

KRATEO

WHERE EFFICIENCY
MEETS INNOVATION:
YOUR CLOUD, ELEVATED



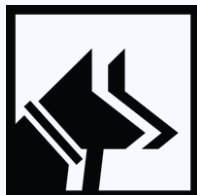
Krateo S.r.l.



Opportunity: increase savings on your IT budget

According to Gartner, Worldwide end-user spending on public cloud services is forecast to grow 21.7% to \$597.3 billion in 2023, up from \$491 billion in 2022, which is expected to persist.

But here's the catch: an alarming 30% of that spending is estimated to be wasted.



<https://www.forbes.com/sites/waynerash/2023/03/14/half-of-enterprises-waste-over-10-of-their-budget-on-software-saas-and-cloud-infrastructure-according-to-survey>



Opportunity: increase savings on your IT budget

Productivity friction when adopting too many tools



Diverging streams
Multiple tools, multiple skill
Increasing costs

Lack of control due to self-service momentum



Slower software lifecycles
Duplicated services
Increasing costs

Cost allocation is a multi-dimensional issue



No custom cost allocation
No cost optimization
Increasing costs

Digital Transformation was never meant to increase costs!



Krateo PlatformOps among the Market's
Representative Vendors in the Gartner®
2023 “Market Guide for Internal
Developer Portals”



Krateo recognized as a Sample Vendor
in the 2024 Gartner® Emerging Tech
Impact Radar: Cloud-Native Platforms,
DevOps and Software Engineering
reports under Platform Engineering
category



Krateo mentioned under Platform Engineering category in the 2024 Gartner® reports:

- Emerging Tech Impact Radar: Software Engineering
- Emerging Tech Impact Radar: DevOps



Solution: Krateo PlatformOps



Krateo PlatformOps is extensible at any level, from the Portal to the FinOps algorithms, enabling customers to tailor-made the suite to their specific needs, leveraging Generative AI



Product Offering

Krateo Composable Operations

Krateo Composable Operations aggregates existing automation acting as a single one that can be offered as a resource via the command line or the *Krateo Composable Portal*.

Krateo Composable Portal

Krateo Composable Portal is a web portal based on a declarative approach that gives customers the ability to tailor the Portal to their specific needs, i.e., adding new Personas, custom integrations, designing web pages, creating new groups and roles, importing existing processes, etc.

Krateo Composable Fin(AI)Ops

Customers can leverage the *Krateo Fin(AI)Ops Module* to define custom cost models, express budgets for development teams - even for on-premise resources, and extend standard optimization algorithms with custom logic. The framework will suggest optimization that can be actuated via *Krateo Composable Operations* (if automatable).



Market Analysis

- Gartner affirms that Enterprise infrastructure software spending is expected to reach \$457 billion in current U.S. dollars in 2023, registering an annual growth rate of 14.2% in constant currency.
- **Infrastructure software spending is forecast to grow to \$761 billion by 2027, with a CAGR of 12.9% between 2022 and 2027.**
- **Moreover, by 2027, more than 70% of enterprises will use Industry Cloud Platforms (ICP) to accelerate their business initiatives, up from less than 15% in 2023.**



Revenue Model

BASED ON NUMBER OF LEVERAGED CAPABILITIES

SUBSCRIPTION

MULTI-YEAR

Resource

Any kind of resource managed by Krateo

Resource Management

Krateo has the capability to handle a certain type of resource

Krateo won't charge based on the number of managed resources, but just for the ability to handle them.



Savings

BASED ON CUSTOMER FEEDBACKS

Return of investment
After 6 months

ROI
400%



Competitive Differentiation

We are not writing a new language or a new framework: we are extending an industrial de-facto standard = Kubernetes

We natively implement Configuration Drift

We allow the complete extension of Frontend and Backend – no lockin

We allow enterprise companies to adopt Kratio without expertise on Kubernetes

We can integrate with any existing ecosystem, any cloud provider, any legacy system



Competitive Positioning

FEATURES

- Ability to integrate with existing processes
- Extensible UI
- Integration with custom backend
- Custom cost model, custom resources
- Custom cost optimization algorithms
- Centralized code build
- Rich integration catalog



Customers



Public Administration



Banking



Manufacturing



Manufacturing



Travel&Leisure



Telco



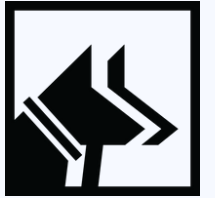
Infrastructure Provider



Software House



USE CASE - Building a Cloud-Native Software Factory



Overview

The key to **deliver high-quality software** quickly and efficiently is adopting an optimized, automated, and scalable environment **for modern software development** that embraces cloud principles.

Problems you can face:

- duality between legacy environments and cloud-native tools that must work together
- increasing friction on the enablement of new technologies and custom developments
- hard time in aggregating different cloud services as a single blueprint

Solution

Build a **control plane to abstract the complexity** of the toolchain and the cloud offering complexity, treating legacy and cloud-native environments with the same approach and providing standard blueprints consumable via a comprehensible platform, Krateo.

Outcome

- **Reduction of heterogeneity** and lowering maintenance tolls.
- **Significant reduction in production** and setup time for objects (clusters, repositories, pipelines)
- **Offering a catalog of replicable templates** whose purpose is to prepare the toolchain to host a cloud-native application
- **Enhancing of the efficiency, scalability and reproducibility** of projects and the establishment of robust processes to support the development, deployment and monitoring of new models

USE CASE - Road to the Industrial Edge Computing



Overview

Industrial Edge Computing is a **powerful paradigm** shift for industries seeking faster, more efficient, and reliable ways to **handle data computation at the source**.

It bridges the gap between cloud computing and industrial environments, enabling smarter, more autonomous industrial operations.

Problems you can face:

- legacy industrial systems may require significant investment to integrate with edge technologies
- coordinating between multiple edge devices and ensuring consistent performance can be challenging
- Complexity in managing and securing a distributed network of edge devices

Solution

Shift to a dynamic cloud infrastructure to enable more efficient operations and better leverage of cutting-edge technologies.

The **Internal Developer Portal** allows **access to resources** that can be integrated and managed by Krateo, ensuring audibility.

Edge and cloud communicate and are integrated in an extremely flexible way.

Outcome

- **Greater competitiveness** thanks to a faster go-to-market strategy
- **Great increase of deployment frequency** from release updates to new features enhancing agility and responsiveness to market demands
- **More frequent software releases** and fewer incidents

USE CASE - Fabbrica Italiana AI



Overview

ModelOps is a framework designed to operationalize and manage AI models effectively across their entire lifecycle, from development to deployment and monitoring. Beyond MLOps, it focuses not just on machine learning models but also on other AI and decision models, ensuring that these models align with business goals, are continuously retrained, and adapt to changing data conditions.

Challenges you can face:

- **Scaling Model Deployment:** Managing large numbers of models efficiently.
- **Mitigating Model Drift:** Addressing declining model accuracy over time.
- **Governance and Compliance:** Ensuring transparency, fairness, and regulatory alignment.
- **Automation:** Integrating and automating model workflows effectively.

Solution

Implementation of a **web self-service portal based on a declarative approach** that gives customers:

- the ability to tailor to their specific needs.
- get access to personalized models.
- get real-time insights about their performance, health, risk, and value.
- include custom cost models, express budgets for development teams, and extend standard optimization algorithms with custom logic.
- the possibility to operationalize models efficiently, and maintain their accuracy and compliance by using systems, tools, etc. to handle key aspects of the model's operational and regulatory management without continuous human intervention.

Outcome

- **Faster AI solutions delivery** thanks to platforms streamlining of the deployment process
- These platforms help **monitor model performance and manage drift**, ensuring that models remain accurate and effective over time
- **Robust governance features**, by maintaining transparency and compliance
- **Better communication** between data science teams and business stakeholders, aligning model outcomes with business goals and KPIs
- **Simplified onboarding** with a unified environment for model development and management, reducing the time invested in onboarding new models and processes
- **Significant cost savings** by optimizing the use of cloud services and AI models, ModelOps

Partners



UNIVERSITÀ
di **VERONA**



UNIVERSITÀ
DI TRENTO



Lead Investor

INVESTCORP



Marketing Strategy & Tech Brand Positioning

Digital **Inbound Marketing**

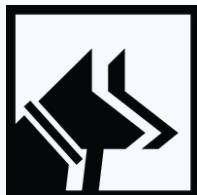
Third-party main events

Executive Events

Community Events & End User Groups to create more engagement and loyalty around Krateo

Brand Awareness driven by an Expert on the Domain Marketing Agency

Join the CNCF and/or other major foundations to consolidate our community presence as technical contributors & influencers





Team



Giulio Covassi
CEO



Diego Braga
CTO



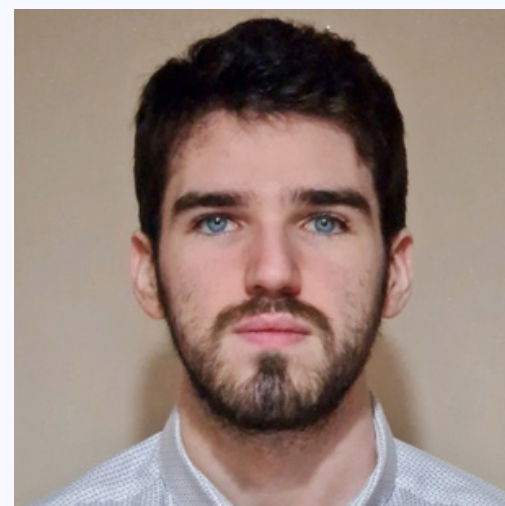
Marco Trincardi
Director of Engineering



Luca Sepe
Senior Developer



Alfredo Gambino
Senior Developer



Francesco Lumpp
FinOps Engineer



Fabio Ciucci
Product Manager



Sandro Fiore
Associate Professor UNITN



Matteo Gastaldello
Junior Developer



Board



Giulio Covassi
CEO



Diego Braga
CTO



Pierluigi Scardazza
Sales Advisor



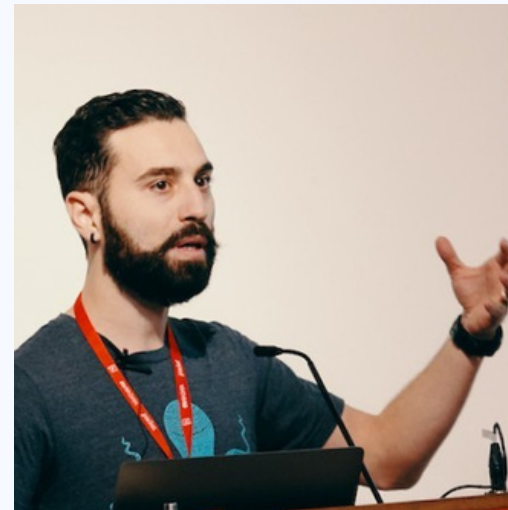
Michele Solazzo
Sales Advisor



Marco Bizzantino
Technical Advisor



Marcello Majonchi
Technical Advisor



Leonardo Di Donato
Technical Advisor

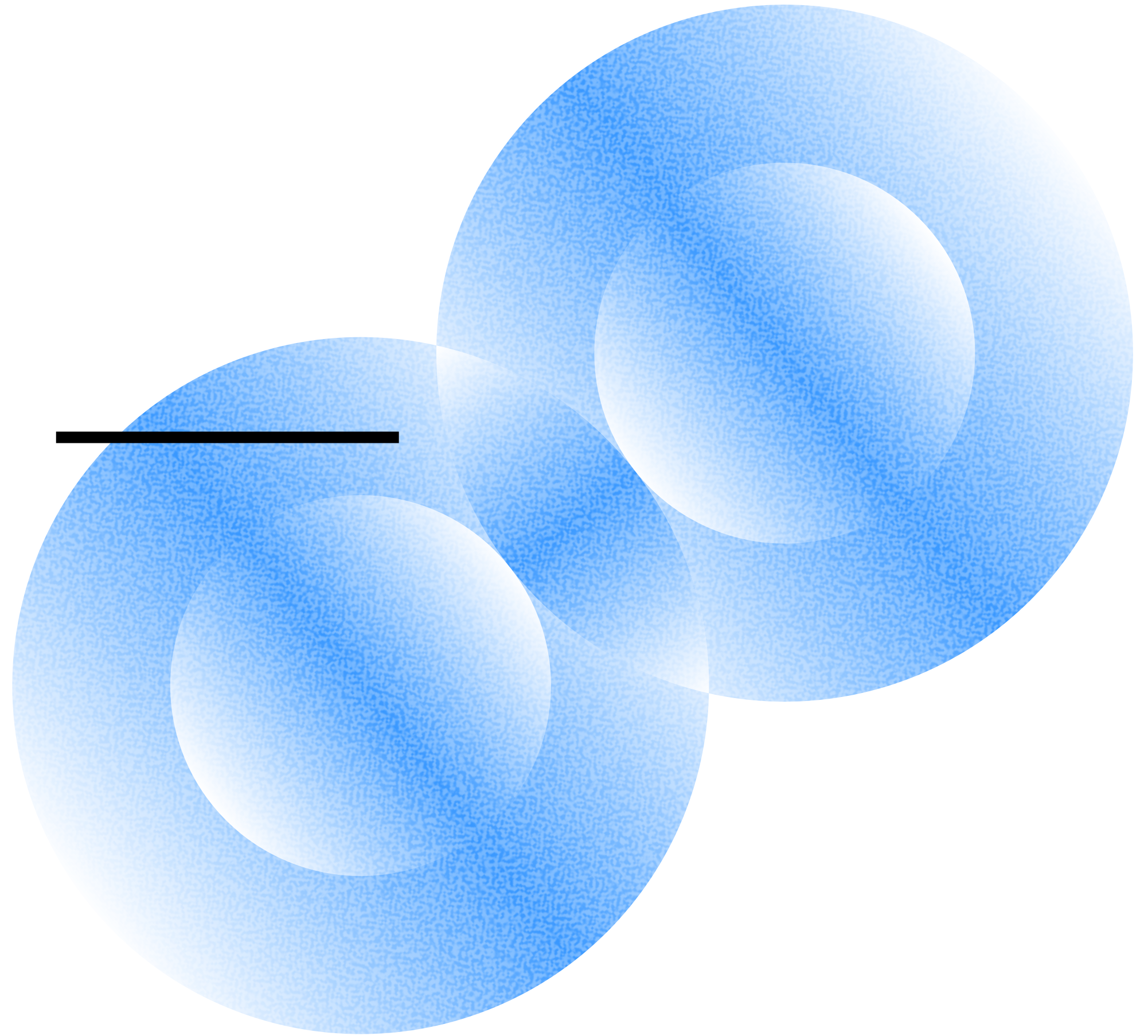


Lorenzo Fontana
Technical Advisor



Vincenzo Ferme
Technical Advisor

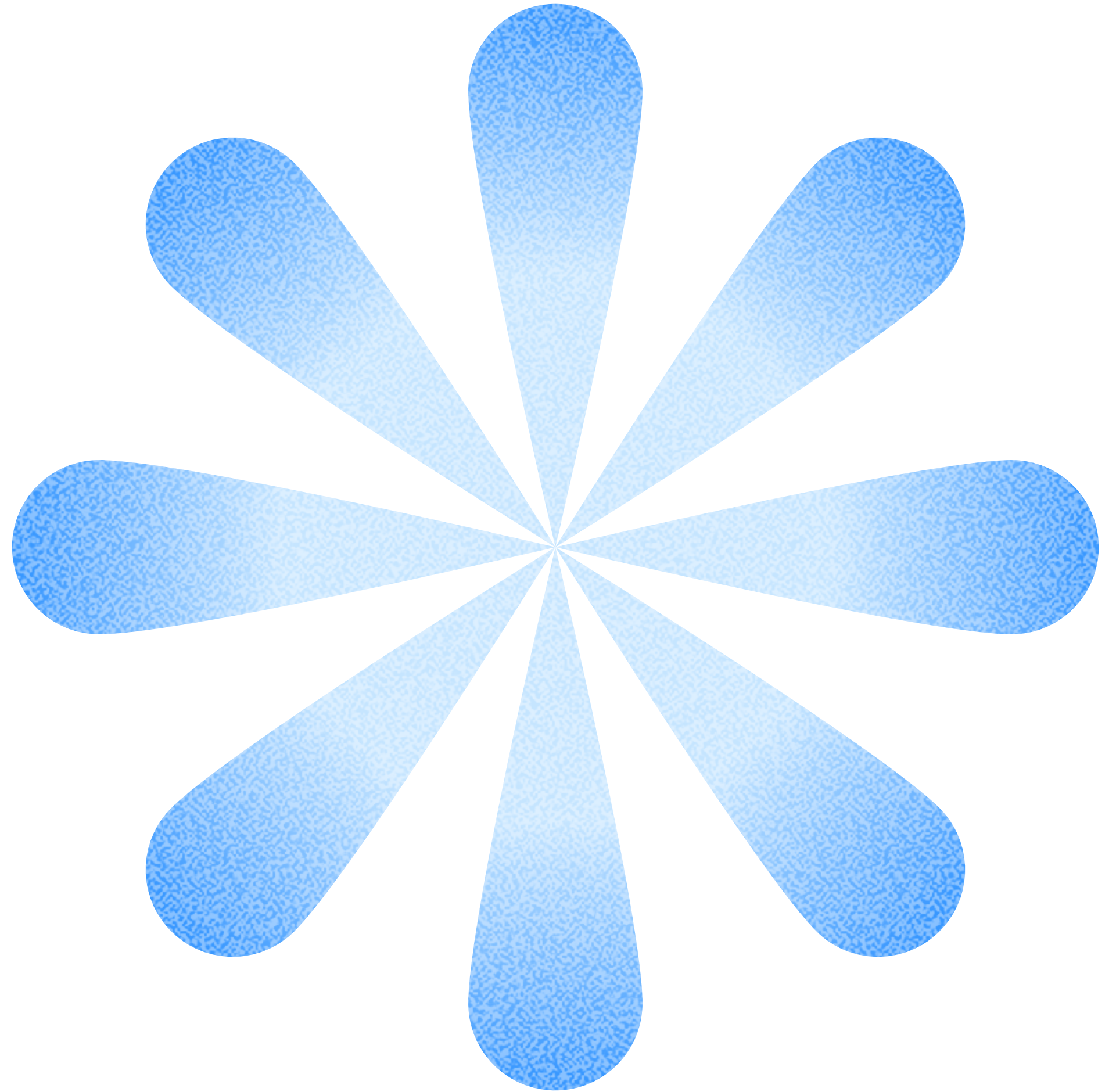
Fabbrica Italiana AI



A central control plane
to enforce governance
of processes and
toolchains



**For MLOps,
AIOps,
LLMOps**

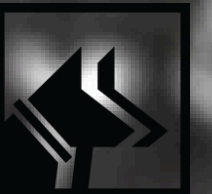


Business Financial Projections

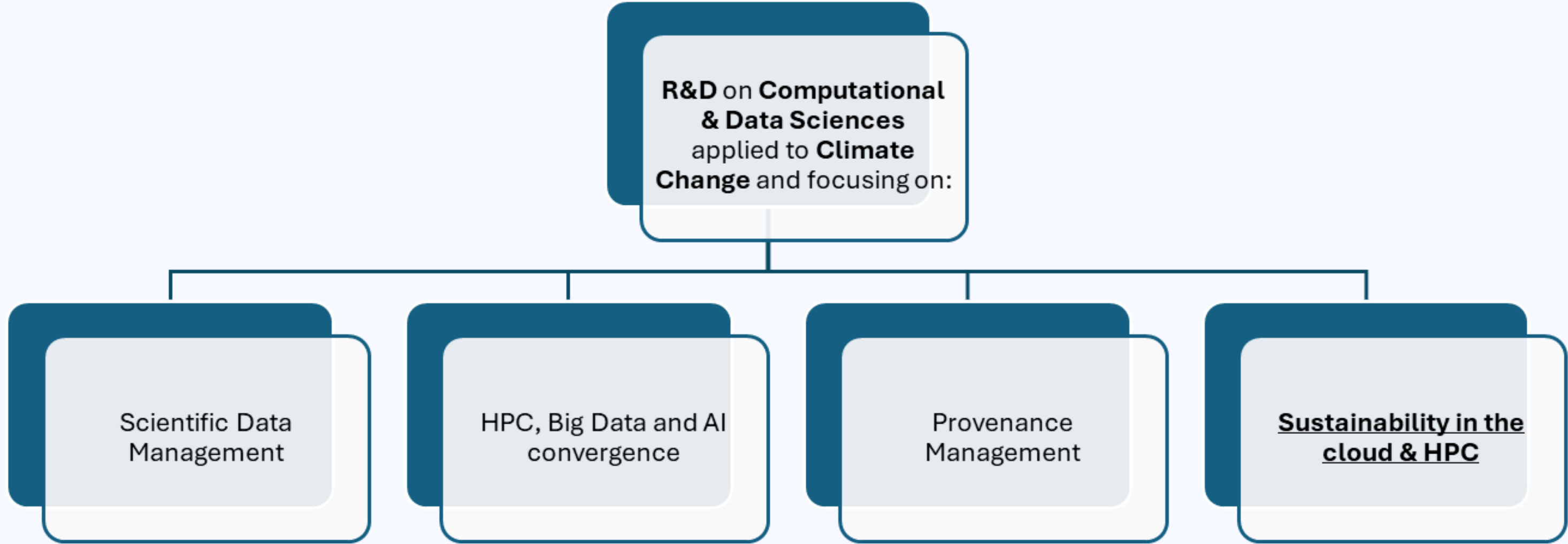
	2025	%	2026	%	2027	%
Revenue	768.000	100,00%	1.711.000	100,00%	3.223.000	100,00%
Direct Costs	-774.075	-100,79%	-1.619.324	-94,64%	-2.504.422	-77,70%
Contribution Margin	-6.075	-0,79%	91.676	5,36%	718.578	22,30%
Fixed Costs	-252.859	-32,92%	-340.161	-19,88%	-523.859	-16,25%
EBITDA	-258.934	-33,72%	-248.484	-14,52%	194.720	6,04%
Net Profit	-259.934	-34%	-253.160	-15%	107.439	3%



Sustainability & Computing



HPCI Lab: mission and main research topics



Computational sustainability

🌐 1 language ▾

Article [Talk](#)

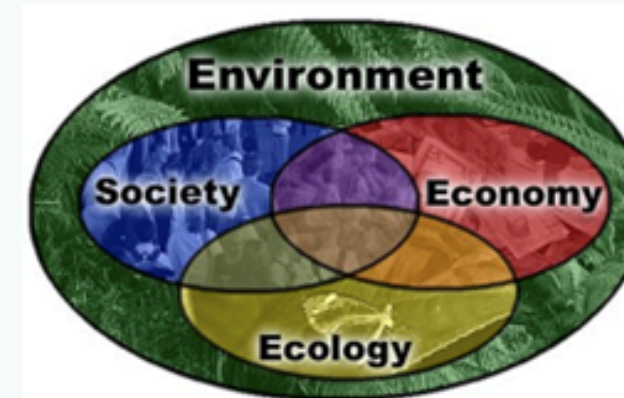
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From Wikipedia, the free encyclopedia

Computational sustainability is an emerging field that attempts to balance societal, economic, and environmental resources for the future well-being of humanity using methods from [mathematics](#), [computer science](#), and [information science](#) fields.^{[1][2]} Sustainability in this context refers to the world's ability to sustain biological, social, and environmental systems in the long term. Using the power of computers to process large quantities of information, decision making algorithms allocate resources based on real-time information.^[3] Applications advanced by this field are widespread across various areas. For example, artificial intelligence and machine learning techniques are created to promote long-term [biodiversity conservation](#) and species protection.^{[4][5]} [Smart grids](#) implement renewable resources and storage capabilities to control the production and expenditure of energy.^[6] [Intelligent transportation system](#) technologies can analyze road conditions and relay information to drivers so they can make smarter, more environmentally-beneficial decisions based on real-time traffic information.^{[7][8]}

A subtopic of [sustainability](#)

Computational sustainability



Also relevant to:

[Global warming](#) [Renewable energy](#)
[Sustainable development](#)

Aspects of Computational Sustainability:

[Smart grid](#) [Sustainable agriculture](#)
[Intelligent transportation systems](#) [Sustainability](#)

V•T•E



Environmental accountability of AI processes

Can we make our AI processes more sustainable and greener?

What's the number of epochs in the AI training process that ensures the best accuracy possible, constrained by a certain CO₂ emission threshold?



We need **Metrics**

- Accuracy, Energy & Carbon footprint, Time (vs cost & usage)
- Multidimensional



FinOps by GreenOps: collaboration with Krateo

FinOps & GreenOps intersect

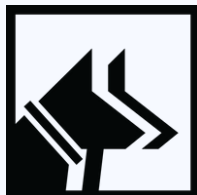
- Right-sizing
- Turning off unused resources
- Autoscaling
- ...

GreenOps

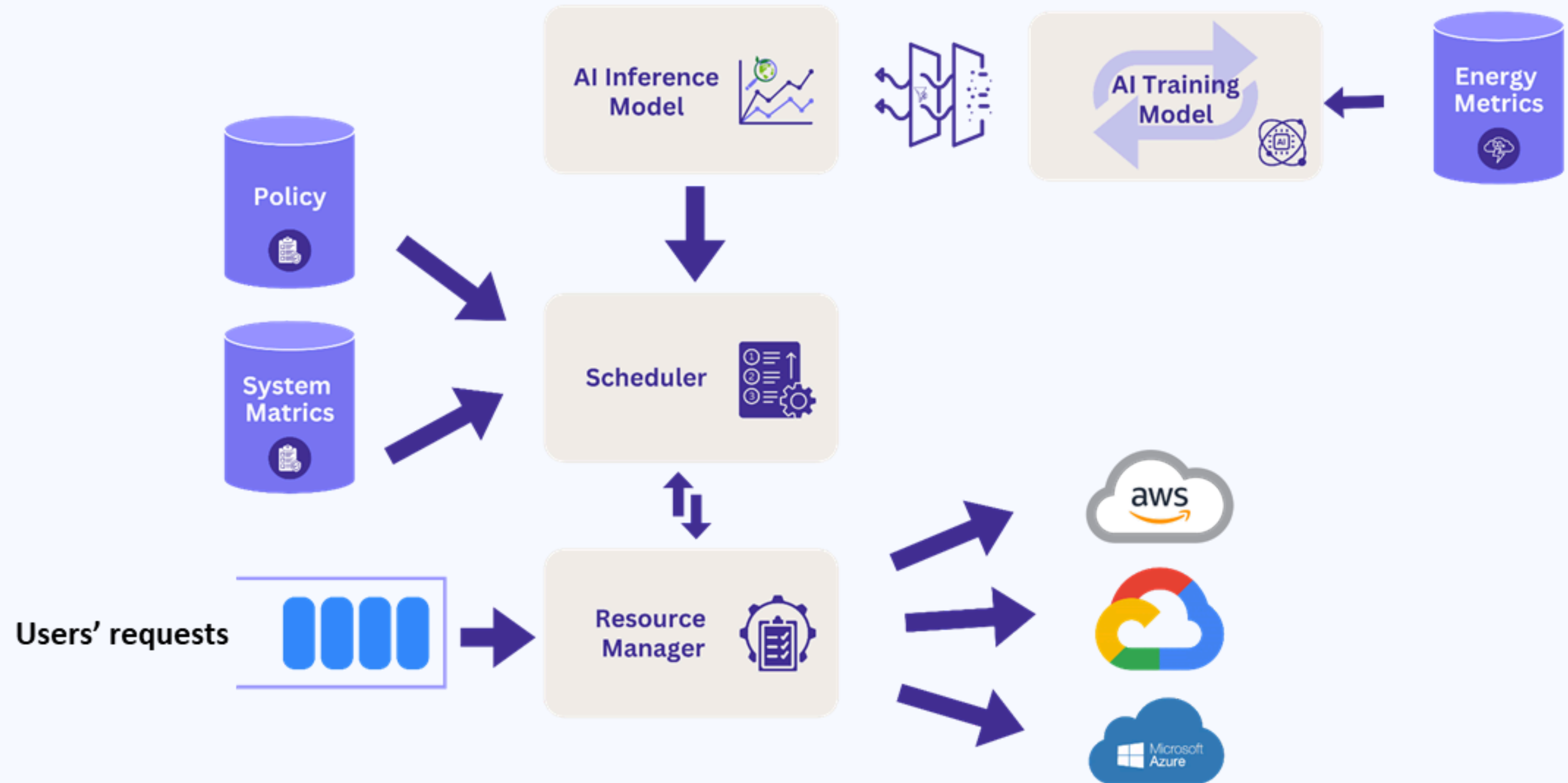
- Energy-efficient chipset
- Low carbon regions
- Time-shifting allocation

GreenOps areas of interest

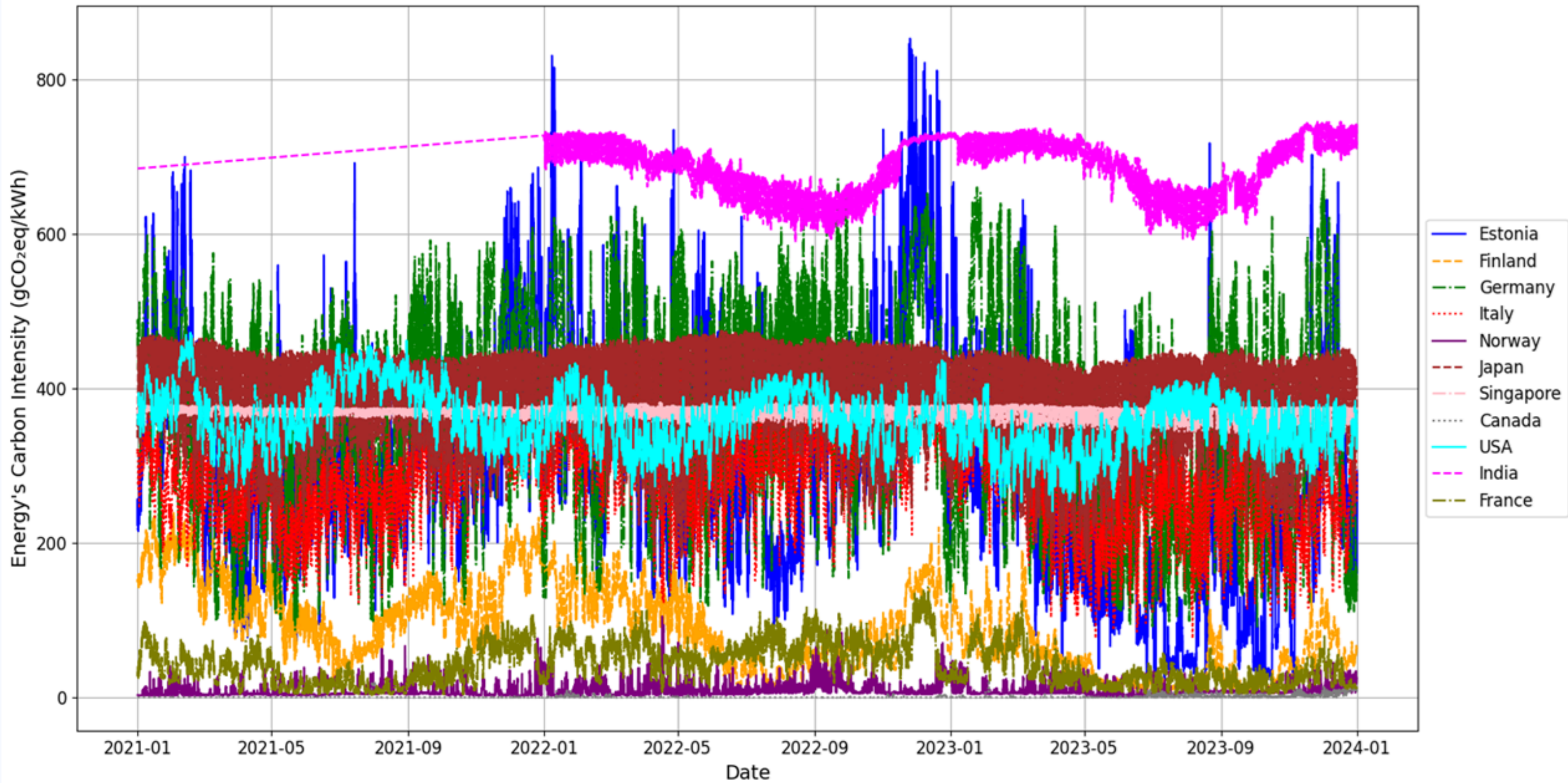
- Green Software Development
- CO2-based Metrics Monitoring and Reporting
- Efficient Resource Management & AI



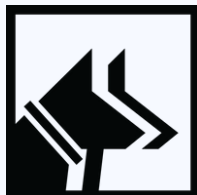
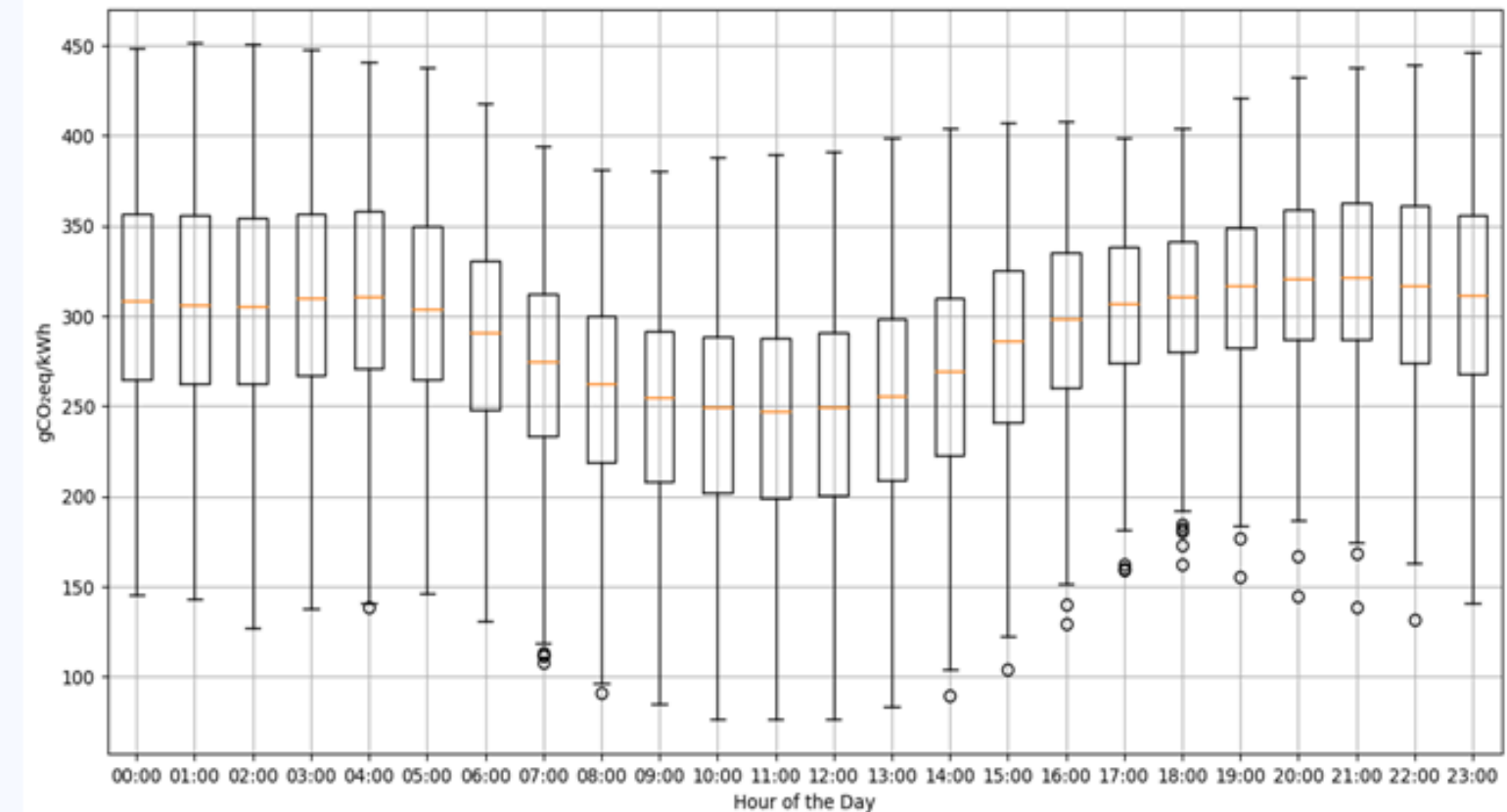
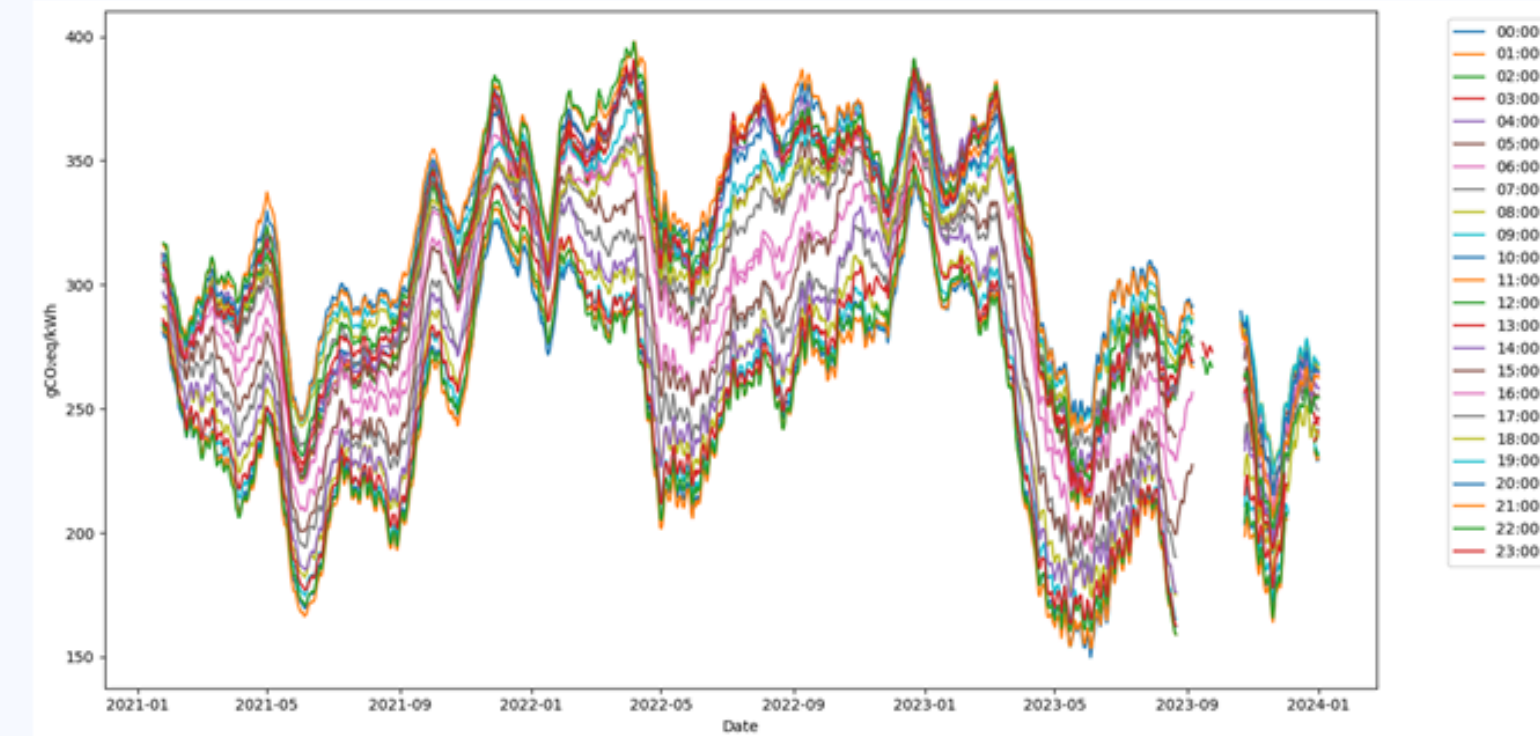
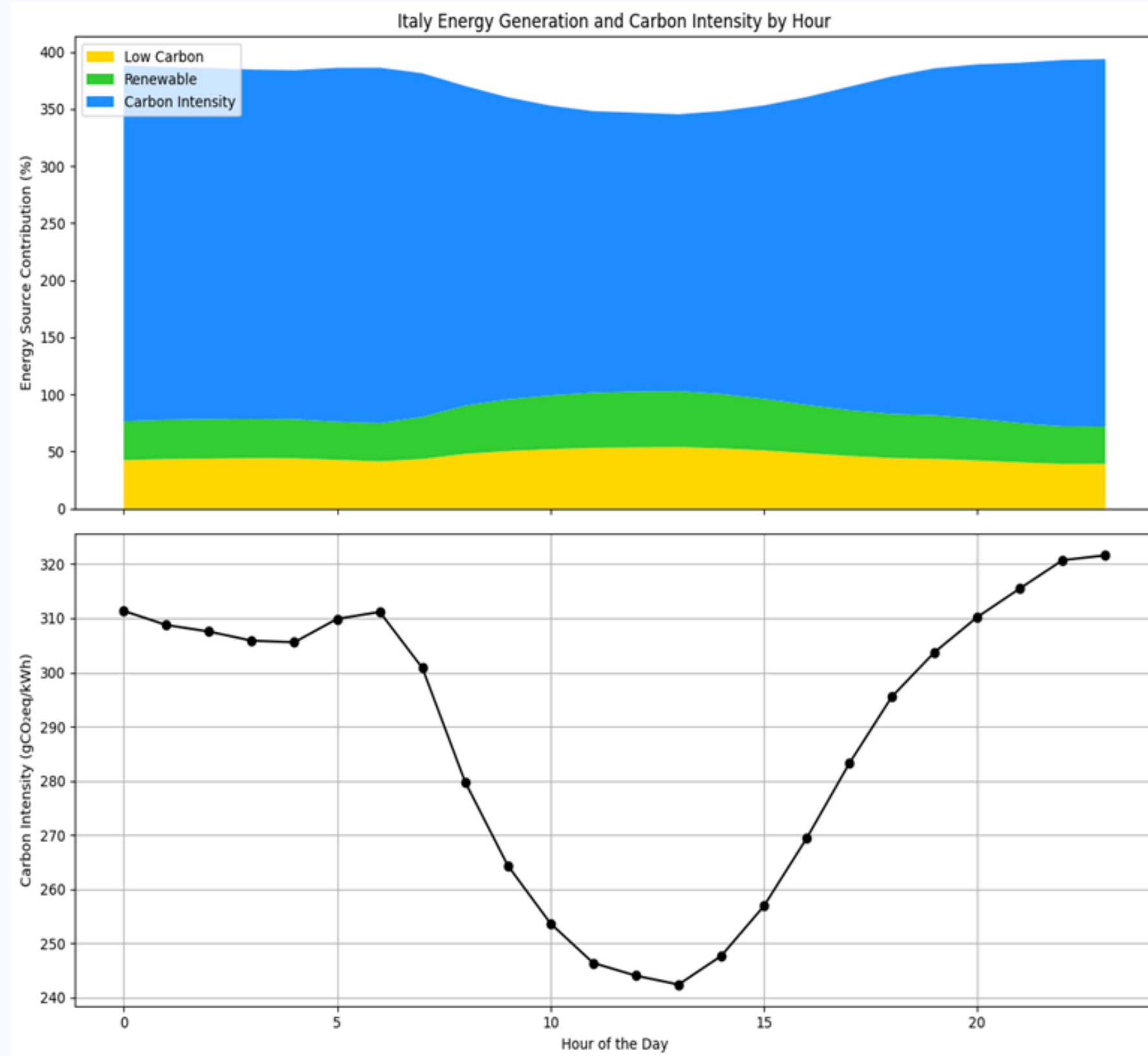
Proposed architecture



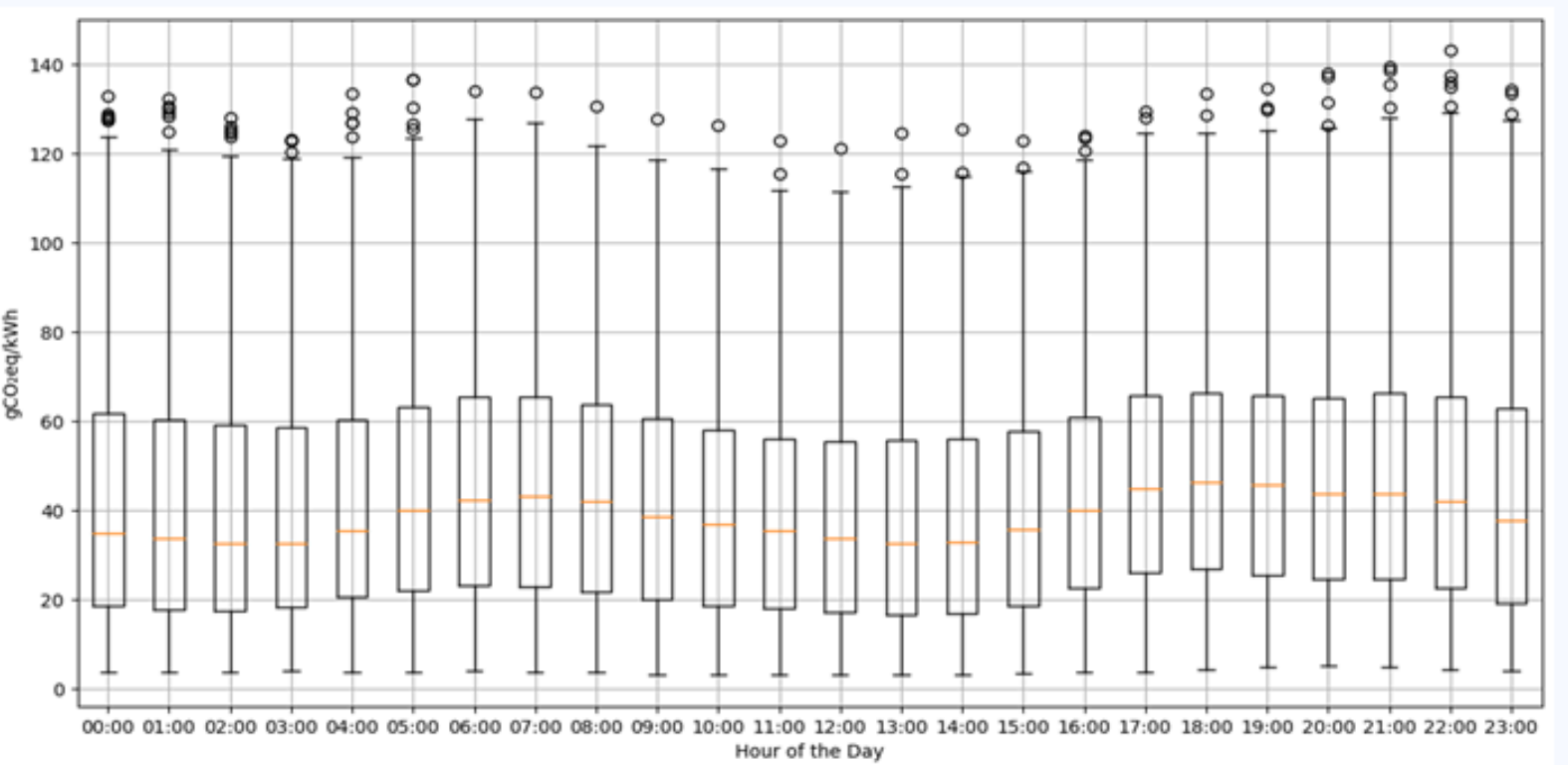
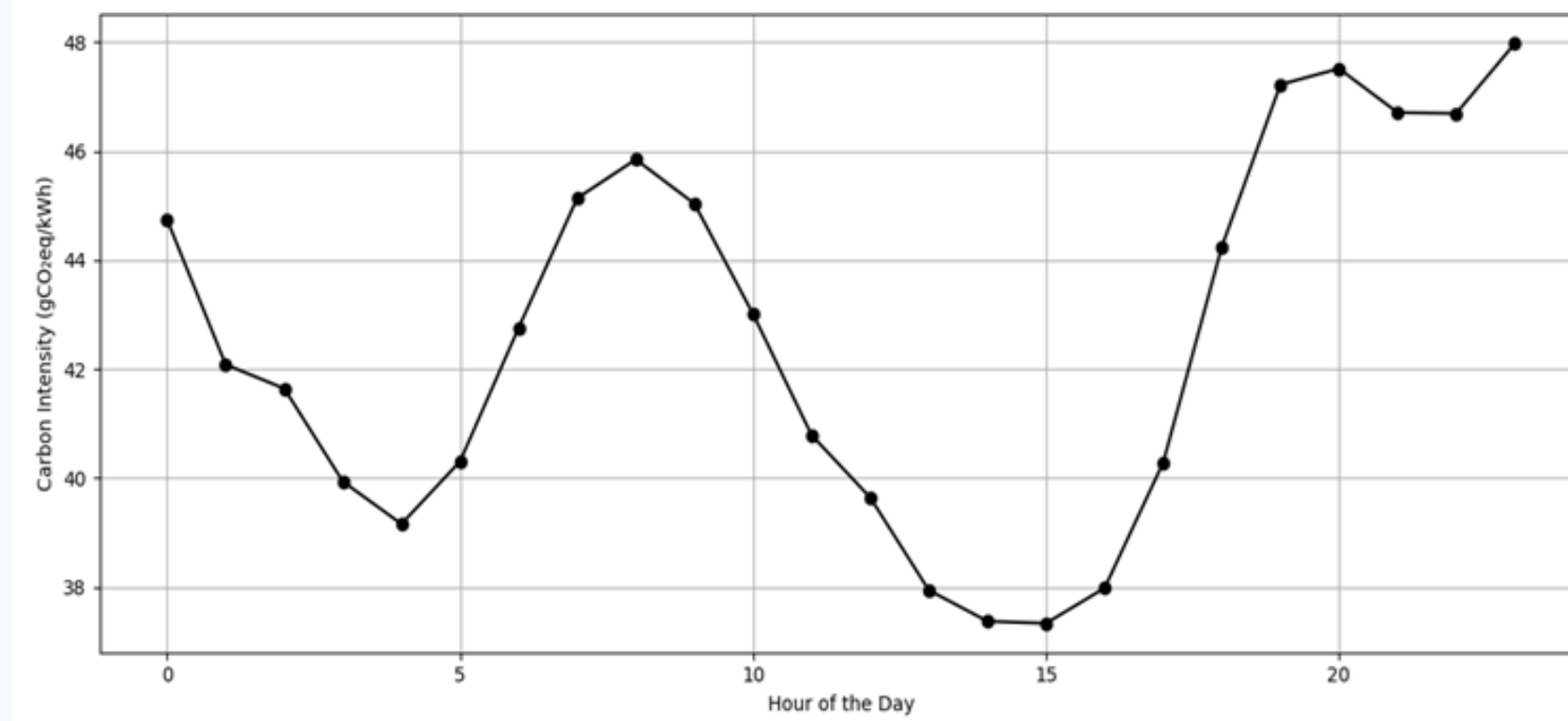
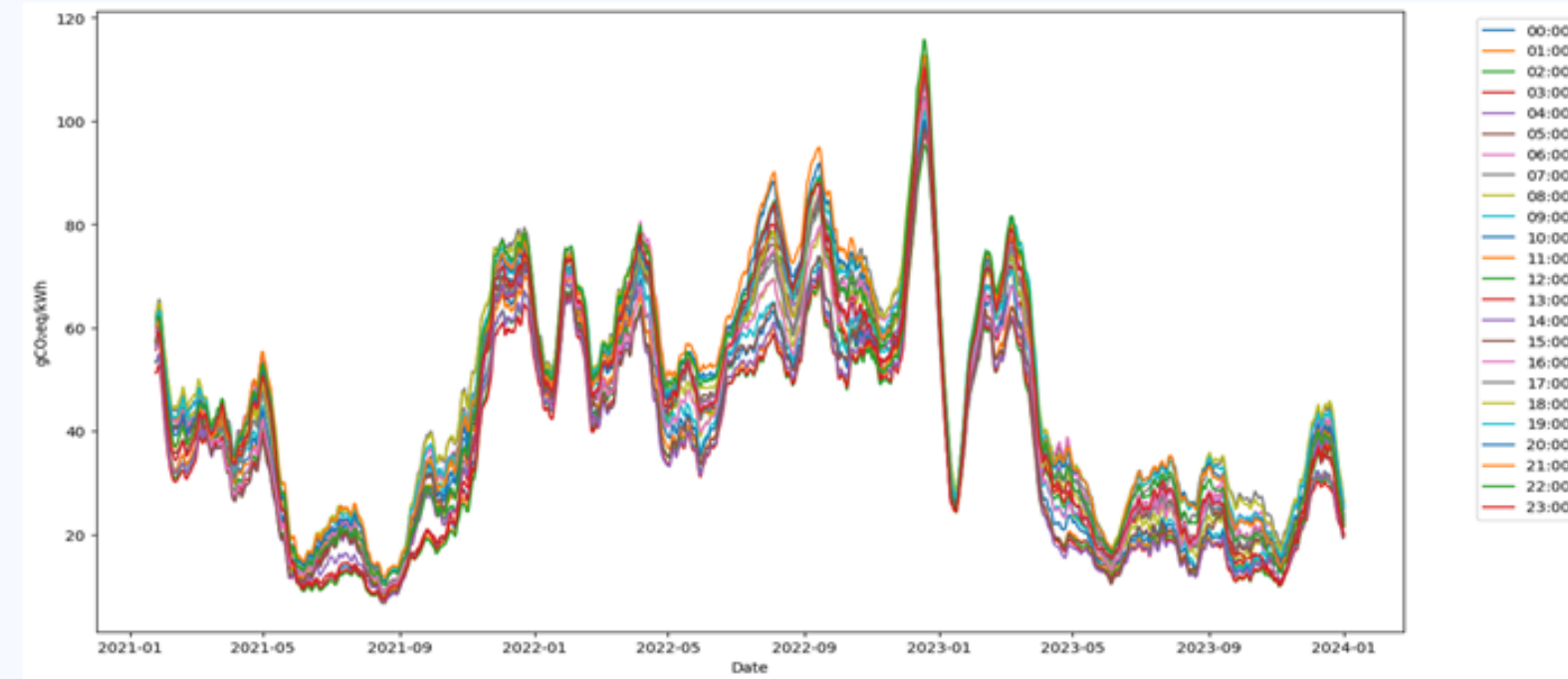
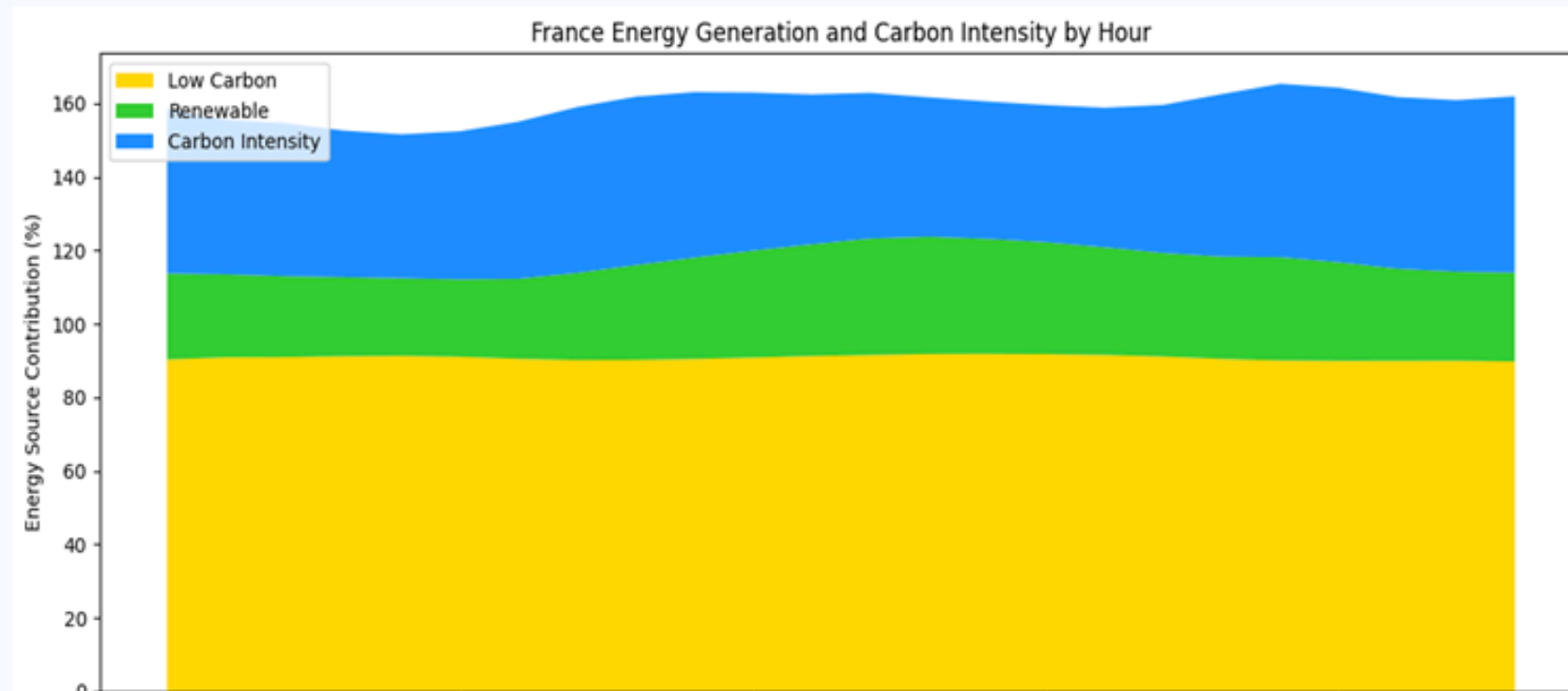
Carbon intensity metrics (01/2021 - 01/2024)



Carbon intensity metrics (01/2021 - 01/2024)



Spatio-Temporal Analysis of Carbon Intensity II (France)



Findings

- **Optimizing cloud resource** allocation based on real-time carbon intensity can lead to substantial reductions in energy consumption.
- **Temporal and regional differences** in carbon intensity were leveraged to schedule workloads in a more sustainable manner.
- **GreenOps vs. Traditional Methods:**
 - **Outperforms existing cloud resource management models**, especially in regions with high variability in energy sources.
 - **AI-driven scheduling and real-time analytics** proves essential in reducing emissions during peak energy periods.





at



Krateo among the Italian startups invited by Innovit in San Francisco in 2024.

INNOVIT - Italian Innovation and Culture Hub, is the first Italian Innovation and Culture Hub in San Francisco, that selects an exclusive number of Italian small companies to learn how to do business in the U.S., in the heart of Silicon Valley, home to the world's largest Big Tech



Events



COMO 20
LAKE 24

COMOLAKE
CONFERENCES



micromegas



**THE GREAT
CHALLENGE**

15-16-17-18 OTTOBRE 2024
VILLA ERBA | CERNOBBIO - COMO

Barcelona

11-14 November 2024

FinOps 



KubeCon



CloudNativeCon

1-4 April, 2025
London, England
#kubekon #cloudnativecon

Europe 2025





Thank You



Schedule 45-minute call to get to know more about **Krateo**



Krateo PlatformOps

Krateo S.r.l.



Website

www.krateo.io



Email

contact@krateoplatformops.io



GitHub

<https://github.com/krateoplatformops>