Executive Summary

Safecast's "Open=Safe" project seeks €500,000 in funding from the European Union's Horizon 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

- 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:	Project planning, reporting, financial	Inception report;	Months
Coordination &	oversight	quarterly financial &	1–24

Management	Adam Salina Cafanada adama	progress reports	
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

Total		500,000
Policy briefs & events	-	10,000
 Webinar platform fees 	1,000/webinar 10 webinars	10,000
Translation & printing	5,000 total —	5,000
Dissemination & Outreach		25,000
Shipping & logistics		27,000

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.