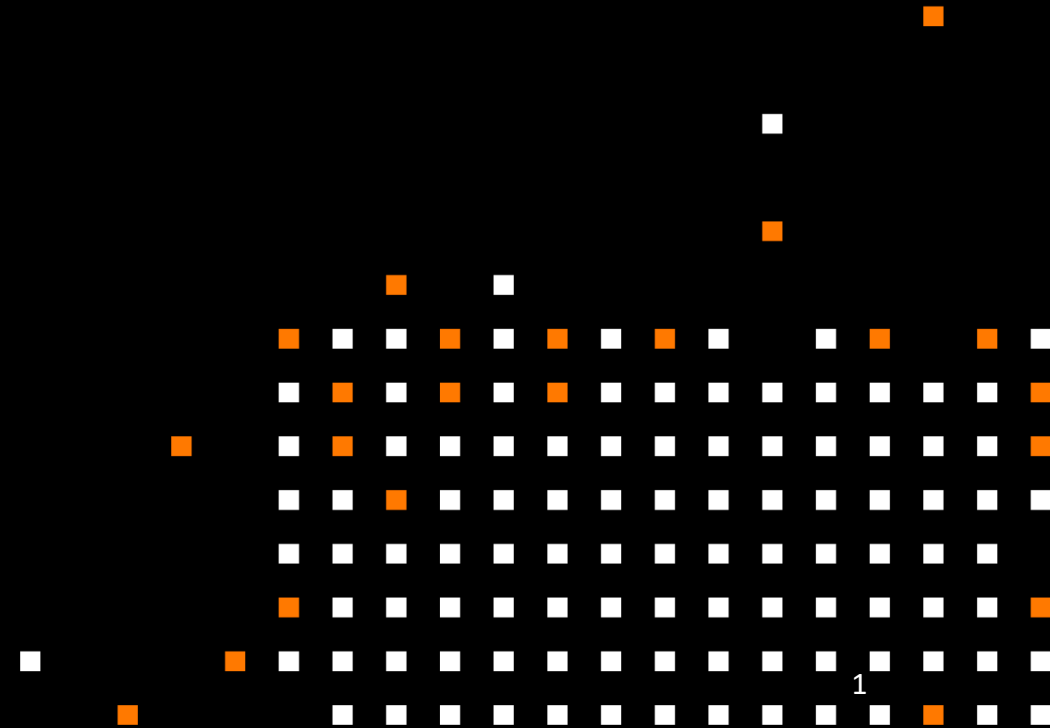


Can AI turn off your fridge?

Workshop series kicks off
December 2024

Ludovic Arga

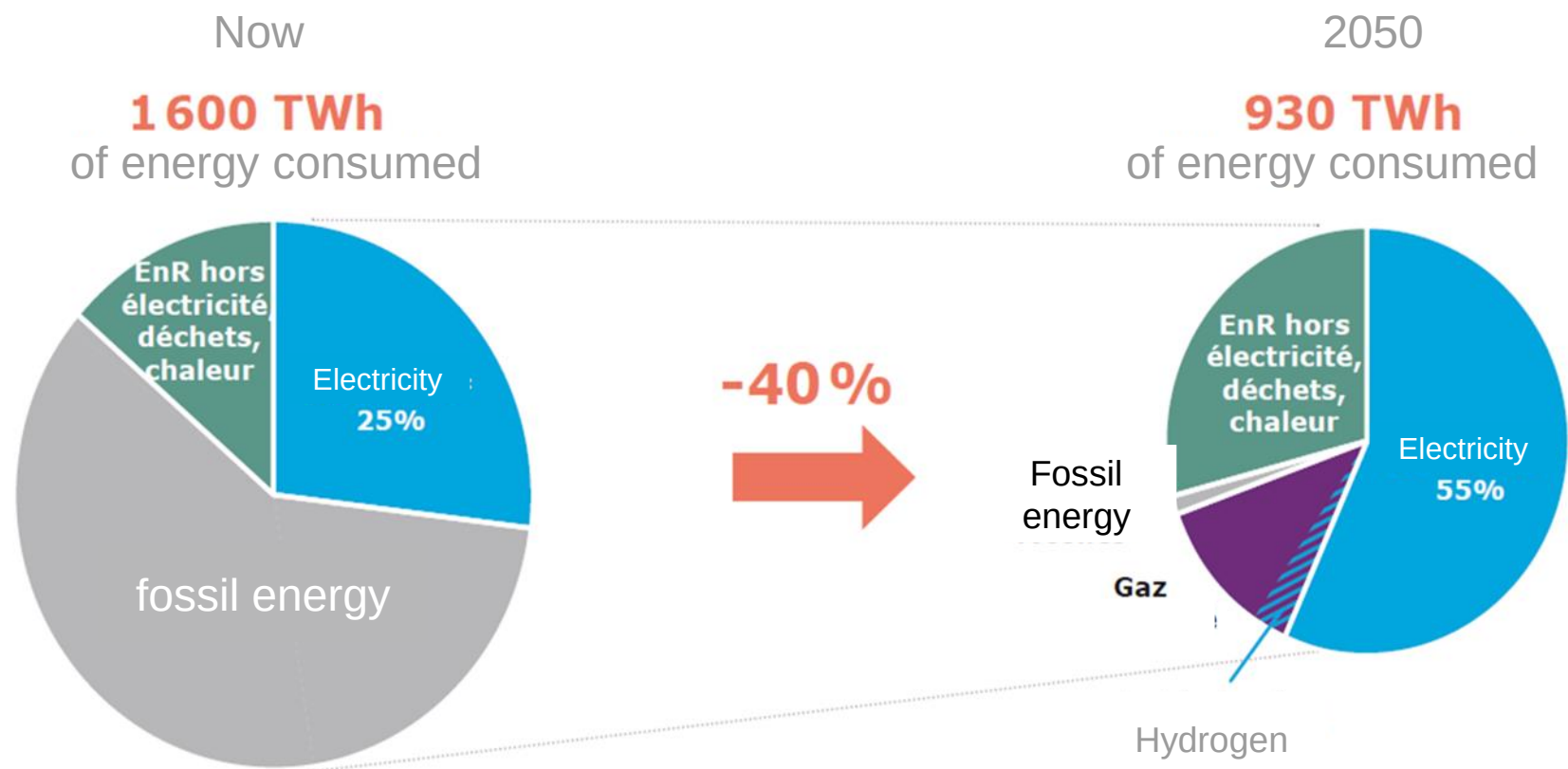


Energy transition : triple challenge

Example of France

Figure 2

Final energy consumption for France



Get out of fossil fuels

AND

Reduce overall consumption

By

increasing electricity consumption

Latest inductivist news

From 1876 to 2022

1876



Phone

1895



Cinema

(« This invention has no future... »)

1980



Cell phone 1G

199x



Web

2022



GenAI



We will not be able to do without it!



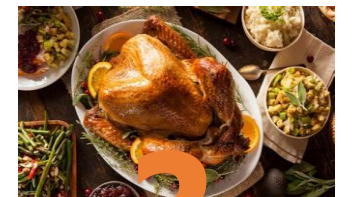
We will not be able to do without it!!



We will not be able to do without it!!



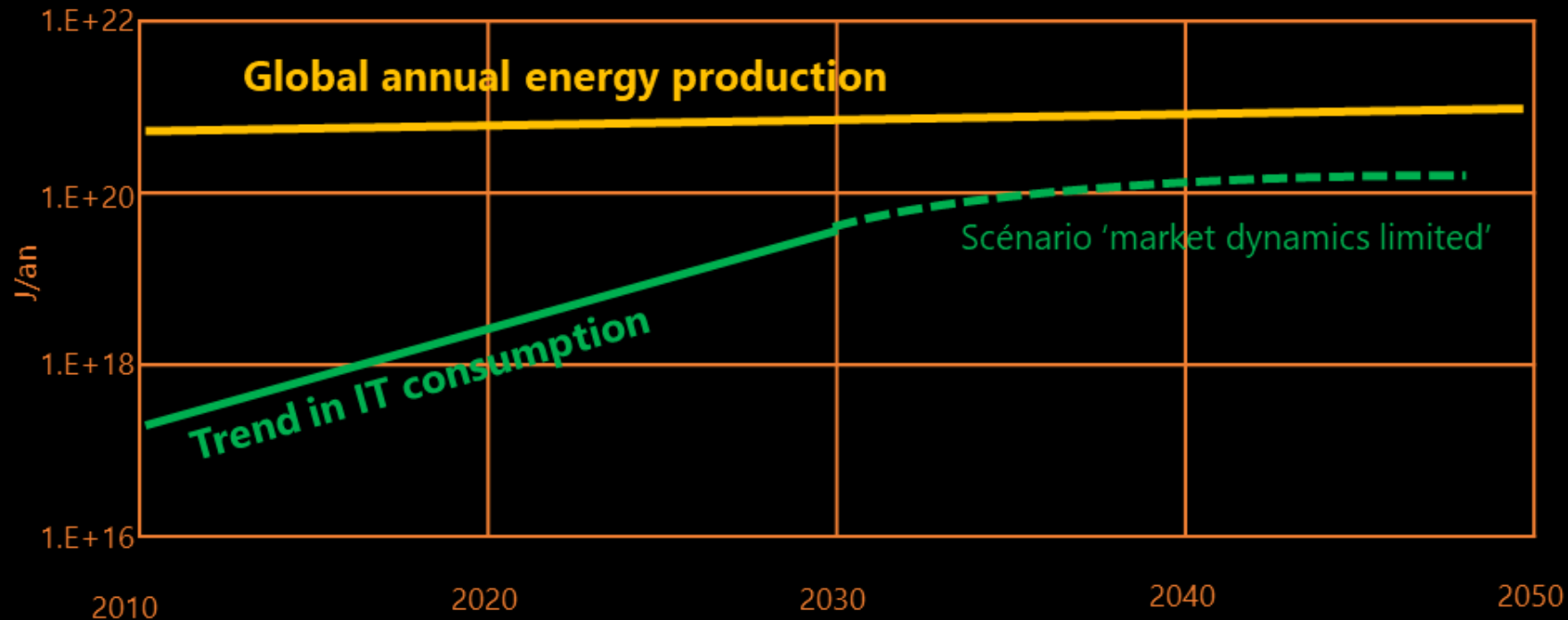
We will not be able to do without it!!



?

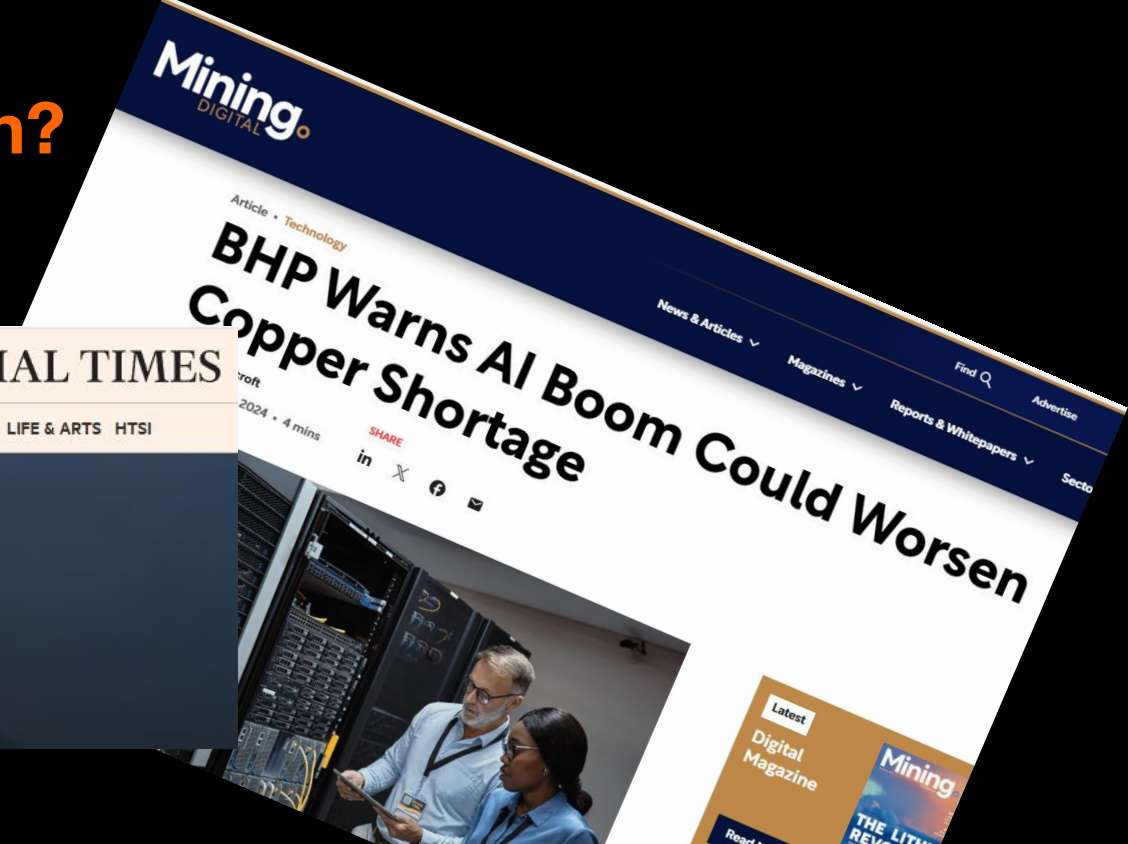
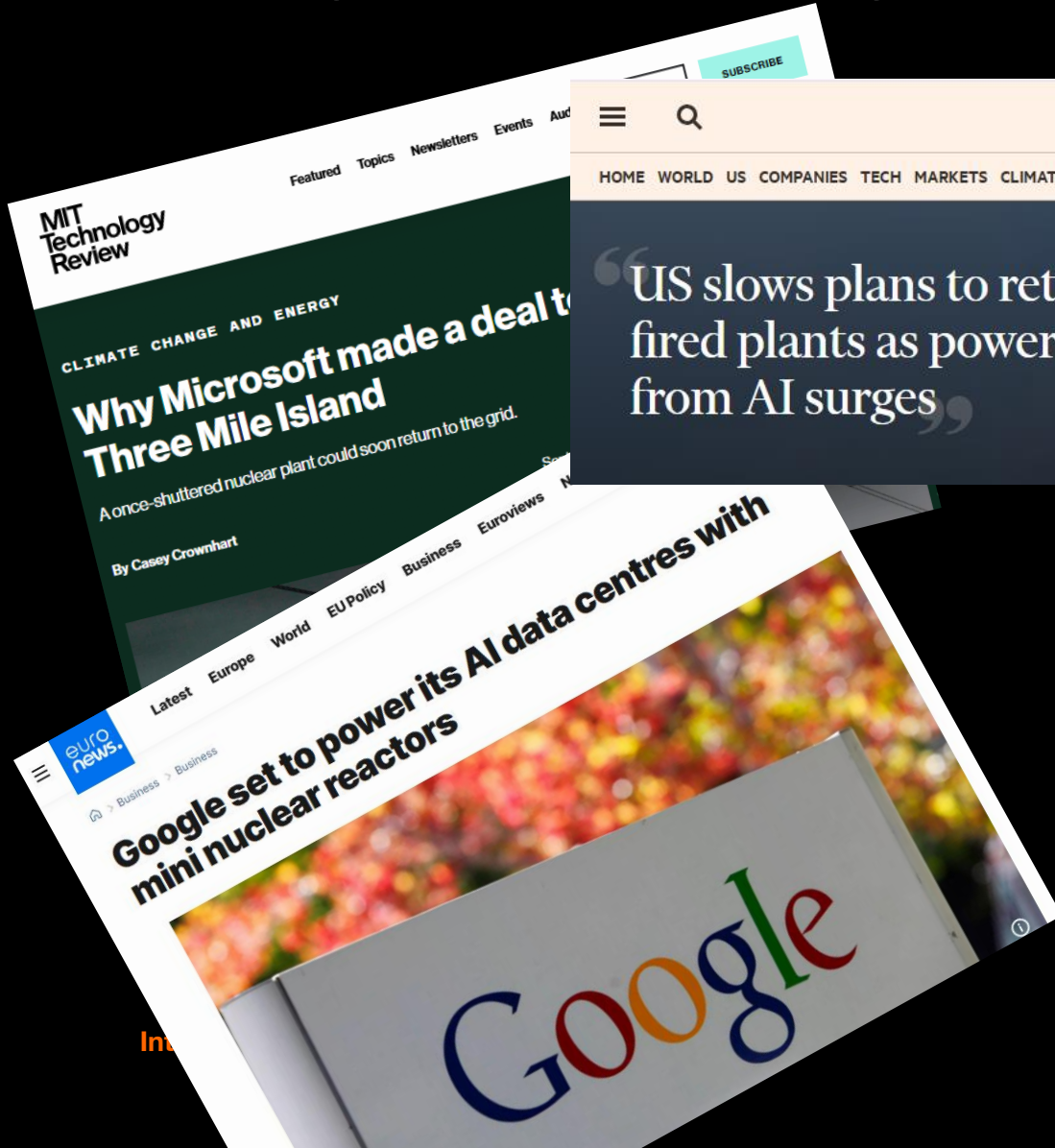
IT consumption vs electricity production

Energy trend in the semiconductor industry
Source : Semiconductor Research Corporation (Decadal)



- The green curve has as its predominant factor the computing power derived from: AI / GenAI + crypto.
- Global electricity production remains heavily carbon-intensive (~60%) with limiting factors for the transition (copper...).
- The trend leads to more difficult access to energy for the rest of the economy (including telcos), in stable production.

AI: In Conflict with the Energy Transition? Weak Signals Not to Be Ignored...



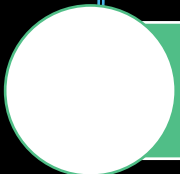
Discernment : for a positive impact without creating conflicts of use



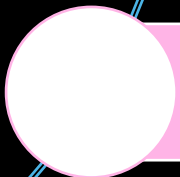
for medical diagnostics



for better climate projections



IA for green



...



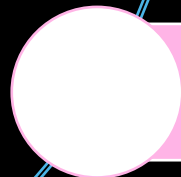
to cut down the Amazon rainforest



to extract the last drop of oil



to create Emoji cat dressed as a
chef (see IOS 18.2)



...

we can choose, we must choose our uses

Conclusion

The Laws of Physics Will Always Impose Themselves on Us

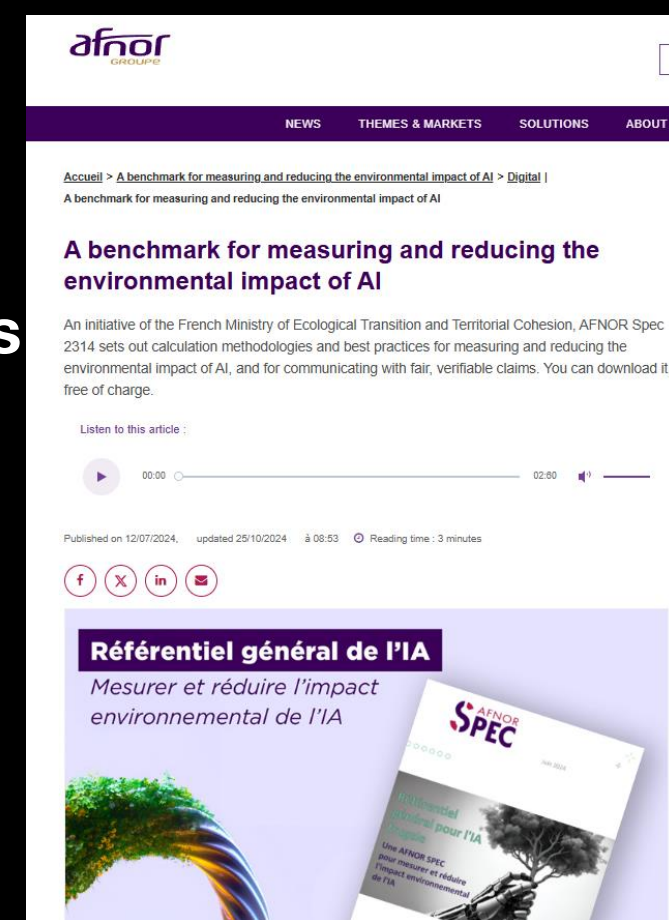
- We Cannot Postpone Our Climate Actions

AI Can Be a Source of Progress

Discernment !

- > Consider Societal Utility and Purpose?
- > How to Organize to Define These Priorities?

Interne Orange





Merci