OPEN POSSIBILITIES.

Reduce the Carbon Footprint of Your Cloud-Native Workloads

NOVEMBER 9-10, 2021

OSF

Reduce the Carbon Footprint of Your Cloud-Native Workloads

Ynema Mangum, Director Product Management, Sesame by ITRenew

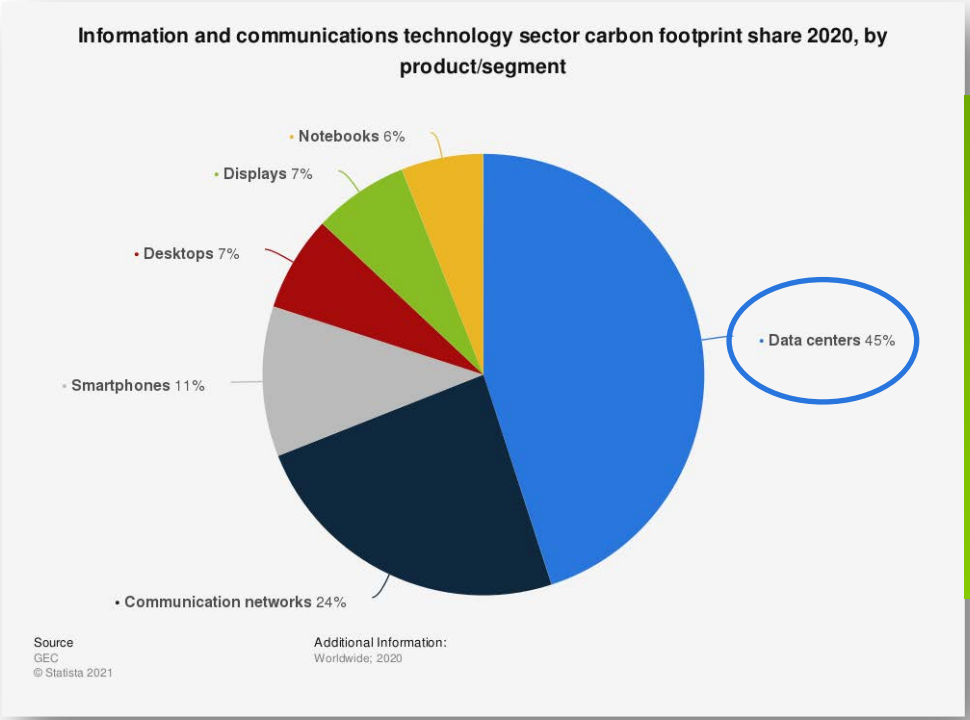
OPEN PLATINUM™

OPEN POSSIBILITIES.

OCP GLOBAL SUMMIT

NOVEMBER 9-10, 2021

Data Center Carbon Footprint

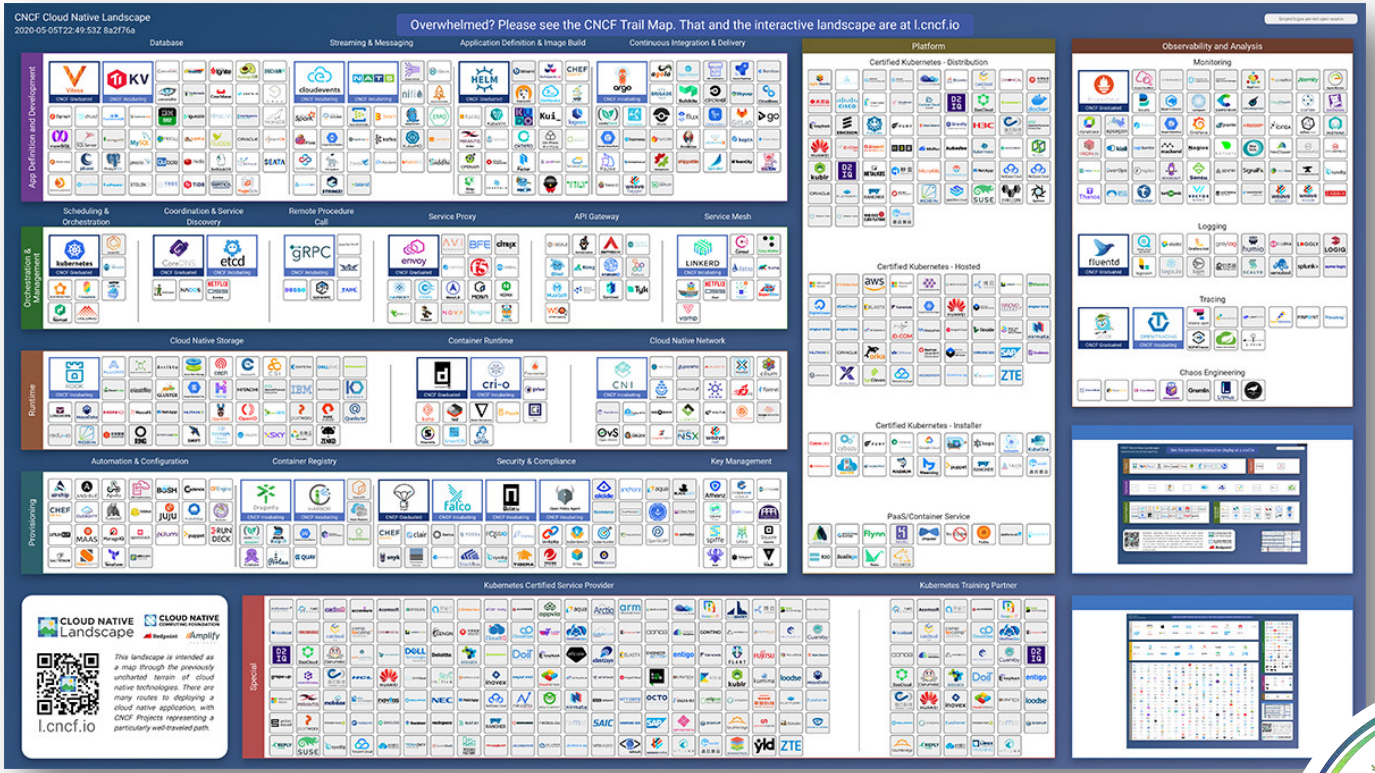


- As data moves to the cloud, data centers now lead the carbon footprint share.
- In 2015, User devices was #1, followed by networks, then data centers.

OPEN POSSIBILITIES.

OCP GLOBAL SUMMIT
NOVEMBER 9-10, 2021

Cloud-Native: a “ROBUST” ecosystem



OPEN POSSIBILITIES.

OCP GLOBAL SUMMIT

NOVEMBER 9-10, 2021

Sesame foundation **components**

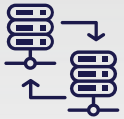
COMPUTE

Compute is at the heart of every data center. Now you can put hyperscale compute (including GPU options) to work for you for **half the TCO** AND **eliminate the carbon tax** associated with newly assembled equipment.

STORAGE

Storage is essential for data growth, seasonal upticks, and business expansion. Converged and Hyperconverged storage is flexible, whether **local** or in **HDD or NVMe** storage **expanders**.

NETWORKING



The network is critical in your infrastructure. **Dual 25G node** connectivity standard, with **100G** cross-rack uplinks. Scalable to **1000s of nodes** across dozens racks.

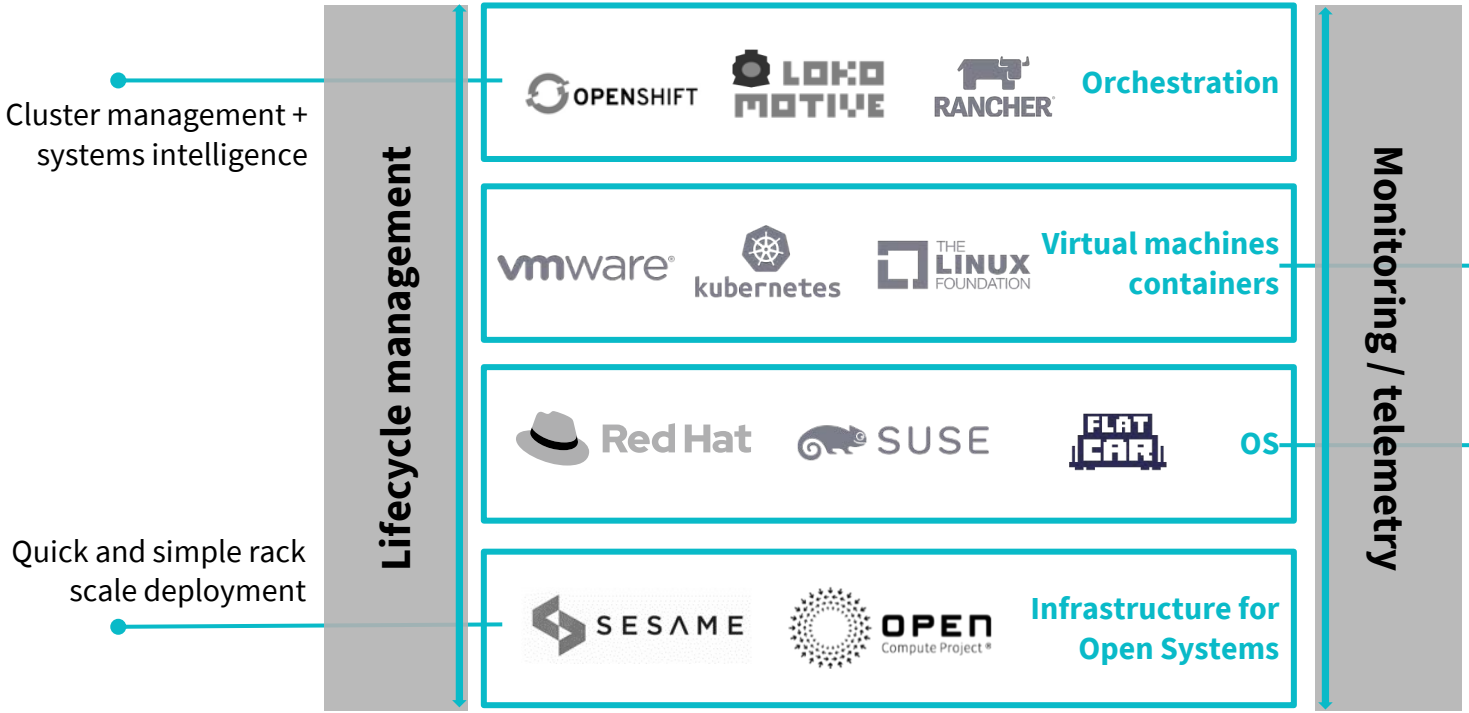
INFRASTRUCTURE

Racks, power, and management run the world. Our hyperscaler infrastructure management is ready for OS deployment and system monitoring, orchestration, and network virtualization.

OPEN POSSIBILITIES.

OCP GLOBAL SUMMIT
NOVEMBER 9-10, 2021

The Open Cloud-Native Stack for Renewable Infrastructure

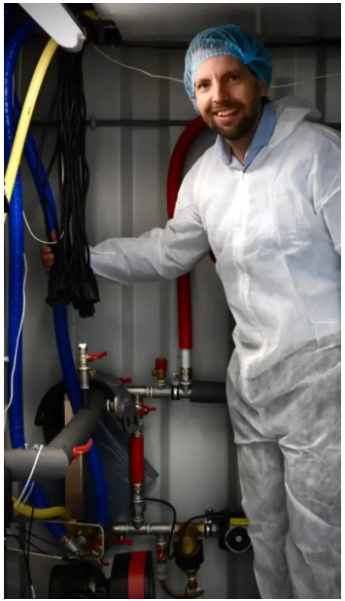


OPEN POSSIBILITIES.

OCP GLOBAL SUMMIT
NOVEMBER 9-10, 2021

CASE STUDY: deployed today in Amsterdam

SESAME BY ITRENEW …FOR GREENHOUSES



blockheating
Recycling datacenter energy

OPEN POSSIBILITIES.

OCP GLOBAL SUMMIT
NOVEMBER 9-10, 2021

CASE STUDY: Blockheating

Green data centers require innovative partners

blockheating
Recycling datacenter energy

SESAME
BY ITRENEW

"WE'RE SAVING **20 – 30% ON AIR-CONDITIONING COSTS** BY GOING WITH OUR DECENTRALIZED APPROACH. **CONSTRUCTION TIMES ARE ALSO SIGNIFICANTLY** REDUCED. THOSE BENEFITS ALLOW US TO BE **SUSTAINABLE AND ECONOMICALLY COMPETITIVE AT THE SAME TIME**."

*"WE CHOSE ITRENEW FOR THEIR **SUSTAINABILITY CREDENTIALS, SUPERIOR TECHNOLOGY, 'OPEN COMPUTE' FLEXIBILITY**, AND THE SKILL OF THEIR ENGINEERING TEAM TO DELIVER ON OUR REQUIREMENTS AT SCALE—ALL OF WHICH HAVE **ENABLED US TO ACCELERATE OUR DEVELOPMENT**."*

JEROEN BURKS, CEO
BLOCKHEATING

OPEN POSSIBILITIES.

OCP GLOBAL SUMMIT
NOVEMBER 9-10, 2021

Tipping Point

"The current model for how to process and store data is broken. 'Business as usual' has met its limits and new thinking and leadership is required.

"Given the current global climate **it's more important than ever that business adopt sustainable, circular models that create value by making use of the resources already 'in-play.'** But you have to also do this **without compromise to performance or quality, and at the best economics.** "

David Rowe, Founder CEO
Hydro66

"As concerns over the data center's impact on global climate change become more acute, it becomes increasingly clear that the future of IT will center on sustainability and responsible digitization as a core pillar."

Oliver Menzel, CEO
maincubes

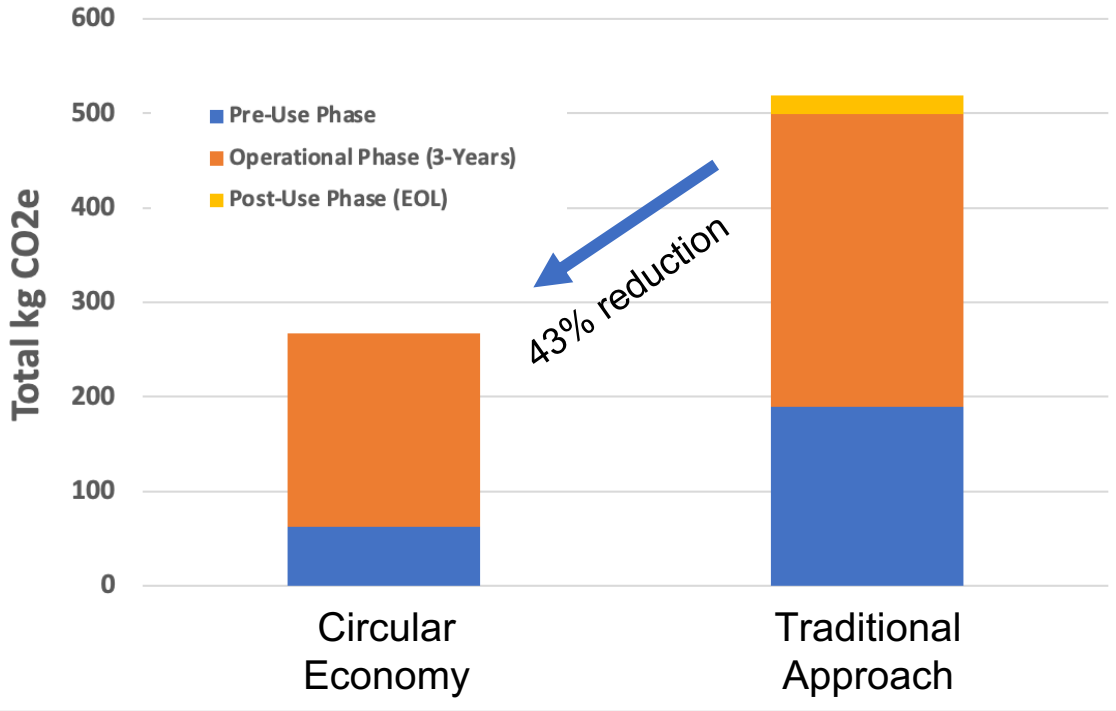
"In curbing greenhouse gas emissions by up to twenty-five percent each year, OCP solutions are significantly more sustainable than vanity brand hardware."

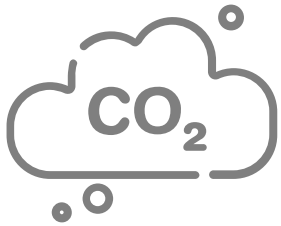
Daniel Njuguna, CEO
Atlancis

OPEN POSSIBILITIES.

OCP GLOBAL SUMMIT
NOVEMBER 9-10, 2021

The Power of Circular Economy





OPEN POSSIBILITIES.

OCP GLOBAL SUMMIT
NOVEMBER 9-10, 2021

Looking at the full value chain

PRE-USE PHASE

CO2e and GHG from mining to manufacturing to deployment

Embodied Energy/ Scope 3 emissions

OPERATIONAL PHASE

Electricity to run IT equipment

Scope 1 emissions

POST-USE PHASE

Recycling and EOL Processes

Embodied Energy/Scope 3 emissions

Make sustainability your competitive advantage

Achieve your decarbonization goals faster, without compromising quality, reliability or performance

SESAME
BY ITRENEW

Zero waste.
Zero carbon.
Zero compromise.

Sesame has designed eWaste and CO_2 out of new hardware. Our circular economic model reduces your costs and carbon footprint.

ENVIRONMENTAL

With Sesame, you can avoid up to 75%+ of the carbon emissions tied to legacy IT manufacturing. Materials used to build our systems are sustainably-sourced.

75%

CO_2 tied to IT mfg avoided

+

FINANCIAL

Think of Sesame as the certified, pre-owned BMW of IT. High-density designs deliver significantly better performance, efficiency compute and storage economics.

50%

Higher density & lower TCO

+

OPERATIONAL

Sesame is built on open architecture, which beats legacy solutions on compute density, operational efficiency and energy consumption.

33%

more energy efficient

OPEN POSSIBILITIES.

OCP GLOBAL SUMMIT
NOVEMBER 9-10, 2021

Sesame by ITRenew

- Designed for your most demanding workloads
- Tuned to your specific requirements
- Ready to plug-and-play

BARE-METAL SOLUTIONS

Engineered, tested,
supported as a single stack

Roll it in, turn it on

FLEXIBLE SCALE & CAPACITY

6 to 96 nodes per rack

600+ nodes per cluster

25/100G networking

PURPOSE-BUILT CONFIGURATIONS

Open Systems (Disaggregated)

Converged (HCI)

AI/ML

STANDARD RACK SIZE & POWER

No data center redesign

Leverage existing power

TECHNOLOGY PARTNERS

kubernetes NVIDIA Red Hat RANCHER SUSE vmware

submer EcoDataCenter ITRENEW

OCP GLOBAL SUMMIT

NOVEMBER 9-10, 2021

Call to Action

- **Download ITRenew's Circularity Report:** https://www.itrenew.com/resources/the-global-circular-data-industry/
- **Read the full Blockheating Story:** https://www.itrenew.com/resources/blockheating-customer-story/
- **Learn more about Sesame by ITRenew solutions:** https://www.itrenew.com/sesame/ > ymangum@itrenew.com
- **Watch Hardware for Kubernetes Webinar:** https://www.cncf.io/online-programs/hardware-for-kubernetes-peeling-back-the-layers/
- **Expiore ITRenew on OCP Marketplace:** https://www.opencompute.org/sustainability-solutions

OPEN POSSIBILITIES.

Thank you!

OCP GLOBAL SUMMIT

NOVEMBER 9-10, 2021