



Sustainable Edge AI for Rural Digital Inclusion

Novulyn IT presents an innovative project to bridge France's digital divide through sustainable, modular Edge AI data centers designed specifically for rural and underserved regions. Our solution combines cutting-edge technology with environmental responsibility to foster economic development and champion sustainable digitalization across France.

The Digital Divide Challenge in Rural France

Infrastructure Gaps

Rural and underserved regions lack robust, high-speed internet connectivity and necessary IT infrastructure to support local businesses, educational institutions, and public services.

Environmental Concerns

Traditional IT infrastructure creates significant environmental impact, conflicting with France's strong push for sustainable digitalization and green technology adoption.

Economic Disparities

Limited digital access prevents rural communities from participating fully in the digital economy, widening the gap between urban and rural development.



Our Innovative Solution

Novulyn IT proposes to develop and deploy a network of modular, energy-efficient Edge AI data centers specifically designed for rapid deployment in rural and semi-rural areas across France.



Private 5G/Advanced Wi-Fi

Providing ultra-low latency, high-bandwidth connectivity to local communities and businesses, overcoming traditional broadband limitations with cutting-edge wireless technology.



AI-Powered Edge Computing

Deploying localized AI capabilities at the edge to process data closer to its source, enabling real-time analytics, smart agriculture, and enhanced cloud application performance.



Sustainable Modular Data Centers

Energy-efficient modular units incorporating renewable energy sources and advanced cooling systems, built with circular economy principles for responsible sourcing and end-of-life management.



Proactive Cybersecurity

Advanced, AI-driven cybersecurity measures integrated directly into edge infrastructure to protect local data and ensure system resilience against evolving threats.

Innovation Beyond Traditional IT Services

Holistic Integration

While Novulyn IT offers network and data center solutions, this project integrates private 5G, AI at the edge, and sustainable modular infrastructure into a cohesive solution specifically engineered for rural digital inclusion.

Predictive AI Management

AI component specifically developed to manage and optimize edge data centers themselves, predicting maintenance needs and dynamically adjusting energy consumption based on demand and renewable energy availability.

Circular Economy Design

Modular data centers designed from the ground up with circular economy principles, emphasizing repairability, upgradability, and material recovery, setting new standards for sustainable IT infrastructure deployment.

Scalable Digital Inclusion Model

The modular and rapidly deployable nature offers an innovative, scalable model for addressing digital inequality across diverse geographical landscapes in France.

Market Positioning: The Sustainable Edge AI Enabler

Novulyn IT strategically positions itself as the leading provider of **Sustainable Edge AI solutions for digital inclusion** in rural and underserved regions of France, leveraging critical infrastructure needs combined with France's emphasis on environmental sustainability and social equity.

1

Local Governments & Municipalities

Seeking to bridge the digital divide, attract businesses, and improve public services in rural areas through advanced infrastructure deployment.

2

Rural SMEs

Requiring robust, localized IT infrastructure to support digital transformation in agriculture, tourism, and local manufacturing sectors.

3

Educational & Healthcare Institutions

Needing reliable, high-speed connectivity and localized computing power for e-learning, telemedicine, and administrative efficiency in remote areas.

4

National Infrastructure Projects

Collaborating with larger initiatives focused on nationwide digital development and sustainable infrastructure implementation.

Sustainability

Competitive Advantages



Pioneering Sustainable Edge AI

Core offering integrates cutting-edge Edge AI with modular, energy-efficient data centers - a combination not widely available or specifically tailored for rural digital inclusion in France.



Deep Green IT Expertise

Existing commitment to sustainable ITAD and green data centers provides credible foundation. Circular economy design resonates with French environmental policies and CSR mandates.



Rapid Deployment & Scalability

Modular nature allows significantly faster deployment compared to traditional data center builds, crucial for quickly addressing connectivity gaps across diverse rural geographies.



Proven Global Expertise

Global track record with dedicated French rural market focus demonstrates commitment to local needs. Experience deploying IT infrastructure in remote locations provides strong operational advantage.

Hybrid Business Model: IaaS + Consulting

Novulyn IT adopts a hybrid business model combining recurring revenue from Infrastructure-as-a-Service (IaaS) with high-value consulting and managed services, ensuring financial sustainability and long-term client relationships.

Primary Revenue: Infrastructure-as-a-Service

- **Subscription-based Access:** Recurring fees for advanced connectivity, localized processing power, and secure data storage
- **Tiered Service Levels:** Bandwidth speed, Edge AI processing power, storage capacity, connected devices/users
- **Pay-as-you-go Options:** Intensive AI model training, large-scale data processing for flexibility

Secondary Revenue: Consulting & Managed Services

- **Digital Transformation Consulting:** Tailored strategies for adopting smart technologies and optimizing workflows
- **Sustainable IT Consulting:** Reducing IT carbon footprint, implementing circular economy principles
- **Managed Services:** 24/7 monitoring, proactive maintenance, cybersecurity management

3

Service Tiers

Flexible subscription plans

24/7

Support

Continuous monitoring

100%

Sustainable

Green IT focus

Three-Phase Commercial Strategy



Phase 1: Pilot Projects & Partnership Development (Year 1)

Identify 2-3 pilot regions with clear digital infrastructure needs. Secure anchor clients including municipalities, business associations, and educational institutions. Forge partnerships with French Tech incubators, technology providers, and local system integrators.



Phase 2: Expansion & Market Penetration (Years 2-3)

Scale deployment to other rural regions based on pilot success. Launch targeted marketing campaigns highlighting sustainable, innovative impact. Build specialized direct sales team for key decision-makers in local governments and SMEs.



Phase 3: National Expansion & Service Diversification (Years 4+)

Achieve presence in all key rural regions, becoming go-to provider for sustainable digital infrastructure. Diversify service offerings with specialized Edge AI applications for precision agriculture and smart tourism.

Global Track Record & Achievements

Novulyn IT's strong foundation of global achievements and operational excellence directly supports the credibility and potential success of our French project, demonstrating capability to deliver complex IT solutions and manage global operations.

Extensive Geographical Footprint

Successfully delivered IT services across Europe, Asia-Pacific, and Africa. Global experience managing diverse logistical challenges and regulatory environments directly parallels deploying infrastructure in diverse rural French regions.

24/7 Global Support Network

Established round-the-clock support infrastructure ensures continuous operational efficiency and rapid response capabilities, critical for maintaining high availability of edge data centers in France.

Advanced Technology Solutions

Proven history implementing cutting-edge Wi-Fi and private 5G networks alongside modular, energy-efficient data center configurations - the technical backbone of our proposed French project.

Sustainable IT Leadership

Actively developed eco-friendly technology solutions including responsible IT asset disposal and green data centers, aligning perfectly with France's sustainable digitalization focus.

Development Timeline: Foundation to National Expansion



Phase 1: Foundation & Preparation (Months 1-6)

Establish Novulyn IT France, recruit local talent, adapt technologies to French standards, finalize partnerships, and secure initial funding for pilot sites.



Phase 2: Pilot Deployment & Validation (Months 7-18)

Deploy initial modular Edge AI data centers, integrate software, onboard anchor clients, and rigorously monitor performance, environmental impact, and social outcomes.



Phase 3: Scalable Expansion & Market Penetration (Months 19-36+)

Implement a national rollout strategy, intensify sales efforts, introduce industry-specific Edge AI applications, and continuously invest in R&D for enhanced capabilities.

Comprehensive Financing Strategy



Internal Investment

Leveraging Novulyn IT's existing capital for foundational setup and core team recruitment, alongside technology transfer and intellectual property to minimize initial R&D costs.



Grants & Public Funding

Securing significant support through French Tech Grants (€30k, €90k, €2M ADD), Bpifrance loans and equity, and EU funds (Horizon Europe, ERDF) for digital infrastructure.



Equity & Strategic Partnerships

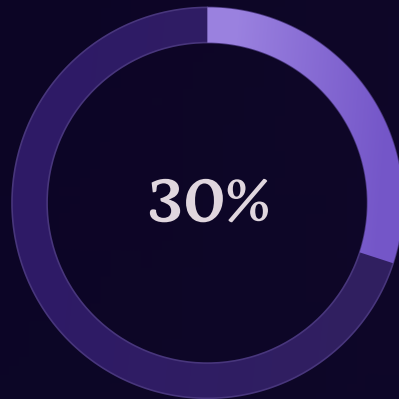
Engaging French and European VC firms focused on deep tech and green impact, and forging equity partnerships with telecom, infrastructure, and industrial groups.



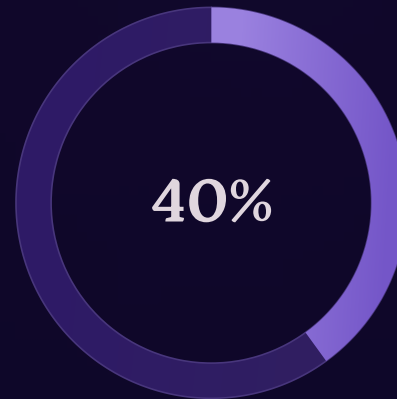
Debt Financing

Accessing traditional bank loans and specialized green loans from reputable French financial institutions to support sustainable growth and expansion.

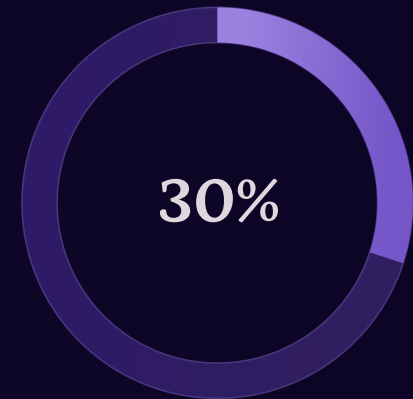
Our financing model balances diverse funding sources to ensure robust and sustainable growth, with a clear allocation across internal, public, and external channels:



Internal Investment



Grants & Public



External Funding

Team Excellence: Global Expertise Meets Local Focus

Novulyn IT's success is built upon experienced leadership and a dynamic team of experts with decades of technical experience and commitment to innovation. Our global experience is a significant asset for French expansion.

Global Deployment Experience	Technical Expertise	Innovation-Driven Culture
Proven track record deploying and managing complex IT infrastructure across Europe, Asia-Pacific, and Africa - directly transferable to establishing Edge AI data centers in varied rural French environments.	Deep expertise in advanced network solutions, modular data centers, cybersecurity, and IT asset lifecycle management - foundational technical pillars of the proposed French project.	Culture emphasizing innovation and state-of-the-art technology integration, crucial for developing and refining cutting-edge Edge AI solutions for the French market.

Complementarity for French Expansion

Existing team complemented by strategic local hires: dedicated Country Manager, specialized French talent in AI/ML and telecommunications, partnerships with French incubators and research institutions for enhanced capabilities and local integration.

Social Impact: Bridging the Digital Divide

Our primary social impact objective is to **bridge the digital divide** in rural and underserved regions of France, fostering economic development, enhancing public services, and improving quality of life for local communities.



Digital Inclusion for All

Provide reliable, high-speed internet access enabling remote work, e-learning, telemedicine, and online public services. Partner with municipalities to establish community digital hubs with free or subsidized technology access.



Economic Empowerment

Offer tailored IT solutions to local businesses in agriculture, tourism, and crafts, enabling digitalization of operations and access to new markets. Prioritize local recruitment for skilled high-tech employment opportunities.



Enhanced Public Services

Enable localized smart city/village applications including intelligent waste management, optimized public transport, and enhanced public safety through Edge AI analytics and advanced infrastructure.

Environmental Impact: Pioneering Green IT Infrastructure

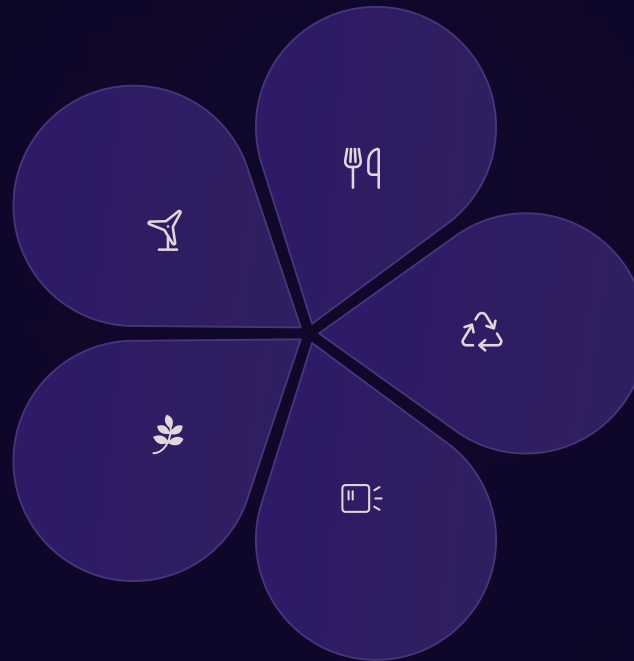
Our environmental strategy focuses on *minimizing the ecological footprint* of digital infrastructure and promoting a circular economy within the French tech sector, directly addressing France's sustainable digitalization concerns.

Renewable Energy Integration

Design modular Edge AI data centers to primarily run on renewable energy sources like solar panels and small wind turbines, significantly reducing fossil fuel reliance.

Eco-design Principles

Apply eco-design principles to entire infrastructure lifecycle, from manufacturing to deployment and end-of-life management for maximum sustainability.



Advanced Cooling Systems

Implement state-of-the-art, energy-efficient cooling technologies to minimize power consumption in data centers while maintaining optimal performance.

Circular Economy for IT Assets

Ensure 100% responsible disposal, recycling, or refurbishment of all IT equipment. Prioritize durable, repairable, upgradable components to extend operational lifespan.

Carbon Footprint Reduction

Establish clear metrics to measure and report reduction of carbon emissions, energy consumption, and e-waste resulting from operations and client solutions.

Corporate Social Responsibility Strategy

Novulyn IT's broader CSR strategy in France extends beyond compliance to proactive value creation, integrating social responsibility into every aspect of our operations.



Ethical Governance

We uphold the highest standards of corporate governance, ensuring transparency, ethical business practices, and stringent data privacy protocols in compliance with GDPR and French/EU regulations.



Employee Well-being

We cultivate a diverse, inclusive, and supportive work environment for our French team, fostering professional development, promoting work-life balance, and prioritizing local suppliers and partners.



Stakeholder Engagement

We actively engage with local communities, government bodies, environmental organizations, and academic institutions to ensure our operations are responsive to local needs and contribute positively to the ecosystem.

French Tech Ecosystem Synergies

Novulyn IT is committed to fostering deep and mutually beneficial synergies within the French tech ecosystem to accelerate deployment and maximize impact of our sustainable Edge AI project.



Incubators & Accelerators

Active engagement with Station F and specialized deep tech incubators like Linksium for talent access, startup collaboration, and mentorship programs leveraging our global expertise.



Research Institutions

Partnerships with French universities for joint R&D initiatives on advanced Edge AI algorithms, sustainable materials, and innovative private 5G deployment strategies.



Strategic Alliances

Forge alliances with telecom providers, renewable energy companies, local system integrators, and agricultural cooperatives for comprehensive ecosystem integration.



Government Initiative Participation

Novulyn IT will actively participate in and contribute to French government-led initiatives aimed at digital transformation and regional development, maximizing our positive impact and integration.

French Tech 2030

Align our project with French Tech 2030 objectives supporting groundbreaking innovations addressing major societal challenges. Seek opportunities for program participation and collaboration.

Bpifrance Engagement

Engage with Bpifrance for potential funding, strategic advice, and networking opportunities within the French business landscape, leveraging their expertise and connections.

Local Authority Collaboration

Collaborate closely with local governments and regional development agencies to ensure deployments meet specific community needs and contribute to regional economic growth.

2030

French Tech

Program alignment

100%

Local Focus

Community needs

Expected Support from French Tech Talent Passport

Novulyn IT seeks comprehensive support through the French Tech Talent Passport program to facilitate successful establishment and growth of our sustainable Edge AI project, accelerating market entry and maximizing positive impact.



Visa & Immigration Facilitation

Streamlined processing of the French Tech Talent Passport for key personnel, including founders and essential team members, enabling rapid establishment in France without unnecessary delays.



Ecosystem Integration & Networking

Facilitated introductions to government agencies, local authorities, incubators, accelerators, and strategic partners. Access to exclusive networking events connecting us with investors and mentors.



Access to Funding & Grants

Guidance navigating French and European funding opportunities, assistance identifying relevant grants, and introductions to venture capital firms and public investment bodies.



Regulatory & Administrative Guidance

Support navigating complex legal and administrative frameworks, including corporate law, labor regulations, data privacy, and environmental standards relevant to our operations.



Visibility & Promotion

French Tech brand support enhancing visibility and credibility, promotional opportunities in communications and events, and brand endorsement lending credibility with public sector clients.

Market Impact Projections

Our sustainable Edge AI solution is positioned to create significant market impact across rural France, addressing critical infrastructure needs while fostering economic development and environmental sustainability.



Year 1: Foundation & Pilot



Focus on foundational deployment and proving concept in initial pilot communities.

- Rural Communities Served: 15
- SMEs Connected: 50
- Jobs Created: 25
- Data Centers Deployed: 3



Year 2: Growth & Expansion



Scaling operations and expanding reach to a broader set of communities, demonstrating significant growth.

- Rural Communities Served: 45
- SMEs Connected: 200
- Jobs Created: 75
- Data Centers Deployed: 12



Year 3: National Impact & Scale



Achieving substantial national impact, serving a wide network of rural areas and driving significant economic and social benefits.

- Rural Communities Served: 120
- SMEs Connected: 600
- Jobs Created: 200
- Data Centers Deployed: 35

These projections demonstrate our commitment to scalable impact, starting with focused pilot deployments and expanding to serve hundreds of rural communities across France while creating significant employment opportunities in underserved regions.

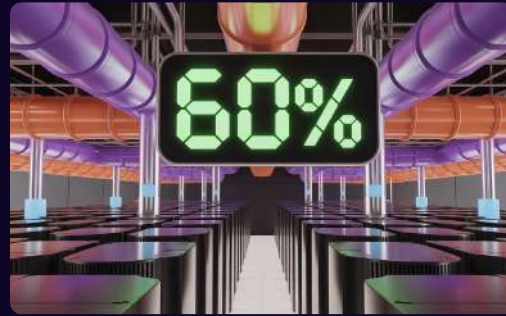
Sustainability Metrics & Environmental Goals

Our commitment to environmental sustainability is measured through concrete metrics and ambitious goals that align with France's green digitalization objectives and circular economy principles.



80% Renewable Energy Usage

Target renewable energy integration in all modular data centers by Year 2



60% Energy Efficiency Improvement

Compared to traditional data centers through advanced cooling and optimization



100% Circular Economy Compliance

All IT assets managed through sustainable disposal and recycling programs



45% Carbon Footprint Reduction

Compared to conventional IT infrastructure deployment models

These metrics will be continuously monitored and reported to stakeholders, ensuring transparency and accountability in our environmental impact reduction efforts while contributing to France's sustainable development goals.

Technology Innovation Roadmap

Our technology development follows a structured roadmap that continuously enhances our Edge AI capabilities while maintaining focus on sustainability and rural digital inclusion objectives.

Q1-Q2 2026: Foundation Technologies

Deploy core modular data center infrastructure with basic Edge AI capabilities, private 5G connectivity, and renewable energy integration in pilot regions.

Q1-Q2 2027: Industry Applications

Develop specialized Edge AI applications for precision agriculture, smart tourism, and local manufacturing, tailored to specific rural French market needs.

2028+: National Scale Innovation

Deploy next-generation Edge AI technologies, explore quantum computing integration, and establish France as a model for sustainable rural digitalization globally.

Q3-Q4 2026: AI Enhancement

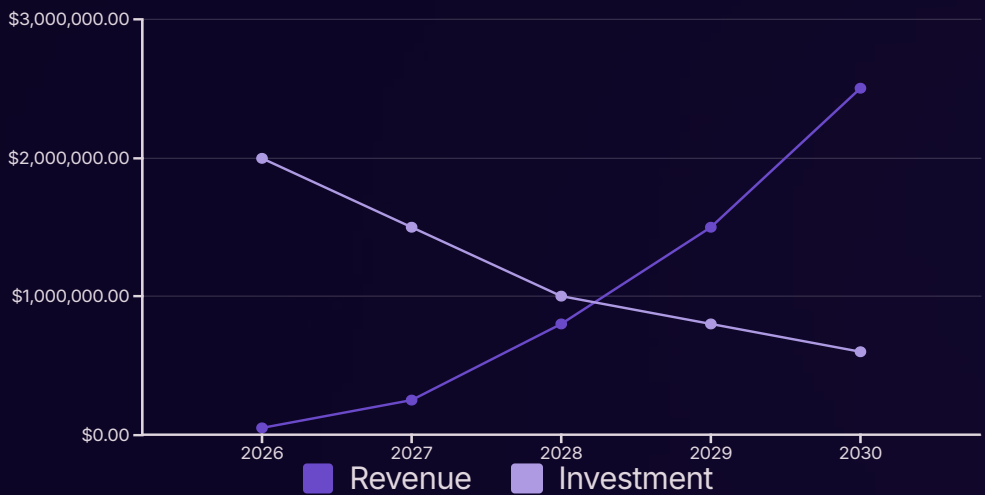
Implement advanced predictive maintenance algorithms, dynamic energy optimization, and enhanced cybersecurity measures with machine learning capabilities.

Q3-Q4 2027: Ecosystem Integration

Integrate with French smart city initiatives, expand IoT device support, and develop partnerships with major French technology providers for enhanced capabilities.

Financial Projections & Growth Trajectory

Our financial model demonstrates sustainable growth with clear paths to profitability while maintaining focus on social impact and environmental sustainability objectives.



Key Financial Milestones

- **2026:** Focus on R&D, pilot deployment, securing initial clients with limited revenue from service contracts and grants
- **2027:** Break-even target with growing subscription base and consulting services revenue
- **2028+:** Substantial revenue growth from market penetration and service diversification, achieving profitability and market leadership

€2.5M

2030 Revenue

Projected annual revenue

35%

Profit Margin

Target by 2028



Risk Management & Mitigation Strategies

Our comprehensive risk management approach identifies potential challenges and implements proactive mitigation strategies to ensure project success and stakeholder confidence.



Adapting to Tech Evolution

Rapid technological advancements pose a risk of obsolescence. Our strategy involves modular design, continuous R&D, and strategic partnerships to stay ahead.



Navigating Regulatory Shifts

Changes in French and EU regulations can impact operations. We proactively monitor policy, maintain a legal compliance team, and engage with policymakers.



Thriving Amidst Competition

We face competition from larger tech firms. Our focus on niche rural markets, sustainable differentiation, strong local partnerships, and continuous innovation ensures our competitive edge.







Securing Financial Stability

Funding shortfalls could hinder expansion. We mitigate this with diversified funding, phased deployment, robust cash flow management, and strong investor relations.

SWOT Analysis

A strategic evaluation of our internal capabilities and external market dynamics highlights our competitive position and potential challenges, guiding our strategic decisions for sustainable growth.

<div></div> <div>Strengths<ul style="list-style-type: none">Sustainable Edge AI & Modular InfraHybrid IaaS + Consulting Business ModelExperienced Global & Local TeamFirst-mover Advantage in Rural Edge AI</div>	<div></div> <div>Weaknesses<ul style="list-style-type: none">High Initial Capital InvestmentNew Market Entrant StatusComplex Rural Deployment LogisticsDependency on Regulatory Alignment</div>
<div></div> <div>Opportunities<ul style="list-style-type: none">Untapped Rural Digital DemandGovernment Digital Inclusion InitiativesFrench Tech Ecosystem SynergiesGrowing AI & Green Tech Market</div>	<div></div> <div>Threats<ul style="list-style-type: none">Competition from Established Tech FirmsRapid Technological ObsolescencePotential Funding ShortfallsData Security & Privacy Concerns</div>

This comprehensive analysis informs our strategy, allowing us to leverage our unique strengths, address weaknesses proactively, capitalize on significant market opportunities, and mitigate potential threats effectively.

Success Metrics & Key Performance Indicators

Our success is measured through comprehensive KPIs that balance financial performance with social impact and environmental sustainability, ensuring alignment with French Tech ecosystem values.



These metrics will be tracked monthly and reported quarterly to stakeholders, ensuring transparency and continuous improvement in all aspects of our operations while maintaining focus on our core mission of sustainable rural digital inclusion.

Vision for France's Digital Future

Novulyn IT's "Sustainable Edge AI for Rural Digital Inclusion" project represents more than a business venture - it's a commitment to **transforming France's digital landscape** while championing environmental sustainability and social equity.



Digital Sovereignty

Empowering France with secure, local IT infrastructure, fostering innovation and reducing foreign tech dependence.



Rural Renaissance

Bringing urban digital opportunities to rural French communities, driving economic growth and enhancing quality of life.



Sustainable Innovation

Pioneering green IT infrastructure standards, positioning France as a leader in sustainable digitalization.



Ecosystem Leadership

Building a thriving ecosystem of partners and innovators around sustainable Edge AI for the French Tech community.

Through the French Tech Talent Passport program, we seek to make this vision a reality, contributing to France's position as a global leader in sustainable technology innovation while creating meaningful impact for rural communities across the nation.



About the Founder: Md Rasheduzzaman, PMP, MBA

At the helm of Novulyn IT's ambitious "Sustainable Edge AI for Rural Digital Inclusion" project is **Md Rasheduzzaman, PMP, MBA**. A visionary leader with a profound commitment to leveraging technology for social good, Md Rasheduzzaman brings a unique blend of strategic insight and practical expertise to this transformative initiative.



PMP Project Management Expertise

His **PMP certification** underscores a mastery of project management principles, ensuring the meticulous planning and execution critical for a project of this scale and impact, including efficient resource allocation and timely delivery of project milestones.



MBA Business Acumen

His **MBA** provides the business acumen necessary to navigate the intricate landscape of innovation, investment, and sustainable growth, aligning Novulyn IT's mission with long-term viability and success.



Visionary Leadership

Md Rasheduzzaman's vision for this project extends beyond mere technological deployment; he envisions a **rural renaissance in France**, powered by sustainable Edge AI. His track record of successfully guiding teams through challenging technological frontiers and ability to foresee market needs and technological trends positions Novulyn IT at the forefront of sustainable innovation.



Commitment to Sustainability

A deep-seated belief in ethical technology that benefits communities and respects the environment, championing sustainable practices in every aspect of the project.



Multi-Industry Experience

With a versatile background spanning multiple sectors, Md Rasheduzzaman leverages cross-industry insights to foster innovative solutions and adapt to diverse operational challenges, ensuring robust project adaptability.



Global Living & Multicultural Perspective

His international experience and multicultural understanding provide invaluable global insights, enriching Novulyn IT's approach to the French market with diverse perspectives and fostering inclusive strategies.

Under his leadership, Novulyn IT is poised to not only revolutionize digital access in rural France but also to set new benchmarks for sustainable technology development globally, creating lasting impact and fostering true digital sovereignty.



Key Pillars of Our Proposal

Our comprehensive strategy is built upon foundational elements designed to ensure sustainable success and profound impact in rural France.

Addressing the Digital Divide

Leveraging Edge AI to bring robust, sustainable digital infrastructure to underserved rural communities.

Innovative & Sustainable Technology



Pioneering green IT solutions and a hybrid IaaS + Consulting model for competitive advantage and long-term viability.

Proven Strategy & Strong Team

Guided by a clear commercial strategy, global track record, and a team of experts with deep industry and local insights.



Profound Social & Environmental Impact

Commitment to digital inclusion, carbon reduction, and a robust CSR framework aligned with French Tech values.

Ecosystem Integration & Support

Actively seeking synergies within the French Tech ecosystem and support from programs like the Talent Passport to drive mutual growth.

We invite you to partner with us in shaping a digitally inclusive and sustainable future for France.



Thank You

We appreciate your time and attention in understanding Novulyn IT's vision for "Sustainable Edge AI for Rural Digital Inclusion." We are eager to partner in making this future a reality for France.

For further discussion or inquiries, please contact us:

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