

## Sustainability | What's the big deal?

Microsoft / Features / Cloud h utilities and working with regulators to open up more access for clean energy buying is a massive role that

Microsoft's advocacy for clean energy <u>starts in-house</u>. By 2025, Microsoft will shift to 100% supply of renewable energy, meaning that the company will have PPAs for green energy contracted for 100% of carbon-emitting electricity consumed by all its datacenters, buildings and campuses.

By 2030 Microsoft will have 100% of its electricity consumption, 100% of the time, matched by zero-carbon energy purchases. By 2050, Microsoft has committed to removing from the environment all the carbon the company has emitted, either directly or by electrical consumption since it was founded in 1975. Datacenters can play a role in helping reach these goals.



Moreover, the ability to ensure the cloud meets Europe's needs and serves Europe's values is a core part of a <u>new set of European Cloud Principles</u> Microsoft Vice Chair and President Brad Smith announced in May of this year, after discussions with a number of European partners.







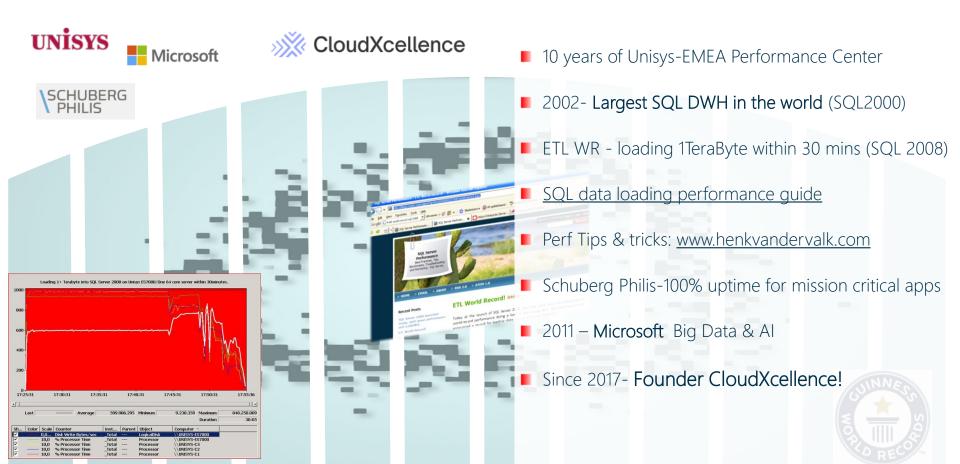




#### **Thanet (2010) Facts Largest Offshore Wind Farm on the planet** Country **United Kingdom Electricity Capacity** 300 MWe 100 **Turbines** Onshore / Offshore Offshore Supplier Vestas Vattenfall ownership share 100 % Status In Operation **Estimated World Energy** consumption in 2010: 4995433<u>789</u> MWe Newcastle sle of Man Groningen Sheffield · Birmingham Nederland London Cardiff Düsseldorf België Belgique

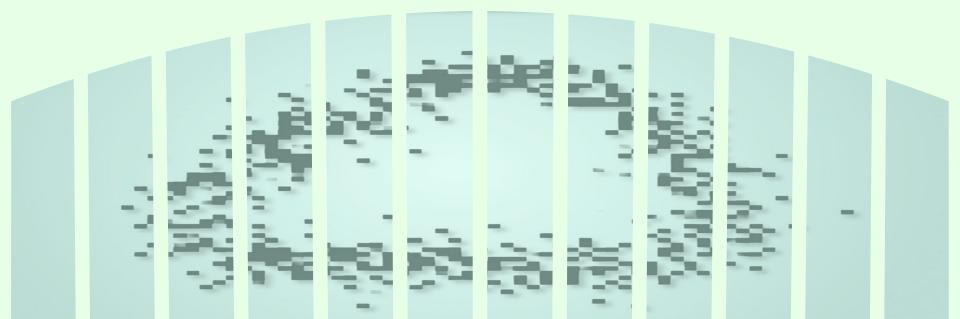
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## A career - all about IT @ Scale & efficiency



"The true IT sustainability lies in the bits and bytes that flow meaningful, effortlessly, sparing us the wait, processing, storage and retrieval."

-Henk, 2023



# Companies look for **improving grip** on their Azure cloud operations

**CloudXcellence** first promise //

LOWER CO<sub>2</sub> EMISSIONS (2) IMPROVE CLOUD OPERATIONS

**CloudXcellence** second promise //

IMPROVE PERFORMANCE 🚙 WITH MINIMAL TEAM IMPACT

**>>** CloudXcellence third promise //

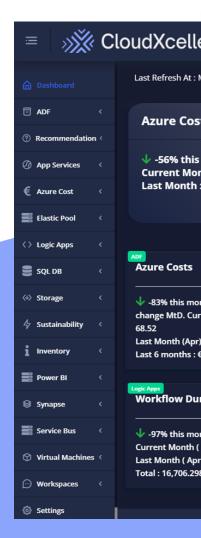
LOWER CLOUD SPEND (5) EXPECT 20%-30% REDUCTION



#### AZURE CLOUD OPTIMIZATION MADE ACTIONABLE:

```
/ REDUCE EMISSIONS
// IMPROVE PERFORMANCE
/// SAVE MONEY
```



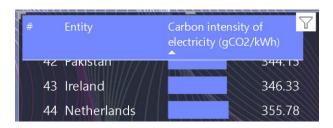


#### What's the simplest way to reduce any cloud emission?

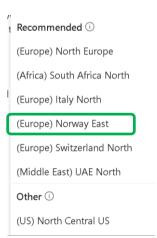




# Pick your Azure Datacenter region wisely...

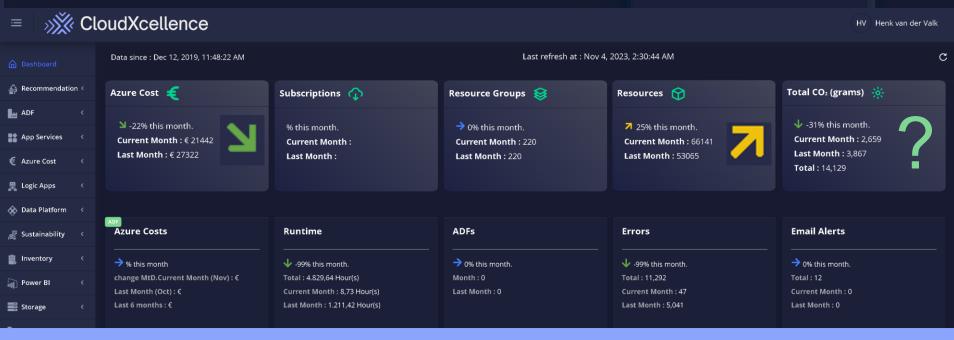




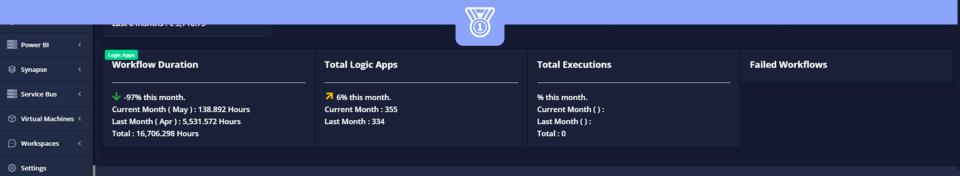


## What's 2<sup>nd</sup> best option to reduce emissions?



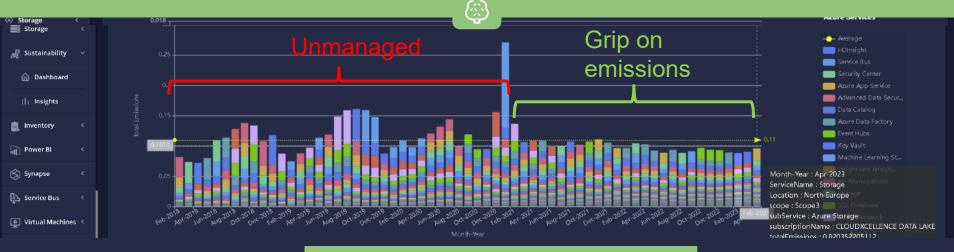


#### **CLOUDXCELLENCE AZURE INSIGHTS**

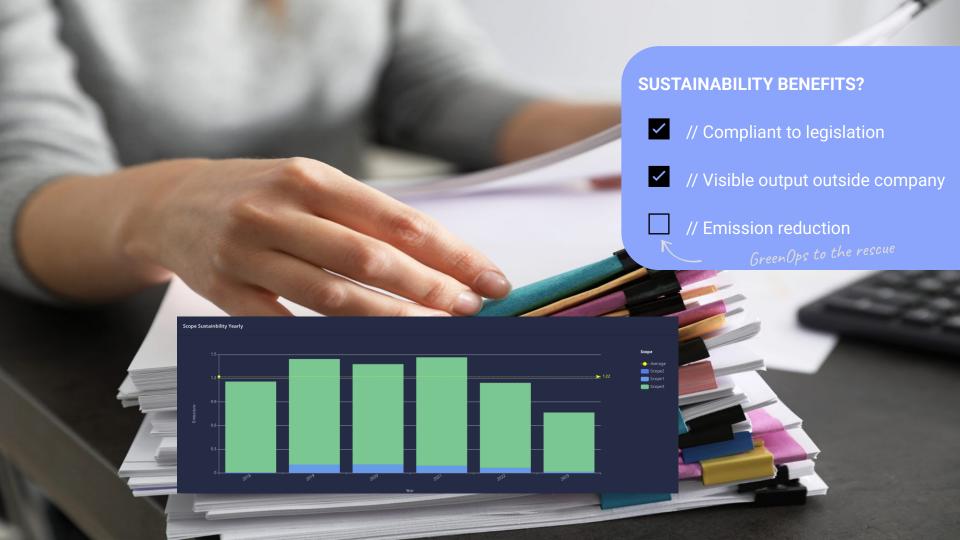




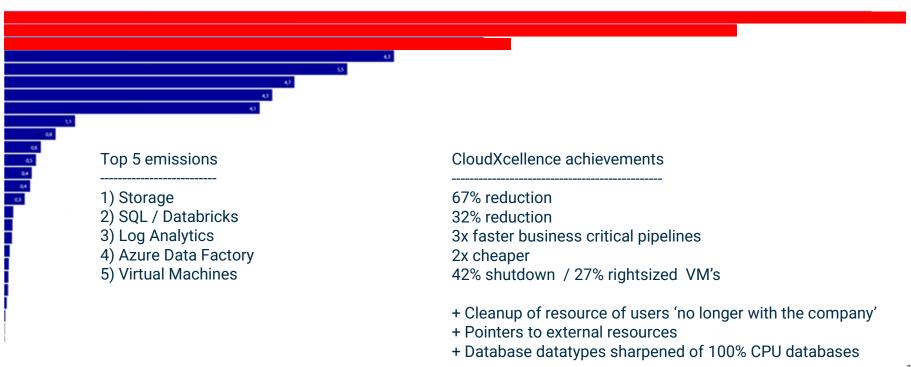
#### MEASURING CARBON CLOUD FOOTPRINT REDUCTIONS



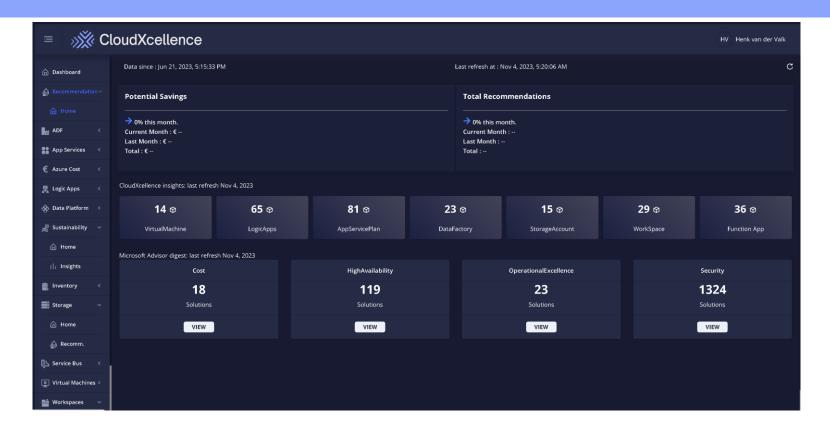
Up to 5 years of emissions history



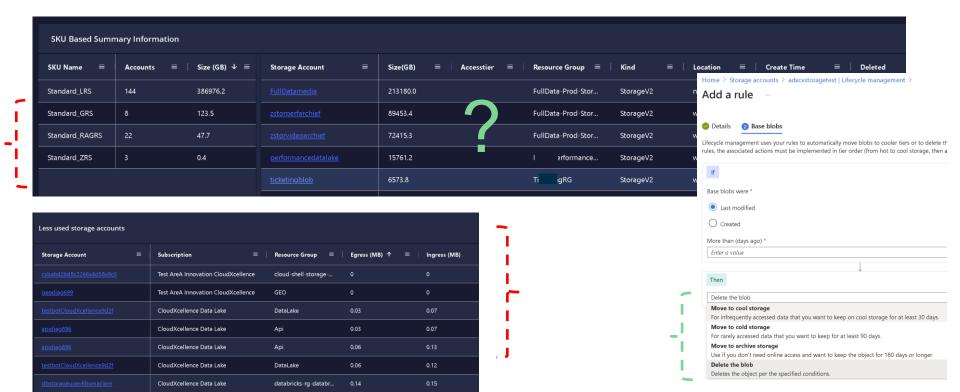
#### How about start reducing carbon emissions!



## Usage & Optimizations are everywhere!



## 3) Use storage Geo redundancy + LCM wisely

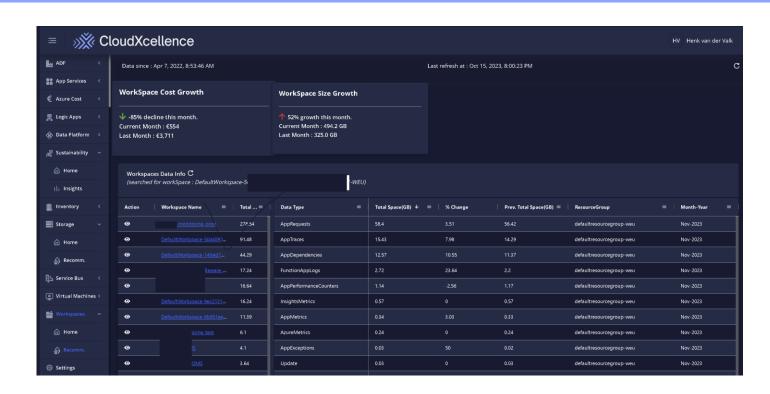


## 4) Check Monitoring workspaces

Monthly ingest

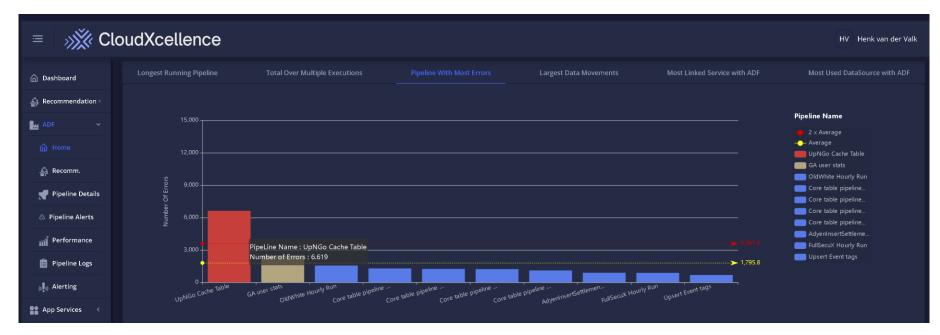
350+ Sources

**Errors** 

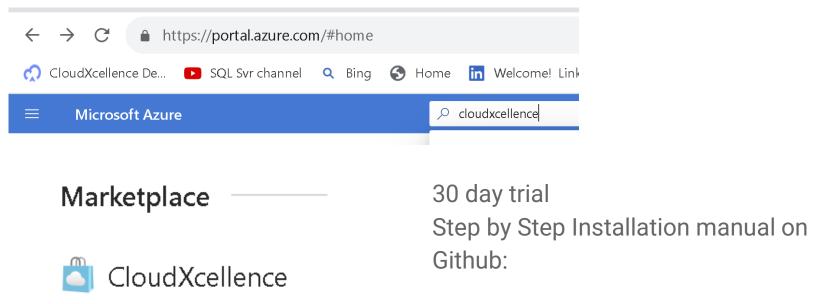


## 5) (Pay for use, not for Errors)

Check where possible, on app level & Azure overall



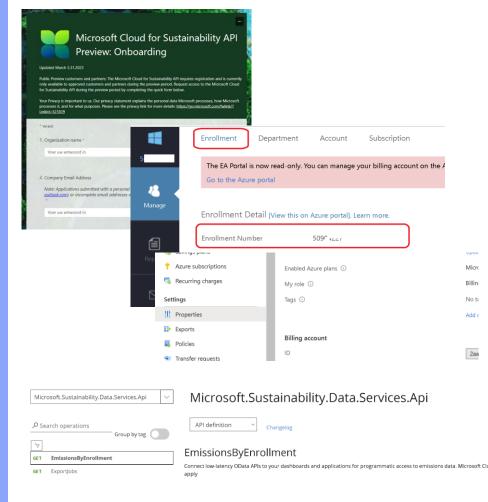
#### Get started! Install CloudXcellence direct from Azure portal



https://github.com/cloudxcellence

# APPLYING FOR AZURE SUSTIAINABILITY API ACCESS

- // For customers with a direct Microsoft billing relation
- // Create a separate sustainability service user account
  The accounts that logs on the first time becomes
  the administrator of that instance
- // Sign Up for the Microsoft sustainability preview program
- -> https://forms.office.com/r/rTVhjxVjGw
- // Retrieve the companies Enrollment Number (Enterprise Agreement or MCA)
- -> https://ea.azure.com/
- // Retrieve the Billing ID; select Billing Profile / Properties -> portal.azure.com
- // Receive your Microsoft Cloud for Sustainability email





CloudXcellence helps companies to open up Microsoft Azure's 'black box' by getting insights out of the deepest depths of their cloud. CloudXcellence translates these insights into actionable optimisations that cloud experts can execute right away.

The result? An Azure cloud that runs smooth, sustainable \$\mathbb{T}\$ and cost-efficient \$\mathbb{Z}\$

Available via the Azure Marketplace without any line of code. So companies save money and reduce emissions within hours.





INCLIDING IGH SREENOPS INSIGN

# REDUCE CARBON FOOTPRINT INCREASE PERFORMANCE DECREASE SPEND

**CloudXcellence promise: 2 months = 20% less Azure emissions** 

ARE YOU TAKING ON THIS GREENOPS CHALLENGE WITH US?

# 'PLEASE CHECK WITH YOUR CLIENT IF (S)HE DID A CLEANUP OF THE CLOUD RECENTLY?'

#### **AZURE GREENOPS // ACTIONABLE**





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