



In partnership with



# M3

Value and connect data to create the first

## METABOLISM MANUFACTURE MONTREAL

Eligible businesses

### Manufacturing

### SMEs

### having

- ✓ Revenue over 1 M \$
- ✓ A Computer Aided Design system (CAD)
- ✓ A technical / Scientific Data Team

The M3 project will allow participating companies to gain a deep knowledge of their environmental impacts and master tools which aid them in reducing their carbon footprint

- **Diagnosis** containing the potential benefits the company could see by implementing sustainable actions;
- **Life cycle analysis** of a product of their choice and potential improvements that may result;
- **GHG balance sheet** including direct and indirect emissions, in order to establish all of their impacts and aid in developing quantified reduction strategies;

## ADVANTAGES



(1) Pôle écoconception et Institut de développement de produits. (2014). La profitabilité de l'écoconception : une analyse économique. Repéré à [http://www.idp-innovation.com/wp-content/uploads/pdf/IDP\\_Ecoconception\\_Rapport\\_2014\\_Profitabilite.pdf](http://www.idp-innovation.com/wp-content/uploads/pdf/IDP_Ecoconception_Rapport_2014_Profitabilite.pdf)

Three targeted sectors

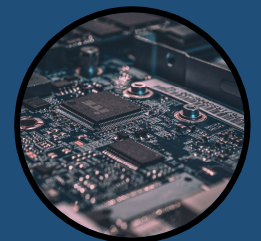
### PLASTIC



### METALLURGY



### ELECTRONICS



Thank you to our financial partners



# THE M3 PROJECT PROCESS

## STEP 1 – DIAGNOSIS AND CALCULATION OF THE BENEFICIARY MARGIN

The project starts with a diagnostic test consisting of 2 meetings. This will help the entrepreneur evaluate the **current level of sustainability**, and **possible improvements** and their **profitability**.

SERVICES	OBJECTIVES	DELIVERABLES
Meeting 1	Evaluation of business location, documenting of needs	Diagnosis establishing the portrait of the company
Meeting 2	Presentation of actions allowing for capital gains and reducing impacts	Report proposing concrete actions to profit margins

## STEP 2 – IMPLEMENTATION

This step is aimed at integrating the principles of circular economy, development of management skills and the acquisition of eco-design tools. Implementation consists of four workshops which are each three hours long. Each workshop also includes a set of meetings and exchanges for personalized follow-ups. CADET offers a complete support approach applied to the context of the company. This allows them to:

- Establish principles for sustainable development and put them into practice
- Use the ACV-BGES tool autonomously to:
  - Measure annual GHG emissions,
  - Measure the impact of manufacturing a specific product,
  - Envision different alternatives to reduce these impacts,

SERVICES	OBJECTIVES AND CONTENT	TOPICS COVERED
Workshop 1 <b>LEAD</b>	Understand how to integrate sustainable development and eco-design into the business.  Assist management in the creation and development of new approaches and in the adoption of new managerial skills.	<ul style="list-style-type: none"><li>• Work optimization</li><li>• Work relations</li></ul>
Workshop 2 <b>PLAN &amp; ORGANIZE</b>	Introduction to Life Cycle Thinking, Life Cycle Analysis (LCA), Greenhouse Gases (GHG) and, Balance Sheet and process planning.	<ul style="list-style-type: none"><li>• Simplified LCA tools</li><li>• Needs</li><li>• Goal identification</li><li>• Future actions to take</li></ul>
Workshop 3 <b>CONTROL</b>	Understand how to use the ACV-BGES software.	<ul style="list-style-type: none"><li>• Calculate potential gains of eco-conception</li><li>• Follow-up on progress of objectives</li></ul>
Workshop 4 <b>COMMUNICATION</b>	Understand how to explain sustainable development and the eco-design approach to your internal and external stakeholders.	<ul style="list-style-type: none"><li>• Extraction and diffusion of data, business indicators and information</li></ul>

### METABOLISM

Measure of all operations that transform raw materials to manufactured goods and residual materials



### ECOCONCEPTION

Designing a product and considering its entire life cycle



### LIFE CYCLE

From the extraction of raw materials to the end of a product's life including manufacturing, packaging, transportation and use

