



# Innovation Créatrice

les impératifs partagés  
d'innovations en 2023 pour une  
meilleure proposition de valeur

DEC 2022

**em**  
**lyon**  
business  
school

 early makers  
since 1872

# #INNOVATION

## créatrice

1/ FOE

Future of Economic  
Plateforme

2/ FOW

Future of work  
Hybride

3/ FOI

Future of Internet  
W3  
BC

4/ FOX

Future of Experience & Marketing  
Metaverse

5/ FOM

Future of Management  
Agilité Hybride

tech for good

DISRUPTION  
MARKETING  
VUCA

NBIC  
PERVASION

DAO

PERSONA

HYBRID

ENGAGEMENT

CX

PLATFORM

BLOCKCHAIN  
NBIC

Voyage dans le DEEP WEB avec  
hubert kratiroff

en 5 questions et 5 parties.  
Un nouveau digital mindset  
pour aborder ce #new-world.

C'est le FOE (future of  
economics), mais aussi le FOW  
(future of work) grâce au FOT  
(future of technology).

Celui qui change tout c'est le  
client : place au FOM (future of  
marketing) ... quelle  
expérience !!!  
Quelle expérience ?

CRYPTO  
WEB3 NFT

GPT3

GAMIFICATION

SBTI

FOM

FOW

CONTENT STRATEGY

CRYPTOCURRENCY

OPENAI

L'environnement et  
la concurrence

Le futur du travail : hybride

L'utilisation éclairée des  
technologies

Les attentes utilisateurs

Enjeu de l'UX  
(expérience utilisateur)

SHA256

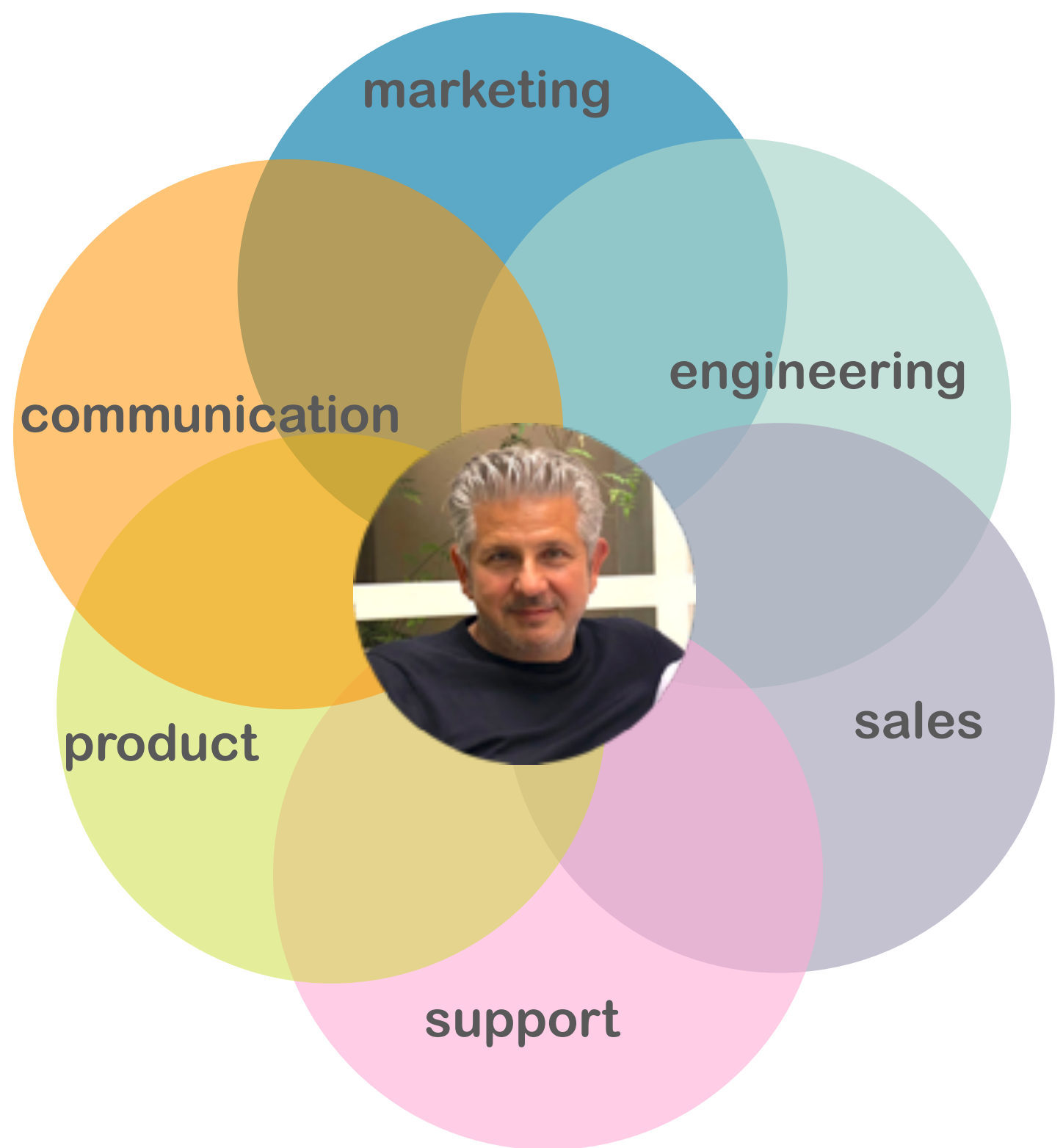
FOX

METAVERS



# technology evangelist

hubert@kratiroff.com



**ALAN KAY**



the best way to  
predict the future  
is to invent it

“  
The future is already here  
— it's just not very evenly  
distributed”



*William Ford Gibson (1948-) cyberspace  
noir prophet*

“ Le meilleur moment pour planter  
un arbre était il y a 20 ans ;  
le deuxième meilleur moment  
est maintenant ”





**Understand the Future,  
Now**

Software is eating the world. Future is your guide from a16z to technology, innovation, and where it's all going.

[Go to Future >](#)

**Future**

**Software is eating the world**  
**WEB 1.0 → 3.0**

**INNOVATION**

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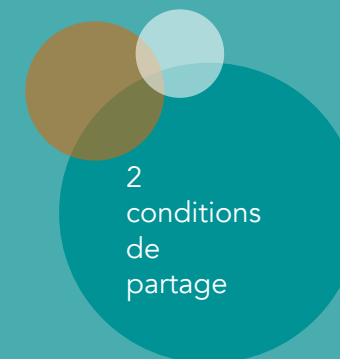


DEUX  
conditions  
de  
partage

PARTAGE des idées et de la valeurs  
avec les clients, les salariés,  
les parties prenantes

**PARTAGE de sobriété dans  
le choix des technologies,  
partage avec l'écosystème**

**Progrès vs. scientisme**





TECH FOR  
**GOOD**

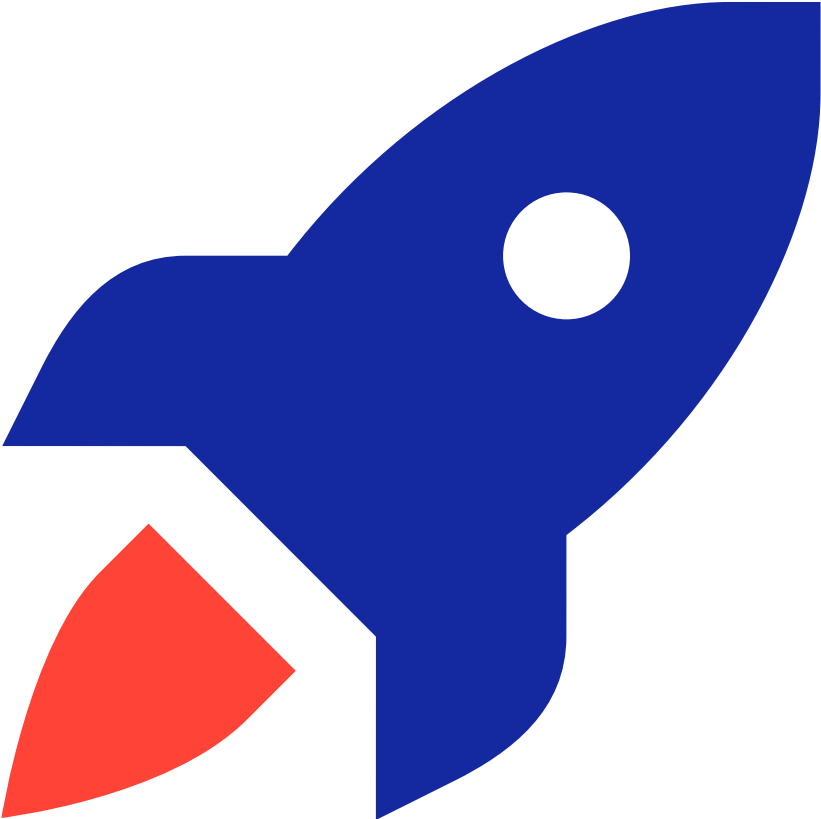
**... no plan B,**  
**(...no planet B)**

*Ban Ki-moon*





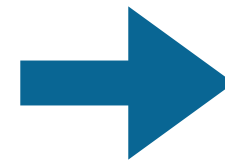




# Science Based Targets initiative (SBTi)



SCIENCE  
BASED  
TARGETS



The Net-Zero  
**STANDARD**

DRIVING AMBITIOUS CORPORATE CLIMATE ACTION



IT'S HERE!

The world's  
first

# NET-ZERO STANDARD

#NetZeroStandard

The Net-Zero  
STANDARD



SCIENCE  
BASED  
TARGETS

DRIVING AMBITIOUS CORPORATE CLIMATE ACTION







**PERVASION**



# NBIC

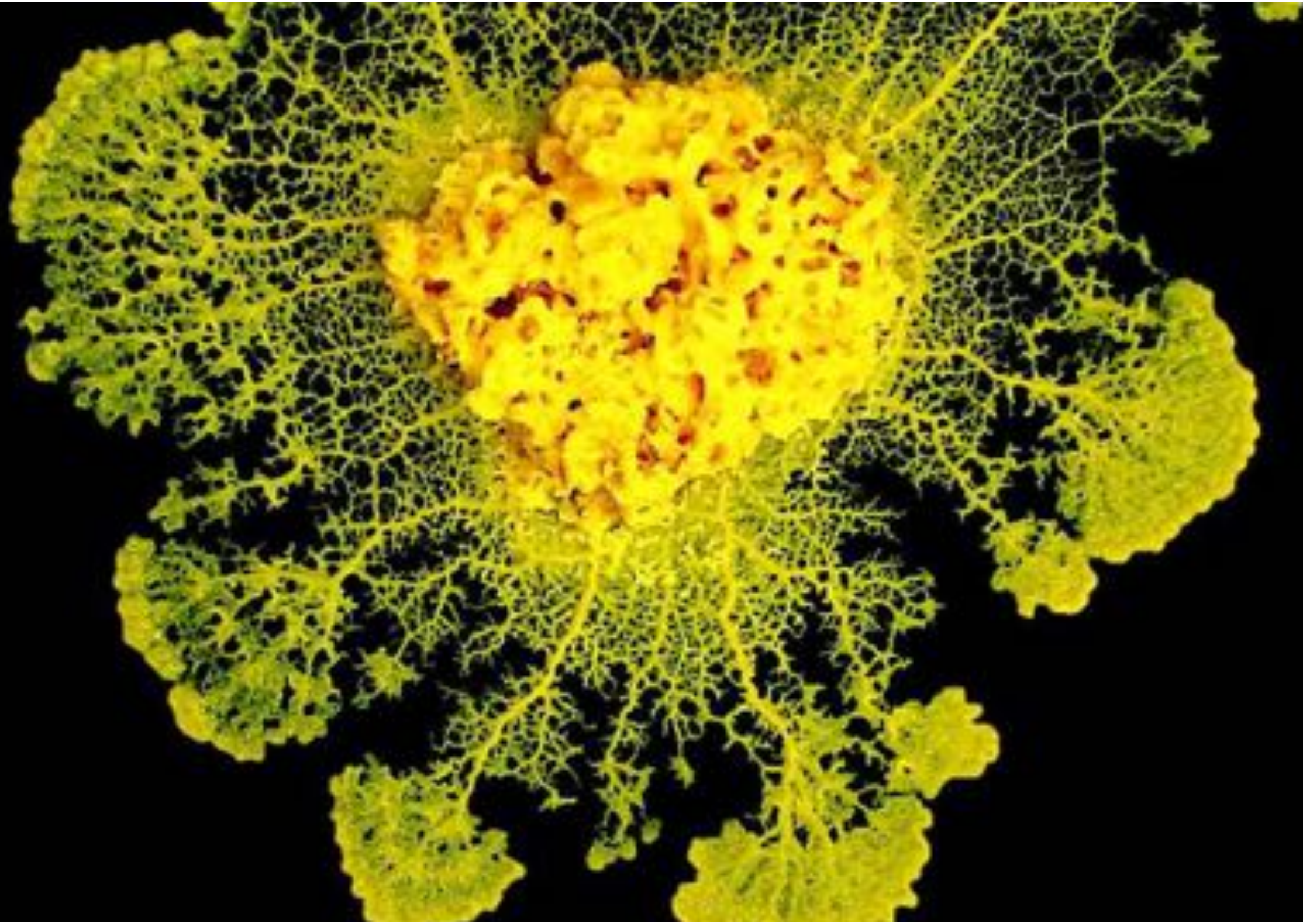
**Nano** (techno, matériaux, graphène, H)

**Bio** (techno, mimétisme, blob, axolotl)

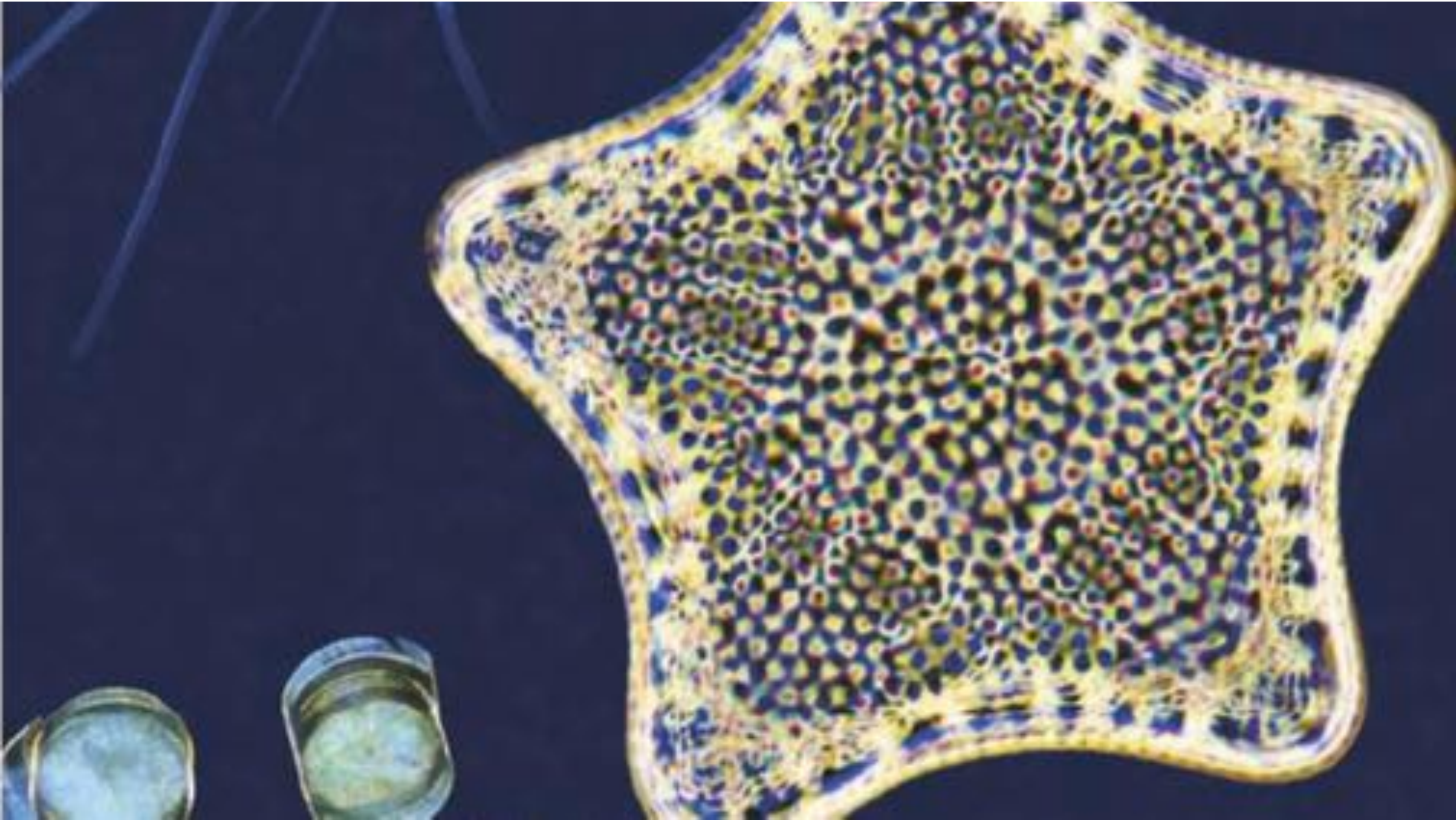
**Informatique** (IOT, 3Dprint, Additiv, Blockchain, Token, NFT, Quantique, Algorithmes)

**Cognitif** (IOB, IA, ML, META, MOOC, edTech, apprentissage adaptif)















# facebook horizon metaverse









THE  
SANDBOX



# FORTNITE





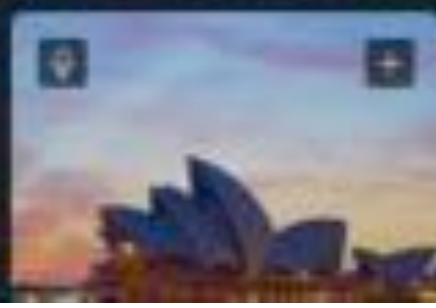
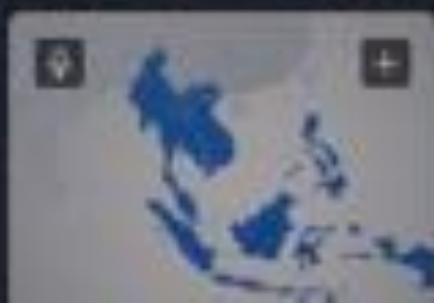


McKinsey  
Digital

# McKinsey Technology Trends Outlook 2022

August 24, 2022 | Interactive







# THE BEST INVENTIONS OF 2022

200 innovations changing how we live

How We Chose the List



Image courtesy of TIME

TIME  
SITES

The Best Inventions of 2022 homepage is built on TIME Sites. To learn how businesses use TIME Sites to tell their stories with easy-to-deploy, visually stunning microsites, visit [time.com/time/sites](https://www.time.com/time/sites).

**techno push**  
**vs.**  
**market pull**



**AIAAS**

AI AAS

AI As A Service



## Get started



Enter an instruction or select a preset, and watch the API respond with a completion that attempts to match the context or pattern you provided.

You can control which model completes your request by changing the model.

### KEEP IN MIND

- Use good judgment when sharing outputs, and attribute them to your firm to comply with laws.
- Requests submitted to our models may be used to train and improve future models. [Learn more.](#)
- Our default models' training data cuts off in 2021, so they may not have knowledge of current events.

## Playground

Load example...

Save

View code

Share



write a white paper on the following subject: use of metavers on industrial training

Mode



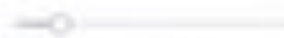
Model

text-davinci-001

Temperature 0.8



Maximum length 424



Stop sequences

Enter stop sequences and press Enter

Top-P 1



Frequency penalty 0



Presence penalty 0



Best of 1



Number of best of

Enter an instruction or select a preset, and watch the LLM respond with a completion that attempts to match the context or pattern you provided.

You can control what model completes your request by changing the model.

#### KEEP IN MIND

- Use good judgment when sharing outputs, and attribute them to your name or company. [Learn more](#)
- Requests submitted to our models may be used to train and improve future models. [Learn more](#)
- Our default model's training data cuts off in 2021, so they may not have knowledge of current events.

Industrial training is an important part of any business, as it helps to ensure that employees are properly trained and knowledgeable in their roles. However, traditional methods of industrial training can be expensive, time-consuming, and inefficient. The use of metavers, or virtual worlds, is an increasingly popular solution to these issues, as it allows for interactive and immersive training experiences that can be tailored to the individual needs of each employee. This white paper will discuss the advantages of using metavers for industrial training, as well as the potential challenges that may arise.

#### Advantages of Using Metavers for Industrial Training

Metavers offer a number of advantages for industrial training. First, they are cost-effective, as they require minimal setup and can be used for multiple training sessions. Second, they provide an immersive experience that allows for interactive learning, which can be tailored to the individual needs of each employee. Third, they can be used to simulate real-world scenarios, which can help to prepare employees for potential situations they may encounter in the workplace. Finally, they can be used to provide feedback and assessment, which can help to ensure that employees are properly trained and knowledgeable in their roles.

#### Challenges of Using Metavers for Industrial Training

Although metavers offer many advantages for industrial training, there are also potential challenges that may arise. First, there is the issue of user engagement, as some employees may find the virtual environment to be too abstract or disorienting. Second, there is the issue of technical complexity, as metavers require a certain level of technical knowledge in order to be used effectively. Third, there is the issue of scalability, as metavers may not be able to accommodate large numbers of employees at once. Finally, there is the issue of cost, as metavers can be expensive to set up and maintain.

#### Conclusion

In conclusion, the use of metavers for industrial training can provide many advantages, such as cost-effectiveness, immersive experiences, and tailored learning. However, there are also potential challenges that may arise, such as user engagement, technical complexity, scalability, and cost. As such, it is important to consider these issues carefully before implementing a metavers-based training program.

Model

gpt-3.5-turbo

Model

text-davinci-003

Temperature 0.3

Maximum length 42%

Stop sequences

Enter sequences and press Tab

Top P 1

Frequency penalty 0

Presence penalty 0

Best of 1

Inject start text

Inject end of text

# Usage

Below you'll find a summary of API usage for your organization. All dates and times are UTC-based, and data may be delayed up to 5 minutes.

< **December** >

DAILY

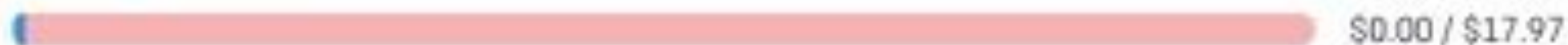
CUMULATIVE

Daily usage (USD) ⓘ

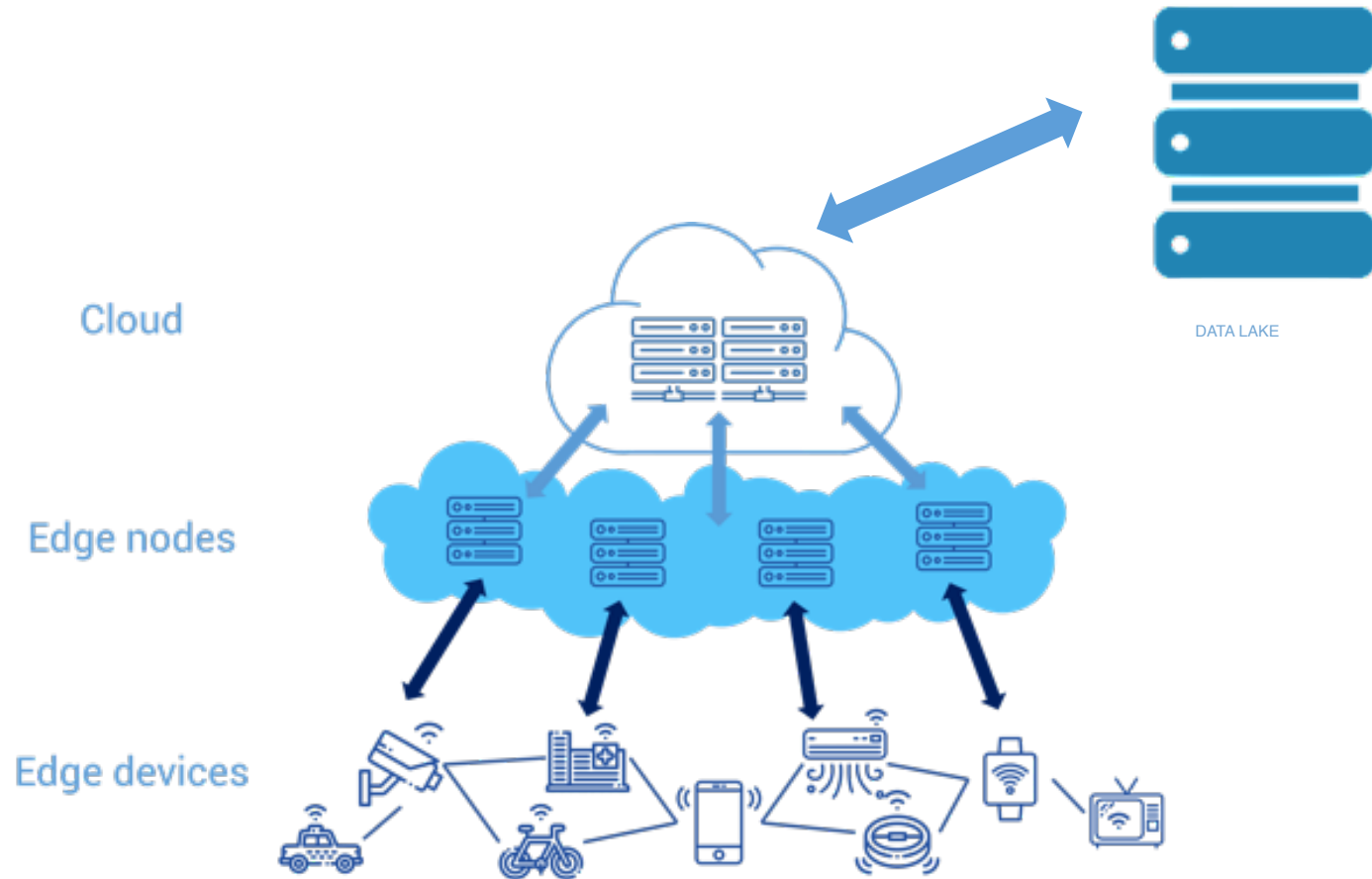


## Free trial usage

■ Used ■ Expired



## Principe du Edge Computing



Informatique distribuée où le traitement de l'information est localisé proche des objets et des personnes produisant ou consommant cette information.

On premise Edge & 5G Solutions.

ou. Network Edge & 5G Solutions

La mobilité haute performance des personnes et des objets :

Travailleur mobile – sécurité mobile – drones - Self Driving niveau 4 et 5

Le Smart XX (smart factory, smart retail) :

Usines et magasins modifient leur configuration pour s'adapter aux demandes

Les activités critiques :

Infrastructure pour l'autonomie des sites critiques OIV

Les nouveaux territoires :

Infrastructures immédiates d'équipement de nouveaux territoires (Campus - STADES - Champ éoliens ...)

<https://5glab.orange.com/fr/edge-computing-webinaire-orange-5g-lab/>



# HASH (SHA256 calcul)

64 caractères

59b494e72142ed8dce6dcae1774e2188787e149560742391fb78afdadd3624d8

4e8552786b56603a9be8976cea3488c6a7f26c545913a1bbaee6d1a4da11427

The screenshot shows a web browser window with a 'Blockchain Demo' application. The page has a dark header with navigation links: Home, About, Blockchain, Transactions, and Contents. The main content area is titled 'Blockchain' and contains three light green panels. The middle and right panels are identical forms for generating a hash. Each form has the following fields:

- Block:** A text input field with the value '1'.
- Nonce:** A text input field with the value '12345'.
- Data:** A large empty text area.
- Prev:** A text input field containing a long hexadecimal string representing a previous hash.
- Hash:** A text input field that is currently empty.

Below the 'Hash' field in each form is a blue button labeled 'Hash'. At the bottom of the page, a large grey banner contains the text:  $\text{Numéro de block} + \text{Nonce} + \text{Data} + \text{Prev} = \text{Hash}$ .

Nonce : **N**umber used only **ONCE**

A black and white image featuring a heavy metal chain. The chain is composed of several large, dark links, some of which are interlocked. The chain is set against a solid black background. Overlaid on the chain is the text "BLOCKCHAIN" in a white, bold, sans-serif font. The word "BLOCK" is on the top line, and "CHAIN" is on the bottom line. The letters are slightly shadowed, giving them a three-dimensional appearance as if they are floating or attached to the chain.

**BLOCK  
CHAIN**

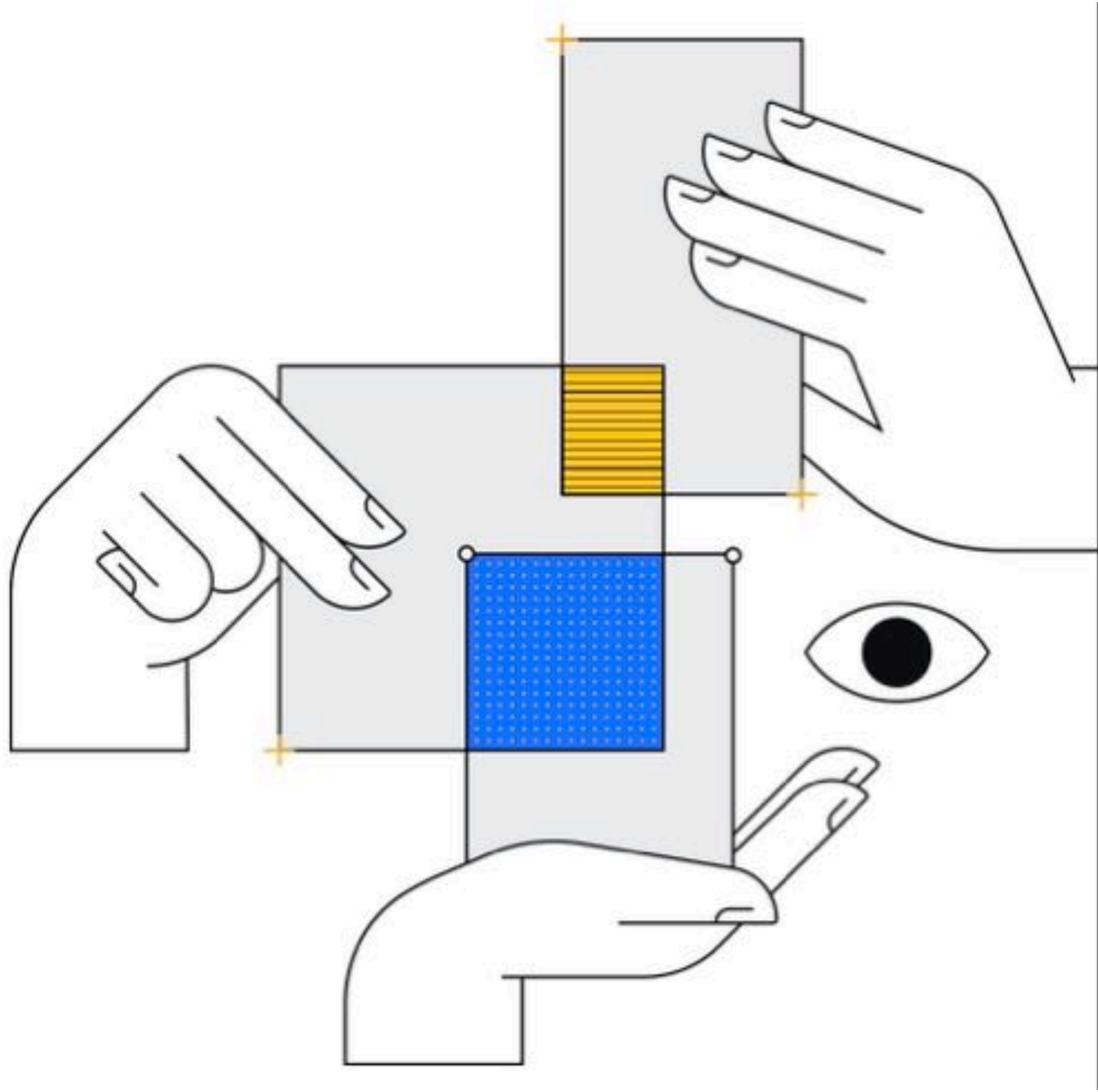
**innovation**

**les impératifs partagés**

**d'innovations en 2023**

**pour une meilleure**

**proposition de valeur**



# **FOW**

**Future  
Of  
Work**


**HYBRID**



**#NewWork**

*build 2022*





comodal, flexible,  
aménagé, remote,  
asynchrone, smart,  
nomade

*my*connecting

Une ambition  
pour chaque talent

WHAT IS THE  
FUTURE  
OF THE  
OFFICE?





