

D7.1 - First report on project Open Calls

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Abstract

This deliverable summarizes activities of the 5GINFIRE project and its Work Package 7 (WP7) related to implementation of the competitive open calls during the period January 2017 – June 2018. The main purposes of the competitive 5GINFIRE open calls are to allow experimentation on the top of the 5GINFIRE infrastructure, to extend portfolio of the 5GINFIRE experimental facilities in terms of inclusion of new testbed and implementation of additional functionalities in 5GINFIRE.

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Executive summary

This deliverable summarizes activities of the 5GINFIRE project and its Work Package 7 (WP7) related to implementation of the competitive open calls during the period January 2017 – June 2018. The main purposes of the competitive 5GINFIRE open calls are to allow experimentation on the top of the 5GINFIRE infrastructure, to extend portfolio of the 5GINFIRE experimental facilities in terms of inclusion of new testbed and implementation of additional functionalities in 5GINFIRE.

Accordingly, the overall goal is to o prepare and implement the open calls and to establish and follow-up formal agreements and reporting with the successful third parties — accepted after the open call evaluations along two planned general 5GINFIRE Open Calls divided into several open call implementation phases.

The 5GINFIRE project established all necessary processes for implementation of competitive open calls, which included the following activities:

- Process for technical and formal definition of the open calls
- Templates for open call proposals
- Wide promotion of the open calls
- Submission tool
- Permanent support for potential proposers
- Evaluation criteria and needed evaluation forms
- Group of independent experts for evaluation of open call proposals
- Evaluation process consisting of remote evaluations and consensus meetings

Until now, the 5GINFIRE project implemented first phase of its 1st Open Call for experimenters as well as new infrastructures and functionalities. The overall response to the open call was very good – 43 proposals, 8 proposals accepted along the following two categories of the Open Call:

- For experiments, 25 proposals have been received and five of them selected
- For new infrastructures and functionalities, 18 proposals have been received and three accepted

The successful third parties started their work in 5GINFIRE in May 2018.

The second phase of the 1st Open Call, have been announced with the submission deadline on 19 September 2018. Planed start of work for the successful proposers is in November/December 2018.

The 2nd 5GINFIRE Open Call is planned to open in September 2018 and will be organized in two-three phases until mid of 2019 so that corresponding work can be concluded until project end in December 2019.

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ALL partners		Contributions to definition of open calls

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1 Introduction

This deliverable summarizes activities of the 5GINFIRE project and its Work Package 7 (WP7) related to implementation of the competitive open calls during the period January 2017 – June 2018.

The main purposes of the competitive 5GINFIRE open calls are:

- Invite experimenters to use the 5ginFIRE EVI environment such as from Automotive or smart city, as it is, taking advantage of the provided EVI features such as SDN, NFV and VxFs to test vertical applications
- Invite open source developers to provide missing functionality that is necessary for the lifecycle management of infrastructure components that enable virtualized infrastructures.
- Invite designers and facilities providers of other verticals to take advantage of the 5GinFIRE toolsets, facilities and best practices, and instantiate new EVIs from other vertical industries

Accordingly, the overall WP7 goal is to o prepare and implement the open calls and to establish and follow-up formal agreements and reporting with the successful third parties – accepted after the open call evaluations. The open calls are planned to be organized for various types of experiments as well as for inclusion of new infrastructures and functionalities in accordance with the general schedule presented below.

1			1 1	Implementation and experimentation by third parties
1st OC	M10	M12	M13 – M15	M16 – M21
2nd OC	M22	M24	M25 – M27	M28 – M33

For the time when this report has been prepared, the project implemented first phase of the 1st Open Call and the experiments and new infrastructures, accepted in the call, started related implementation work. The second phase of the 1st Open Call has been defined and announced, so that the corresponding proposals can be submitted.

The document is organized as follows; in sec. 2 the entire process of implementation of the open calls is presented. Details about the first and second phases of the 1st Open Call are presented in sections 3 and 4, respectively.

2 Implementation of open calls

2.1 Definition of open calls

Technical scope of the open calls has been defined through collaboration and with the project consortium, to identify the most relevant topics for each of the Open Calls. Outcomes of these discussions have been used to define each of the open calls in details.

Furthermore, formal requirements and eligibility criteria have been defined for the open calls along the following principles:

- Proposals will only be accepted from a single party eligible for participation in EC H2020-projects.
- Proposers' organizations can submit multiple proposals, but only one proposal per (sub-) category and per single organization (in total maximum two proposals from a single organization) might be selected for funding in this Open Call.
- The proposal has to be submitted in English language through the 5GINFIRE submission tool by using specific proposal template.

For each of the calls, a full definition of the open call has been created and published within the corresponding public open call information (e.g. project website). Short versions of the open calls definitions are also provided in, as is presented in Sec. 3 and 4 for all completed and ongoing open calls.

To support the potential proposers and make the proposal phase as efficient as possible, for both proposers and evaluators, proposal templates have been created for each type proposal and published on the open call web page within the project website (templates also provided in Annex A).

2.2 Submission phase

In order to receive proposals for the open calls, Eurescom established and maintained a submission tool (Figure 1), enabling updates of the submitted proposals until a set deadline, collecting all necessary information from the proposers (proposal title and short names, contact persons, organizations, countries, etc.), and allowing a proper documentation on all relevant proposal and submission processes.

Another important activity during the submission phase, starting immediately after an open call has been published, is a wide promotion of the open calls through various channels. For this purpose, the short definitions of the calls are used to create corresponding promotional messages (e-mail information, web and twitter posts, presentation slides), which are then disseminated in the scope of 5GINFIRE WP8 activities (Dissemination).

During the submission phase, it is necessary to ensure permanent support to the proposers and answer questions on the open call objectifies, formal requirements, submission issues etc. Furthermore, as the proposers have to perform so-called feasibility check before submitting the proposal to find out if approach to be proposed fits to the overall open call objectives and which infrastructures can support the proposed experiments, in order to find appropriate patron within the project consortium. Therefore, the support process also

involves all 5GINFIRE project partners, who are able to answer corresponding questions and confirm feasibility of the proposals.

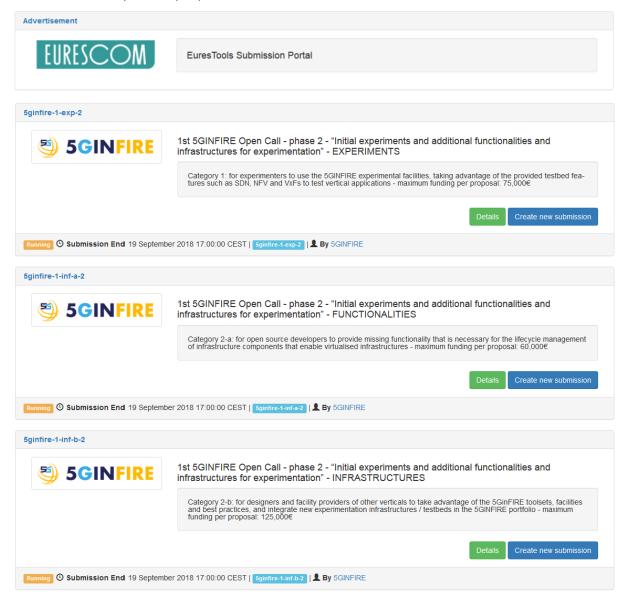


Figure 1: 5GINFIRE submission portal

The support to the applicants was ensured by interaction through the 5GINFIRE contact email address (contact@5ginfire.eu) where all relevant project representatives are included as recipients) and by providing and updating FAQ and Wiki entries on the project website. The FAQ section is related directly to questions on the project open calls, whereas the WiKI space provides detailed information on the 5GINFIRE infrastructures, tools, instructions for usage, and further useful information helping to understand the technical 5GINFIRE framework and summarizing this information for the proposers and further interested parties.

2.3 Evaluations

Definitions of the open calls also include clear criteria for evaluation and ranking of the proposals in accordance with the specific objectives of the calls. To ensure that the criteria are properly followed up by the independent experts / evaluators, corresponding evaluation forms are defined (Annex B).

To perform the evaluations of the received proposals by independent evaluators, 5GINFIRE uses a group of 25 recognized experts in the area of future internet experimentation. For each of the open calls, a number of needed experts are selected for evaluations in accordance with the best possible match of their expertise to the scopes of the received proposals. A rule implemented by the project also ensures that as many different experts as possible are involved in the evaluation process along the 5GINFIRE open calls, avoiding appointing always the same evaluators.

After an open call deadline, the proposals are evaluated remotely by the independent experts, by using the individual evaluation form mentioned above and in accordance with the following criteria:

- Impact (threshold = 3): societal and economic value of the targeted product/service
- Innovation and technology (threshold = 3): innovativeness and technological value of the proposal
- Implementation (threshold = 3): quality of methodology and of proposed participants

The criteria can be equally or differently weighted, which is specified in the Open Calls, so that the impact category is weighted by 2 for the implemented open calls.

Each criterion is scored on a scale from 0 to 5, as follows:

- 0 The proposal fails to address the criterion under examination or cannot be judged due to missing or incomplete information
- 1 Poor. The criterion is addressed in an inadequate manner, or there are serious inherent weaknesses
- 2 Fair. While the proposal broadly addresses the criterion, there are significant weaknesses
- 3 Good. The proposal addresses the criterion well, although improvements would be necessary
- 4 Very good. The proposal addresses the criterion very well, although certain improvements are still possible
- 5 Excellent. The proposal successfully addresses all relevant aspects of the criterion in question.

When scores are equal, any further prioritization will be based on other appropriate characteristics and/or specific call requirements, which will be decided by the panel of evaluators.

If the scores for proposals set by experts during the remote evaluations are significantly distinguishing among individual evaluations, consensus meetings (video calls) are organized for the affected proposals among the involved experts, to build up a common opinion and

adapt the scores accordingly. If in some cases the consensus is not possible to achieve, additional independent expert are involved to make final decisions.

At the end of the evaluation process, the proposals is ranked in accordance with total scores received and specific call objectives (if any), so that selection of successful proposals is done according to this list and available funding for the open calls.

Immediately after end of the evaluations, information about the open call outcome, including corresponding evaluation forms with scores and comments from the experts, is sent to the proposers.

2.4 Interaction with third parties

In order to formalize participation of the third parties in the project – the third parties which are selected after the open calls – corresponding 3rd party contracts (template available on the open call web page) are concluded among them and Eurescom GmbH, the project coordinator.

As soon as possible, after open call outcomes are known, a so-called kick-off meeting is organized to ensure direct discussions and interactions among the 3rd parties and the consortium, members (for the first phase of the 1st Open Call, the meeting was organized in mid of May 2018). Afterwards, the 3rd party experimenters continue to work with representatives of involved testbeds and further consortium members needed for implementation of the experiments, whereas the new 3rd party infrastructures are directly involved in activities of related 5GINFIRE Work Packages.

To follow up work done by the third parties, the following mandatory deliverables are defined in the formal contracts for the experimenters, with the planned duration of six months:

- D1 [M2] Detailed experiment description and implementation / execution plan
- D2 [M6] Report on experiment implementation and execution Experience on experiment implementation and execution
- D3 [M6] Experiment results

For infrastructures and functionalities (to remain available until project end), the following mandatory deliverables are defined:

- D1 [M2] Detailed functionalities/infrastructure description and implementation plan, including an initial summary of information about the infrastructure for publication on the 5GINFIRE website
- D2 [M6] Implementation report and operation plan
- D3 [M6] Description of functionalities/infrastructures and user manual, including a summary of information for publication on the 5GINFIRE website
- D4 a & b Usage reports in March 2019 and project end (planned for December 2019)

Schedule for reporting on usage of planned resources from experimenters are scheduled as follows:

- Intermediate report on usage of the PARTNERS's resources to fulfil this contract (number of person months spent, personnel and other costs, as well as related indirect costs) for first three months must be provided to the 5GINFIRE coordinator until M3 (+ 30 days).
- Final report on usage of the PARTNER's resources for entire duration of the contract until M6 (+30 days).

Reporting schedule for infrastructures and functionalities is set as:

- Intermediate report on usage of the PARTNERS's resources to fulfil this contract (number of person months spent, personnel and other costs, as well as related indirect costs) for first six months must be provided to the 5GINFIRE coordinator until M6 (+30 days).
- Final report on usage of the PARTNER's resources for entire duration of the contract latest until 30 days after the project end.

3 1st 5GINFIRE Open Call – phase 1

3.1 Call definition

The 1st 5GINFIRE Open Call – phase 1 (call identifier: 5ginfire-1-1) – was organized under the title "Initial experiments and additional functionalities and infrastructures for experimentation" with the submission deadline on 28 February 2018. The announcement of the call was done beginning of December 2017.

Available funding for the call:

- Category 1: for experiment proposals (call identifier 5ginfire-1-exp-1), maximum
 75,000€ funding per accepted proposal
- Category 2-a: for new functionalities (call identifier 5ginfire-1-inf-a-1), maximum 60,000€ funding per accepted proposal
- Category 2-b: for extending infrastructures (call identifier 5ginfire-1-inf-b-1), maximum 125,000€ funding per accepted proposal

Total of 375,000€ for proposals in **Category 1** is available for this Open Call.

Total of 375,000€ for proposals in **Category 2** (including both sub-categories a and b) is available for this Open Call.

Further remarks:

- Proposals will only be accepted from a single party eligible for participation in EC H2020-projects.
- Proposers' organizations can submit multiple proposals, but only one proposal per (sub-) category and per single organization (in total maximum two proposals from a single organization) might be selected for funding in this Open Call.
- The proposal has to be submitted in English language through the 5GINFIRE submission tool by using specific proposal template (both available on the 5GINFIRE website https://5ginfire.eu/).

3.2 Call objectives

The main technical objective of 5GinFIRE is to build and operate an open and extensible 5G NFV-based reference (Open5G-NFV) ecosystem of experimental facilities that not only integrates existing FIRE facilities with new vertical-specific ones, but also lays down the foundations for instantiating fully softwarized architectures of vertical industries and experimenting with them. The initial instantiation of the Open5G-NFV ecosystem is driven by the automotive vertical industry deployed across state-of-the-art 5G infrastructures. However, it is as generic as possible in order to host other verticals applications.

In alignment with the overall project objectives 5GINFIRE is organising a competitive open call targeting external organisations, industry including SMEs, research institutions, and academia, interested to perform experiments on the top of the infrastructure provided by

5GinFIRE. In order to further improve the 5GinFIRE ecosystem and add new needed functionalities for experimenters, the open call mechanism is used to involve third parties, which are able to provide the needed additional infrastructures and functionalities. Therefore this 5GinFIRE open call targets the following types of experimenters and facility providers:

• Category 1 (call identifier 5ginfire-1-exp-1): Invite experimenters to use the Automotive EVI environment as it is, taking advantage of the provided EVI features such as SDN, NFV and VxFs to test vertical applications

• Category 2:

- a. Invite **open source developers** to provide missing functionality that is necessary for the lifecycle management of infrastructure components that enable virtualised infrastructures (call identifier **5ginfire-1-inf-a-1**).
- b. Invite **designers and facilities providers** of other verticals to take advantage of the 5GinFIRE toolsets, facilities and best practices, and instantiate new EVIs from other vertical industries (call identifier **5ginfire-1-inf-b-1**).

Specific call conditions for ranking and evaluations:

- Category 1: priority will be given to experimenter proposals providing additional functionalities (e.g. VNFs) which will remain in the public 5GINFIRE catalogue available to be used by other experimenters at least until end of the 5GINFIRE project
- Category 2:
 - 2-a) Priority will be given to functionalities explicitly mentioned in the call text (if any). Second priority will be to include as diverse functionalities as possible
 - 2-b) Priority will be to include experimental infrastructures representing as many as possible vertical sectors and to the infrastructure proposals also providing additional functionalities.
 - In the case of multiple proposals ranked above the threshold, at least two proposals from the sub-category 2-b (ranked above the threshold) will be funded.

3.3 Call outcome

In total 43 eligible proposals were received to the 1^{st} 5GINFIRE Open Call – phase 1, requesting more than 3.4 million \in , and which are competing for a total available funding of 0.75 million \in .

Altogether, 8 proposals have been accepted and corresponding third parties started their work in the scope of 5GINFIRE project in May 2018.

For **Category 1** (**experiments**) a total of 25 proposals were received, requesting almost 1.8 million €. Remarkably 12 proposals were received from SMEs, representing almost 50% of the proposers, two proposals were received from industry, and seven from academia and four from research institutes (Figure 2).

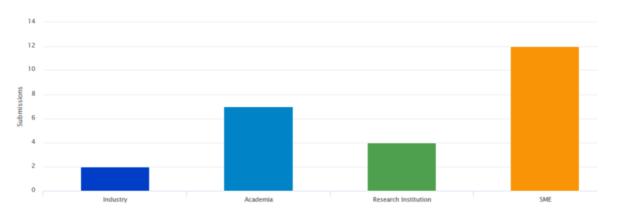


Figure 2: 1st Open Call – phase 1 – received proposals for Category 1

The origin of the proposers is well distributed across Europe with proposal received from 12 European countries (Figure 3). The highest numbers of proposals were received from Greece, Italy and Spain. Considering the funds available for category 1 and the funding limit per experiment, five proposals have been granted in this category

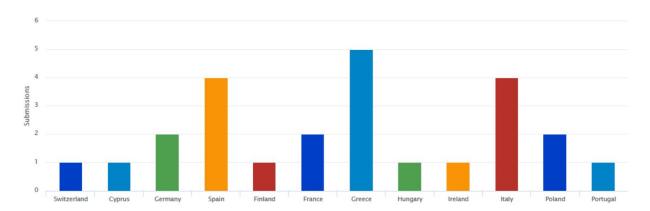


Figure 3: 1st Open Call – phase 1 – received proposals for Category 1 per country

For Category 2 (new infrastructure functionalities and additional infrastructures), a total of 18 proposals were received, requesting more than 1.6 million €. Also in this category SMEs were very active with a total of five proposals (Figure 4). Seven proposals were received from research institutes, and six from academia.

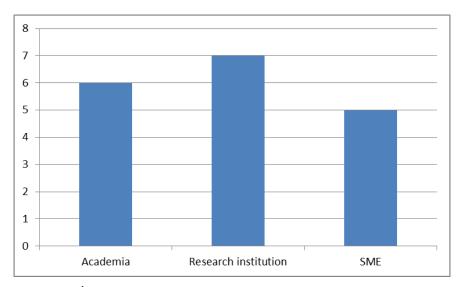


Figure 4: 1st Open Call – phase 1 – proposals received for Category 2

Proposals in this category were received from 10 European countries (), whereas in this category the highest by far number of proposals were received from Spain (33% or 6 proposals), followed by Italy (17%, 3 proposals) and Greece (11%, 2 proposals). Considering the funds available for category 2 and due to the different funding limits per sub-category we are expecting between 3 and 6 proposals to be accepted for funding.

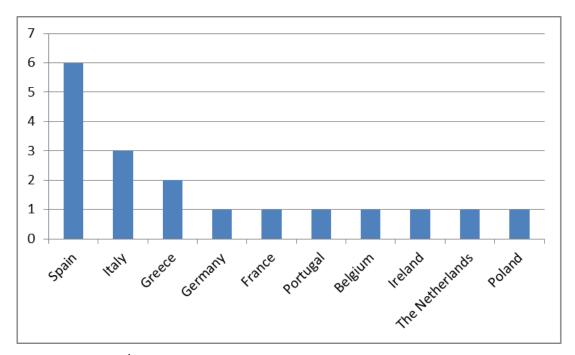


Figure 5: 1st Open Call – phase 1 – proposals for Category 2 per country

In accordance with the evaluation results for the category 2, all new infrastructure proposals were better ranked than the proposals for new functionalities, so that three new infrastructures joined the project as 3rd parties.

4 1st 5GINFIRE Open Call – phase 2

4.1 Call definition

The 1st 5GINFIRE Open Call – phase 2 (call identifier: 5ginfire-1-1) – was organized again under the title "Initial experiments and additional functionalities and infrastructures for experimentation" with the submission deadline on 19 September 2018. The announcement of the call was done on 18 June 2018, the day before EUCNC 2018 conference.

For this call, a mechanism of mandatory feasibility check has been introduced with the deadline on 12 September 2018.

Available funding for the call:

- Category 1: for experiment proposals (call identifier 5ginfire-1-exp-1), maximum
 75,000€ funding per accepted proposal
- Category 2-a: for new functionalities (call identifier 5ginfire-1-inf-a-2), maximum 60,000€ funding per accepted proposal
- Category 2-b: for extending infrastructures (call identifier 5ginfire-1-inf-b-2), maximum 125,000€ funding per accepted proposal

Total of 375,000€ for proposals in **Category 1** is available for this Open Call.

Total of 180,000€ for proposals in Category 2-a is available for this Open Call.

Total of 250,000€ for proposals in **Category 2-b** is available for this Open Call.

Rules for participation remain the same as in the first phase of the Open Call.

Results of the second phase of the Open Call are expected end of September / beginning of October 2018, so that the related work of the selected 3rd parties in planned to start in November/December 2018.

4.2 Feasibility check

In order to ensure the best possible fit of the proposals to the needs and requirements of the 5GINFIRE project, the project consortium introduced mechanism of mandatory feasibility check. Thus, all proposers must contact the 5GINFIRE consortium and elaborate their intentions in order to verify the feasibility of the proposals to be implemented in the scope of the 5GINFIRE project and to receive a first feedback on in the proposal planned activities.

The requests for the feasibility check have to be submitted to contact@5GinFIRE.eu until 12 September 2018 at 17:00 CET (Brussels local time). The request for the feasibility check should contain a brief (e.g. one page) description of the proposal intention and mention 5GINFIRE facilities to be used if applicable.

4.3 Call objectives

The general objectives of the call did not change, but the requirements for particular categories of the call have been defined as follows:

• Category 1 (call identifier 5ginfire-1-exp-2): Invite experimenters to use the 5GINFIRE experimental facilities, taking advantage of the provided testbed features such as SDN, NFV and VxFs to test vertical applications

• Category 2:

- a. Invite **open source developers** to provide missing functionality that is necessary for the lifecycle management of infrastructure components that enable virtualised infrastructures (call identifier **5ginfire-1-inf-a-2**).
- b. Invite **designers and facility providers** of other verticals to take advantage of the 5GinFIRE toolsets, facilities and best practices, and integrate new experimentation infrastructures / testbeds in the 5GINFIRE portfolio (call identifier **5ginfire-1-inf-b-2**).

Specific call conditions for ranking and evaluations:

For the Category 1 (experiments), beside priority for proposals providing additional functionalities (as it was the case in phase 1), need for experiments targeting security and robustness is emphasised, so that at least one proposal (if rated at the evaluation threshold as minimum) targeting the related experimentation will be accepted.

For the Category 2-a (new functionalities), the following priority list of functionalities, targeted by the call, has been defined:

- Monitoring framework(s), at the OSM and VNF levels
- Slice management based on OSM (and likely SDN)
- Lightweight VIMs able to integrate ad-hoc infrastructures
- Integration of real-time aspects in orchestration, especially in RAN and industrial control scenarios
- Extend NBIs, including TOSCA/YANG alignment and closed-loop management
- Experiment supporting tools; Logging, Statistics, Dataset generation

In the second phase of the 1st 5GINFIRE Open Call, both subcategories of the category 2 have separated budgets, in order to attract and receive good proposals for the new functionalities (in the phase 1, priority was given to new infrastructures).

5 Conclusions and outlook

The 5GINFIRE project established all necessary processes for implementation of competitive open calls, as listed below

- Process for technical and formal definition of the open calls
- Templates for open call proposals
- Wide promotion of the open calls
- Submission tool
- Permanent support for potential proposers
- Evaluation criteria and needed evaluation forms
- Group of independent experts for evaluation of open call proposals
- Evaluation process consisting of remote evaluations and consensus meetings

By applying the open call process, 5GINFIRE organized first phase of its 1st Open Call for experimenters as well as new infrastructures and functionalities. The overall response to the open call was very good – 43 proposals, 8 proposals accepted – with a success rate of 19%.

For experimentation part of the call (Category 1), 25 proposals have been received and five of them selected (20% success rate). For new infrastructures and functionalities (Category 2), 18 proposals have been received and three accepted (17% success rate). The successful third parties started their work in 5GINFIRE in May 2018.

The second phase of the 1st Open Call, with slightly refined submission process and updated call objectives in accordance with outcome of the first phase, have been announced with the submission deadline on 19 September 2018. Planed start of work for the successful proposers is in November/December 2018.

The 2nd 5GINFIRE Open Call is planned to open in September 2018 and will be organized in two-three phases until mid of 2019 so that corresponding work can be concluded until project end in December 2019. It is planned that the entire 2nd Open Call will target various types of experiments, by using infrastructures and functionalities available in 5GINFIRE as provided by the project consortium members and 3rd parties accepted along the 1st Open Calls.

Annex A Proposal templates

A.1 Experimenters

Open Call - Experiment Proposal

Call identifier: 5ginfire-1-exp-2



<Full title of the proposal>

< Proposal logo – optional >

< Proposal short name >

Open Call addressed: 1st 5GINFIRE Open Call for Experiments – Phase 2

Call identifier: 5ginfire-1-exp-2

Proposer ¹				
Organization:	Legal name:		Legal address and country:	
Contact person:	Name:	E-mail:		Phone:

Abstract

¹ Please, note that the information has to be same as one provided in the online proposal submission form and that the proposal file has to be uploaded in PDF format and submitted through the submission portal at https://submission.eurescom.eu/

Open Call – Experiment Proposal

Call identifier: 5ginfire-1-exp-2

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Open Call - Experiment Proposal

Maximum number of pages: 10 plus cover and table of content pages (12).

Please, follow the section structure presented below.

1 Experiment description

- 1.1 Idea and concept
- 1.2 Objectives and expected results
- 1.3 Progress beyond State of the Art
- 2 Impact
- 2.1 Potential for exploiting the achieved results

2.2 Expected feedback to 5GINFIRE

How will 5GINFIRE project gain from the experiment, which feedback will be provided to the consortium, which lesson will be learned from the experiment to help the 5GINFIRA infrastructure to improve and meet the user / experimenters requirements?

2.3 Functionalities to be included in 5GINFIRE portfolio

(If applicable)

Functionalities to be included in 5GINFIRE will need to remain in the portfolio until project end.

3 Methodology, Work plan, and Budget

3.1 Experiment methodology and 5GINFIRE infrastructure/functionalities to be used

3.2 Description of activities to implement and execute the experiment

- List and brief description of the needed activities (no WP descriptions or similar)
- Milestones and time plan for achieving them maximum duration of experiment is six (6) months
- Reporting deliverables (mandatory):
 - Detailed experiment description and implementation / execution plan latest at M2 (Confidential)
 - Report on experiment implementation and execution Experience on experiment implementation and execution at M6 (Project internal – to be disclosed upon consortium decision)
 - o Experiment results at M6 (Public)
- Further reports (optional)

< Proposal short name >

Open Call - Experiment Proposal

3.3 Budget²

- Presentation of personnel resources to be involved in experiment implementation and execution in Person Months (PM) per activity described above
- a) Total personnel costs in Euros
- b) Other costs (equipment, travel, etc.)
- c) Indirect costs (if applicable) please, note that in Horizon 2020 program maximum of 25% of the indirect costs (on both personnel and other costs) can be funded
- Total costs: a + b + c (also to be directly provided in the submission portal!)

4 Background of applicant

- Brief information about the applicant organization
- Motivation to respond the Open Call
- Background specific to the call objectives and particular related capabilities of the applicant
- Short CVs of personnel to be involved in the experiment implementation

Maximum one page is allowed for this section.

5 Remarks

Any further remarks regarding the proposal – maximum one additional page – will be not considered during the evaluation process.

6 Ethics

Please, consider the potential ethical issues listed below related to your proposal and provide further details if applicable. Please, specify any further potential ethical issue not mentioned in the list if applicable.

- 1) Does your research involve human participants or human embryos and/or cells?
- 2) Does your research involve animals?
- 3) Does your research include collection and/or processing of personal data?
- 4) Relation to third countries in respect to the ethical issues mentioned above?
- 5) Does your research can harm environment, animals, or plants?
- 6) Any further potential issue?

_

< Proposal short name >

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² Travel costs planning has to include at least one participation at 5GINFIRE tutorial / project meeting and at the project review meeting

A.2 Infrastructures and functionalities

Open Call - Functionality/Infrastructure Proposal



<Full title of the proposal>

< Proposal logo – optional >

< Proposal short name >

Open Call addressed: 1st 5GINFIRE Open Call for additional functionalities and infrastructures for experimentation – Phase 2

Call identifier: 5ginfire-1-inf-AorB-2

(Please, indicate above which sub-category is addressed by the proposal; A or B)

Proposer ¹				
Organization:	Legal name:		Legal add	dress and country:
Contact person:	Name:	E-mail:		Phone:

Abstract

¹ Please, note that the information has to be same as one provided in the online proposal submission form and that the proposal file has to be uploaded in PDF format and submitted through the submission portal at https://submission.eurescom.eu/

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Open Call - Functionality/Infrastructure Proposal

Maximum number of pages: 10 plus cover and table of content pages (12).

Please, follow the section structure presented below.

1 Excellence

Please, adapt the sub-section titles below and provide the corresponding descriptions/explanations.

- 1.1 Description of additional functionalities and/or infrastructures
- 1.2 Main objectives/purpose of the proposed functionalities/infrastructures
- 1.3 Novelty of the proposed functionalities and/or infrastructures
- 2 Impact
- 2.1 Exploitation potential of the proposed functionalities and/or infrastructures
- 2.2 Added value for 5GINFIRE

How will 5GINFIRE project gain from the proposed extensions (functionalities / infrastructures)?

2.3 Functionalities to be included in 5GINFIRE portfolio

(If applicable)

Functionalities to be included in 5GINFIRE will need to remain in the portfolio until project end.

- 3 Methodology, Work plan, and Budget
- 3.1 Implementation and operation/maintenance methodology
- 3.2 Description of activities to implement and operate the proposed functionalities and/or infrastructures
 - List and brief description of the needed activities (no WP descriptions or similar)
 - Milestones and time plan for achieving them proposed functionalities and infrastructures must be
 operational (ready to serve 5GINFIRE experimenters) after six (6) months (September 2018)
 - Reporting deliverables (mandatory):
 - Detailed functionalities/infrastructure description and implementation plan latest at M2 (Confidential)
 - Implementation report and operation plan at M6 (Project internal to be disclosed upon consortium decision)
 - Description of functionalities/infrastructures and user manual at M6 (Public), including a summary of information for publication on the 5GINFIRE website
 - Usage reports (Project internal) at M9 (December 2018) and project end (planned for December 2019)
 - Further reports (optional)

Proposal short name > Page 3 of (4)

Open Call - Functionality/Infrastructure Proposal

3.3 Budget²

- Presentation of personnel resources to be involved in experiment implementation and execution in Person Months (PM) per activity described above
- a) Total personnel costs in Euros
- b) Other costs (equipment, travel, etc.)
- c) Indirect costs (if applicable) please, note that in Horizon 2020 program maximum of 25% of the indirect costs (on both personnel and other costs) can be funded
- Total costs: a + b + c (also to be directly provided in the submission portal!)

4 Background of applicant

- Brief information about the applicant organization
- Motivation to respond the Open Call
- Background specific to the call objectives and particular related capabilities of the applicant
- Short CVs of personnel to be involved in the experiment implementation

Maximum one page is allowed for this section.

5 Remarks

Any further remarks regarding the proposal – maximum one additional page – will be not considered during the evaluation process.

6 Ethics

Please, consider the potential ethical issues listed below related to your proposal and provide further details if applicable. Please, specify any further potential ethical issue not mentioned in the list if applicable.

- 1) Does your research involve human participants or human embryos and/or cells?
- 2) Does your research involve animals?
- 3) Does your research include collection and/or processing of personal data?
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 2 Travel costs planning has to include at least one participation at SGINFIRE tutorial / project meeting and at the project review meeting

< Proposal short name >

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Annex B Evaluation forms

B.1 Experiments





1st 5GINFIRE Open Call – Phase 1 Experiments

Call identifier: 5ginfire-1-exp-1

INDIVIDUAL EVALUATION FORM

Proposal Acronym:

1. Innovation and technology How the proposal matches the call objective? If the objectives are not properly addressed – the proposal should be rated below threshold. Novelty and innovation potential of the experiment. Progress beyond SoA to be achieved by intended experiment results. 2. Impact Potential for exploiting the achieved results from experimentation in general from the proposer's point of view; both industrial and academic impacts are relevant Expected feedback to 5GINFIRE Functionalities to be included in 5GINFIRE portfolio At least one of the three aspects must be strong enough to pass the threshold!

Date

2/2

1st 5GINFIRE Open Call – Phase 1

3. Implementation	Score:
Overall implementation methodology and 5GINFIRE infrastructure/functionalities to be used (needed and explained).	(Threshold 3/5; Weight 1)
Feasibility – if there are any doubts on feasibility to implement the experiment in 5GINFIRE, please, contact the project representatives at contact@5GinFIRE.eu and while doing this, please, do not mention proposal title and other information disclosing the proposers.	
Budget, Background of applicant	
Remarks	Overall score:
	(Threshold 13/20)
Does this proposal contain ethical issues that may need further attention?	NO / YES
I declare that, to the best of my knowledge, I have no direct or indirect conflict o valuation of this proposal.	f interest in the
Name	
Signature	

INDIVIDUAL EVALUATION FORM

Proposal Acronym:

Infrastructures and functionalities **B.2**





1st 5GINFIRE Open Call – Phase 1 **Functionalities and Infrastructures**

Call identifier: 5ginfire-1-inf-a/b-1

INDIVIDUAL EVALUATION FORM

1. Innovation and technology Score: How the proposal matches the call objective? If the objectives are not properly (Threshold 3/5; addressed – the proposal should be rated below threshold. Weight 1)

Novelty and innovation potential of intended experimental infrastructure or

functionality when included in 5GINFIRE - potential for future experimenters. Score: Potential for exploiting the functionality/infrastructure integration in general (Threshold 3/5; from the proposer's point of view; both industrial and academic impacts are Weight 2) Added value for 5GINFIRE - How will 5GINFIRE project/infrastructure will gain from the proposed extensions (functionalities / infrastructures) Must be strong enough to pass the threshold! Functionalities to be included in 5GINFIRE portfolio

 $\mathbf{1}^{\mathsf{st}}$ 5GINFIRE Open Call – Phase $\mathbf{1}$

3. Implementation Operation and maintenance approach Feasibility – if there are any doubts on feasibility to implement the functionalities/infrastructure in 5GINFIRE, please, contact the project representatives at contact@5GinFIRE.eu and while doing this, please, do not mention proposal title and other information disclosing the proposers. Budget, Background of applicant	Score: (Threshold 3/5; Weight 1)			
Remarks	Overall score: (Threshold 13/20)			
Does this proposal contain ethical issues that may need further attention?	NO / YES			
I declare that, to the best of my knowledge, I have no direct or indirect conflict of interest in the valuation of this proposal.				
Name				
Signature				
Date				

INDIVIDUAL EVALUATION FORM