

# BINARÉ - EXTRACT HACKATHON

## Business sustainability plans



### FORESTATION MANAGEMENT FOR FOREST BUSINESSES AND PRIVATE FOREST OWNERS

Using continuous data, forest managers can quickly address threats to forest health, make informed choices about resource use, and plan more effectively. This data-driven approach improves forest management, promotes healthier ecosystems, and supports sustainable timber harvesting. By optimizing processes and reducing waste, forestry businesses can boost profits and their reputation, aligning with market demands for sustainability while reducing legal risks.

### MASSES CONTROL AT LARGE-SCALE EVENTS

EXTRACT technology can enhance the event experience by helping managers plan layouts, entrances, and vendor placements to avoid bottlenecks. Attendees benefit from real-time updates on crowd flow, reducing wait times. The technology also provides managers with data on attendee behaviour, allowing for better resource allocation and smoother event operations.



### FINANCE AND HIGH-FREQUENCY TRADING

EXTRACT's advanced data mining helps financial institutions and stock exchanges detect fraud in high-frequency trading, potentially saving billions through real-time alerts. By processing large data volumes in milliseconds, EXTRACT minimizes execution times, reduces latency, and improves decision-making, maximizing trading profitability.

### CHRONIC DISEASE MONITORING

EXTRACT technology can support a chronic disease management system by integrating data from wearables, EHRs, and patient feedback for continuous health monitoring and personalized care. It also improves healthcare operations by optimizing patient flow, staff allocation, and resource management. Real-time analytics enable providers to enhance service quality and reduce costs.



### PREDICTIVE MAINTENANCE FOR FLEET MANAGEMENT

The EXTRACT platform can harness advanced real-time data mining and artificial intelligence (AI) capabilities to effectively analyse sensor data from fleet vehicles. The platform is designed to predict potential failures in vehicles and schedule maintenance activities proactively, thereby preventing breakdowns before they occur.

### SUPERMARKET SUBSCRIPTION-BASED MODEL

EXTRACT technology aids supermarket retailers with inventory management and task optimization through a SaaS platform, licensed per store. Real-time insights help retailers predict peak periods, like student events, and make data-driven decisions on inventory, staffing, and supply chain adjustments.

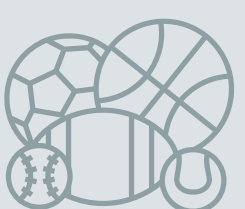


### TRAFFIC REDUCTION

Traffic heavily contributes to carbon emissions, with 76% in the EU from road transport. This proposal aims to boost public transportation appeal and help private drivers predict traffic and find parking more easily, especially in big cities. This would improve transport efficiency, reduce emissions, and position EXTRACT as a valuable tool for companies focused on sustainable development.

### PREDICTING WILDFIRES

The EXTRACT platform analyses temperature and moisture data from IoT devices to predict and mitigate wildfire risks, enabling early identification of high-risk areas for prevention efforts. This data also aids evacuation planning by highlighting impacted roads. Beyond wildfire management, the data supports agricultural optimization and offers valuable insights for external research.



### SPORTS PLATFORM

This platform is a specialized data analytics system designed for sports event organizers, meeting the high demands of global. It centralizes event management, aiding in smooth execution, cost efficiency, and risk mitigation. With real-time insights and predictive analytics, EXTRACT Sport enhances operational efficiency, safety, and resource management.