

"CTE COBO- House of Emerging Technologies" Project (CUP F39I22001840004)

PUBLIC NOTICE FOR PARTICIPATION IN THE HACKATHON INDUSTRY CHALLENGERS TO DEFINE INNOVATIVE SOLUTIONS ENABLED BY 5G AND EMERGING TECHNOLOGIES CONTRIBUTING TO THE CREATION OF SERVICES FOR INDUSTRY 4.0

With this Public Notice, the Metropolitan City of Bologna intends to select, by means of a public notice procedure, subjects interested in participating in the Industry Challengers Hackathon to define innovative solutions using 5G and at least one of the emerging technologies (e.g: Internet of Things, Artificial Intelligence, Blockchain) and contributing to the creation of "Services for Industry 4.0" in order to make companies and production processes, safer, more efficient, accessible for all and everyone, secure and sustainable.

This notice is part of the "CTE COBO - House of Emerging Technologies in Bologna" Project, funded by the Ministry of Enterprises and Made in Italy (hereafter MIMIT) with FSC 2014-2020 funds, as part of the Emerging Technologies Support Program of the Broadband Deployment Plan. CTE COBO, operational from February 2023, aims to establish a widespread technology transfer centre in Bologna for emerging technologies enabled by 5G that can promote innovative solutions, new business ideas, startup acceleration, and technology transfer, particularly for the benefit of small and medium-sized enterprises.

Art. 1 - Subject promoting the initiative.

The promoter of the initiative is the Metropolitan City of Bologna, in collaboration with AlmaCube srl, a partner in the CTE COBO project.

The resources made available for the implementation of the immersive learning experience (see Art. 5) are from FSC 2014-2020 funds, under the Emerging Technologies Support Program of the Broadband Deployment Plan and provided for by the "CTE COBO - House of Emerging Technologies in Bologna"

project funded by the Ministry of Business and Made in Italy.

Art. 2 - Framework in which the initiative fits, and objectives

The initiative is part of the House of Emerging Technologies - CTE COBO, a project funded by MIMIT with FSC 2014-2020 funds and aimed at creating in Bologna, through the collaboration of 16 partners¹, a comprehensive technology transfer centre for emerging technologies related to 5G in 3 strategic vertical areas for the territory:

- Industry 4.0;
- Innovative Urban Services;
- Cultural and Creative Industries.

CTE COBO also aims to promote an increasingly attractive and generative territorial ecosystem for startups and SMEs, including international ones, consistent with the 2021-2026 mandate lines "The Greater Bologna. Leave no-one behind," from which the strategic project "Bologna, City of Knowledge," emerged, in which, from 2021, the innovation policy of the Metropolitan City of Bologna is inscribed.

Through this Notice, the Metropolitan City of Bologna - in line with the strategic objectives of the "House of Emerging Technologies - Municipality of Bologna" and consistent with the provisions of the project approved by MIMIT under the actions "Incubation, Acceleration and Startup Services Programs"- promotes a Hackathon aimed at stimulating the creation of innovative solutions, enabled by 5G and emerging technologies for the identification of innovative solutions in the area of manufacturing 4.0.

The hackathon also contributes to the following purposes of the CTE COBO Project "House of Emerging

¹ The partnership includes the following public and private entities: Municipality of Bologna, Metropolitan City of Bologna, Municipality of Ravenna, BI-REX - Big Data Innovation & Research Excellence, Alma Mater Studiorum - University of Bologna, CINECA, CNIT, Gellify Italia s.r.l., G-Factor s.r.l., Almacube s.r.l., ART-ER s. cons. p.a., CREATIBO s.r.l., SEARCH ON MEDIA GROUP s.r.l., Tim s.p.a., Port System Authority of the Northern Central Adriatic Sea and Start 4.0 Centre of Competence for Security and Optimisation of Strategic Infrastructure.

Technologies - Municipality of Bologna.":

1. expanding the pool of people and stakeholders involved in innovation processes, helping to spread the culture of innovation and entrepreneurship to unstructured individuals.
2. strengthening the positioning of the House of Emerging Technologies as a centre for technology transfer and as a hub of expertise and knowledge on innovation as it relates to the application of 5G and the technologies it enables. This will also be done through the strong promotion of the hackathon and dissemination of the proposed solutions as a result of the actions of the House of Emerging Technologies, also in order to verify their applicability in real-world contexts and to assess their potential for implementation within the House of Emerging Technologies itself.
3. promoting the emergence of innovative solutions to the challenges identified through a path of discussion with local stakeholders, in order to foster innovation in the design and delivery of Industry 4.0 Services through 5G-enabled technologies, and to raise awareness among key players about the potential of the same and of the House of Emerging Technologies as a key player on these issues.

Through this notice CTE COBO also aims to:

- support the attraction of innovative skills and entrepreneurship related to the use of emerging technologies enabled by 5G network in the metropolitan area of Bologna and Ravenna, through a range of services, initiatives and opportunities for growth and networking within CTE COBO;
- enhance and expand the CTE COBO intervention model and community to enrich the territories' innovation ecosystem;
- promote solutions enabled by the 5G network and by emerging technologies that demonstrate the ability to contribute to the achievement of the 2030 climate neutrality goals, which the City of Bologna has committed to by joining the European "100 Climate Neutral Cities" challenge².
- Promote gender equality in the world of innovation, in line with the goals of the Metropolitan City Gender Equality Plan³.

² For more information see the institutional web site <https://www.comune.bologna.it/missione-clima>

³ Approved by resolution of the Metropolitan Council, Act No. 33/2022 of 13 July 2022 For more information, see

Art. 3 - Subject of the notice

The Metropolitan City of Bologna therefore intends to select, in the context outlined above, individuals or groups of people interested in participating in the Industry Challengers hackathon to devise solutions and services for Industry 4.0 using 5G and one or more of the emerging technologies (e.g: Internet of Things, Artificial Intelligence, Blockchain).

The Notice is therefore primarily focused on CTE COBO's "Industry 4.0 " vertical, but is open to integrations and synergies with other areas (innovative urban services and Cultural and Creative Industries) if justified and consistent with the challenge.

Art. 4 - Eligible Subjects

Eligible subjects under this Notice are:

1. Individuals, 18 years of age or older, who apply individually and will be grouped together as defined in Art. 9;
2. Groups of individuals aged 18 years or older, in numbers of 4 to 6.

On the date of application and until the conclusion of the immersive training experience, referred to in Article 5, each applicant (including as a member of a group) must enjoy civil and political rights.

Art. 5 - Benefits for selected solutions

Two solutions will be selected. The two groups of people whose solutions are selected will benefit from the opportunity to participate in an immersive educational experience, lasting a minimum of three days, in a European city that is a benchmark for the areas in which the proposed solutions fit.

Participants are admitted participating in the above training experience following the completion of the evaluation procedure and formation of ranking list, as stipulated in Art. 8 and 9.

The organization and costs arising from the immersive training experience will be borne by the

the dedicated institutional website <https://www.pianouguaglianza.it/>

Metropolitan City of Bologna, which will allocate to a contracting of services to support to the organization and management of the immersive training experience a maximum total amount of €25,000.00 from the 2014-2020 FSC funds, within the Emerging Technologies Support Program of the Plan for the Diffusion of Broadband.

The Administration also reserves the right not to admit projects that do not comply with the provisions contained in this Notice during the investigation and evaluation process.

Art. 6 - Other forms of support

In addition to the training experience mentioned in the previous article (see Art. 5), groups selected through the hackathon will be able to take advantage of additional opportunities made available by CTE COBO partners, in particular concerning involvement in animation, communication, networking activities.

Art. 7- Method of participation

This Notice shall run from the date of publication until the closing date, set for **12:00 noon on 03/29th/2024**.

The Metropolitan City of Bologna reserves the right to extend the deadline of the Notice for relevant and justified reasons.

Applications should be submitted exclusively by filling out the online form available on the project website at the link: <https://www.ctecobo.it/>. The time of arrival of the application recorded by the Bologna Metropolitan City server will be decisive. The form must be filled out by the nominee or the group leader, delegated by the group members.

Art. 8 - Eligibility verification and evaluation of applications.

Individuals participating in the hackathon will be selected on the basis of a ranked evaluation procedure.

The proposals received will undergo eligibility verification by the offices of the Economic and Social Development Area of the Metropolitan City of Bologna. At this stage, the admissibility investigation (submission in the correct manner and time, completeness of submitted documents) as well as the

eligibility investigation will take place.

Eligible applications will be subject to technical merit evaluation by a technical committee, established by special executive determination.

The Commission will consist of experts from within the Metropolitan City of Bologna and external experts, identified from the technical and research partners of the CTE COBO project, with a maximum number of 5 members.

The Commission undertakes to conduct the merit review of applications within 30 days after the expiration of the Notice (except in cases of force majeure), based on an evaluation procedure that will lead to the establishment of several rankings for:

1. Individual applicants, broken down by profiles (see Appendix 2);
2. the groups already established.

A maximum score of **100** will be given to each nominee (whether nominated individually or as part of a group) according to the following criteria:

3. experience and skills, based on the submitted curriculum vitae (**max 60 points**);
4. reasons, based on what is indicated in the application form (**max 40 points**).

For **established groups**:

- score 1 "skills and experience" will be equal to the arithmetic mean of the scores given for the same criterion to the individual members of the group;
- the score 2 "reasons" will be unique, since a unique form is required to be filled in at the application stage;
- in addition, a coefficient will be applied to the score thus obtained based on the heterogeneity of the team, both in terms of skills and abilities expressed and in terms of gender parity. This coefficient will be defined by the sum of the two parameters 1) Heterogeneity of profiles and 2) Gender parity as shown in the following table:

		Parameter value
Parameter 1) Heterogeneity of profiles (see Annex 2)	Representation of only one profile in the group	0.20
	Representation of two profiles in the group	0.30
	Representation of three profiles in the group	0.40
	Representation of four profiles in the group	0.60
Parameter 2) Gender Equality	Presence in the group of only men or only women	0.20
	Presence in the group of men and women in different numbers	0.30
	Presence in the group of men and women in equal numbers	0.40

A maximum score of **100** will be given for individual applicants according to the above criteria:

1. experience and skills, based on the submitted curriculum vitae (**max 60 points**);
2. reasons, based on what is indicated in the application form (**max 40 points**).

Art. 9 - Composition of groups for individual applicants and establishment of rankings

Upon completion of the preliminary stage of checking the completeness of the applications submitted, the Commission will proceed to evaluate the applications submitted according to the criteria set forth in Art. 8 "Eligibility Check and Evaluation of Applications."

After the evaluation phase of the curricula of individual applications and groups is finished, two rankings will, therefore, be drawn up:

- Ranking A) on the applications received from the pre-established groups;
- Ranking B) regarding applications received from individuals, who will be placed, in order to take part in the hackathon, in groups formed by the Commission on the basis of the curricula received, taking into account the characteristics of the curricula submitted and favouring gender

parity, where possible, within the group itself.

The above groups, thus formed, will take part in the hackathon event.

In more detail, individual applications will be grouped following the order of ranking (ranking B), making sure that in each group:

1. there are 5 members;
2. there is at least one member from each profile as specified in Annex 2.
3. gender equality is promoted in terms of member and member representation.

In the event that the applications received do not make it possible:

- to form all groups of 5 members;
- To have for each group representation of all profiles;
- The presence in each group of an equal number of women and men;

the Commission may constitute the groups, following the order of ranking, departing from criteria 1,2,3 above. The Commission may also form groups of less than or greater than 5, however, equal to or greater than 4, and less than 7, if the number of applications received does not allow all groups of 5 members to be formed.

After the groups are completed, they will be admitted to participate in the hackathon:

- maximum 6 pre-established groups, in order of ranking A)
- maximum 6 groups formed in the evaluation of applications, according to the order in ranking list B).

In the event that one of the two rankings (A or B) does not allow 4 groups to be selected, the committee may admit more than 4 groups, from the other ranking, to the hackathon in order to reach 8 groups participating in total.

Art. 10 - Cases of exclusion

The Metropolitan City of Bologna, in its sole discretion, reserves the right to reject any application if:

- the candidate(s)/applicant(s) and/or group(s) does not meet the requirements for participation under Art. Article 4 - Eligible Parties
- the candidate/applicant and/or group whose application is not received in the manner and timeframe stipulated in Art. 7.

Art. 11 - Conducting the hackathon and selecting the best solutions

The hackathon will take place according to the following schedule:

- **04/11th/2024** meet and greets, which will take place online
- **04/12th/2024** and **04/13th/2024** hackathon at CTE COBO - Bi-Rex Big Data Innovation & Research Excellence, via Paolo Nanni Costa 20 in Bologna;
- **04/13/2024** award ceremony, at a venue, in the metropolitan area of Bologna, to be announced later.

The Metropolitan City of Bologna reserves the right to change the dates of the hackathon where necessary.

The solutions produced will be evaluated by an expert jury appointed by executive determination and consisting of a maximum of 11 members. Solutions will be evaluated according to the following criteria:

1. **Innovation, impact, and utility:** Originality and creativity of the proposed solution, impact on the quality of urban life, financial and environmental sustainability of the solution, usefulness and relevance to citizens and local authorities (max 20 pts);
2. **Technology:** Use of technologies defined in the call and appropriation of data (max 25 pts);
3. **Implementation and scalability:** Effectiveness and feasibility of practical implementation and potential for large-scale expansion and adaptability (max 20 pts);
4. **Design:** User experience and ease of use (max 10 pts);
5. **Presentation:** Clarity to persuasion in presentation and pitch (max 25 pts);
6. **Bonus:** Extra points for outstanding characteristics (max 5 pts).

The evaluation of the solutions will lead to a single ranking including both the groups already formed (A) and those formed by the Commission (B).

The ranking list will be approved by executive decision. The top 2 ranked groups will have access to the benefits specified in Art. 5 and 6.

Art. 12 - Benefits and commitments of participants and winners

Individuals participating in single or group mode commit, upon submission of the application, to taking part in all activities defined in the hackathon program. This schedule, specifically, involves attending set meetings and adhering to timetables.

In the event that those admitted taking part in the hackathon subsequently drop out, individuals and/or groups placed next in the ranking list will be invited to take part.

Hackathon participants and attendees will be given a certificate of participation from Bi-Rex Big Data Innovation & Research Excellence and/or the Metropolitan City of Bologna.

Following the hackathon, the two groups who win the initiative commit to take part in the immersive training program organized by the Metropolitan City of Bologna. Costs related to program organization, transportation, food and lodging will be borne by Metropolitan City through resources emanating from FSC 2014-2020 funds under the Emerging Technologies Support Program of the Broadband Deployment Plan.

The immersive training programme will include one or more visits to public and/or private institutions of relevance in the field of reference of the project and will be communicated to the winners of the hackathon. The above program may be subject to change depending on the organizational availability of the institutions and entities contacted. Such changes will be promptly communicated to beneficiaries by e-mail.

Art. 13 - Conditions

All proposed activities should not entail any additional cost or burden for the Public Administration, as

well as for the CTE COBO partners involved, except for the opportunity granted to the winners to be able to take part in the immersive training initiative organized by the Metropolitan City at relevant institutions and entities in the context of the project.

The Metropolitan City of Bologna does not commit to using and/or purchasing the solutions that emerged during the hackathon.

Art. 14 - Ownership

The participant, individually or collectively with the other members of the group, shall be the exclusive owner of any innovative and original ideas, know-how, and/or solutions of other kinds that he or she has developed during the challenge and for the purpose of participation in this notice.

Art. 15- Indemnities and guarantees

By submitting the application, each participant expressly declares and acknowledges that each idea, skill or solution presented is original and does not infringe in any way, either in whole or in part, any third party rights and/or private property rights, hereby indemnifying the Administration against any liability, claim for damages and/or sanctions made by third parties in this regard.

Art. 16 - Release of Use

By taking part in this Notice, participants authorise the Administration to publish a brief description of the solution and/or summary materials agreed upon in advance with the participants themselves on the Institutional Site and/or on the CTE COBO website and to disseminate them in other institutional forms. These materials may be used within the CTE COBO project for communication, promotion and networking activities.

Art. 17 - Privacy and processing of personal data

The Metropolitan City of Bologna, as the data controller, is obliged to provide some information regarding the use of personal data of the data subject, according to the provisions of Article 13 of the European Regulation no. 679/2016 and by Art. 14 of the Metropolitan Regulations for the Implementation of Personal Data Protection Rules.

Data controller

The Data Controller, referred to in this notice, is the Metropolitan City of Bologna, based in Bologna, Zamboni street, no. 13, CAP 40126, cm.bo@cert.cittametropolitana.bo.it.

Data protection officer

The Metropolitan City of Bologna has designated the company Lepida S.c.p.A. as the data protection officer, which has identified Minghetti Anna Lisa as the contact person

Lepida S.c.p.A. - Tax code / VAT No.: 02770891204

Address: Via della Liberazione n. 15 - 40128 Bologna - Italy

e.mail: dpo-team@lepida.it

Registered email: segreteria@pec.lepida.it

Persons authorised to process data:

Personal data is processed by the Economic Development Area of the Metropolitan City and by individuals authorised to process it, who are given appropriate instructions regarding measures, expedients, modus operandi aimed at the tangible protection of personal data.

The authorized entities for processing are, BI-REX - BIG DATA INNOVATION &. RESEARCH EXCELLENCE, Search - On Media Group S.r.l. as data controllers.

Purpose of processing and knowability

The processing of personal data provided by participants is for the sole purpose of carrying out institutional functions and, therefore, in accordance with Art. 6(1)(e) of European Regulation no. 679/2016.

Recipients of personal data

Participants' personal data are not subject to disclosure or dissemination

Retention period

Data shall be retained for a period of 5 years, but no longer than necessary

For the pursuit of the above-mentioned purposes. To this end, also by means of periodic checks, the strict relevance, non-excessiveness and indispensability of the data with respect to the relationship, the service or the assignment in progress, to be established or terminated, also with reference to the data you provide on your own initiative, is constantly checked. Data that, even after verification, is found to be excessive or irrelevant or not indispensable shall not be used, except for the eventual storage, in accordance with the law, of the act or document that contains it. Alternatively, enter the determined retention period.

Rights of data subjects

Data subjects have the right to obtain access to the personal data concerning them, request their rectification, deletion, or restriction of processing, and they also have the right to object to the processing of data concerning them.

They have the right to file a complaint with the Data Protection Authority. Requests for the exercise of rights under Chapter III of the Metropolitan Regulations for the Implementation of Personal Data Protection Rules in favour of the data subject may be made by contacting the Data Controller or the Data Protection Officer at the Metropolitan City of Bologna.

Art. 18 - About the Notice

The Notice is published in the Municipal Register of the Metropolitan City of Bologna. <https://portal.cittametropolitana.bo.it/AlboOnline/ricercaAlbo> , as well as on the website of CTE COBO <https://www.ctecobo.it/>

All information and updates will be made available on the CTE COBO website at: <https://www.ctecobo.it/>

When applying, it will be possible to request clarification of the notice from the Metropolitan City of Bologna by writing to the email: bandictecobo@cittametropolitana.bo.it, or by calling: +39 3297504951

The person in charge of the process is:

Sara Maldina, Head of the Territorial Attractiveness Service and policies supporting entrepreneurship, Metropolitan City of Bologna.

ATTACHMENTS:

ANNEX_1_Scope

ANNEX_2_Profiles