

Empowering SMEs for a Sustainable Future



Co-funded by the European Union

2023-2-BG01-KA210-VET-000173721





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INTRODUCTION

Smart technology integrates AI, machine learning, and big data into everyday systems, enabling automation, communication, and remote access. It's widely used in smart homes, cities, factories, and modern workplaces.



By optimising energy use, streamlining operations, and reducing waste, smart tech supports sustainability. Businesses adopting these technologies benefit from lower operational costs, improved efficiency, and greater control over resources.



SMART TECHNOLOGIES AND SUSTAINABILITY BUSINESS

Smart technologies empower organizations to meet sustainability goals through intelligent automation and data-driven decisions. AI, IoT, and blockchain help monitor and reduce energy use, streamline processes, and support green innovations. Businesses adopting these tools can reduce their environmental impact while improving performance, saving costs, and enhancing their reputation as eco-conscious entities. Smart tech becomes a bridge between environmental responsibility and business growth.



WHY SMART TECH SUPPORTS **SUSTAINABILITY**

Smart technologies are not just about convenience—they actively drive sustainability:

Reduce carbon emissions through energy optimization

Support circular economy models

Enable remote work, reducing commuting and overhead

Help businesses track and meet environmental goals







AREAS OF IMPLEMEN TATION -PART 1

ENERGY & RESOURCE EFFICIENCY

Smart technologies like thermostats, meters, and lighting systems adjust automatically based on real-time usage, improving energy efficiency. IoT sensors help detect inefficiencies and prevent resource overuse. Smart grids enable businesses to use renewable energy during off-peak hours. In manufacturing, AI reduces material waste, while blockchain ensures transparency in the supply chain. Improved stock management also helps avoid overproduction, supporting a circular economy.

WASTE REDUCTION & CIRCULAR ECONOMY

Al-driven manufacturing optimizes production processes to minimize material waste and improve efficiency. Blockchain technology enhances supply chain transparency, allowing companies to track sourcing and ensure sustainability at every step. Improved stock management systems help prevent overproduction, reducing excess inventory and resource use.

AREAS OF IMPLEMEN TATION -PART 2



Al-povergans and emissions. Predictive maintenance helps vehicles last longer. Electric and autonomous fleets lower the carbon footprint

in distribution.





Al tools support digital workflows and reduce paper use. With fewer people commuting and less office space needed, emissions and energy costs drop significantly.

use data to improve recycling and composting, making disposal more efficient.



BENEFITS OF SMART TECH FOR SMEs

- Cost Savings: Lower energy bills, less material waste
- Increased Productivity: Automation reduces manual labor
- Improved Logistics: Smarter inventory and supply chains
- **Stronger Security**: IoT safeguards both data and physical assets Smart tech gives SMEs the tools to grow sustainably and stay competitive.
- Data Insights: IoT and AI provide real-time operational feedback

MONITORING & REPORTING SUSTAINABILITY GOALS

Smart platforms help businesses track carbon footprint, water usage, and waste generation. These tools:

- -Provide visual dashboards for KPI tracking
- -Support compliance with environmental regulations
- -Enable setting, monitoring, and adjusting green targets
- -Transparent reporting strengthens both brand trust and stakeholder confidence.



CASE STUDY – ENVIROS

CZECH CONSULTANCY ENVIROS HELPS COMPANIES GO GREEN THROUGH:



Smart Energy Management Systems with IoT sensors



Retrofitting buildings with smart HVAC, lighting, and solar



Designing smart grids to shift from fossil fuels



Reducing industrial waste using AI and circular economy methods

- Impact: Clients report up to 30% energy savings and reduced carbon emissions.



CASE STUDY – OWKIN

OWKIN, A FRENCH AI HEALTHCARE FIRM, SCALED RAPIDLY BY:



Using AI for drug discovery and medical research



Forming data-driven partnerships with pharma giants like Sanofi



Applying federated learning to ensure data privacy



Attracting \$180M in investment to expand operations

Owkin shows how smart innovation and sustainability can power SME growth into global impact.







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