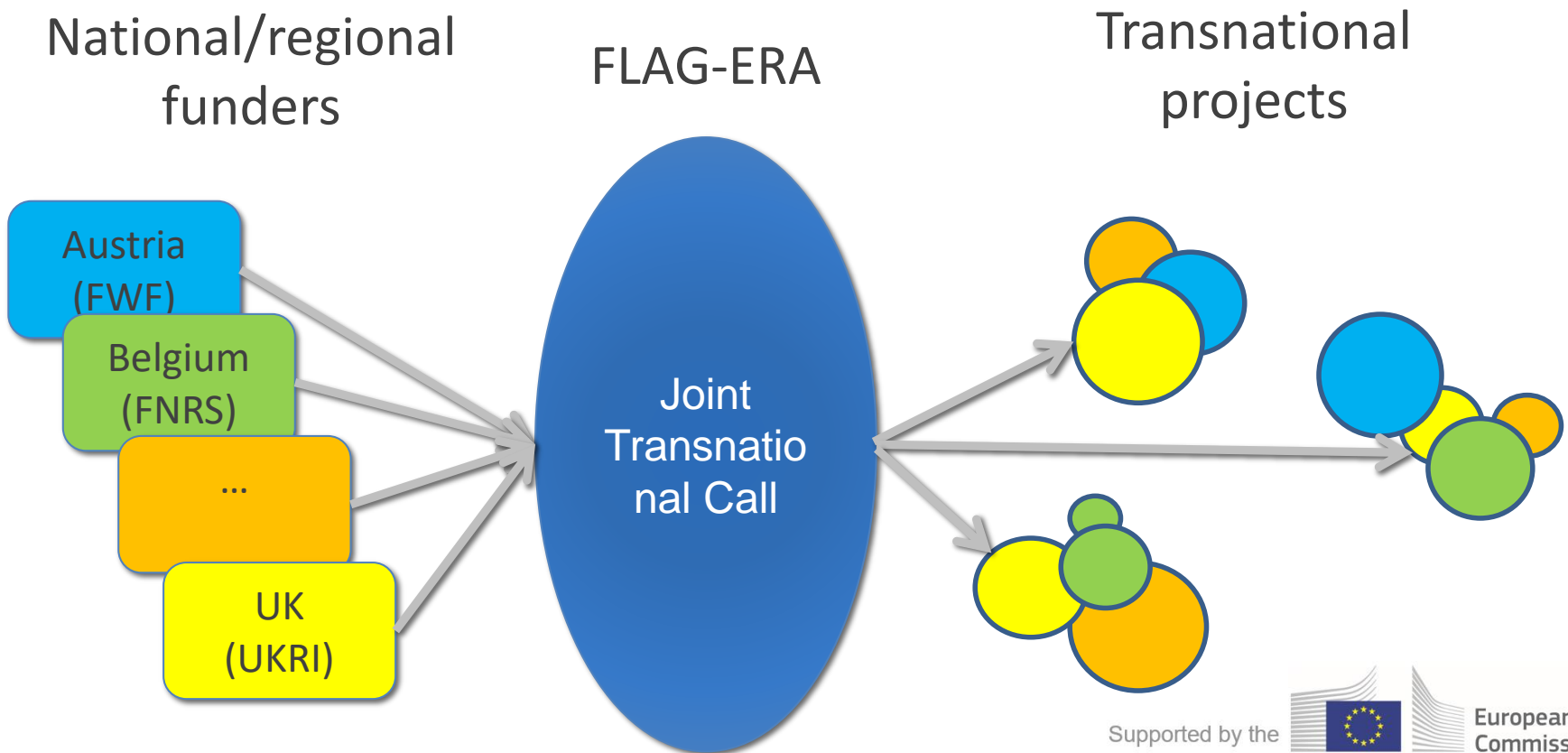
- Formation of collaborative projects
- Submission of proposals
- Evaluation and ranking
- Funding recommendation
- **Contact point: FLAG-ERA Call Secretariat**

- **National/Regional level**

- One **National/Regional Contact Point** for the funding organisation
- For some countries, a separate application to the respective funding organisation by a project partner from that country is needed
- Formal implementation, grant agreement

# Joint Funding Instrument

- No funding across borders
  - Each project partner is funded separately by the respective funding organisation (no common pot)





# Application Procedure

- One-step submission procedure
  - Proposal: Maximum 30 pages
- Each consortium specifies one coordinator
  - Single point of contact for the call secretariat
  - The coordinator must be based in a country participating in the call
- For each project partner, one PI is the point of contact at the national/regional level
- Prior to submission, each PI has to consult with her/his funding organisation regarding eligibility issues:
  - Eligibility of the institution (university, academic institutions, industry,...)
  - Position of the PI (e.g. permanent staff,...)
  - Eligible costs
- The proposal is submitted through the ANR online submission platform
- Some funding organisations require additional national/regional forms

# Recommendations

- Collaboration is essential ingredient
  - Collaboration driven by joint questions, goals and mutual learning
- A long term vision is essential
  - But also a plausible idea on how to get there
  - Aware of ongoing Open Science developments
- Strong encouragement to consider gender equality
- Strong encouragement to involve Widening Countries in the call
- Consider altogether the Call Announcement, the evaluation criteria and the proposal template
  - Common reference for both applicants & evaluators

# Recommendations

- Make sure that your partners have checked their eligibility with the respective funding organisations
- Take into consideration national/regional budget constraints
- Do not hesitate to contact the FLAG-ERA Call Secretariat and your national/regional contact points
- Get used to the electronic submission system sufficiently in advance to prevent any technical risk

# Your Contacts

JTC 2023 information - Lina Bentakouk-Bernard (ANR – France) - [flagera@anr.fr](mailto:flagera@anr.fr)

Country		Funding organisation	Graphene Flagship (basic research)	Graphene Flagship (applied research and innovation)	Human Brain Project – EBRAINS (basic and applied research)	Contact
BE	Belgium	FNRS	Yes	No	Yes	<a href="mailto:international@frs-fnrs.be">international@frs-fnrs.be</a>
BG	Bulgaria	BNSF	Yes	Yes	Yes	<a href="mailto:Milena.Aleksandrova@mon.bg">Milena.Aleksandrova@mon.bg</a>
EE	Estonia	ETAg	Yes	No	Yes	<a href="mailto:Margit.Suuroja@etag.ee">Margit.Suuroja@etag.ee</a>
FR	France	ANR	Yes	Yes	Yes	<a href="mailto:Lina.Bentakouk-Bernard@anr.fr">Lina.Bentakouk-Bernard@anr.fr</a>
DE	Germany	DFG*	Yes	No	No	<a href="mailto:Michael.moessle@dfg.de">Michael.moessle@dfg.de</a> <a href="mailto:Martin.Winger@dfg.de">Martin.Winger@dfg.de</a>
IL	Israel	InnovationAuth*	No	Yes	Yes	<a href="mailto:Dan@iserd.org.il">Dan@iserd.org.il</a>
LT	Lithuania	LMT	Yes	Yes	Yes	<a href="mailto:Saulius.Marcinkonis@lmt.lt">Saulius.Marcinkonis@lmt.lt</a>
NL	The Netherlands	ZonMw	No	No	Yes	<a href="mailto:Durrani@zonmw.nl">Durrani@zonmw.nl</a>
RO	Romania	UEFISCDI	No	Yes	Yes	<a href="mailto:Cristina.Cotet@uefiscdi.ro">Cristina.Cotet@uefiscdi.ro</a> <a href="mailto:Domnica.Cotet@uefiscdi.ro">Domnica.Cotet@uefiscdi.ro</a>
SK	Slovakia	SAS	Yes	Yes	Yes	<a href="mailto:Panisova@up.upsav.sk">Panisova@up.upsav.sk</a>
SI	Slovenia	MIZS	Yes	Yes	Yes	<a href="mailto:Andrej.Ograjensek@gov.si">Andrej.Ograjensek@gov.si</a>
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TW	Taiwan	NSTC	Yes	Yes	Yes	<a href="mailto:cmtom@nstc.gov.tw">cmtom@nstc.gov.tw</a>