ELEKTROKOMBINACIJA - Grant Proposal

Pre-Seed Funding: EUR 487K

Target: EIT InnoEnergy

Januar 2026

1. EXECUTIVE SUMMARY

Elektrokombinacija develops modular EV charging infrastructure for electric bus fleets. We combine open-source coordination software (EK-KOR2) with modular hardware (EK3) to create self-healing charging systems with 95%+ uptime.

Key differentiators:

- Open-source RTOS (EK-KOR2) - European digital sovereignty angle

- Modular 3.3kW building blocks - scales from 3kW to 3MW

- Robot swap system - 40-second module replacement

- 5 patent concepts on hardware (WIPO PROOF Jan 2026)

2. FUNDING REQUEST

Total: EUR 487,000 (12-month runway)

Team Costs (EUR 276,000)

Role	Monthly	Annual	Notes
Founder/CTO	EUR 5,400	EUR 64,800	Bojan - technical lead
CEO	EUR 6,500 avg	EUR 78,000	Part-time -> full-time
Electrical Engineer	EUR 6,000	EUR 72,000	Power electronics, PCB
Operations Manager	EUR 3,300	EUR 39,600	Economics BA
External Consultants	EUR 1,800	EUR 21,600	Tech + business advisors

TOTAL		EUR 276,000	

Development Costs (EUR 191,000)

Category	Amount	Details
EK-KOR2 OSS Launch	EUR 35,000	Docs, CI/CD, community, security audit
EK3 Prototype (46 modules)	EUR 58,000	PCB, SiC MOSFETs, magnetics, enclosures
Robot Swap Station	EUR 42,000	Actuators, frame, electrical, pneumatics
EU Pilot Deployment	EUR 32,000	Transport, installation, training
CE Certification	EUR 18,000	EMC, LVD testing, documentation
Legal & NL Incorporation	EUR 6,000	B.V. registration, legal setup
TOTAL	EUR 191,000	

Contingency (4%): EUR 20,000

3. MILESTONES

Month	Milestone	Deliverable
M2	EK-KOR2 Open-Source Launch	Public GitHub repo, documentation, CI/CD
M4	First EK3 Modules Operational	10 modules tested and validated
M8	150kW Pilot System Complete	46 modules + robot station deployed
M12	Pilot Data -> Seed Round	Performance data, customer feedback, Series A prep

4. TEAM STRUCTURE

Current Team:

Bojan Janjatovic - Founder & CTO

  - 15 years enterprise software (Toshiba, NCR Voyix)

  - RTOS development (EK-KOR2, JEZGRO kernels)

  - Power electronics + embedded systems

Operations Manager

  - Economics BA, startup mindset

  - Financial planning & reporting

Planned Hires:

- CEO - Business strategy, fundraising, partnerships (THIS ROLE)

- Electrical Engineer - Power electronics, PCB design, CE certification

5. CEO ROLE - DETAILS

Primary Responsibilities:

- Fundraising - investors, grants, EU funds (Horizon Europe, CEF)

- Sales & BD - transit operators, utilities, OEM partnerships

- Company strategy and vision

- Financial planning and budgeting

- Legal & corporate structure (NL B.V.)

- PR, marketing, conference presentations

- Hiring and team building

Compensation:

- Salary: EUR 6,500/month avg (EUR 78,000/year) - EU competitive

- Equity: Significant co-founder stake (negotiable)

- Start: Part-time -> full-time as funding closes

- Location: Remote-first, EU focus (NL, DE, Serbia)

6. MARKET OPPORTUNITY

TAM: EUR 100B+ (EU bus fleet electrification by 2035)

SAM: EUR 10B (charging infrastructure segment)

SOM: EUR 500M (reliability/maintenance layer)

Entry Strategy: Serbia -> Western Balkans -> Central Europe -> EU-wide

Key Regulation:

- Clean Vehicles Directive - zero-emission city buses by 2035

- AFIR - Alternative Fuels Infrastructure Regulation

- EU Open Source Software Strategy - digital sovereignty

7. WHY EIT INNOENERGY

EIT InnoEnergy is Europe's leading sustainable energy accelerator.

What they offer beyond capital:

- Network of 1,400+ partners (industry, finance, policy, academia)

- Introductions to European transit operators

- Horizon Europe / CEF funding pathways

- EU policy expertise

- European engineering talent network

Fit with their 7 focus areas:

- Transport & Mobility - PRIMARY fit

- Smart Electric Grids - V2G ready

- Circular Economy - modular repair

- Energy Efficiency - 96%+ efficiency

8. CORPORATE STRUCTURE (Q1 2026)

HQ: Elektrokombinacija B.V. (Netherlands)

  - Commercial operations

  - IP holding

  - EU legal entity for grants

R&D: Serbia

  - Cost-effective engineering

  - Local manufacturing partners (Kikinda)

  - EU candidate country

9. OPEN SOURCE STRATEGY

Layered IP model (like Android):

OPEN SOURCE (MIT License - release upon funding):

- EK-KOR2 RTOS - coordination, consensus, topology

- JEZGRO Kernel - real-time scheduling

- Communication protocols

PROPRIETARY (Revenue drivers):

- EK3 hardware design and certified modules

- Fleet management system

- Robot swap station

- Professional services

Why OSS? Creates standard, attracts talent, EU sovereignty angle, no vendor lock-in differentiator vs ABB/Siemens.

10. NEXT STEPS

1. Review this document and ask questions

2. Meet with Bojan (Founder/CTO) for technical overview

3. Discuss equity structure and role definition

4. Define part-time engagement before funding closes

5. Joint work on InnoEnergy application

6. Pitch preparation together

Contact: Bojan Janjatovic

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GitHub: github.com/elektrokombinacija (invite on request)