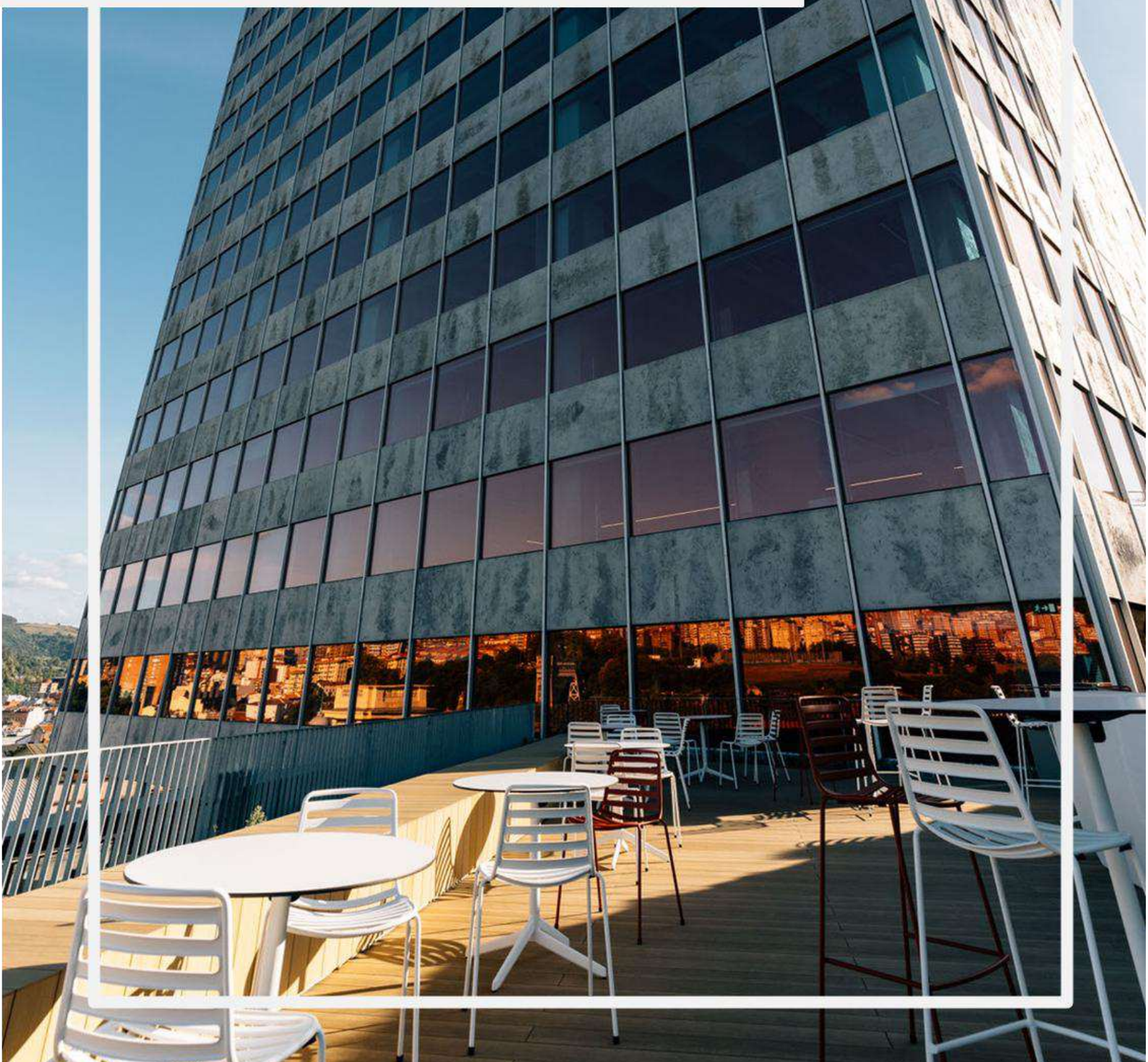




# BAT

## B Accelerator Tower



# Elecnor Open Innovation Challenge

## Worker Safety Digital Solutions

### 1. Exposition

**Elecnor**, the company promoting the challenge, is a global engineering and infrastructure group operating in more than 40 countries, with a strong presence in energy, industrial services, telecommunications, water, natural resources, rail systems and large-scale construction. The company manages thousands of field operations daily, combining advanced technical capabilities with a deeply rooted safety culture.

Elecnor prioritizes operational safety, efficiency, and technological innovation, continuously seeking solutions that enhance risk prevention, improve real-time supervision, and enable more sustainable and reliable operations across its global portfolio.

**BAT B Accelerator Tower**, one of the best-connected entrepreneurship and innovation ecosystems in the world, offers a unique collaborative, entrepreneurial, and innovation-driven space located in Bilbao, Bizkaia.

BAT B Accelerator Tower serves as the spearhead of a project aimed at positioning Bizkaia on the international entrepreneurship map and enhancing the competitiveness of its economy by fostering collaboration between major local corporations and leading technology companies (startups, scaleups, innovative SMEs), innovation hubs, and investors from around the globe.

### 2. Executive Summary of the Challenge

**How can we identify high-risk situations—such as electrical hazards, work at heights, confined spaces, or the handling of heavy loads—and deliver real-time alerts to workers to ensure a ‘zero-accident’ safety standard?**

Elecnor seeks to transform the way high-risk operations are supervised by incorporating digital technologies capable of delivering continuous, intelligent, real-time alerts to workers. At present, supervision relies heavily on the physical presence of a safety supervisor (‘preventive resource’), which in certain cases results in operational limitations.

The challenge is to progress towards a Safety 4.0 model in which technology provides real-time support to workers by monitoring tasks and anticipating risks—either by detecting unsafe behaviours or deviations from established safe procedures before an incident occurs.

A key challenge is ensuring the system’s performance and reliability in environments where traditional networks are unavailable—such as basements, underground galleries, confined spaces, or ATEX zones—which requires portable, resilient solutions capable of operating with very low bandwidth and/or in offline (non-connected) mode.

The ultimate ambition is to expand the reach of safety teams and move towards a zero-accident model that combines operational efficiency with proactive prevention.

### **3. Challenge Description**

Elecnor carries out operations in which human factors and environmental conditions play a critical role. High-risk processes—such as electrical hazards, work at heights, handling of heavy loads, and confined spaces—currently rely on on-site supervision ('Preventive Resource'), which is inherently constrained by logistical limitations.

The objective is to transition towards a digital, continuous, and intelligent operating model that enhances real-time coverage and support by enabling the use of 'digital eyes' to validate safety conditions. This leads to the following sub-challenge: How can we automatically detect procedural deviations or unsafe behaviours and alert workers before an incident occurs?

This sub-challenge highlights several technical difficulties that proposed solutions must address, including the need for multi-factor detection to cover various risk scenarios and the possibility of limited or absent connectivity when issuing real-time alerts to workers in hazardous situations.

### **4. Technical Requirements and Specific Objectives**

Elecnor is seeking mature solutions (TRL 7+) in technologies such as:

- IoT and Wearable devices for monitoring vital signs, environmental conditions, and/or workplace context.
- Computer Vision for risk detection.

Candidate startups/technology companies must propose solutions that fulfil the following key requirements:

- **Critical Connectivity:** Solutions capable of operating with low bandwidth, in offline mode, or through the creation of local networks (mesh) for confined or hard-to-reach environments.
- **Hardware:** Hands-free devices (smart glasses, bodycams, smart helmets) that do not interfere with the handling of tools or loads and can be used seamlessly without affecting existing PPE or protective equipment.
- **Regulatory Compliance:** Solutions must comply with GDPR (in cases involving worker recording) and ATEX certifications where applicable to explosive-risk zones.
- **Video Analytics:** Ability to process images to detect PPE usage, falls, and other safety-related events.

Passive CCTV-based monitoring systems or solutions requiring fixed infrastructure in the field will not be considered, since the challenge requires real-time, portable, and deployable solutions.

The main KPI to evaluate the success of the implemented solutions will be directly linked to worker safety, specifically the solution's ability to proactively and effectively detect near-miss incidents and report them automatically.

## 5. Challenge Objectives & Types of candidates.

The primary objective is to identify innovative solutions within the previously described scope and to promote collaborative projects between startups/technology companies and Elecnor.

This challenge is mainly aimed at:

- Legally established companies (with no restrictions regarding the number of years since incorporation).
- Innovative companies offering solutions based on technological developments.
- Companies with products already on the market or with technological developments at an equivalent maturity level of TRL 7 or higher.
- Companies with the capabilities and solvency required to collaborate with large corporations.

Applicant companies may or may not belong to the BAT B Accelerator Tower business community.

## 6. Main Phases and Key Milestones

| PHASE                                 | DATE                          | DESCRIPTION                                                      |
|---------------------------------------|-------------------------------|------------------------------------------------------------------|
| <b>Application period</b>             | From 20/03/2026 to 03/05/2026 | Candidates' acceptance period                                    |
| <b>Evaluation of candidates</b>       | From 04/05/2026 to 12/05/2026 | Internal evaluation of candidates                                |
| <b>Selected startups Announcement</b> | 13/05/2026                    | Notification by e-mail                                           |
| <b>B2B Meetings with Elecnor</b>      | 25 & 26 /06/2026              | Face-to-Face Meeting with Elecnor during the B Acceleration Week |

Each selected startup/technology company must participate in the B Acceleration Week, which will take place on 25 and 26 June 2026, engaging in all event activities in addition to holding its business meeting with the challenge-promoting company.

The B Acceleration Week is the flagship annual event organized by BAT B Accelerator Tower and serves as a benchmark within Bizkaia's innovation and technology-entrepreneurship ecosystem. It positions itself as a premier platform for knowledge exchange and innovation promotion within the BAT community. Each participating startup/technology company will receive visibility before more than 50 corporations, including dedicated booth space and a presentation slot in the auditorium.

To facilitate participation in the event, a financial support grant may be provided to the selected startup/technology company, subject to the conditions described in Section 8 of this document.

## 7. Application Process

- The application submission period will remain open from 20/03/2026 to 03/05/2026.
- Applications must be submitted through the BAT B Accelerator Tower website, under the section “Open Opportunities.”
- Applications may be completed in Spanish or English.
- Only one application per company will be evaluated. If multiple applications are submitted, the most recent one received will be considered.
- Applications must include a mandatory One-Pager (in English) and a Company Deck (in English or Spanish).
- Once the application has been successfully submitted, an automatic confirmation email will be sent to the applicant.

## 8. Selection Process

The selection process will be led by the challenge-promoting company and will follow the criteria outlined below:

- Level of alignment with the proposed challenge.
- Maturity level of the proposed technological solution.
- Competitive advantage of the proposed technological solution.
- Market traction and business model of the candidate company.
- Promoter team and experience of the candidate company.

Compliance with the above requirements must be demonstrated at the time of submitting the application through the designated form. Additional supporting documentation may be attached as annexes to verify compliance with all required criteria.

Once the challenge-promoting company has selected the startups/technology companies, they must attend an in-person business meeting during the week of 25–26 June, coinciding with the B Acceleration Week at BAT B Accelerator Tower.

To this end, and to facilitate the participation of the selected startups/technology companies in the B Acceleration Week, BAT B Accelerator Tower will offer financial support to cover travel and accommodation expenses during those days.

In the event of selection, the following financial coverage and conditions will apply:

- Available funding of up to €400 for companies based in Spain, €1,000 for companies from the rest of the European Union, and €2,000 for companies from outside the EU (amounts excluding taxes).
- Funding covers only flight and hotel costs (5-star hotels and business-class flights are excluded).
- Only one trip to Bizkaia is covered; additional trips will not be eligible for reimbursement.

- Funding will be provided on a reimbursement basis, meaning BAT will reimburse the €400/€1,000/€2,000 after the trip, once the company submits invoices and full banking information within 30 days of completing the trip.

## **9. Relationship Between the Challenge-Promoting Company and the Candidate Companies**

Throughout the entire 'Elecnor BAT Challenge on Safety 4.0', the candidate startup/technology company undertakes to allocate the necessary human and material resources to carry out the required activities, including personnel with the authority to make decisions regarding technological and business development, as well as to respond to official communications.

The appointed representative must be over 18 years old, hold a C-Level position within the company, and be able to communicate fluently in English or Spanish at all levels, acting as the official representative of the company.

This individual must also meet the legal conditions required to reside and remain in the Basque Country. Likewise, the company must be fully up to date with all tax, fiscal, and social-security obligations.

All notifications related to the challenge will be sent via email directly to the designated representative. Candidate companies must also provide a telephone number to facilitate communications when required.

## **10. Acceptance of Terms and Conditions**

The following Terms and Conditions are intended to establish the rules governing participation in the 'Elecnor BAT Challenge on Safety 4.0'. Participation in this call implies full and unconditional acceptance of these Terms and Conditions without exception.

## **11. Confidentiality and Data Protection Policy**

Participation in this call is voluntary. The content of the applications submitted through the online form, as well as all documentation and information of any kind provided, shall be considered confidential and private, and will be treated as such by the company promoting the challenge. Candidate companies accept, as a general rule, the use by the challenge-promoting company of the basic project data during the evaluation and selection processes described in these Terms and Conditions.

Participation in the challenge does not grant any rights over the intellectual property of the submitted applications by virtue of participation alone. Candidate companies must ensure that all work and content voluntarily submitted through the form linked to the challenge (including summaries or presentations) does not infringe third-party rights and that they hold all necessary authorizations to participate in this call.

Likewise, such content must not be offensive or derogatory, incite violence or racism, or violate fundamental rights or public freedoms recognized under applicable regulations, including child and youth protection laws. Content must also not constitute or imply intrusions into the personal or family privacy of individuals, violate the right to honour or the confidentiality of communications, or contravene any applicable regulation. Furthermore, submitted projects must guarantee non-sexist use of language and imagery.

Finally, each participating startup/technology company authorizes the challenge-promoting company to use its name and image in promotional materials related to the challenge, including those published online, without receiving any compensation in return.

## **12. Intellectual Property Rights**

The candidate company guarantees that it holds the appropriate exploitation rights over the products, services, patents, utility models, and any other content included in its application. Participating companies shall hold the challenge-promoting company harmless from any claims relating to the infringement of third-party rights, including infringements of intellectual and industrial property rights.

The participating candidate will not be required to grant any intellectual or industrial property rights to the challenge-promoting company, except in the specific cases indicated in these Terms and Conditions. Should the candidate company and the challenge-promoting company agree to undertake collaborative work to jointly design or co-create solutions, both parties shall establish, in a separate private agreement, the terms governing the intellectual and industrial property rights and the commercialization of the resulting solution.

## **13. Applicant Declaration**

By submitting their application, candidate companies declare and warrant to the challenge-promoting company that:

- The applications submitted are original works created by their authors and/or that they freely possess all rights to any ideas, images, or other elements included in their submission.
- They have obtained the consent of all third parties whose personal data may have been included in their application.
- The information provided does not contain confidential information belonging to themselves or third parties, nor industrial secrets, or, where applicable, that they have the necessary authorizations and licenses permitting its disclosure within the framework of this call.
- They possess full legal capacity and authority to participate in the call, and such participation does not infringe any regulation of any kind.
- They will assume any taxes arising from participation in this call, as well as from the potential receipt of any of the financial contributions provided for in the challenge.
- The challenge-promoting company shall not be held responsible for any damages, losses, costs, and/or claims that candidates may suffer or incur as a result of submitting their applications.

## **14. Contact and Inquiry Resolution**

For any questions or clarifications, you may contact the BAT B Accelerator Tower management team at the following email address: [info@bacceleratortower.com](mailto:info@bacceleratortower.com)

Official Website: [[BAT B Accelerator Tower website](#)].