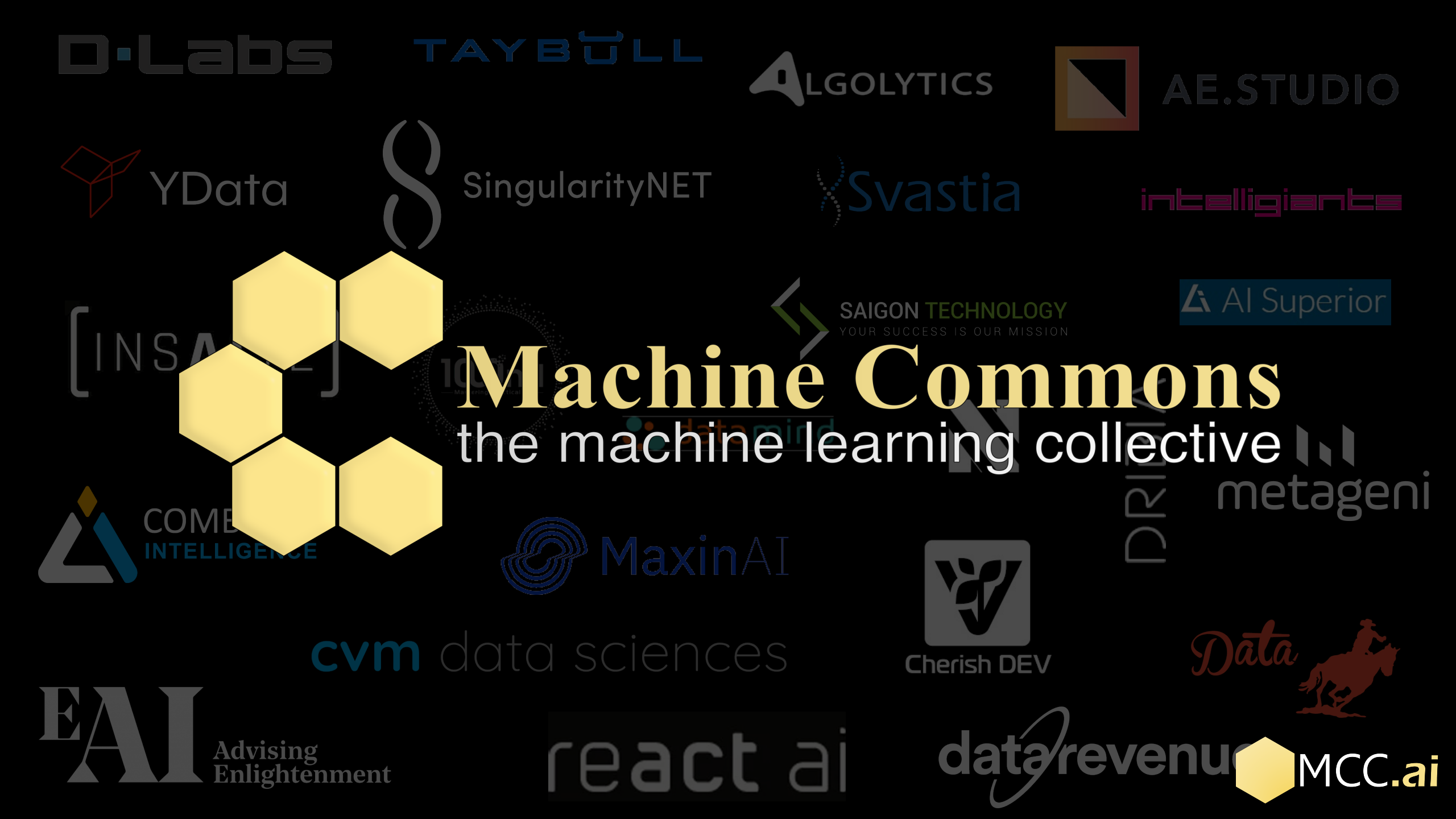
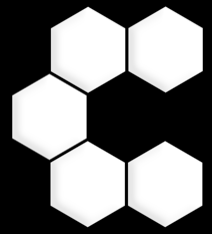

D-Labs
TAYBULL
ALGOLYTICS
AE.STUDIO
YData
SingularityNET
Svastia
intelligiants
SAIGON TECHNOLOGY
YOUR SUCCESS IS OUR MISSION
AI Superior
Machine Commons
the machine learning collective
metageni
MaxinAI
cvm data sciences
Cherish DEV
Data
EAI
Advising Enlightenment
react ai
MCC.ai

We're a **decentralised consultancy**, specialised in machine learning.

For **businesses** that want machine learning capability, but don't have the experience or time to screen suppliers.



For **suppliers** that offer machine learning capability, who'd prefer to spend time on engineering not sales.

Machine Commons
the machine learning collective

85+ suppliers	45 industries
1480+ people	30 countries
800+ active clients	120+ case studies

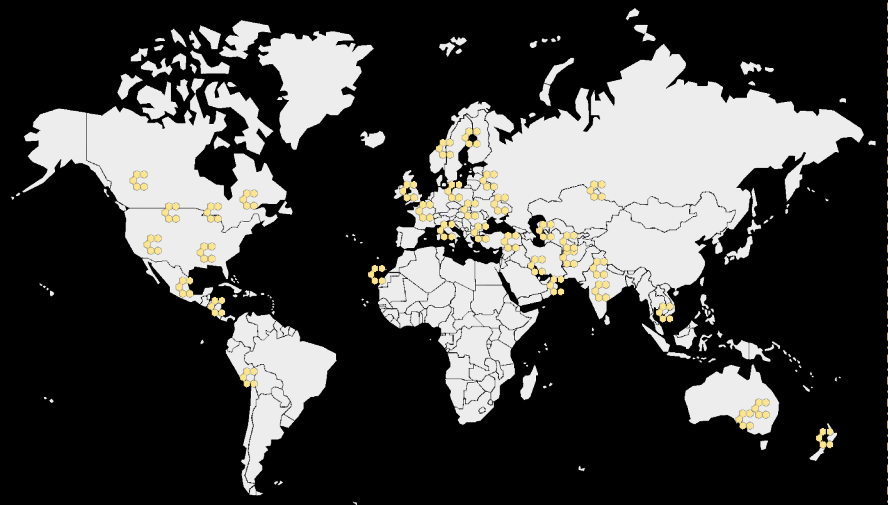
/Mission

- Borders between businesses are blurring.
- It's not right that so much power is concentrated to so few.
- Cross pollination is rocket fuel to innovation.
- Trust in the Commons is trust in us all.

Clients among the Collective

SAMSUNG, Red Dot Foundation Global, ao.com, swatch, AAA AUTO, PIRELLI, BILLPAY, CATHAY PACIFIC, AVON, Danske Bank, Rentokil, BLECKWEN, Scotiabank, BCG Boston Consulting Group, salesforce, Innovate UK, ORIGIN, giffgaff, Telefonica, spatialbuzz, Mercedes-Benz, box, THOMSON REUTERS, CENTOGENE THE RARE DISEASE COMPANY, MANCHESTER 1824

A Global Collective



Our Focus.

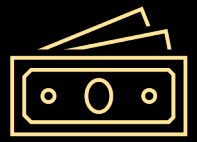
Encapsulating our network's strongest expertise:
101 skills in 5 industry verticals.

5 verticals

54 categories

101 skill tags

We help businesses navigate the highly complex market for **specialist machine learning solutions**



No cost or commitment

Our suppliers pay a 'cost per acquisition' for successful business, so we can maintain a **price match guarantee.**

Niche specialists, all industries

We have **intimate knowledge** of supplier:

- prior experience,
- core competences,
- case studies, and
- ways of working.

Single point of contact

Fast turn around for **multiple innovation requests**, with streamlined communication and billing processes across multiple innovation types.

Better, cheaper proposals

Iterative **pre-client feedback** rounds improve proposals. Costs are **pre-negotiated** in a competitive environment.

We take a case study lead approach, delivering a menu of capability options

(120+ documented case studies and growing)

When a client has an area of interest, our first step is put out a **request for capability** in a target industry, customised to a **specific business requirement (a goal or a challenge).**

Case study: Automated Biomarker Analysis

Vertical	Healthcare
Industry	Pharmaceut
Client	Centogene

Please note we are unable to provide further information for this client due to an NDA.

Case study: Machine and process monitoring

Vertical	Primary Industries & Manufacturing

Case study: Steel sheet defect detection

Vertical	Primary Industries & Infrastructure

ng company wants to find defects in steel
g techniques to make quality checks accurate

f flat steel sheet is especially delicate. From
ing and cutting, several machines touch flat
r to ship.

efects in steel sheet images by localising and
steel sheet.
ur types of defects which need to be detected.

Case study: Fuel consumption optimisation

Vertical	Business Intelligence
Industry	Supply chain management
Client	Confidential [bottling manufacturer]

Business Challenge

- Client has more than 550 vehicles in Fleet and they have been presenting deviations in fuel consumption on same Route, same truck, same Cargo.
- The goal was to reduce Fuel Consumption deviations:
- Data was in Silos: Telemetry, SAP, Oracle TMS.
- Drivers need "Flight Plan" in real-time without being invasive to their normal operations. There was poor Internet signal across some routes.

Supplier Solution

- The supplier built a Digital Twin with an Optimization model:
- Their model could calculate the optimal route following the analysis of 1.5 years of data (+ 100M data points) and defined the critical variables that influence fuel consumption.
- They created 2 dashboards: 1 for drivers and the other for Logistics management, sending recommendations for every trip segment to optimize driver's performance using visual and voice recommendations.

Case study: Intelligent tracking system

Vertical	Business Intelligence
Industry	Aviation
Client	SITA

Business Challenge

- SITA is logy Company with over $1 billion in revenue, building advanced solutions for airports
- When airline passengers' luggage is lost, the goal is to find lost luggage at airports using video feeds.
- Searching terabytes of videos manually is a very laborious task.

Supplier Solution

- The supplier created a deep learning model to find missing baggage, with OCR (optical character recognition) to extract information from it.
- For background segmentation, they used FgSegNet and for finding baggage we used Triplet Network and Siamese Network.
- They achieved a Top-5 accuracy of 94%.
- The final solution was built in C++ with a user interface.
- The solution works real time with use of Jetson GPU's.

Case study: Product quality mgmt.

Vertical	Primary Industries & Manufacturing
Industry	Aviation manufacturing
Client	Woodward

Business Challenge

- The client is a manufacturer of airplane parts (turbines, etc.) with over $2 billion in revenue. They wanted to bring machine learning methods into their production quality management system.
- End-product quality is of critical importance in the aviation field.
- Testing processes are very complex and generate a lot of data.

Supplier Solution

- Our supplier developed an intelligent production quality management system for process capability analysis.
- Large quantities of data were processed and visualised for CPK, PPK and MSA analysis (statistical process performance measures).
- Test engineers can identify bottlenecks in a seconds and create needed reports in a minutes using user friendly GUI.
- Further, predictive analysis enables foresight into which products are likely to fail and at which test step.
- Reduced manual work by 30%. Operational costs of delivery products to the customer reduced by 25% because of detection and prevention of sending bad products to the customers.

To find the right supplier, we need to define the challenge

01 Define

Define the challenge, identifying desirable business use cases.

02 Brief

Brief relevant suppliers from our Collective to understand the technical feasibility of business use cases.

03 Consult

Consult with our Suppliers to map out the technical feasibility of use cases.

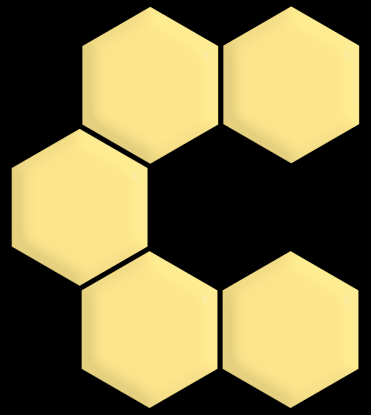
04 Present

Present feasible options with implementations, costs and outcomes.

Then we'll tap into our international network of data experts

Following strategy, we'll make use of our Collective capabilities.

Most suppliers in our network have a unique core competence and each can do different things better and more cost effectively.



Machine Commons

the machine learning collective

Thank you

Brief	www.machinecommons.org/submit-brief
Chat	www.calendly.com/machine-commons
Ask	enquire@machinecommons.org