

出國報告(出國類別：出席國際會議)

## 台歐盟第二期 Targeted Opening Call 提案 專家評估會議

服務機關：經濟部技術處

姓名職稱：張嘉祥科技專家、周東鳳技正

派赴國家：比利時

出國期間：106年1月21日至26日

報告日期：106年4月13日

## 摘要

台灣與歐盟於「展望 2020」(Horizon 2020)計畫第二期(2016~2017)合作 5G 技術研發，以 5G PPP 公私合作夥伴為題，透過「主題式開放徵案」(Targeted Opening Call)科技研發合作模式，台方提案團隊與歐洲大廠及研究單位攜手介接合作研究開發，台灣團隊計提出 7 案。歐盟訂於 106 年 1 月 23 日至 24 日於比利時歐盟總部審議 H2020 ICT-08-2017-RIA 提案的專家共識與小組討論，爰邀請台方出席以觀察員身分旁聽歐盟審議過程與推薦提案合作優先序。

經過歐盟總部專家共識與小組討論後，台方所提 7 案，其中 5G-CORAL 及 Clear 5G，為首二推薦台歐盟優先支持之合作提案。

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## 壹、會議緣起

歐盟長期以來在全球通訊標準制訂皆扮演領導角色，台灣與歐盟的技術合作，最早源自於 103 年 10 月 21 日，由時任行政院科技會報辦公室鐘嘉德執行秘書率團赴布魯塞爾歐盟總部，與歐盟共同舉辦 5G 發展聯合研討會，參訪團成員包括：科技部、經濟部、教育部、中華電信、華碩、工研院、資訊工業策進會、中山科學研究院、國研院國網中心及相關大學等我國 5G 研發相關代表；其間除參加 5G 發展聯合研討會，規劃與歐盟資通訊科技委員會研商討論 5G 技術發展、合作互惠協議架構及要項，俾利雙方未來實質合作基礎，並與 DG Connect 研商合作互惠協議架構及要項等，同意雙方於「展望 2020」(Horizon 2020) 計畫第二期(2016~2017)合作 5G 技術研發，以 5G PPP 公私合作夥伴為題，台歐官方各別贊助上限 500 萬歐元。

過去 2 年，台歐雙方已建立未來互聯網(Future Internet)的技術連結，並以「主題式開放徵案」(Targeted Opening Call) 建立雙方科技研發合作模式。

「主題式開放徵案」合作框架，為台歐 5G 研發合作提供一個開放創新平台，使台灣廠商在平等互惠地位上，與歐洲大廠及著名研究單位，攜手介接標準和服務互通，加速產業轉型與創造社會福祉，未來將進一步串聯產業鏈上、中、下游與國際接軌，布局下世代行動寬頻應用新興市場。

## 貳、會議目的

由於台歐雙方有「主題式開放徵案」合作倡議，歐盟在 Horizon 2020 計畫 Phase II 2016~2017 Programme ICT 07 徵案提出 "International cooperation with clear EU industrial benefits may be considered, preferably with nations having launched strategic 5G initiatives (e.g. China, Japan, South Korea, Taiwan, USA)"，將台灣列入優先合作國家之一，相關合作計畫遴選也因台灣的加入而達到加分效果。ICT-08 Part b 徵案則更明確指出，計畫提案必須與台灣接取匯流技術合作。

針對 H2020 ICT-08-2017 Part b 計畫徵案，相關法人如工研院、資策會於 105 年 11 月 8 日前提交出 7 個提案，歐盟並訂於 2017.01.23 至 01.24 在比利時布魯塞爾 European Commission 總部舉辦專家評審會議，由臺歐雙方

各 2 位獨立專家擔任評審委員，進行共識審議(Consensus Review)，再經小組討論(Panel Review)，做成提案計畫的建議優先順序。

爰此，歐盟邀請本部派員(如附件 1、附件 2)於 1 月 23 日至 24 日評審現場觀察台歐盟審議過程，以示審查之公正性。

### **參、H2020 - 5G PPP Convergent Technologies - ICT-08-2017 Research and Innovation Actions (RIA) 評審過程**

當台歐研發團隊送出 H2020 ICT-08 Part b 提案後，歐盟即邀聘 4 名（台方 2 名、歐方 2 名）評估員（Reviewer）進行線上獨立審查工作。4 位評估員如下，皆為台歐在通訊領域著名的學者。

1. 台方：陳文村校長，中研院資訊所特聘研究員
2. 台方：李志鵬教授，中山大學電機系
3. 歐盟：Professor Sana Salous, Chair of Communications Engineering in the School of Engineering and Computing Sciences, Professor Sana Salous - Durham University
4. 歐盟：Dr. Sandro Scalise, Head of Department, German Aerospace Center, Institute of Communications and Navigation, Satellite Networks, DLR - Institute of Communications and Navigation - Sandro Scalise

上列評估員依歐盟對提案計畫的評審規範，以下三階段進行評估：

#### ***Stage 1. Individual evaluation (第一階段. 個人審閱)***

- 每個提案由 3 個或更多專家進行獨立閱讀審查，根據三個具體面向進行評估：1. 優越性 (Excellence)、2. 影響性 (Impact)、3. 可執行性 (Implementation)。
- 個別評估員就提案是否符合徵案(Call)的研究範疇提出問題與建議。
- 藉由評估服務系統工具 (Evaluation Service Tool)，每位評估員針對每份提案撰寫提交個人評估報告 (Individual Evaluation Report, IER)。
- 一旦評估員提交 IER 至系統，記錄員 (Recorder) 即可取得相關資料，然後為各提案起草共識報告 (Consensus Report, CR)。

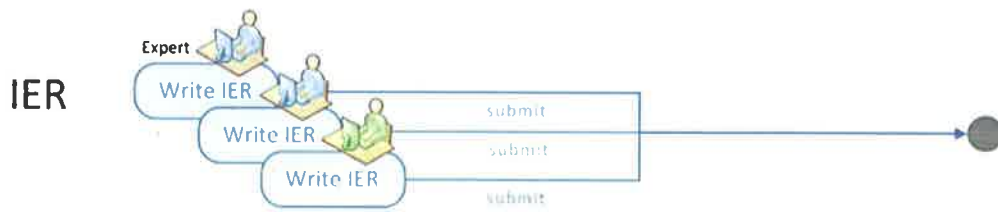


圖 1. 評估員提交個人評估報告

**Stage 2. Consensus Group (第二階段. 形成共識)**

- 由已在線上做出審閱(Individual evaluation)相關提案的專家親赴 European Commission 總部參加評審會議。
- 此任務，評審小組由評審委員會主持人、觀察員、記錄員共同組成。
- 評審小組的目標是提出一個大家一致且同意的看法，相關看法與觀點將保留在共識報告 (Consensus Report) 中。
- 同上，此階段使用評估服務系統工具 (Evaluation Service tool)。

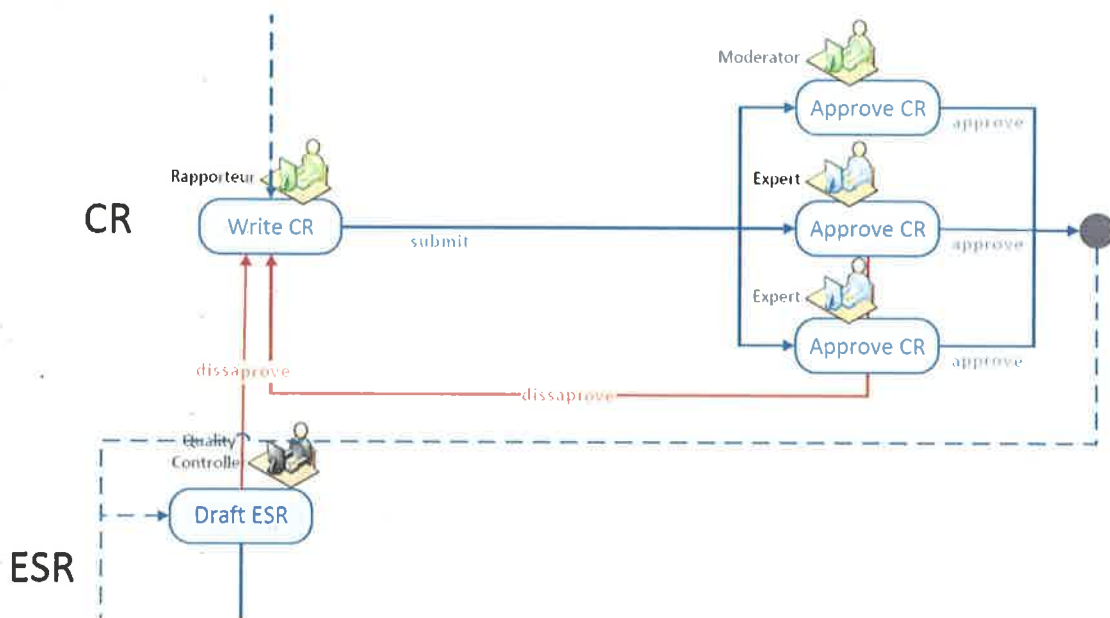


圖 2. Consensus Group Meeting

第二階段主要產出為每個提案計畫的共識報告(Consensus Report)，由歐盟官員擔任會議主席 (Moderator)，指揮會議進程序，主只能提出程序問題，不能發表專業意見，並另安排一位 Recorder 擔任會議紀錄，撰寫及修訂共識報告。

本階段歐方由 Mr. Pertti Jauhiainen 擔任 Moderator，另 Dr. Jorge Pereira (EU Fire Project 負責人) 亦擔任其中一場的 Moderator。Recorder 由丹麥籍 Mr. Peter DE. Soerensen 擔任。本部張嘉祥科技專家和周東鳳技正則應邀以觀察員 (Observer) 名義參與。

Date	Time	Topic	Participants	Other									
2017-01-26 Mon	09:00-10:00	11:00-12:00	13:00-14:00	14:00-15:00	15:00-16:00	16:00-17:00	17:00-18:00	18:00-19:00	19:00-20:00	20:00-21:00	21:00-22:00	22:00-23:00	23:00-24:00
2017-01-27 Tue	09:00-10:00	11:00-12:00	13:00-14:00	14:00-15:00	15:00-16:00	16:00-17:00	17:00-18:00	18:00-19:00	19:00-20:00	20:00-21:00	21:00-22:00	22:00-23:00	23:00-24:00
2017-01-28 Wed	09:00-10:00	11:00-12:00	13:00-14:00	14:00-15:00	15:00-16:00	16:00-17:00	17:00-18:00	18:00-19:00	19:00-20:00	20:00-21:00	21:00-22:00	22:00-23:00	23:00-24:00
2017-01-29 Thu	09:00-10:00	11:00-12:00	13:00-14:00	14:00-15:00	15:00-16:00	16:00-17:00	17:00-18:00	18:00-19:00	19:00-20:00	20:00-21:00	21:00-22:00	22:00-23:00	23:00-24:00
2017-01-30 Fri	09:00-10:00	11:00-12:00	13:00-14:00	14:00-15:00	15:00-16:00	16:00-17:00	17:00-18:00	18:00-19:00	19:00-20:00	20:00-21:00	21:00-22:00	22:00-23:00	23:00-24:00
2017-01-31 Sat	09:00-10:00	11:00-12:00	13:00-14:00	14:00-15:00	15:00-16:00	16:00-17:00	17:00-18:00	18:00-19:00	19:00-20:00	20:00-21:00	21:00-22:00	22:00-23:00	23:00-24:00
2017-02-01 Sun	09:00-10:00	11:00-12:00	13:00-14:00	14:00-15:00	15:00-16:00	16:00-17:00	17:00-18:00	18:00-19:00	19:00-20:00	20:00-21:00	21:00-22:00	22:00-23:00	23:00-24:00
2017-02-02 Mon	09:00-10:00	11:00-12:00	13:00-14:00	14:00-15:00	15:00-16:00	16:00-17:00	17:00-18:00	18:00-19:00	19:00-20:00	20:00-21:00	21:00-22:00	22:00-23:00	23:00-24:00
2017-02-03 Tue	09:00-10:00	11:00-12:00	13:00-14:00	14:00-15:00	15:00-16:00	16:00-17:00	17:00-18:00	18:00-19:00	19:00-20:00	20:00-21:00	21:00-22:00	22:00-23:00	23:00-24:00

圖 3. 歐盟評審 5G PPP 提案及時間場次表



會議主席先請個別評估員發表個案計畫的整體看法、形成初步共識，再繼續於(1) Excellence、(2) Impact、(3) Implementation 這三個評分主軸，討論提案的優缺點並進行評分。三個主軸的評分基準為：每個主軸滿分為 5 分，最高總分為 15 分，10 分則是通過提案的最低門檻。

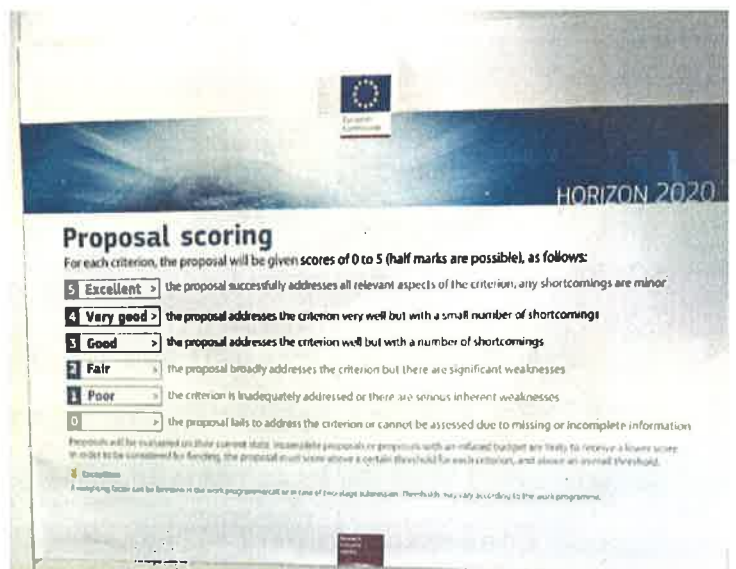


圖 4. 提案評分基準

### Stage 3. Panel Review (第三階段. 專家小組審議)

- 由參與第二階段共識的評估員共同審查討論全部提案的共識報告。
- 此任務，由歐盟執委會的協調員、評估員、記錄員組成專家小組。
- 對於通過最低門檻的提案，由專家小組撰寫一份評估摘要報告 (Evaluation Summary Report, ESR)，後續發送給申請人。

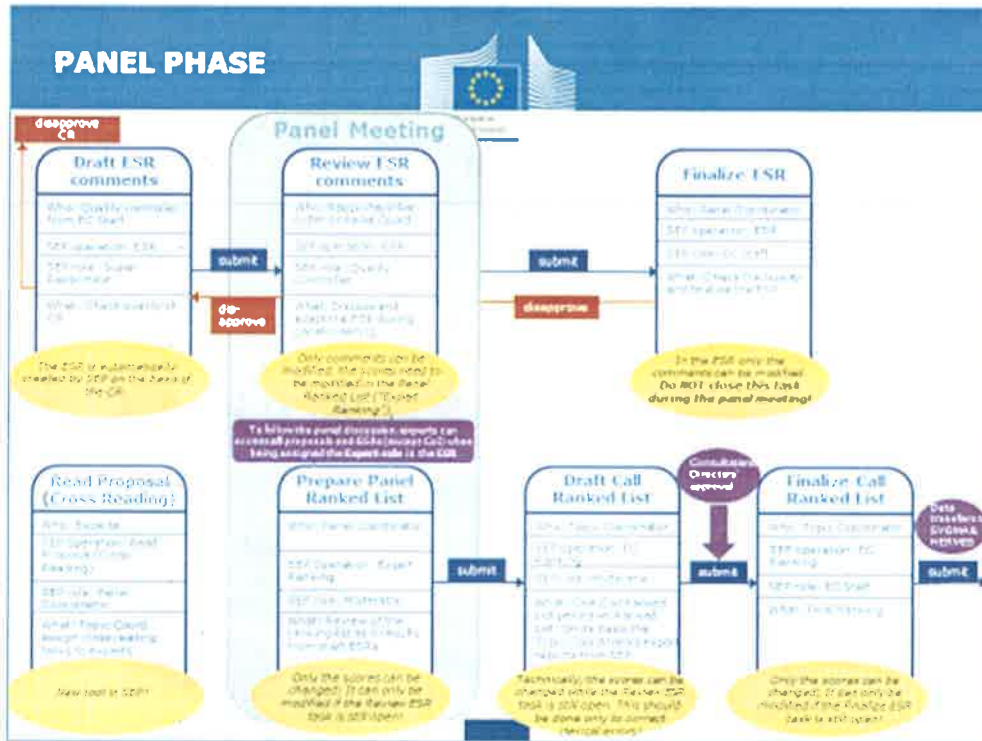


圖 5. Panel Phase

本階段主要撰擬小組報告(Panel Report)，針對合格(10分以上)提案排列優先順序(Panel Ranked List)。

### 肆、會議結論

經過 106/1/23~1/24 在比利時布魯塞爾 European Commission 總部之專家評審，審議 7 項提案依序為：5G-OITS、5G-Unity、5G-Coral、5G Metropol、5G-Slice、5G-Convince、Clear 5G。

每項提案均自(1)Excellence、(2)Impact 和(3) Implementation 三個面向預訂標準來評分，每面向滿分為 5 分，最高總分為 15 分，提案計畫首先必須達到 10 分是通過(Pass)進入排序的最低門檻。之後再由台歐雙方審議委員的共識(Consensus Report stage)與專家小組審議(Panel Review)，排定通過計畫的優先順序(Ranking List)，並提出專家小組報告(Panel Report)，如



附件 3)。

此次，台灣提案的 7 個計畫有 5 個計畫通過歐盟計畫最低標準要求 - 10 分，其中 5G-CORAL 及 Clear 5G 二提案，為首二推薦台歐優先支持之合作提案。

## 伍、心得與建議

本次現場觀察台歐盟提案審查，深切發現歐盟 H2020 計畫審查係依獨立審閱、會議主持人和紀錄員參與，無須提案團隊出席詢答，所以相當省時省力。由於無須提案團隊參加答辯，所以提案品質的可讀性皆具有一定水準，提案團隊事先能做完善的規劃，亦可強化計畫的成果。

審查中，歐盟官員只負責會議程序的進行，專業則由評估員的共識與小組討論決定，權責劃分清楚。歐盟評估員很重視提案團隊過去成果，並非常重視內容的一致性及完整性，尤其有關提案團隊的組合，歐盟相當重視台灣和歐盟的均衡性，在總計畫層面與在分項 (work package) 層面都希望台灣與歐盟是適當的分工，某些提案就因規劃投入過多人力而引起質疑。

此次官方派員觀察 H2020-5G PPP Convergent Technologies - ICT-08-2017-RIA 計畫第二、第三階段的評審，除瞭解歐盟科研計畫評選機制的運作之外，並可借鏡開放徵求合作計畫的運作方式，與歐盟執委會維持良好互動關係，累積國際人脈，以利後續第三期計畫之規劃與推動，台歐可由 5G 擴及 IoT 等其他領域之合作機會。

由於台灣政府在 Targeted opening call 沒有特定的法律地位，所以這次審查會議前，官方看不到提案計畫書。本次也藉此與主席 Mr. Pertti Jauhainen 私下協調，下次 EU-TW 5G Targeted Opening Call Phase 3 (H2020-ICT-2018) 將由台灣官方直接向歐盟要求提供提案計畫書，以及修改計畫從台灣提送到歐盟的流程等。

建議後續台歐盟第三期合作能建立更為完善的合作與控管機制，在提案之初，內部即進行技術審查與行政審查，如支應的科專計畫與經費來源、與既有科專計畫的關聯性與互補性等；對外，台灣官方可直接向歐盟要求提供提案計畫書，改善台方計畫的提交流程，以期順利執行相關計畫、最大化台歐盟 H2020 計畫合作效益。

## 附件 1：我方官方代表名單

No.	Name	Title
1.	張嘉祥 CHANG, CHA-SHENG	Deputy General Director, Dept. of Industrial Technology, Ministry of Economic Affairs
2.	周東鳳 CHOU, TUNG-FENG	Specialist, Dept. of Industrial Technology, Ministry of Economic Affairs

### 歐盟邀請信件：

寄件者: Periti Jauhainen (periti@ec.europa.eu)  
 寄件日期: 2017年12月14日 星期四 15:13:24  
 收件者: 張嘉祥  
 副本: chs.ch@piti.org.tw  
 主題: Taiwan targeted opening call for Horizon 2020 evaluation ICT-08-2017 RIA

Dear Dr. Chia Hsiang Chang,

As we have discussed in the planning for the evaluation of the specific targeted call with Taiwan, officially named ICT-08-2017 RIA in the EU Horizon 2020 Work Programme 2016-2017, we are happy to invite as an observer of the evaluation process a Taiwanese government official. The criteria for the retained proposals of the call are that the proposal shall include at least one participant from Taiwan and that the proposals will only be selected on the condition that the Taiwanese partners are funded by the Taiwan government.

I understand from Mr. Ching-Tang Hsieh that you would be interested to participate in the evaluation as an observer as a representative of the Ministry of Economic Affairs (MoEA), and we would like to invite you to attend the evaluation that will take place in Brussels on January 17-18, 2018 (proposal Commission "Covent Garden" funded by "Ministry of Economic Affairs, Taiwan" ID: 101700000000).

The evaluation will take place in Brussels on Jan 17-18, 2018, starting with a general briefing for all evaluators covering the overall evaluation process and this will be followed with a specific briefing of the targeted Taiwan call, and after these briefings 7 proposals will be evaluated in a specific consensus meeting for each proposal in which the four individual evaluators assigned to each proposal will agree on a common score and result. These consensus meetings are moderated by an EU official and you are invited to participate as an observer in these meetings and also in the closing panel meeting (late afternoon on Jan. 24) after all the consensus meetings have been finalised which has the purpose to ensure that all the proposals were evaluated in a fair and similar way and confirm the ranking of the proposals.

The EU has had other international calls in Horizon 2020 in the 5G area, and in the cases of the joint calls with Japan and South Korea, representatives from the funding agencies involved of those countries have been involved in a similar way as above described. Formally though, the 'joint call' and 'targeted opening' are different funding instruments and in the cases of the 'joint calls' with Japan and South Korea the government officials of those countries have been formally 'co-moderators' together with an EU official in the consensus meetings of the proposals, so in these cases they have been 'required' to participate. In the case of a 'targeted opening' as this part of a 'normal' (in this case a 5G-PPP call), the rules for participation do not require neither specific evaluators from Taiwan nor a formal 'co-moderator', but for the purpose of transparency we have agreed that there will be two evaluators from both EU and Taiwan, and we offer that you as a government representative can take part as an observer (but this is of course then on voluntarily basis from your side).

I hope this describes a little bit the process, the observer role, and that you will be able to attend. I am looking forward to meet you in that case in Brussels for the evaluation.

Regards,

Periti Jauhainen

Responsible for the Taiwan targeted opening call: ICT-08-2017 RIA  
 Future Connectivity Systems  
 European Commission

## 附件 2：官方代表行程

日期	行程內容
1 月 22 日	台方代表抵達布魯塞爾
1 月 23 日 上午	專家 on-site briefing 會議 會議地點：European Commission "Covent Garden" building: Place Rogier, 16, Brussels
1 月 23 日 下午	召開評審會議，共 7 案，每案評審時間預計 1~2 小時
1 月 24 日	召開評審會議 1. 完成 7 案評審計分 2. 決定評比及候選名單
1 月 25 日	台方代表離開布魯塞爾，返回臺灣

## 附件 3 : Panel Report (小組報告)

### PANEL REPORT

⚠ One report per panel ranked list (= per topic/type of action with a separate call budget split)

- Instructions and footnotes in blue should be deleted
- For options (in square brackets) choose the option that applies (Options not chosen and the brackets should be deleted.)
- For fields in [grey in square brackets] enter the appropriate data (and take out the grey colour and the brackets).

This template is NOT IT-supported. It must be prepared manually by the panel rapporteur (by choosing and deleting the options/entering the appropriate data) and validated and filed by the panel chair in ARES and cross-referenced in SEP. For the filing, if you cannot find the right HORIZON 2020 folder in ARES, please contact your DMO.

⚠ If there are no panel meeting minutes, the panel report must be signed by the majority of the experts present at the panel meeting.



Brussels, 24/01/2017

### PANEL REPORT

Programme: Horizon 2020 Framework Programme  
Call for proposals: H2020 – 5G PPP Convergent Technologies - ICT-08-2017-RIA  
Type of action: RIA  
Call deadline: 08.11.2016

**Panel: ICT-08-2017-RIA**

**Date of panel review: 24.01.2017**

**Evaluators (panel members):**

**Names<sup>1</sup> (and role, if other than evaluator)**

Wen-Tsun CHEN	Chih-Peng LI	Sana SALOUS
Sandro SCALISE	Pertti JAUIHAINEN (Moderator)	Peter D. SORENSEN (Recorder)

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Annex 5 Panel meeting minutes

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Annex 7 Report on SEP actions on behalf of experts

Annex 8 Report on conflict of interests

**1. Background and scope**

This report describes the results of the **panel review for the evaluation of H2020 – 5G PPP Convergent Technologies - ICT-08-2017-RIA** that is part of:

**Call for proposals: H2020 – 5G PPP Convergent Technologies - ICT-08-2017-RIA**  
**Published: 10.05.2016**  
**Deadline: 08.11.2016**  
**Budget: EUR 5 million**

This call covers the following topic(s)/type(s) of action:

Topic code	Topic name	Type(s) of action
ICT-08-2017-RIA	5G PPP Convergent Technologies	RIA

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The evaluation was made in accordance with Articles 14 and 15 of the Rules for Participation, Article 133(1) of the Financial Regulation and Article 204(1) of the Rules of Application, the rules of the applicable work programme/call and in line with the applicable guidance documents.

## 2. Panel review

The panel examined and compared the consensus reports (CRs) of the proposals and checked consistency of the comments and the scores against the award criteria set out in the work programme/call ('evaluation').

The panel also examined the answers (if any) to the **additional questions** asked, i.e.:

- operational capacity of the applicants
- exceptional funding for third country participants/international organisations
- use of human embryonic stem cells (hESC)

The panel made – for each proposal – an **evaluation summary report (ESR)** (see Annex 3).

On the basis of the scores in the evaluation summary reports, the panel then made a **panel ranked list** (see Annex 1) – recommending (if necessary) a **priority order** for proposals with the same score (in accordance with the procedure set out in the work programme/call).

### 2.1 Analysis of consensus results — Evaluation summary reports (ESR)

After analysis of the consensus results the panel considers the evaluation consistent. The scores and the comments on the award criteria in the **consensus reports** are **confirmed**.

### 2.2 Panel ranked list — Priority order

On the basis of the scores retained in the 'evaluation summary reports (ESRs)', the panel made a '**panel ranked list**' for above-threshold proposals.

This ranking is based on the overall score (defined as the *unweighted* sum of the scores of the individual award criteria).

### 2.3 Evaluation outcome

**Table A:** Number of evaluated proposals and evaluation outcome

Topic code	Number of evaluated proposals	Number of below-threshold proposals		Number of above-threshold proposals	
		Number	Percentage	Number	Percentage
ICT-08-2017-RIA	7	2	29%	5	71%
<b>TOTAL</b>		<b>2</b>	<b>29%</b>	<b>5</b>	<b>71%</b>

For the panel ranked list, along with a final score and the panel's recommendations for priority order, see Annex 1.

For the list of below-threshold proposals, see Annex 2.

For the evaluation summary reports (ESRs), see Annex 3.

### 3. Additional comments and recommendations


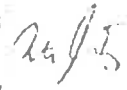

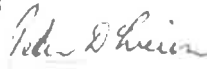

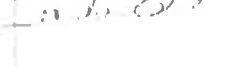
The panel has the following comments and observations: This was the first joint EU/Taiwan call and there was a fruitful cooperation and discussion between the evaluators. All the proposals covered the call scope in an appropriate manner.

The Taiwanese evaluators appreciated the rigorous EU evaluation process used.

Peter D. Soerensen

Panel rapporteur

#### Signatures:

Name	Signature	Name	Signature
Wen-Tsuen CHEN		Petri JAUHAINEN (Moderator)	
Chih-Peng LI		Peter D. SORENSEN (Recorder)	
Sana SALOUS			
Sandro SCALISE			

Annex I

Prop. number	Acronym	Score	Proposal budget	Requested funding	Cumulative funding
761586	5G-CORAL	14.00	4224223 75	2497223 75	2497223 75
761745	Clear5G	13.00	2498616 25	2498616 25	4995840 00
761449	5G-UNITY	12.00	4837856 25	2498856 25	7494696 25
762184	5G Metropol	11.50	2638940	2638940	10133636 25
761958	5G-CONVINCE	10.50	2495898 75	2495898 75	12629535 00
761465	5GOITS	9 00	3040212 5	1917712 5	14547247 50
761726	SLICES	8 00	5424962 5	2948712 5	17495960 00



ANNEX 3

LIST OF EVALUATION SUMMARY REPORTS (ESRS)

The evaluation summary reports for the following proposals are attached:

Proposal ID	Acronym	Proposal ID	Acronym	Proposal ID	Acronym

HISTORY OF CHANGES		
DATE	DESCRIPTION	AMOUNT
01-01-00	INITIAL DEPOSIT	100000.00
03-01-00	ADJUSTMENT	100000.00
05-01-00	ADJUSTMENT	100000.00
07-01-00	ADJUSTMENT	100000.00
09-01-00	ADJUSTMENT	100000.00
11-01-00	ADJUSTMENT	100000.00
01-01-01	ADJUSTMENT	100000.00
03-01-01	ADJUSTMENT	100000.00
05-01-01	ADJUSTMENT	100000.00
07-01-01	ADJUSTMENT	100000.00
09-01-01	ADJUSTMENT	100000.00
11-01-01	ADJUSTMENT	100000.00
01-01-02	ADJUSTMENT	100000.00
03-01-02	ADJUSTMENT	100000.00
05-01-02	ADJUSTMENT	100000.00
07-01-02	ADJUSTMENT	100000.00
09-01-02	ADJUSTMENT	100000.00
11-01-02	ADJUSTMENT	100000.00