

# Time for action!

## CNCF Lorient - 25 September

# Qui suis-je

Bretonne vivant aux Pays-Bas depuis 10 ans.

Passionnée par le développement durable et les communautés tech.



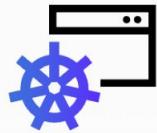
# Aknostic

Entreprise de conseil en Cloud native  
Kubernetes-based, basé à Utrecht (NL)

Nous aidons les entreprises dans leur  
**transformation numérique.**

Website: [Aknostic](https://aknostic.com)





**199**

CNCF Projects



**253K+**

CNCF Project  
Contributors



**755**

CNCF  
Members



**92K+**

Cloud Native Community  
Members

## Filters

GROUP: Projects and products Members Certified partners and providers Serverless Wasm CNAI

VIEW MODE: Grid Card ZOOM: - +

App Definition and Development	Application Definition & Image Build												Database												Continuous Integration & Delivery												Streaming & Messaging											
Orchestration & Management	Scheduling & Orchestration												Service Mesh												Remote Procedure Call																							
Runtime	Service Proxy												API Gateway												Coordination & Service Discovery																							
Provisioning	Cloud Native Storage												Cloud Native Network												Container Runtime																							
Observability and Analysis	Security & Compliance												Automation & Configuration												Container Registry												Key Management											
	Observability												Continuous Optimization												Chaos Engineering												Feature Flagging											

# Par et pour la communauté



Participate in local events and programs run by the larger cloud native community, or host your own.

# Aperçu des différents TAG



# TAG Environmental Sustainability

- Défendre, développer, soutenir et aider à évaluer les initiatives de durabilité environnementale dans les technologies cloud natives.
- Fondé en 2022



# Des groupes plus ciblés



# Les contributions du TAG

- Kubernetes Best Practices (paused)
- Green Scraper
- Cloud Native Sustainability Week 2024



**TAG** ENVIRONMENTAL  
SUSTAINABILITY

Cloud Native Sustainability Week

# Cloud Native Sustainability Week 2024



More Info: [tag-env-sustainability.cncf.io](https://tag-env-sustainability.cncf.io)

NR	LOCATION	DATE	EVENT LINK	NAME
1	Amsterdam, Netherlands	10th October	<a href="#">link</a>	Julie Chenadec, Alessandro Vozza, Pavel Chunyayev, Matteo Bianchi
2	Guatemala	TBD	TBD	Sergio Méndez
3	China	TBD	TBD	Sam Yuan
4	Oslo, Norway	Oct. 9	<a href="#">Link</a>	Marta Paciorekowska, Kristina Devochko, <a href="#">Green Software - Oslo</a>
5	Tokyo, Japan	Oct. 4	<a href="#">Link</a>	Sunyanan Choochotkeaw ( <a href="#">Cloud Native Community Japan</a> )
6	Milan, Italy	Sep. 30 & Oct. 7	<a href="#">Link Sep. 30</a> - <a href="#">Link Oct. 7</a>	Michel Murabito, Valeria Salis, Ludovica Bonaldo
7	Sao Paulo, Brazil	Oct. 22	<a href="#">Link</a>	Carol Valencia, Tiago Reichert, Pedro Ignácio, Erivaldo Lopes
8	India	TBD	TBD	Saiyam
9	Aarhus, Denmark	October 7th	<a href="#">Link</a>	<a href="#">Cloud Native Aarhus Organizers</a>
10	Kuala Lumpur, Malaysia	Oct. 21	TBD	Mageshwaran Sekar, Khairul Anuar, Ahmed Zidan
11	Stuttgart, Germany	TBD	TBD	Daniel Soldo, Stefan Bergstein
12	Paris, France	Oct. 15	TBD	Smaine Kahlouch <a href="#">Cloud Native Paris</a>
13	Brighton, UK	Oct. 16	<a href="#">Link</a>	Adam Newman, <a href="#">Green Software Brighton</a>
14	Lorient, FR	Sept. 25	<a href="#">Link</a>	Sébastien DAVOULT <a href="#">Cloud Native Lorient</a>
15	Barcelona, Spain	October 9th	<a href="#">Link</a> - <a href="#">Link</a>	Christian Polanco, Imma Valls

# La mission est de fédérer la communauté pour :

- Comprendre le paysage actuel
- Identifier les lacunes dans les connaissances
- Favoriser la collaboration sur les projets
- Sensibiliser
- Promouvoir TAG ENV et CNCF
- Recueillir des informations sur la communauté
- Remercier les contributeurs



# Comment contribuer au CNCF TAG ENV

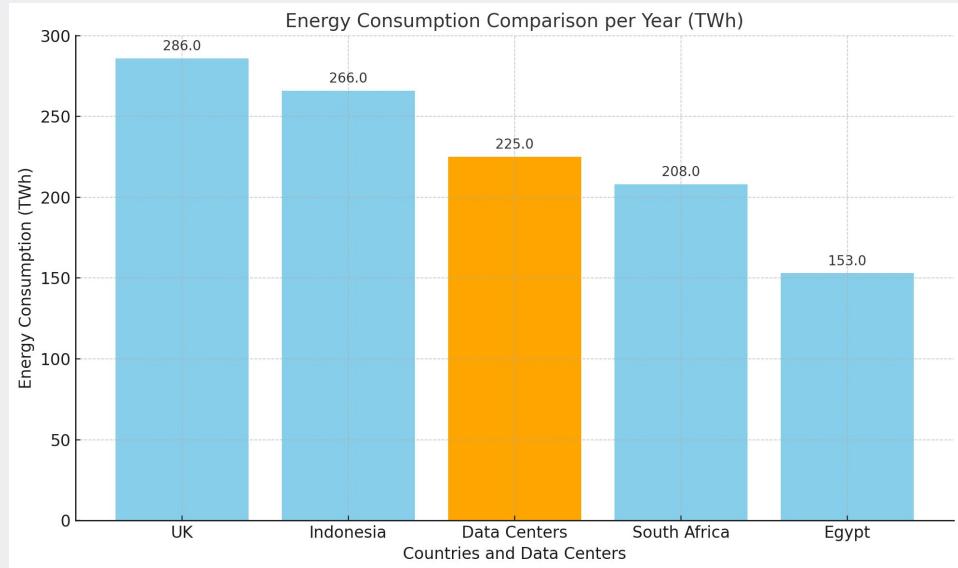




**This digital transformation brings about an increase in resources utilisation: more data centers and hardware need to be built, more electricity is consumed, more non-renewable resources are needed.**

# La transformation numérique augmente la consommation d'énergie

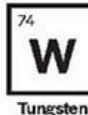
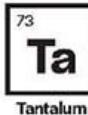
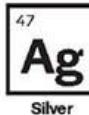
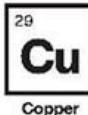
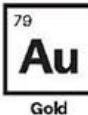
La consommation énergétique des centres de données peut être comparée à celle de pays entiers.



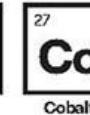
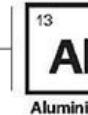
# Les ressources numériques créent un impact environnemental



Electronics



Battery

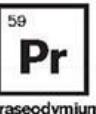
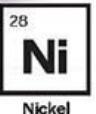
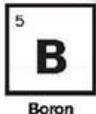
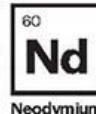


*Mining makes holding the world in your hand possible.*

More than 40  
mined metals and  
rare earths are used  
to produce a single  
smartphone.

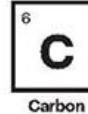
# 04 Smartphones

Sound

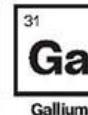
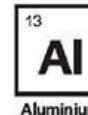
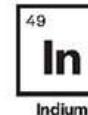
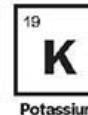
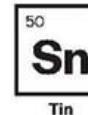
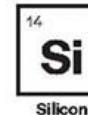


Canadian  
Mining

Earbuds®  
Phone Cases\*



Touch screen



**Mining is essential for  
Innovative tech**

Canada's mining industry is providing the responsibly-sourced minerals and metals that power the technologies of today and of the future. In turn, we're helping businesses and their customers be confident in how they're made.

\*Oil for these products can also be from non-mined sources.



If You Can't  
Measure It,  
You Can't  
Improve It

(William Thomson, Lord Kelvin)

# Kubernetes Emissions Insights Tool (KEIT)

🎯 Objectif : comprendre les émissions de votre logiciel cloud

Aider à répondre à certaines questions, par exemple :

📊 Laquelle de nos applications génère le plus d'émissions ?

📅 Où se situe le plus grand gain : en utilisant des énergies renouvelables, en prolongeant le cycle de vie du matériel ou en réduisant la consommation d'énergie ?

📅 Y a-t-il une régression (des émissions) dans mon logiciel ?

💡 Puis-je sélectionner un outil en fonction de son impact sur les émissions ?

# Open source tools



Prometheus



K E P L E R



kubernetes



grid-intensity-go



# **“We are in this together!”**

- 
1. Reconnaître que les software ont un impact environnemental
  2. Assumer la responsabilité de l'impact des logiciels
  3. Diffuser, sensibiliser et rejoignez notre communauté



# Merci!

## Des questions?



CLOUD NATIVE  
COMPUTING FOUNDATION



ENVIRONMENTAL  
SUSTAINABILITY