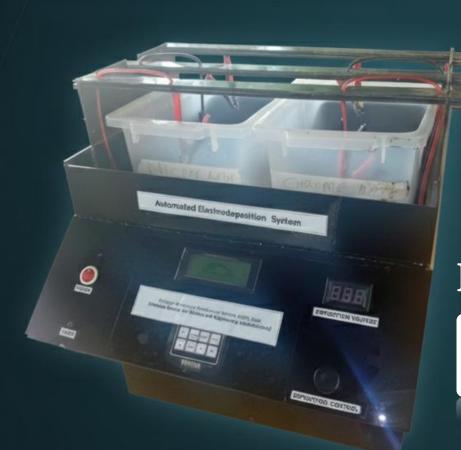
Automated Electrodeposition Machine (AEM)



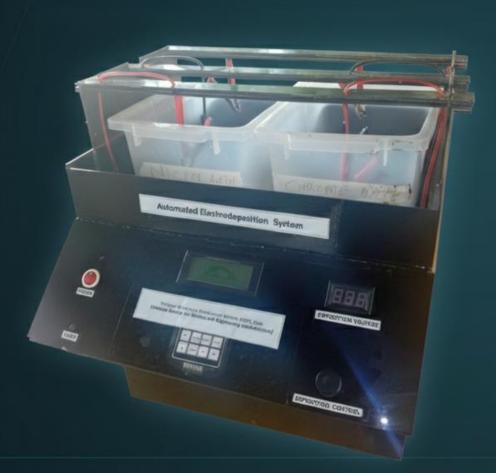
Engr. Olakanmi OLABODE



KIVI4, Uldifekoad, Erur uQuarters, liesa, OsunState

Powering Nigeria's Future with Smart Plating...

Problem Statement



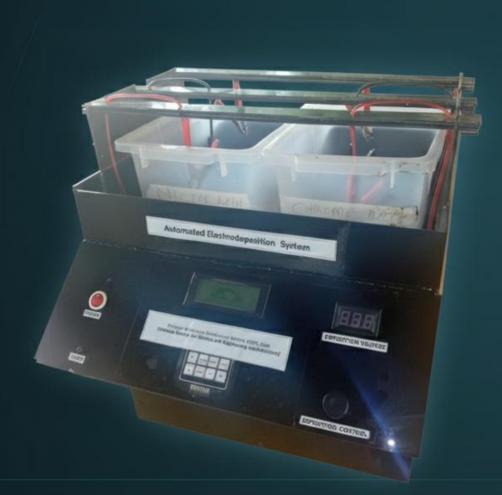
- Electroplating in Nigeria remains largely manual, leading to inefficiencies, inconsistent quality, high material waste, and reliance on imported machines.
- Skilled operator scarcity and lack of automation further hinder growth.

The Innovation: AEM



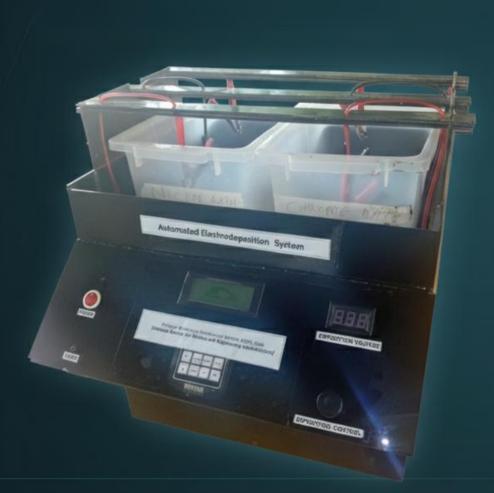
- Automated control of electroplating process
- Real-time monitoring of current, deposition mass, and time
- Auto-shutdown when target coating is reached
- Compact, energy-efficient, and scalable design
- Suitable for SMEs, institutions, and industries

Market Opportunity



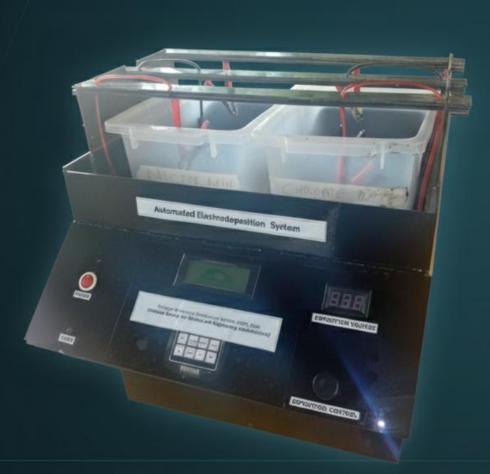
- Global electroplating market: USD 17.8B (2023), projected USD 24B by 2030.
- Nigeria market: ₩6B in 2024, 35% YoY growth.
- High demand from automotive, electronics, construction, and food processing sectors.

Strategic Relevance



- Reduces reliance on imports (N95T import bill, 2023)
- Empowers SMEs with affordable technology
- Job creation aligned with NASENI's 3M jobs target by 2030
- Supports Nigeria's industrial diversification and AfCFTA exports

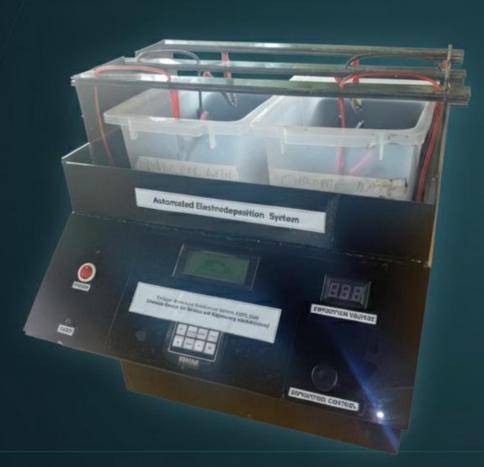
Business Model



Revenue Streams:

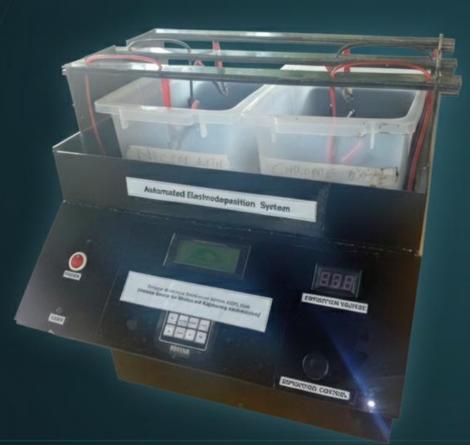
- Sales of AEM units
- Plating services
- Maintenance & service contracts
- Training & capacity building
- Export under AfCFTA

Financials



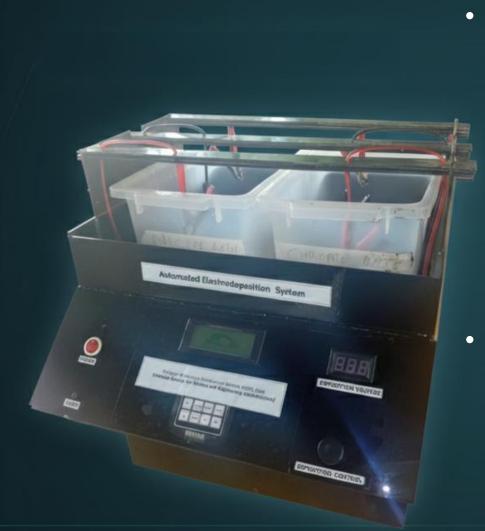
- Funding Requirement: №3.0B over 3 years
- Projected Revenue: №10– 12B over 5 years
- ROI: 25–30% annually
- Break-even: within 3 years

Implementation Roadmap



- Year 1: Industrial prototyping, certification, pilot production
- Year 2: Pilot sales, facility expansion, SME training
- Year 3: Full commercialization and export readiness

Conclusion



- The Automated
 Electrodeposition Machine
 (AEM) is a transformative
 innovation that will modernize
 Nigeria's electroplating
 industry, reduce imports,
 empower SMEs, create jobs,
 and drive sustainable
 industrialization.
 - With NASENI's support, AEM commercialization will accelerate Nigeria's journey toward economic diversification.