**Executive Summary** Safecast’s “Open=Safe” project seeks €500,000 in funding from the European Union’s posalHorizon Europe programme to deliver a series of community‑based workshops across Europe. Over 24 months, we will host 25 hands‑on workshops (each with up to 10 participants) led by three certified instructors. Participants will assemble and calibrate open‑source BGeigie Zen radiation detectors, learn data‑collection protocols, and contribute to Safecast’s global open‑data platform. By empowering communities with the tools and knowledge to measure and share real‑time radiation data, “Open=Safe” will foster transparency, citizen science, and a safer, more informed Europe.

## **1. Project Background and Rationale**

Since the Fukushima Daiichi nuclear accident in 2011, Safecast has pioneered open‑source radiation monitoring, running over 150 workshops worldwide and building a community of over 5,000 contributors. However, Europe’s diverse regulatory environments and public awareness levels mean that many regions still lack local capacity for transparent radiation monitoring. The “Open=Safe” project addresses this gap by:

* **Empowering citizens** with practical skills and low‑cost, open‑source hardware.
* **Strengthening resilience** through locally generated, verifiable data.
* **Promoting open science** and data‑sharing practices across borders.

By leveraging Safecast’s proven methodology and network, “Open=Safe” will standardise best practices and create a pan‑European community of radiation monitors.

## **2. Objectives**

1. **Capacity Building:** Train 250 participants in open‑source radiation monitoring techniques.
2. **Hardware Deployment:** Distribute and assemble 250 BGeigie Zen kits.
3. **Data Generation:** Contribute at least 10 million data points to the Safecast platform.
4. **Community Formation:** Establish 10 active regional user groups to sustain local monitoring.
5. **Open‑Data Advocacy:** Publish workshop materials and datasets under open licenses.

## **3. Methodology and Work Plan**

|  |  |  |  |
| --- | --- | --- | --- |
| **Work Package** | **Activities** | **Deliverables** | **Timeline** |
| **WP1: Coordination & Management** | Project planning, reporting, financial oversight | Inception report; quarterly financial & progress reports | Months 1–24 |
| **WP2: Curriculum Development** | Adapt existing Safecast workshop materials for EU contexts; translate into 5 EU languages | Workshop manuals; slide decks; video tutorials | Months 1–4 |
| **WP3: Workshop Implementation** | Recruit participants; procure BGeigie Zen kits; deliver 25 workshops (3 instructors per workshop); post‑workshop support | 25 workshop reports; assembled kits; participant feedback surveys | Months 5–22 |
| **WP4: Data Integration & Analysis** | Upload and validate data; conduct quality assurance; visualise results on Safecast platform | Dataset releases; interactive maps; final data analysis report | Months 6–24 |
| **WP5: Dissemination & Sustainability** | Host webinars; publish open‑access articles; establish regional user groups; engage with policymakers | Webinar recordings; policy briefs; user‑group charters | Months 12–24 |

## **4. Project Management and Implementation**

* **Consortium Lead:** Safecast International (non‑profit, Japan‑based; EU liaison office in Berlin)
* **Instructors:** Three senior Safecast trainers with 13+ years of workshop experience. Travel and accommodation arranged per EU travel guidelines.
* **Local Partners:** Maker spaces and universities in each host city will provide assembly tools and workspace at no cost.
* **Quality Assurance:** All kits tested pre‑deployment; data undergo automated QA/QC routines; participant proficiency assessed via practical exams.

## **5. Budget and Justification**

|  |  |  |  |
| --- | --- | --- | --- |
| **Cost Category** | **Unit Cost (€)** | **Quantity** | **Total (€)** |
| **Personnel** |  |  | 250,000 |
| – Lead Project Manager | 80,000/year | 2 years | 160,000 |
| – Instructors (3 × 25 days) | 500/day | 75 instructor‑days | 37,500 |
| – Data Analyst | 50,000/year | 1 year | 50,000 |
| **Travel & Subsistence** |  |  | 75,000 |
| – Instructors’ travel | 400/trip | 75 trips | 30,000 |
| – Accommodation & per diems | 150/day | 225 instructor‑days | 45,000 |
| **Equipment & Materials** |  |  | 150,000 |
| – BGeigie Zen kits | 400/kit | 250 kits | 100,000 |
| – Electronic components | 80/kit | 250 kits | 20,000 |
| – Workshop consumables | 120/workshop | 25 workshops | 3,000 |
| – Shipping & logistics | — | — | 27,000 |
| **Dissemination & Outreach** |  |  | 25,000 |
| – Translation & printing | 5,000 total | — | 5,000 |
| – Webinar platform fees | 1,000/webinar | 10 webinars | 10,000 |
| – Policy briefs & events | — | — | 10,000 |
| **Total** |  |  | **500,000** |

## **6. Expected Impact and Sustainability**

* **Immediate Impact:** 250 trained citizen scientists; 250 new detectors feeding real‑time data.
* **Long‑Term Impact:** Self‑sustaining regional groups continuing monitoring beyond project end; heightened public awareness of environmental radiation.
* **Sustainability Plan:**
* Regional user groups will meet quarterly, supported by online resources.
* Safecast’s platform will maintain open access to data.
* Local partners will host annual “radiation hackathons” to attract new participants.

## **7. Dissemination and Exploitation**

* **Open‑Access Resources:** All curricula, code, and data published under CC‑BY and MIT licenses.
* **Academic Publications:** At least two peer‑reviewed articles in open‑access journals.
* **Policy Engagement:** Briefings to EU agencies (e.g., European Radiation Protection Research Platform) and national regulators.
* **Public Outreach:** Social‑media campaigns and media partnerships to showcase community success stories.

## **8. Conclusion**

“Open=Safe” leverages Safecast’s 13 years of proven expertise to build European capacity for transparent radiation monitoring. By funding workshops, hardware, and expert instructors, the EU will catalyse a pan‑European citizen‑science network, driving data‑driven environmental governance and reinforcing public trust. We respectfully request €500,000 to realise this vision of an open and safe Europe.