## The climate cost of Al

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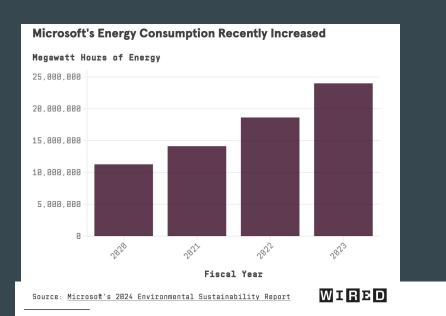
What do we know, what do newsrooms do, how to report on it?

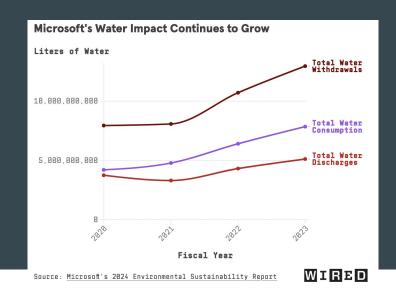
Pablo Jimenez Arandia & Sebastian Mondial Climate Arena 2024, Bologna

## The *cloud* behind Al boom is physical...



## ... and needs a lot of electricity and water





## Al's Energy Demands Are Out of Control. Welcome to the Internet's Hyper-Consumption Era

Generative artificial intelligence tools, now part of the everyday user experience online, are causing stress on local power grids and mass water evaporation.

## This is a BIG STORY - and challenges are so

- Opacity from big tech companies is massive
- Public authorities are lagging behind: no real watchdog
- Numbers + numbers = numbers. We need to find the human angle!

## How to overcome them?

- ★ Challenge the big industry narrative
- ★ Make use of transparency mechanisms; FOI requests + regulations
- ★ Shoe-leather reporting: go on the ground, see and ask

## Stories already published

**■** De la Operación Tulipán a la Operación Zarza: así trasladó Meta su nuevo hipercentro de datos a la España vaciada

La compañía estadounidense está a punto de construir una enorme infraestructura en Talavera de la Reina, después de que un centro parecido se frenase en Países Bajos por la férrea oposición de vecinos y autoridades



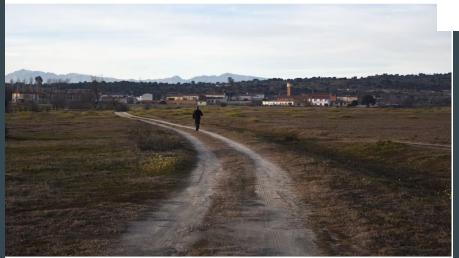
Pablo Jiménez Arandia

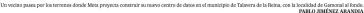
TRANSLATIONS



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vast volumes of water and energy. In the face of growing resistance, big tech companies are looking for new regions to build them in. Can a country like Spain, in the midst of a climate emergency, take this gamble? Meta and other internet giants think so.







#### **TAKEAWAYS**

- Watchdog journalism: big Al industry needs to be oversight
- This is a global story, like the main actors involved
- Push for more transparency from private & public voices
- What is the best way to tell this story?

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## Context: My label "Al Specialist" at SWR

Couldn't have intentionally achieved to reach where I am now

Position wasn't officially open, it is a bespoke and now evolving task

Result of chance occurrences and maybe ... heating my kitchen with Al

Some uncompromising attitude towards AI, backed by facts

Financial independence means I can walk away the moment it gets weird

## Al at scale - Al Impact in a large public broadcaster / organization

- \* SWR is one of 11 bodies of public broadcasting in germany
- ★ SWR is the *cloud competence center* in ARD (AI-CC: BR/WDR)
- ★ SWR happens to have agency: went all in, >120 Al use-cases in '23
- ★ How? Ask *the employees* what to use Al for ... and use these ideas!
- $\star$  I do/did work around "UC-0" the general use/test of LLMs and AI

## Perspective of Al at *personal scale* and *department scale*

#### You

HOW LONG CAN YOU WORK ON MAKING A ROUTINE TASK MORE EFFICIENT BEFORE YOU'RE SPENDING MORE TIME THAN YOU SAVE?

(ACROSS FIVE YEARS)

		HOW OFTEN YOU DO THE TASK					
		50/ <sub>DAY</sub>	5/DAY	DAILY	WEEKLY	MONTHLY	YEARLY
	1 SECOND	1 DAY	2 HOURS	30 MINUTES	4 MINUTES	1 MINUTE	5 SECONDS
	5 SECONDS	5 DAYS	12 HOURS	2 HOURS	21 MINUTES	5 MINUTES	25 SECONDS
	30 SECONDS	4 WEEKS	3 DAYS	12 HOURS	2 HOURS	30 MINUTES	2 MINUTES
HOW MUCH	1 MINUTE	8 WEEKS	6 DAYS	1 DAY	4 HOURS	1 HOUR	5 MINUTES
TIME. YOU	5 MINUTES	9 MONTHS	4 WEEKS	6 DAYS	21 HOURS	5 HOURS	25 MINUTES
SHAVE OFF	30 MINUTES		6 MONTHS	5 WEEKS	5 DAYS	1 DAY	2 Hours
	1 HOUR		IO MONTHS	2 MONTHS	IO DAYS	2 DAYS	5 HOURS
	6 HOURS				2 MONTHS	2 WEEKS	1 DAY
	1 DAY					8 WEEKS	5 DAYS
_							

## everyone in department X



# Perspective of Al at *even larger scale* company group/industry



## How to keep climate cost as low as possible ... 3 easy questions

- ★ Do we really need Al? It is not **FOMO**, right?
- ★ If we need Al ... can Al **actually do** what we need it for?
- ★ If AI can do what we need it for, does it beat the **Käsebrötchen\***?

\*humans are more energy efficient as computers - see "Matrix"



## Observations on the BS in Al promotion / sale

- ★ Till 2022 Computer Industry stagnation example *indicator*: Laptops
- ★ BS/Promise Ratio insanely high sure, *next version* of Al will fix that /S
- Respectively: All does not work as hoped? *Its you*, not the Al /S
- ★ Use AI, because otherwise you're antique \*kopfaufdietischkantehau\*

### **Observations on Al Sales**

- ★ Get our **newest** Al model (but is it necessary?)
- $\star$  Few own AI, few finance the datacenters (think xxx Mil each)
- ★ Justification of reversal on nuclear power ARE WE NUTS?
- **★** Mentality: **Curveball** Al will find the fix for Climate Issue in the future! **SO ... Al CAN F\*\*\* the environment right now. Right? Right?!?**
- ★ Assume the worst, don't be surprised if it's even ...

## One example on Al SALE Strategies

- ★ You not only **need** Al, but you want **Al AGENTS**
- ★ Whats an Al Agent you ask? Well ... its MORE Al ...
- ★ ... It's Al talking to Al until Al figures "it" out.
- $\star$  How I feel about it while reading the promo: Noah, get the boat.

# I know, this conference is about environment ... ... some remarks are needed about Al in general

- ★ .... the social / educational impact (not good)
- ★ ... security / safety implications (not good)
- ★ ... shift in dependence and it structures (not good)
- **Yes**, we have **some** cases of **good** use. Just ... not too many.
- $\star$  Except u want to automate to remove humans and produce SLOP.



VS.

My LinkedIn Profile

Long read about Al

**SCAN ME** 

