Hes·so

innovationbooster
ARTIFICIAL INTELLIGENCE
databooster

Innovation Booster
powered by Innosuisse

WEBINAIRE DATABOOSTER ET AI BOOSTER

Le 24/06/2024

hes-so.ch

swissuniversities

Programme

- Welcome
- 12h05 - 12h20 : Présentation de DataBooster et AI Booster - Nabil Abdennadher et Reik Leiterer
- 12h20 - 12h40 : 2 exemples de financement
  - DNEXT, Sami Jaballah
  - REGDATA, Nicolas Pince
- 12h40 - 13h00 : Questions/Réponses

Bonnes pratiques durant le webinaire !

Le webinaire est enregistré et les slides seront envoyées aux participants

Vous pouvez poser vos questions dans le Chat, nous y répondrons durant le Q&A

Micro on mute

Innovation Booster – Databooster

databooster@data-innovation.org

CEO

Innovation Booster

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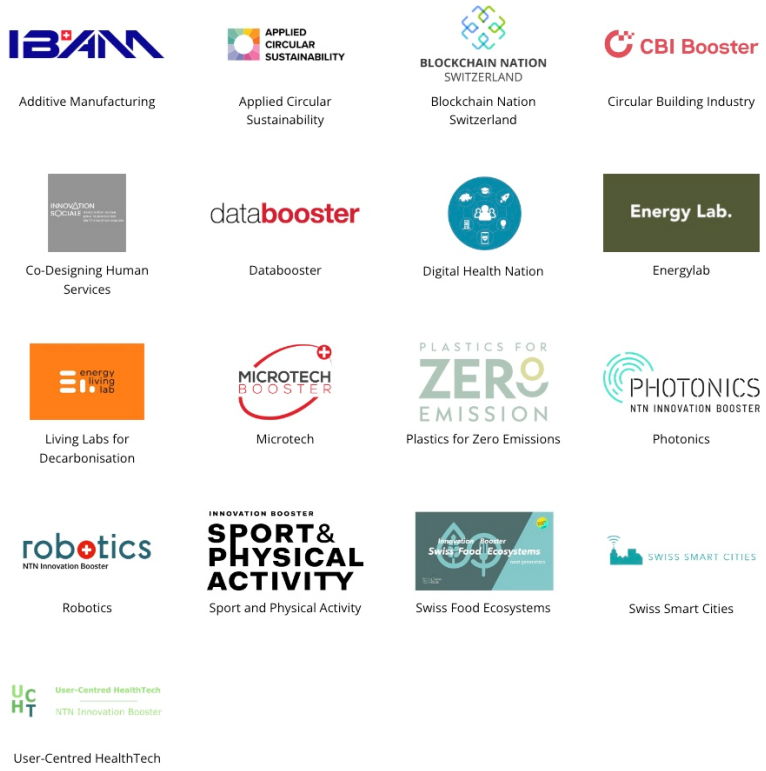
The Innovation Booster initiative brings together **all interested players** from research, business and society on **creating new or developing existing innovation ideas.**

- Today, there are 17 Innovation Booster programs which are funded by Innosuisse.

Objectives:

- Identify your innovation potential
- **Shape, test and improve your innovation idea with our financial support**
- Bring your idea to the next phase



data innovation alliance

Innovation Booster - Databooster

See: Databooster portrait video

Databooster pushes **innovation in data-based services for the manufacturing and service sector**, combining new methods and technologies in Data Science with novel business and service concepts.

Your benefit:

- Explore your challenges
- Shape your innovation idea and test it
- Get access to expert knowledge and to suitable project teams
- Get support for project funding (max. 25 kCHF)

Industry 4.0	Smart Services	Responsible AI	Spatial Data Analytics

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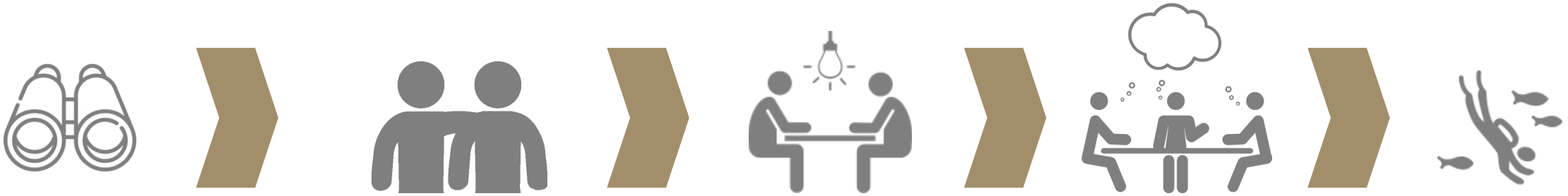
Databooster: Focus Topics 2023

	Details	Partners
Industry 4.0	Innovations through applied connectivity and digitalization. Focusing on multidisciplinary exchange and getting the right stakeholders onboard.	Industrie 2025
Smart Services	Design of new data-driven services in a range of industries, from pure services such as banking to services associated with products or capital goods in both the B2B and B2C segments.	Industrie 2025, SKDV, KVD, ADMA, ASAP, I4MS, KSRI
Responsible AI	Innovative solutions for creating responsible AI. Topics include fairness, transparency and explainability, human-centeredness, robustness, sustainability, safety, and security.	Digital Society Initiative
Spatial Data Analytics	Spatial data is of vital importance for many sectors, but still under-exploited. Innovation is needed in data creation, modeling and quality control.	GeoSummit, Swiss Data Cube, SGPF

Databooster: Innovation Process

https://databooster.ch/innovation_process/

Mining → Call for participation → Shaping → Reshaping → Deep Dive



Innovation projects (research proposals, Innocheques, directly funded projects)

Involvement SME / startups

Participation in focus topic workshops, events https://databooster.ch/event/	Each SME or startup get support to find the appropriate partner for the ideation phase https://databooster.ch/calls/	Each SME or startup can become an experts within the ideation phase https://databooster.ch/calls/	Service design experts and specific topic experts support the ideation phase for an innovation team.	Each SME or startup can apply for testing an idea https://databooster.ch/calls/

Examples of funding opportunities

- Innosuisse
- European projects
  - Horizon Europe
  - Eurostar
  - Interreg
  - Era-Net
- … And many others

Innovation project supported by

Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Confederation

Innosuisse – Swiss Innovation Agency

eurostars

eureka
innovation beyond borders

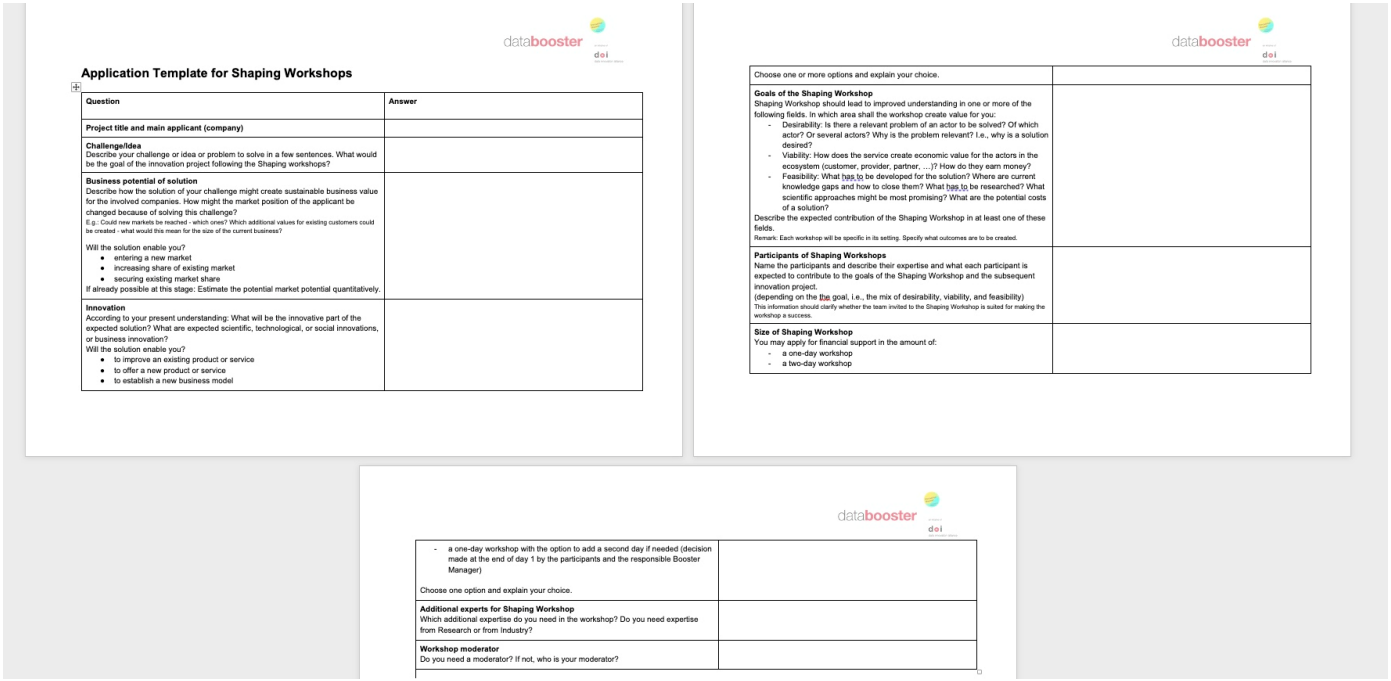
Interreg

EUROPEAN UNION

Smart Energy Systems ERA-Net

Shaping workshop template

- Challenge/Idea
- Business potential of solution
- Innovation
- Goals of the Shaping Workshop
- Participants of the shaping worshop
- Size of the shaping workshop



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Application Template for Shaping Workshops

Question	Answer
Project title and main applicant (company)	
Challenge/Idea Describe your challenge or idea or problem to solve in a few sentences. What would be the goal of the innovation project following the Shaping workshops?	
Business potential of solution Describe how the solution of your challenge might create sustainable business value for the involved companies. How might the market position of the applicant be changed because of solving this challenge? E.g.: Could new markets be reached - which ones? Which additional values for existing customers could be created - what would this mean for the size of the current business? Will the solution enable you? • entering a new market • increasing share of existing market • securing existing market share If already possible at this stage: Estimate the potential market potential quantitatively.	
Innovation According to your present understanding: What will be the innovative part of the expected solution? What are expected scientific, technological, or social innovations, or business innovation? Will the solution enable you? • to improve an existing product or service • to offer a new product or service • to establish a new business model	

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Choose one or more options and explain your choice.	
Goals of the Shaping Workshop Shaping Workshop should lead to improved understanding in one or more of the following fields. In which area shall the workshop create value for you: - Desirability: Is there a relevant problem of an actor to be solved? Of which actor? Or several actors? Why is the problem relevant? I.e., why is a solution desired? - Viability: How does the service create economic value for the actors in the ecosystem (customer, provider, partner, ...)? How do they earn money? - Feasibility: What has to be developed for the solution? Where are current knowledge gaps and how to close them? What has to be researched? What scientific approaches might be most promising? What are the potential costs of a solution? Describe the expected contribution of the Shaping Workshop in at least one of these fields. Remark: Each workshop will be specific in its setting. Specify what outcomes are to be created.	
Participants of Shaping Workshops Name the participants and describe their expertise and what each participant is expected to contribute to the goals of the Shaping Workshop and the subsequent innovation project. (depending on the the goal, i.e., the mix of desirability, viability, and feasibility) This information should clarify whether the team invited to the Shaping Workshop is suited for making the workshop a success.	
Size of Shaping Workshop You may apply for financial support in the amount of: - a one-day workshop - a two-day workshop	

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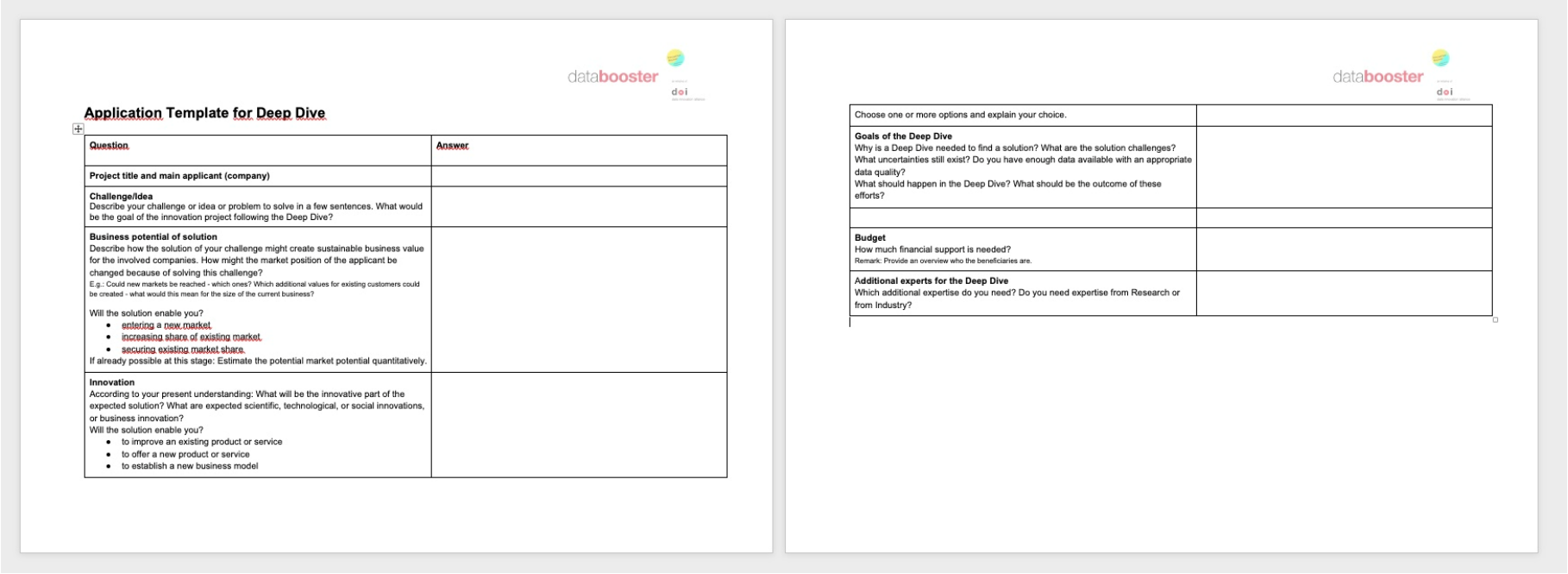
- a one-day workshop with the option to add a second day if needed (decision made at the end of day 1 by the participants and the responsible Booster Manager) Choose one option and explain your choice.	
Additional experts for Shaping Workshop Which additional expertise do you need in the workshop? Do you need expertise from Research or from Industry?	
Workshop moderator Do you need a moderator? If not, who is your moderator?	

Deep dive template

- Challenge/Idea
- Business potential of solution
- Innovation
- Goals of the Deep Dive
- Experts for the Deep Dive



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Application Template for Deep Dive

Question	Answer
Project title and main applicant (company)	
Challenge/Idea Describe your challenge or idea or problem to solve in a few sentences. What would be the goal of the innovation project following the Deep Dive?	
Business potential of solution Describe how the solution of your challenge might create sustainable business value for the involved companies. How might the market position of the applicant be changed because of solving this challenge? E.g.: Could new markets be reached - which ones? Which additional values for existing customers could be created - what would this mean for the size of the current business? Will the solution enable you? • entering a new market. • increasing share of existing market. • securing existing market share. If already possible at this stage: Estimate the potential market potential quantitatively.	
Innovation According to your present understanding: What will be the innovative part of the expected solution? What are expected scientific, technological, or social innovations, or business innovation? Will the solution enable you? • to improve an existing product or service • to offer a new product or service • to establish a new business model	

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Choose one or more options and explain your choice.	
Goals of the Deep Dive Why is a Deep Dive needed to find a solution? What are the solution challenges? What uncertainties still exist? Do you have enough data available with an appropriate data quality? What should happen in the Deep Dive? What should be the outcome of these efforts?	
Budget How much financial support is needed? Remark: Provide an overview who the beneficiaries are.	
Additional experts for the Deep Dive Which additional expertise do you need? Do you need expertise from Research or from Industry?	

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Innosuisse Innovation Booster

Artificial Intelligence

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Innovation Booster Artificial Intelligence – Our Focus Topics

Innovation that integrates technological, business-related, and societal aspects for achieving environmental, economic and social sustainability. With respect to sectors, we focus on (a) **Industrial services**, (b) Services in **Finance**, (c) **MedTech**, and (d) **climate change** mitigation.

Innovation designed to **reduce all kinds of losses** (material waste, energy) in production processes. Approaches that **combine human knowledge with ML** technologies play a significant role.

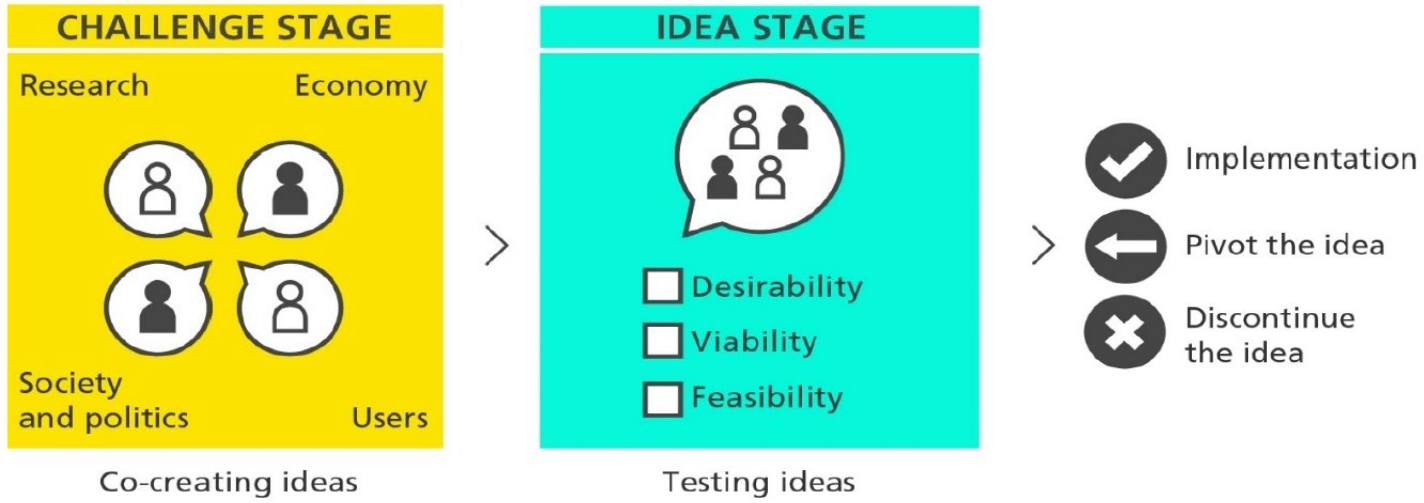
Innovation designed to **reduce the costs** of AI. It includes the energy consumption of ML, the need for hardware and the demand for human resources. It **makes AI more accessible** for SMEs and startups.

Innovation to achieve **socially responsible designs of AI**, driven by the upcoming European AI Act and other regulations, raising concerns of different social actors. This requires careful and innovative **integration of ethical and technological aspects of AI**.

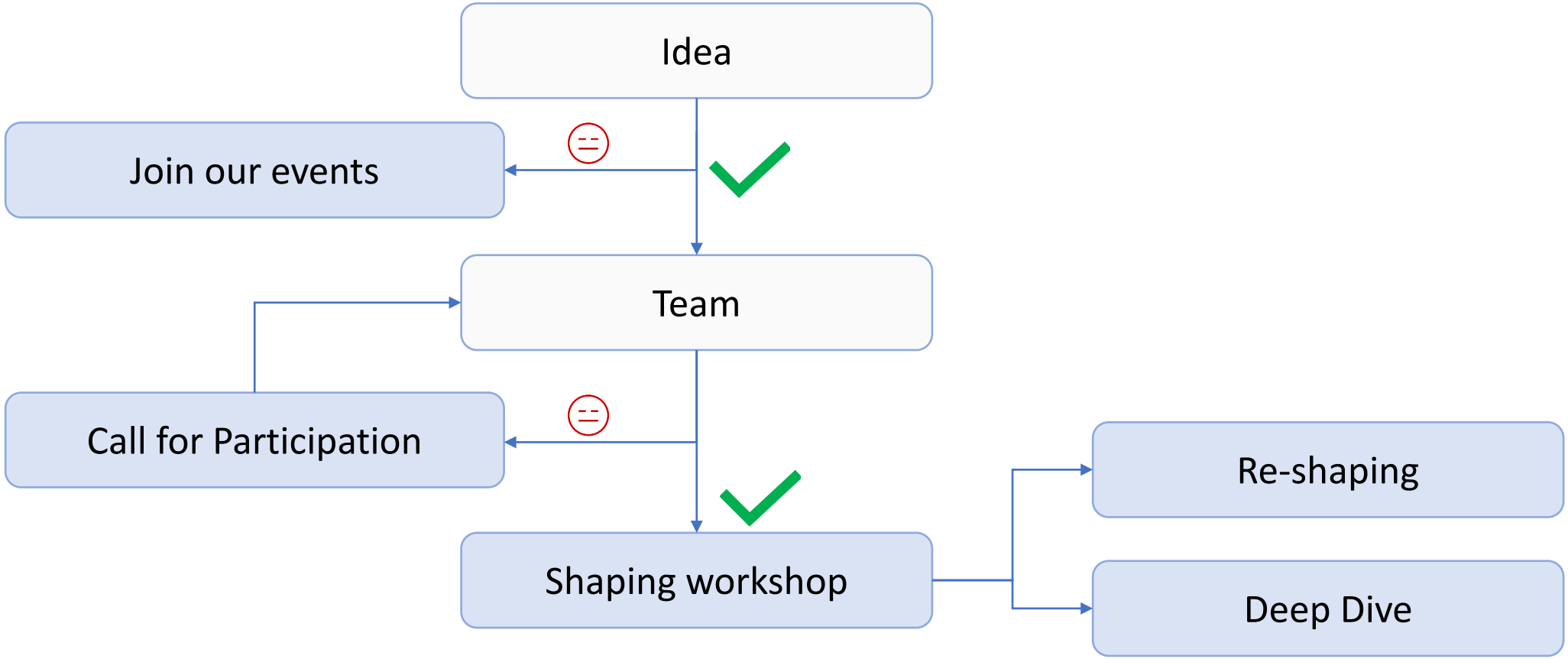
About the Innovation Process in the Innovation Booster

1) Co-creation in collaboration with several other stakeholders around a challenge.

2) Development of ideas that are intended to lead to radical solutions and can thereupon be tested.



Innovation Booster Artificial Intelligence – Participation



Innovation Booster Artificial Intelligence – Participation Requirements

You have an idea, but you still have to put together a suitable innovation team?

Requirements:

- idea
- use case

Call for Participation

You have an idea and innovation team, but you still need to shape and/or sharpen your idea?

Requirements:

- idea
- use case
- 10% cash-contribution
- team (academia & industry)

Application for Shaping Workshop

You have an idea, innovation team, and a business case and need a feasibility study or a proof of concept?

Requirements:

- idea
- use case
- 10% cash-contribution
- team (academia & industry)
- business case

Application for Deep Dive

Together
we move faster.

RELAIS DES OPPORTUNITES AU SEIN DE LA HES-SO

Groupe Teams DataBooster & AI Booster

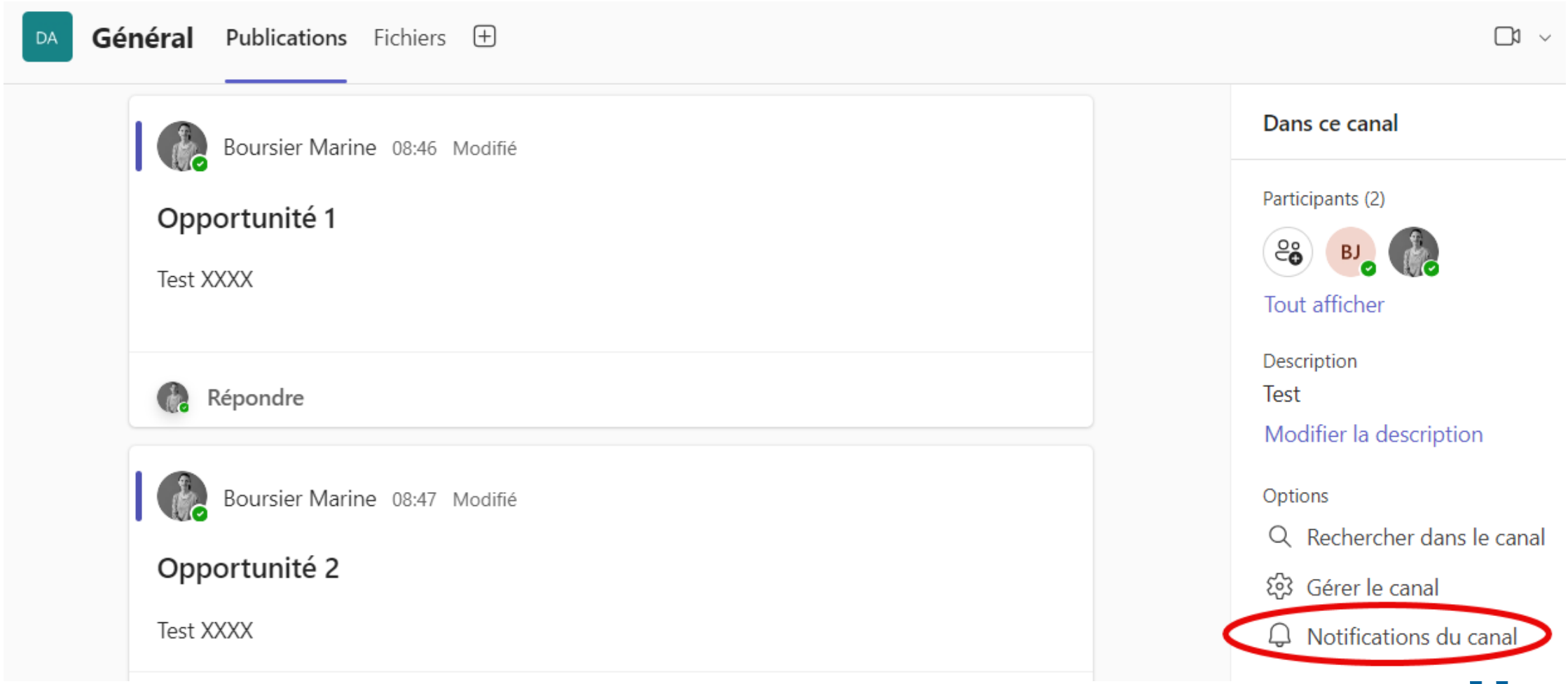
<u>Pour la communauté HES-SO</u>

Envoi d'un lien pour faire une demande d'inscription au groupe suite à ce webinaire.

Validation par le 'modérateur'.

Les publications sont faites par l'équipe opérationnelle du Booster :
Un call → une publication → un lien pour candidater

Activation des notifications



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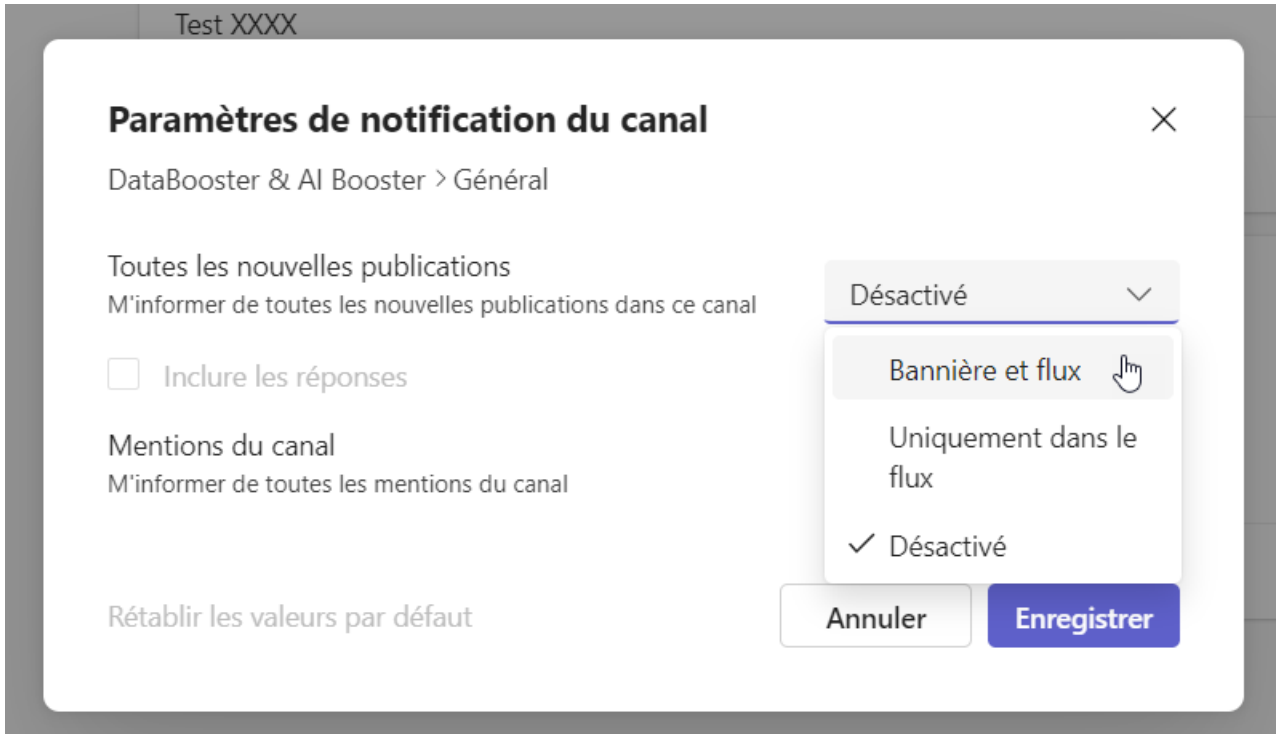
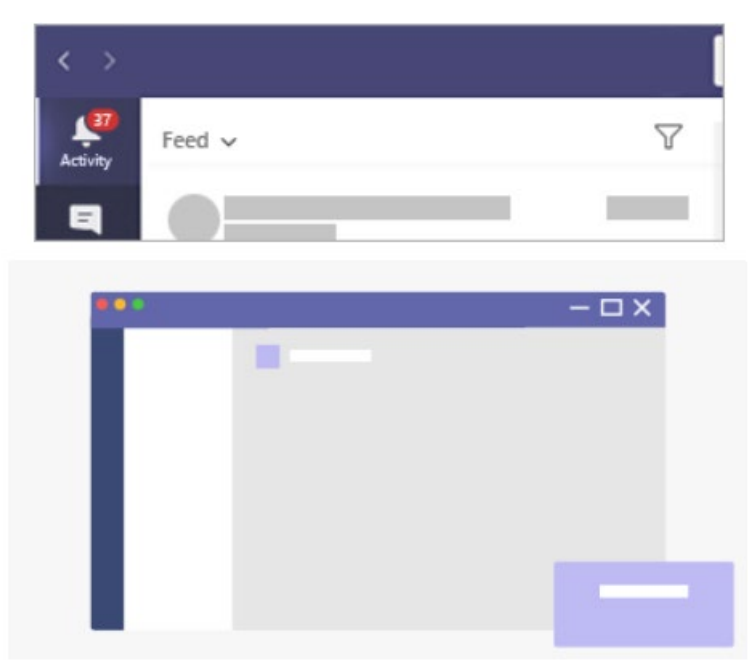
Activation des notifications





Vous êtes un Prof. HES-SO et vous voulez faire une proposition de projet ?

Collaboration avec un partenaire industriel requise

1. Contacter nabil.abdennadher@hesge.ch pour finaliser les deux templates demandés par DataBooster/AI Booster.

2. Les documents sont ensuite transmis à DataBooster/AI Booster via la plateforme en ligne.

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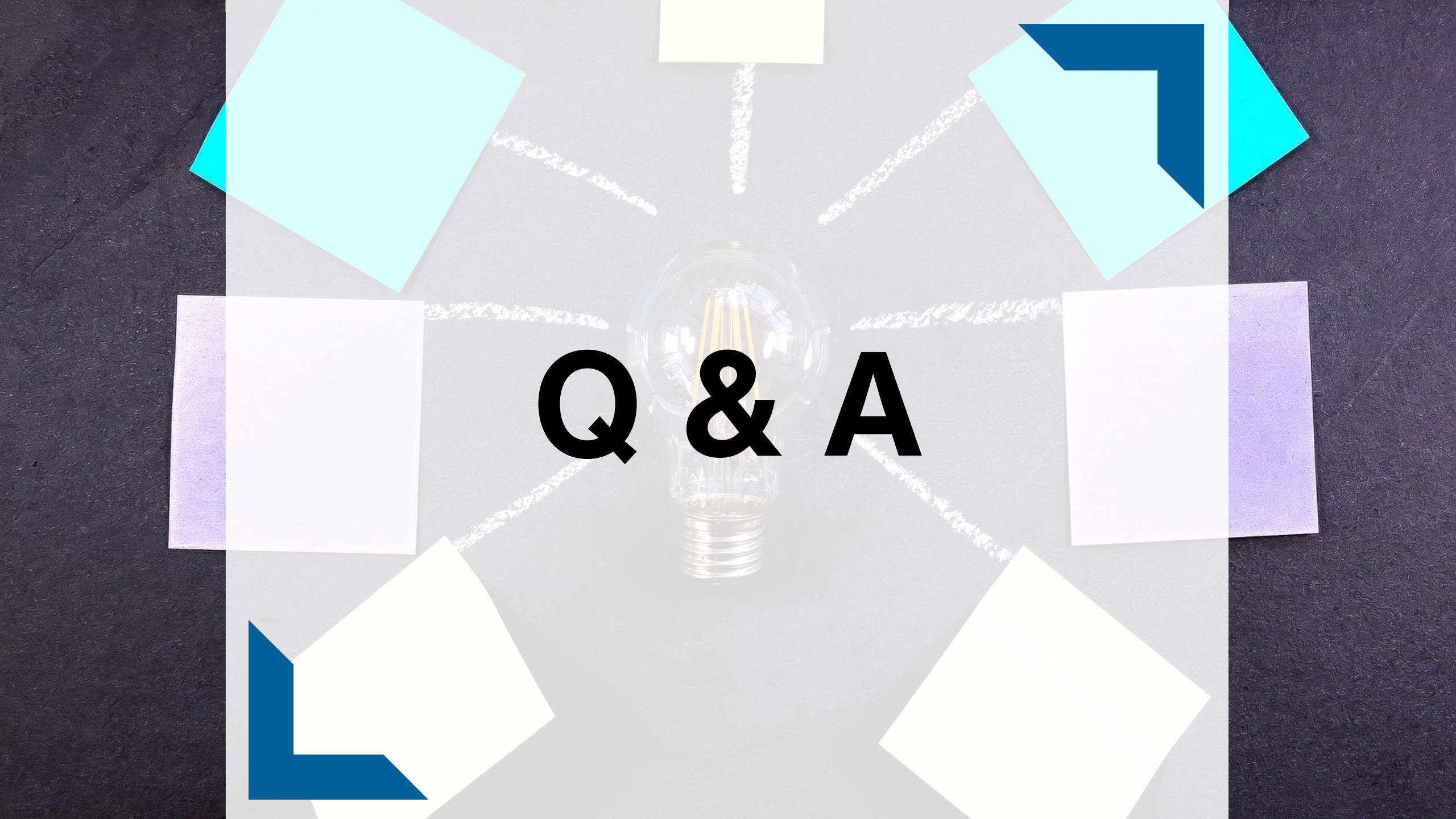
Q & A

MERCI !

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