

### FIT-4-NMP training for the Horizon Europe Twinning Call

Tuesday 9<sup>th</sup> November 2021

#### Agenda

- 09:30 Introduction to the Twinning call (policy background, call requirements, evaluation criteria) **Aurelija Povilaikė**, Widening NCP for Lithuania
- 09:45 Tips on how to structure and write a Twinning proposal **Giles Brandon**, FIT-4-NMP Coordinator and Experienced Proposal Writer
- 10:15 Question and Answer Session with the audience
- 10:25 Why register with FIT-4-NMP? **Giles Brandon**, FIT-4-NMP Coordinator



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 958255







Strategic and targeted support to incentivise talented newcomers to NMP projects under Horizon Europe

### Tips on how to structure and write a Twinning proposal

Giles Brandon, Intelligentsia Consultants



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### Agenda

- Essential documents
- How to structure a Twinning Network
- How to structure a Twinning Proposal
- Ideas to consider for Section 1
- Ideas to consider for Section 2
- Ideas to consider for Section 3





### **Two Essential Documents**



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### CSA form (Part B) for a Twinning proposal



**Total length:** 

only 30 pages

1. Excellence

1.1 Objectives [EC recommended length: 2 pages]

1.2 Coordination and/or support measures and methodology [EC recommended length: 6 pages]

2. Impact

2.1 Project's pathways towards impact [EC recommended length: 4 pages]
2.2 Measures to maximise impact - Dissemination, exploitation and communication
2.3 Summary [EC recommended length: 5 pages for Sections 2.2 and 2.3]

3. Quality and efficiency of the implementation

3.1 Work plan and resources [EC recommended length: 10 pages – including tables]
3.2 Capacity of participants and consortium as a whole [EC recommended length: 3 pages]

- Don't deviate more than ½-1 page from the recommended limits!
- Start Section 1.1 on the proposal cover page!





### Section 1: Excellence



- Section 1.1
  - Demonstrate proposal's pertinence to the work programme
- Section 1.2
  - Why the research is important from a national and EU perspective
  - SWOT analysis
  - Specify scientific targets for the exploratory research project





### Demonstrate proposal's relevance to the work programme (Section 1.1)

Scope of the call HORIZON-WIDERA-2021-ACCESS-03-01:	How/where this proposal addresses the		
Twinning	scope of the call		
Twinning aims to enhance networking activities between the	Coordinator: ?? (Widening country)		
research institutions (RIs) of the Widening countries and top-	Two leading RIs: ?? (Country), ?? (Country)		
class leading counterparts at EU level by linking it with at least			
two research institutions from two different MS or AC.			
Twinning proposals should clearly outline the scientific strategy	The proposal's scientific strategy is focused		
for stepping up and stimulating scientific excellence and	on ?? where the Twinning partners have		
innovation capacity in a defined area of research as well as the	world class researchers in the domain.		
scientific quality of the partners involved.			
Extract other important requirements from the call text	Indicate where the proposal addresses the		
	requirement e.g see Section 1.2		
Etc	Etc		



Include such a table in Section 1.1

## Why the research is important from a national and EU perspective (Section 1.2)

- Concisely describe why the research topic is important (1/2 1 page)
- National level
  - Reference SMART specialization strategy (S3) and/or
  - Reference national research and innovation strategy/policies
- EU level
  - Reference research and innovation priorities in Horizon Europe and/or
  - Reference European Partnership's research and innovation priorities
     e.g. Processes4Planet



### SWOT Analysis (Section 1.2)



		Strengths (S) and Weaknesses (W) of Coordinator	C	Opportunities (O) and Threats (T) faced by Coordinator				
	<u>Stre</u>	ngths	Opp	portunities				
	1	Strong expertise in a wide range of logistics and logistics	1.	Potential to participate in logistics and ICT technologies				
	<u> </u>	technology related research topics.		projects funded by national authority				
Be specific =	$\leq$	Good cooperation of the Institute of Logistics with	2.	Potential to participate in Horizon Europe research and				
More convincing	<u>!</u>	various industrial partners (e.g. automotive, electronics,		innovation actions				
$\sim \Gamma$		manufacturing, logistics).	3.	Potential for further research capacity building via				
	3.	Free access to the university's facilities and equipment		European Structural Funds				
		(e.g. manufacturing engineering, ICT, logistics, simulation	4.	Potential to develop RTD projects with international				
		computing, etc.)		research organisations as well as private clients				
	4.	Good contact with national and European industrial	5.	Potential to become a top European actor in logistics				
		actors with interest in the Institute research and		research and innovation				
		development activities						
1	Wea	aknesses	Thre	eats				
	<u>Wea</u> 1.	aknesses Low financial resources received directly from national	<u>Thr</u> 1.	<u>eats</u> Fluctuation in national R&D funding due to changing				
	<u>Wea</u> 1.	aknesses Low financial resources received directly from national government and significant reduction of national funding	<u>Thro</u> 1.	eats Fluctuation in national R&D funding due to changing priorities of government budget formation				
	<u>Wea</u> 1.	aknesses Low financial resources received directly from national government and significant reduction of national funding for research and innovation	<u>Thro</u> 1. 2.	eats Fluctuation in national R&D funding due to changing priorities of government budget formation High competition to access European research projects				
Explain how your	<u>Wea</u> 1.	aknesses Low financial resources received directly from national government and significant reduction of national funding for research and innovation Lack of job opportunities for young researchers leads to	<u>Thro</u> 1. 2.	eats Fluctuation in national R&D funding due to changing priorities of government budget formation High competition to access European research projects and lack of trained researchers and managers to fully				
Explain how your scientific strategy	<u>Wea</u> 1.	aknesses Low financial resources received directly from national government and significant reduction of national funding for research and innovation Lack of job opportunities for young researchers leads to decrease in capability to fully exploit recent	<u>Thro</u> 1. 2.	eats Fluctuation in national R&D funding due to changing priorities of government budget formation High competition to access European research projects and lack of trained researchers and managers to fully exploit opportunities with Horizon Europe projects				
Explain how your scientific strategy (objectives)	<u>Wea</u> 1.	aknesses Low financial resources received directly from national government and significant reduction of national funding for research and innovation Lack of job opportunities for young researchers leads to decrease in capability to fully exploit recent developments in logistics	<u>Thro</u> 1. 2. 3.	eats Fluctuation in national R&D funding due to changing priorities of government budget formation High competition to access European research projects and lack of trained researchers and managers to fully exploit opportunities with Horizon Europe projects Lack of trained researchers and managers to fully				
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# Specify scientific targets for the exploratory research project (Section 1.2)

<b>TADF</b> material	PL Max. in	PLQY in	Max.	Max.	OLED Lifetime
as OLED	toluene,	hosted film,	OLED	OLED	LT50@3000cd/m <sup>2</sup> ,
emitters	nm	%	EQE, %	PE, Im/W	hrs
Blue	460-490	>60	>15	>20	>500
Green	510-540	>70	>20	>80	>1000
Red	610-650	>60	>15	>20	>1000
	TADF material as OLED emitters Blue Green Red	TADF material as OLEDPL Max. in toluene, emittersemittersnmBlue460-490Green510-540Red610-650	TADF material as OLEDPL Max. in toluene, nmPLQY in hosted film, %emittersnm%Blue460-490>60Green510-540>70Red610-650>60	TADF material as OLED emittersPL Max. in toluene, nmPLQY in hosted film, %Max. OLED EQE, %Blue460-490>60>15Green510-540>70>20Red610-650>60>15	TADF material as OLED emittersPL Max. in toluene, nmPLQY in hosted film, %Max. OLED EQE,%Max. OLED PE, Im/WBlue460-490>60>15>20Green510-540>70>20>80Red610-650>60>15>20

Demonstrate how your exploratory research will be at the state-of-the-art or beyond ...



#### Section 2: Impact

- Section 2.1
  - Contribution to expected outcomes (qualitative and quantitative)
  - Potential barriers arising from factors beyond the scope and duration of the project
- Section 2.2
  - Dissemination and Communication Plan
  - Strategy for the management of intellectual property





## Qualitative contribution to expected outcomes (Section 2.1)

Write about 2 pages in a <u>narrative style</u>

- Outcome 1: Improved excellence capacity and resources in Widening countries enabling to close the still apparent research and innovation gap within Europe.
- Outcome 2: Enhanced strategic networking activities between the research institutions of the Widening countries and at least two internationally-leading counterparts at EU level.
- Outcome 3: Raised reputation, research profile and attractiveness of the coordinating institution from the Widening country and the research profile of its staff.
- Outcome 4: Strengthened research management capacities and administrative skills of the staff working in institutions from the Widening country.
- Outcome 5: Improved creativity supported by development of new approaches in R&I collaboration, increased mobility (inwards and outwards) of qualified scientists.







Expected Outcomes	WP	Performance Indicators	Target
Outcome 1: Improved excellence capacity and resources in Widening countries enabling to close the still apparent research and innovation gap within Europe.	1, 2, 3 and 5	<ul> <li>Coordinator's senior researchers trained in Research Topic ???</li> <li>Coordinator's junior researchers trained in Research Topic ???</li> <li>Summer schools hosted by partners</li> <li>Joint research papers published in international peer-reviewed journals</li> <li>Joint research papers presented at international conferences</li> <li>Patents submitted by Coordinator</li> <li>Collaboration agreements between Coordinator and private companies</li> </ul>	?? ?? ?? ?? ??
Outcome 2: Enhanced strategic networking activities between the research institutions of the Widening countries and at least two internationally-leading counterparts at EU level.	1, 2, 3, 4 and 5	<ul> <li>Total person-months (PMs) of exchanges of senior researchers between partners</li> <li>Total PMs of exchanges of junior researchers between partners</li> <li>Total PMs of exchanges of mgt. and admin. staff between partners</li> <li>Summer schools hosted by partners</li> <li>Joint research papers published in international peer-reviewed journals</li> <li>Joint research papers presented at international conferences</li> </ul>	?? ?? ?? ??
Outcome 3	etc	• etc	etc





- Scientific related barriers
  - Describe 3-4 challenges/barriers specific to the research topic and/or
  - Describe 3-4 challenges/barriers identified by relevant European Partnerships e.g. Made in Europe
- Country related
  - Describe 3-4 challenges/barriers faced by your country's research and innovation system

For <u>each</u> challenge/barrier, describe a mitigation measure the project will take!





### Dissemination and Communication Plan (Section 2.2)

Dissemination and Communication Plan						
Project result	Partners Concerned	Dissemination Activity	Target audience	Indicator & Target		
Project leaflet and poster	Coordinator and Twinning Partners	Distribute during international conferences (e.g. X, Y, Z, etc.), training	Scientists, engineers and general public	250+ leaflets distributed,		
Press conferences	Coordinator	Press conferences at the start and end of the project	Regional and national news media (radio, TV and print newspapers)	2 conferences, 5+ journalists		
Project news	Coordinator and Twinning Partners	Publish project news releases and distribute through broader scientific news channels	Scientists, engineers and general public	2+ press releases		
Project website	Coordinator and Twinning Partners	Publish project summary, regular news and event updates on website	Scientists, engineers and general public	2500+ visitors		
etc	etc	etc	etc	etc		





### Strategy for the management of intellectual property (Section 2.2)

Include 1	tables that capture		
foregro	bund knowledge! Background Knowledge		Partners Concerned
	Device architecture for state-of-the-art OLEDs, especially using phosphoresce	ent emitters	Coordinator
	Performance impact of parameter variations on OLED device performance for	typical stack	Partner #1
	architectures (trade-offs etc.)		
	Physico-chemical properties required from OLED materials for good device pe	erformance	Partner #2
	(e.g. purity, energy levels, glass transition temperature etc.)		
	etc		etc
	Possible Foreground Knowledge	Partners Concerned	Other Partners claiming Ownership Rights
	Synthesis routes, scale up and purification processes for sterical shielding of compounds	Coordinator	Partner #2
	Stack architectures optimised for TADF plus shielded emitter concept	Coordinator	-
	Fluorescent core structures and shielded emitters based on these for different emission colours	Partner #1	Partner #2
	etc	etc	etc





#### Section 3: Implementation

- Section 3.1
  - WP2 and WP3 (Exchanges involving senior/young researchers)
  - Budget





### WP2 and WP3 (Exchanges involving senior/junior researchers) (Section 3.1)

Show you have a concrete plan
- include secondment tables! <

Voar	Coordinator	Partner #1		
Tear	Researcher	PMs	Researcher	PMs
	Danny Wilson	2	Helene Arnaud	1
1	Graham Mills	0.5	Francoise Hoss	1.25
L 1	Rebecca Moore	1.25 /	Claude Hollande	0.5
	Sharon Raymond	0.25	Benoit Leroy	2
	Danny Wilson	0.5	Helene Arnaud	0.5
2	Graham Mills	0.75	Francoise Hoss	1
2	Rebecca Moore	1	Claude Hollande	2
	Sharon Raymond	2	Benoit Leroy	1.5
	Danny Wilson	0.5	Helene Arnaud	0.25
2	Graham Mills	0.5	Francoise Hoss	0.75
5	Rebecca Moore	2	Claude Hollande	1.5
	Sharon Raymond	1.25	Benoit Leroy	0.75



#### Budget (Section 3.1)

Include some pie charts to illustrate how your budget and efforts (PMs) are allocated!



### Questions and Answers about Twinning call (5-10 minutes)





### Good luck with your Twinning proposals!





### Are you a talented newcomer and interested to receive further FIT-4-NMP support?

 Check eligibility of you region (FIT-4-NMP offers support to prioritized underrepresented regions)

Express your interest by completing the registration form
 https://www.fit-4-nmp.eu









### www.fit-4-nmp.eu

**Coordinator Contact Details** 

**Giles Brandon** 

Intelligentsia Consultants

giles.brandon [at] intelligentsia-consultants.com