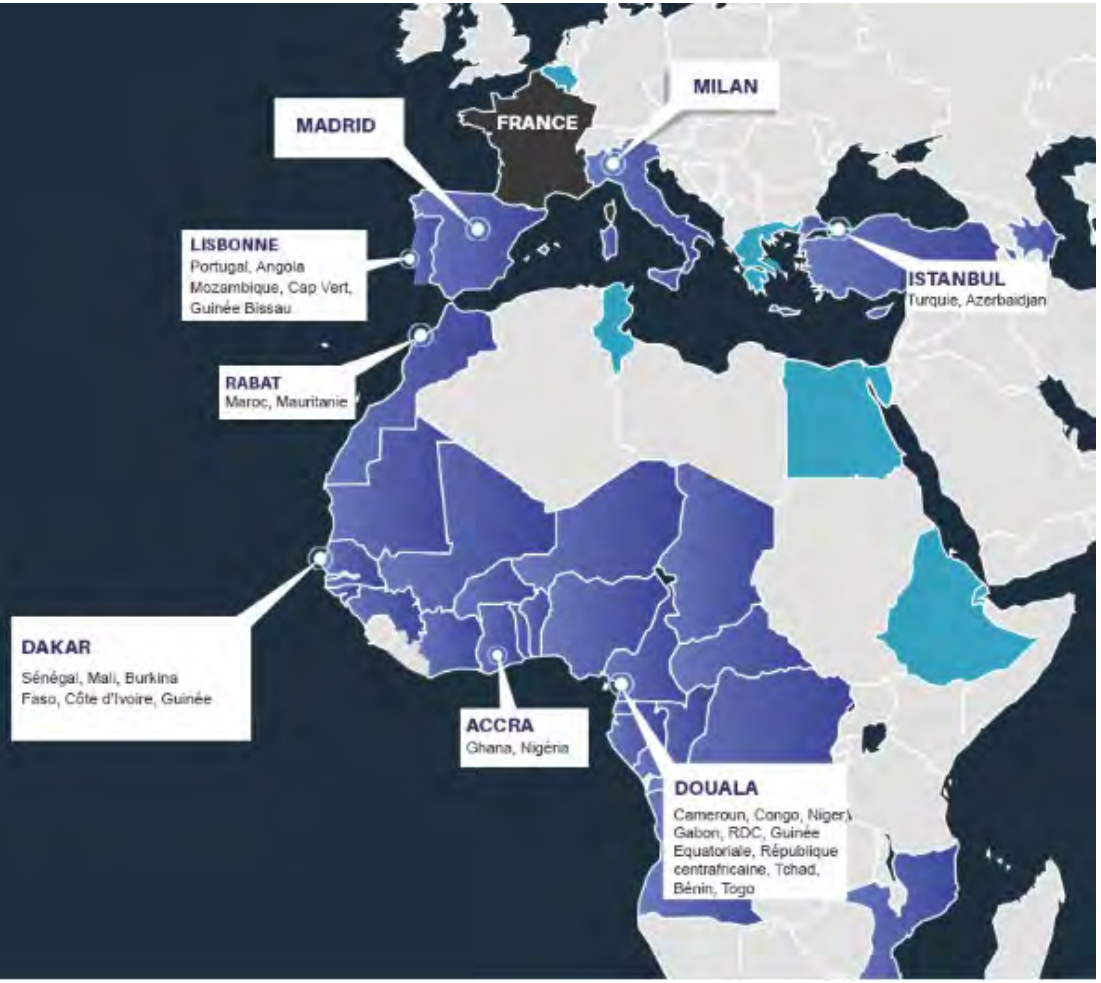
CAP DC

DATA CENTER FORUM AFRIQUE

**Olivier LABBE**

AFRICA DATA CENTRE ASSOCIATION

# Performance énergétique : l'industrie africaine des Datacenters est-elle compétitive ?




**Some significant projects delivered in Europe**

| Group Entity and contract mode | Customer | Location | IT power (Mw) | UPTIME TIER Class TIER II, III or IV | Project TCV (USD) | Contract TCV (USD) | Delivery year |
|---|---|---|---|---|---|---|---|
| Cap Ingelec (Engineering) | Colt | Paris | 6,5 | N/A | confidential | 2 M$ | 2019 |
| Cap Ingelec (Consulting) | Orange | Val de Reuil | 30 | Tier IV | confidential | confidential | 2020 |
| Cap Ingelec (Engineering) | Confidential hyperscaler | Paris | 49 | N/A | confidential | confidential | 2022 |
| Cap Ingelec (Engineering) | Global Switch | Paris | 16 | Tier III equivalent | 115 M$ | 1,5 M$ | 2012 |
| Cap Ingelec (Engineering) | IBM | Lille | 2,4 | TIER III+ | confidential | confidential | 2012 |
| Cap DC Italia (Engineering) | Confidential hyperscaler | Milano | 160 | N/A | confidential | 4,3 M$ | 2022 |
| Cap Ingelec (EPC) | KDDI | Paris | 5 | TIER III+ | 53 M$ | 53 M$ | 2021 |
| Cap DC Espana ( EPC) | Data4 | Madrid | 13 | Tier III+ | 100 M$ | 100 M$ | 2021 |
| Cap DC Italia (EPC) | Equinix | Milano | 2 | N/A | 9 M$ | 9 M$ | 2018 |
| Cap Ingelec (EPC) | DRT Interxion | Marseille | 9 | N/A | 85 M$ | 85 M$ | 2019 |
| Cap DC Turkey (EPC) | Sparkle | Istanbul | 2 | N/A | 1 M$ | 1 M$ | 2021 |

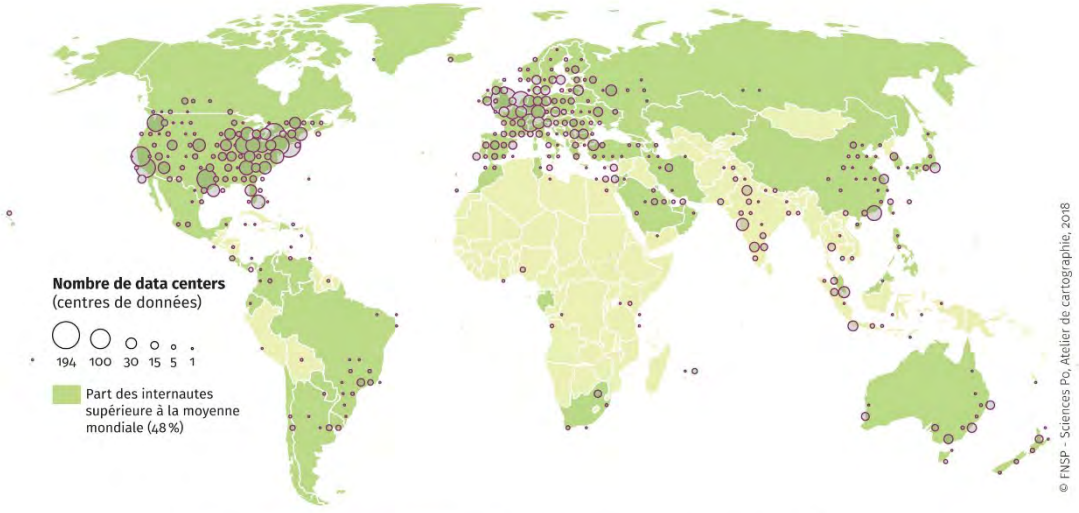
**Some African Datacenter projects delivered by the group**

| Group entity | Customer | Location | Sector | IT power (kw) | UPTIME TIER | SOW | Year of delivery |
|---|---|---|---|---|---|---|---|
| Cap DC Maroc | Inwi | Casablanca | Telco | 500 | III | MOE | 2016 |
| Cap DC Maroc | Casatransport | Casablanca | Public | 600 | N/A | MOE | 2021 |
| Cap DC Maroc | Ministère justice | Rabat | Public | 500 | N/A | AMO | 2022 |
| Cap DC Maroc | Finacards | Casablanca | Bank | 200 | Tier III | MOE | 2022 |
| Cap DC Maroc | Bank of Africa | Casablanca | Bank | 350 | Tier III | MOE | 2022 |
| Cap DC Maroc | Orange | Casablanca | Telco | 300 | N/A | MOE | 2022 |
| Cap DC Algérie | Ooredoo | Alger | Telco | 700 | Tier III | MOE | 2018 |
| Cap DC Ouest Afrique | ADIE | Dakar | Public | 1200 | Tier III+ | MOE | 2021 |
| Cap DC Ouest Afrique | MPTN | Conakry | Public | 100 | Tier III | EPC | 2021 |
| Cap DC Ouest Afrique | Senelec | Dakar | Energy | 200 | Tier III | MOE | 2021 |
| Cap DC Ghana | PAIX | Accra | Colocation | confidentiel | N/A | Commissioning | 2019 |
| Cap DC Cemac | Orange | Douala | Telco | 500+500 | Tier III+ | MOE | 2017 |
| Cap DC Cemac | Orange | Yaoundé | Telco | 200 | Tier III+ | MOE | 2023 |
| Cap DC Cemac | MTN | Yaoundé | Telco | 420 | Tier III | Certification | 2022 |
| Cap DC Cemac | DGSN | Yaoundé | Public | 150 | N/A | MOE | 2018 |
| Cap DC Cemac | Comilog | Moanda | Energy | 60 | Tier III | MOE | 2022 |
| Cap DC Cemac | Africa Data Center | Lomé | Colocation | 820 | Tier III | AMO | 2022 |
| Cap DC Cemac | Gabon Télécom | Libreville | Telecom | 100 | Tier III | Certification | 2022 |
| Cap DC Cemac | Aéroports du Cameroun | Yaoundé | Public | 80 | N/A | MOE | 2022 |
| Cap DC Cemac | BGFI | Libreville | Bank | 2x80 | N/A | MOE | 2021 |

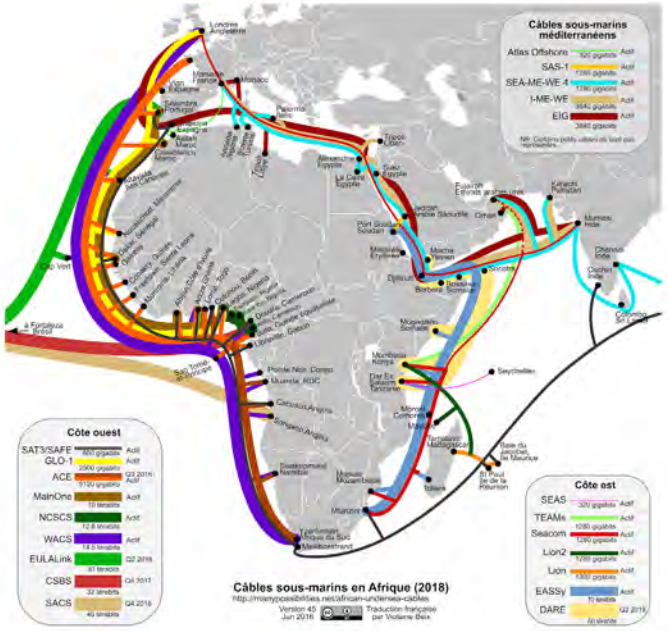
# L'Afrique : le continent en croissance

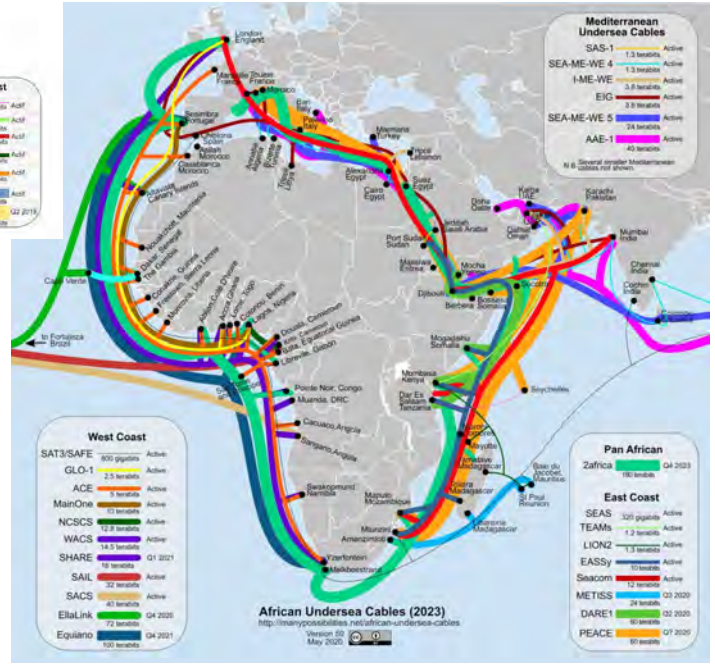


Localisation des data centers, janvier 2018 et juin 2022




Sources : www.datacentermap.com ; Union internationale des télécommunications (UIT),

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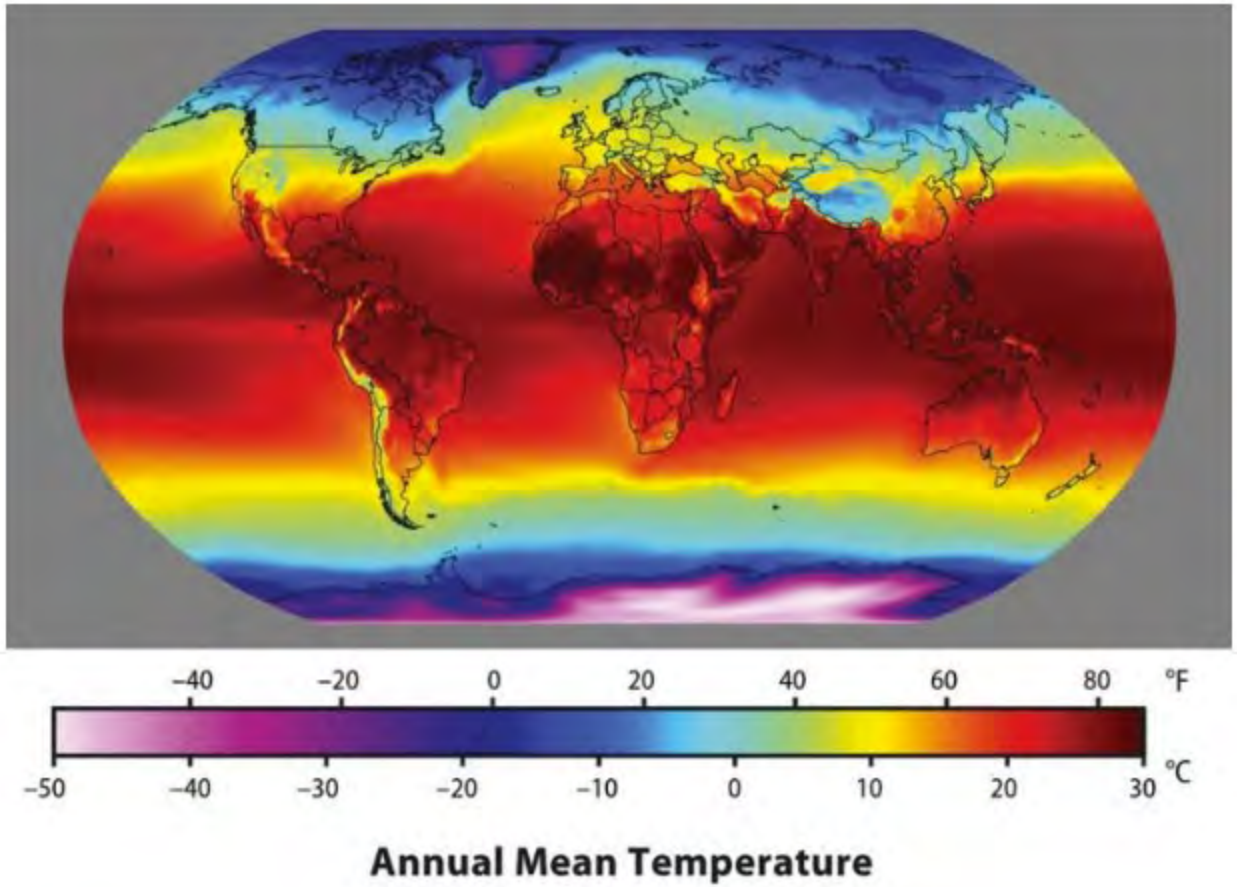
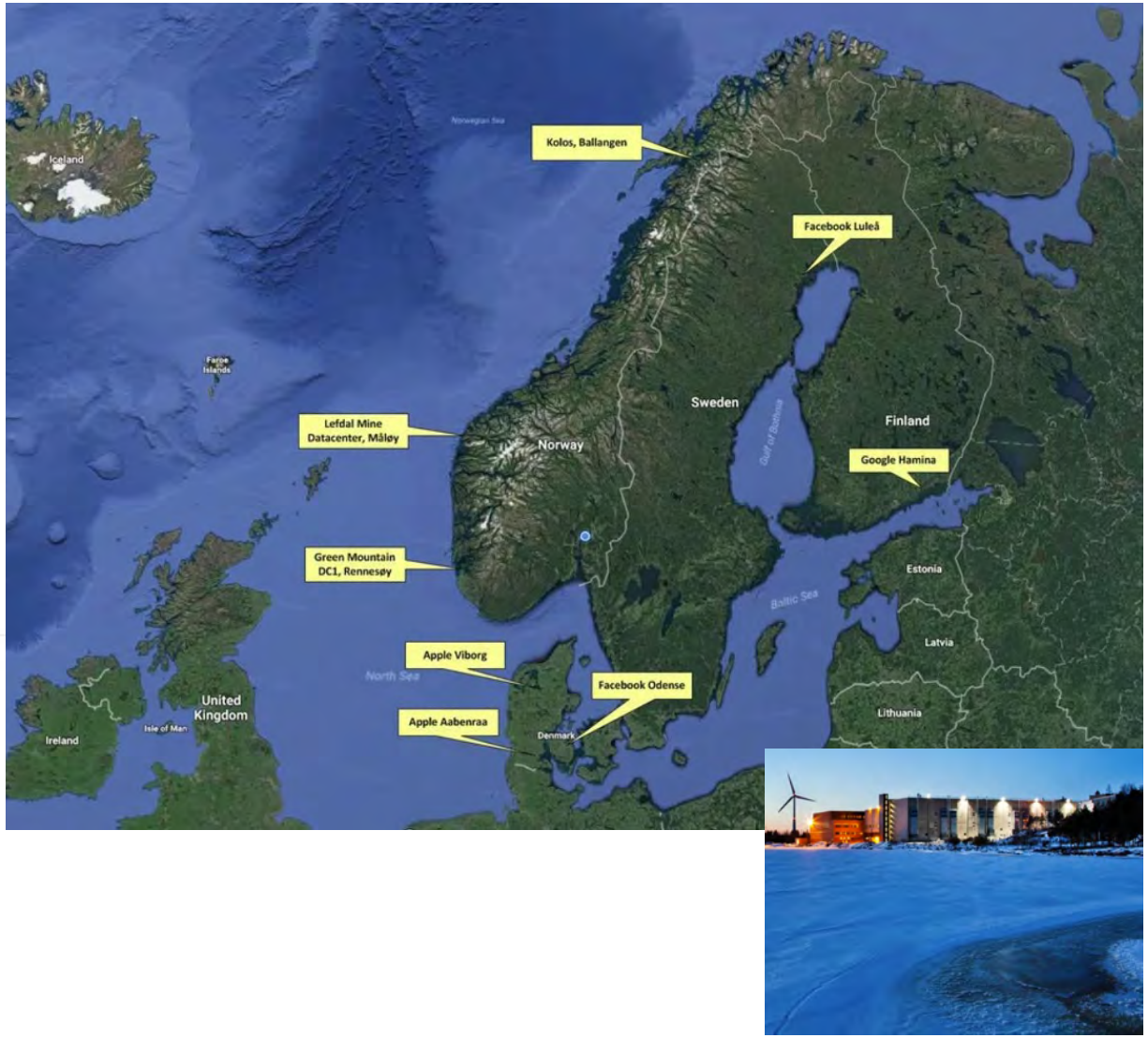
# Le climat africain



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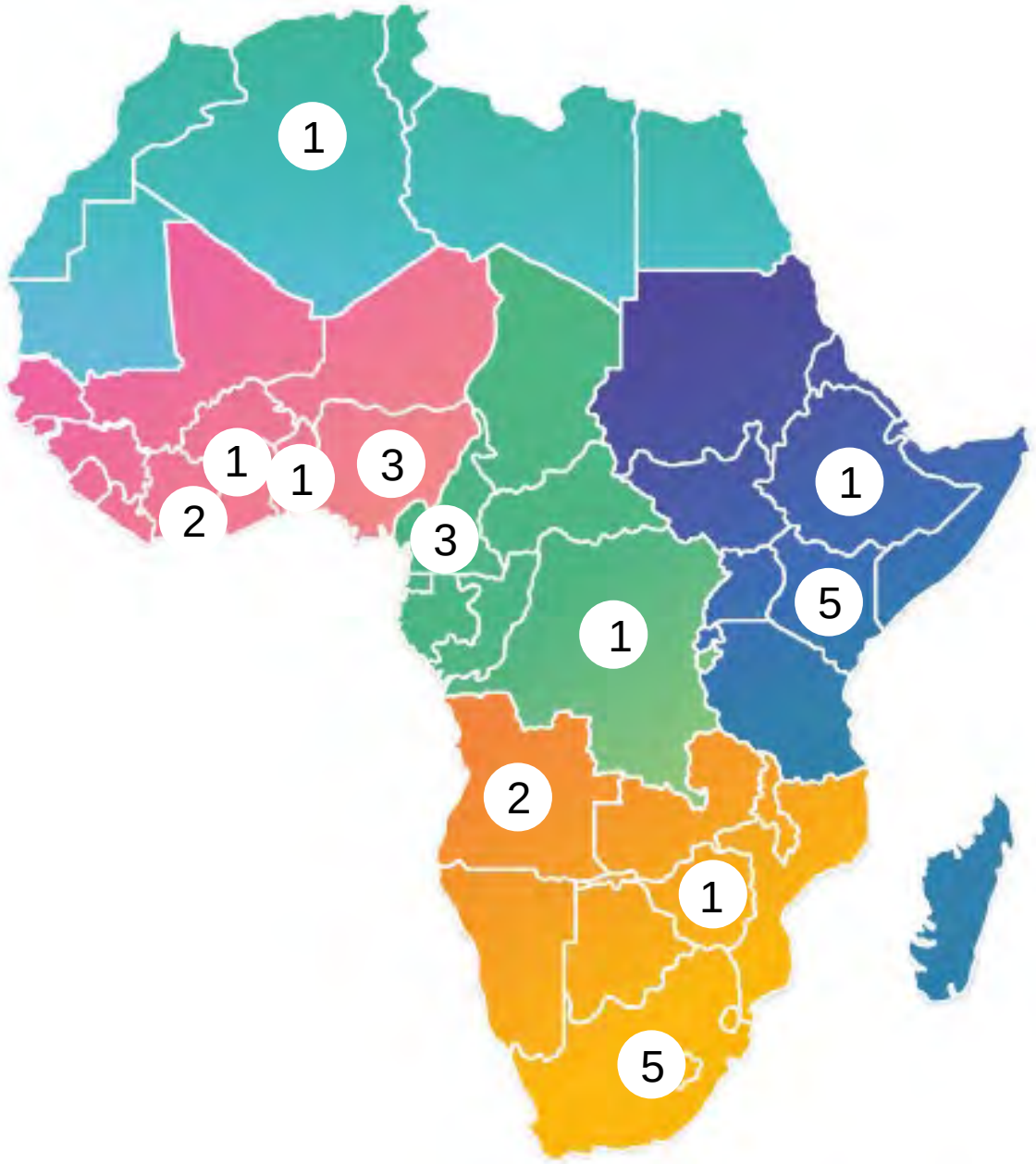
# 2021 : enquête annuelle ADCA Cap DC sur les PUE



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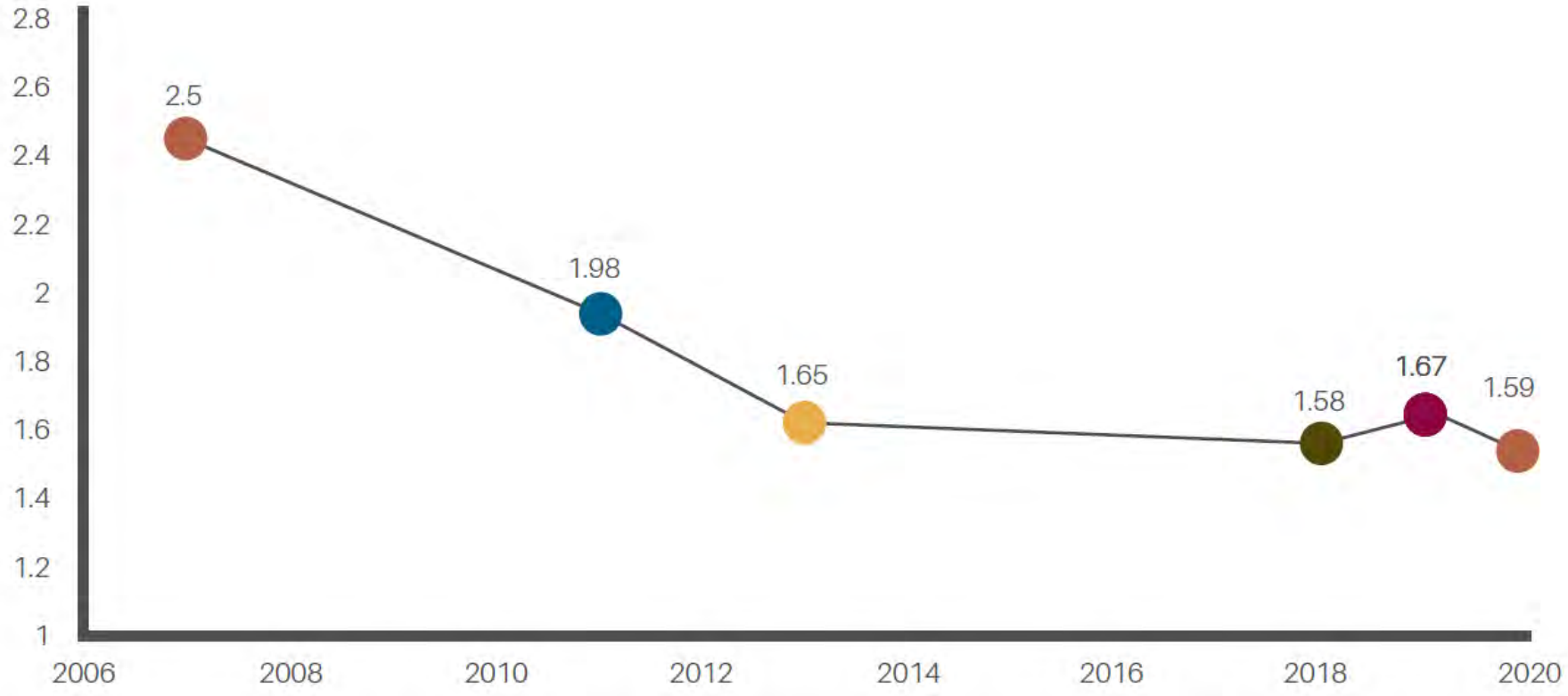
# Worldwide PUE




Source : https://journal.uptimeinstitute.com/

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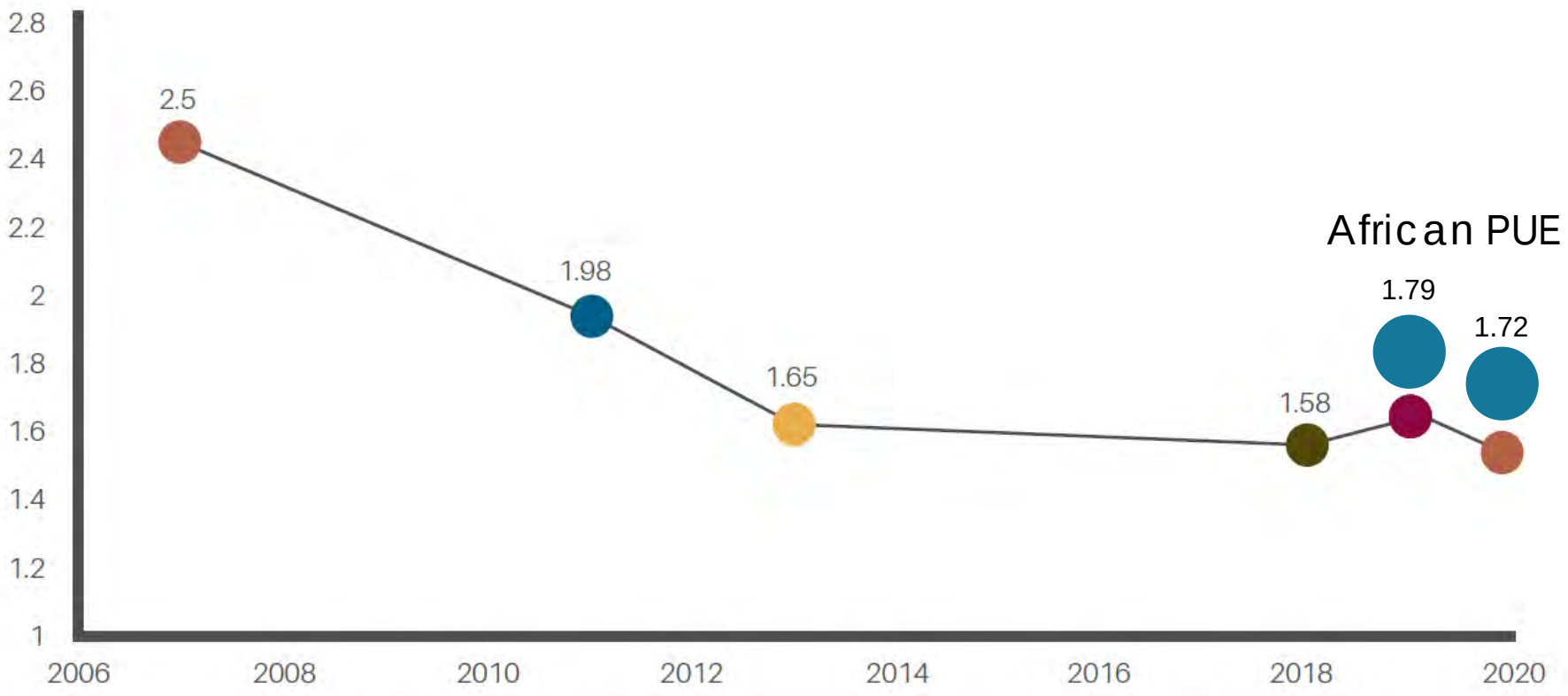
# PUE africain






Source : https://journal.uptimeinstitute.com/

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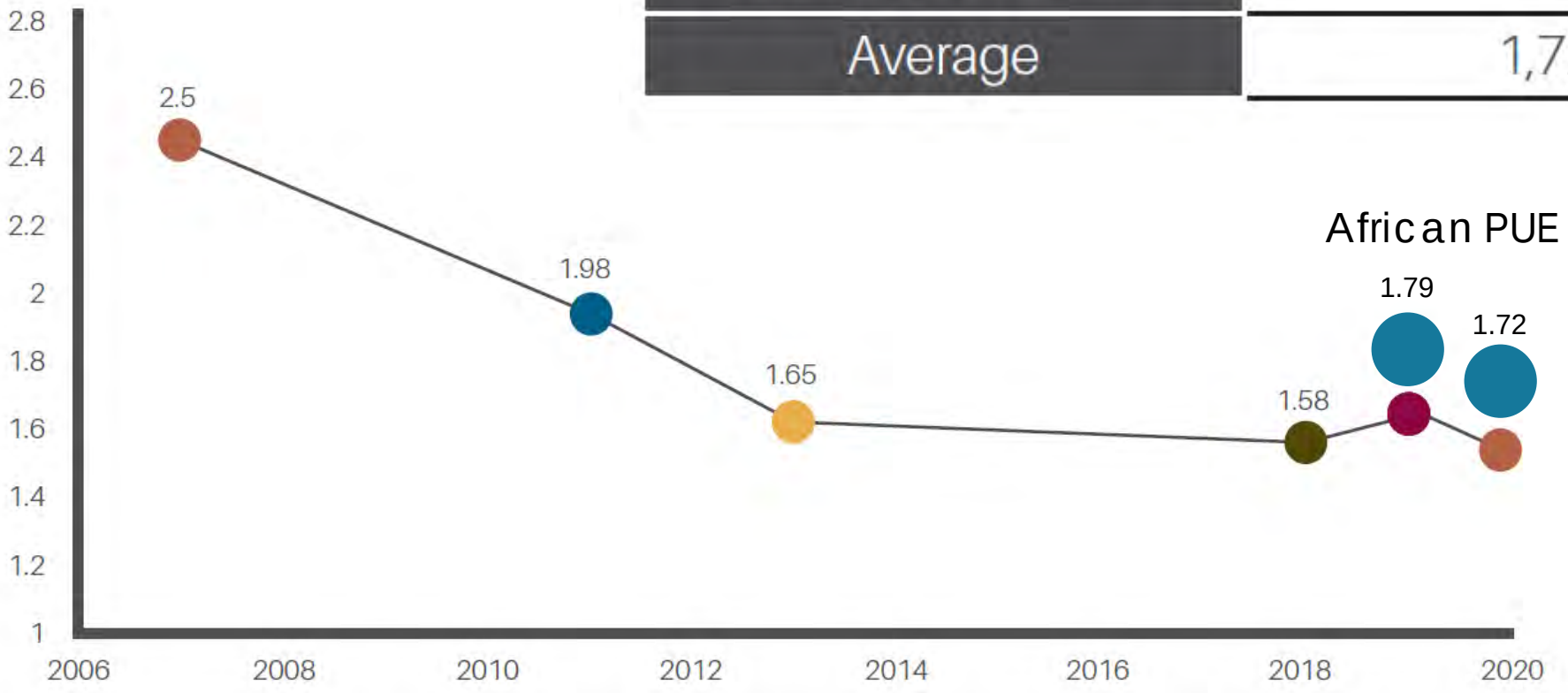
# PUE africain



| | |
|---|---|
| Average with FC | 1.47 |
| Average w/o FC | 1,81 |
| Average | 1,72 |

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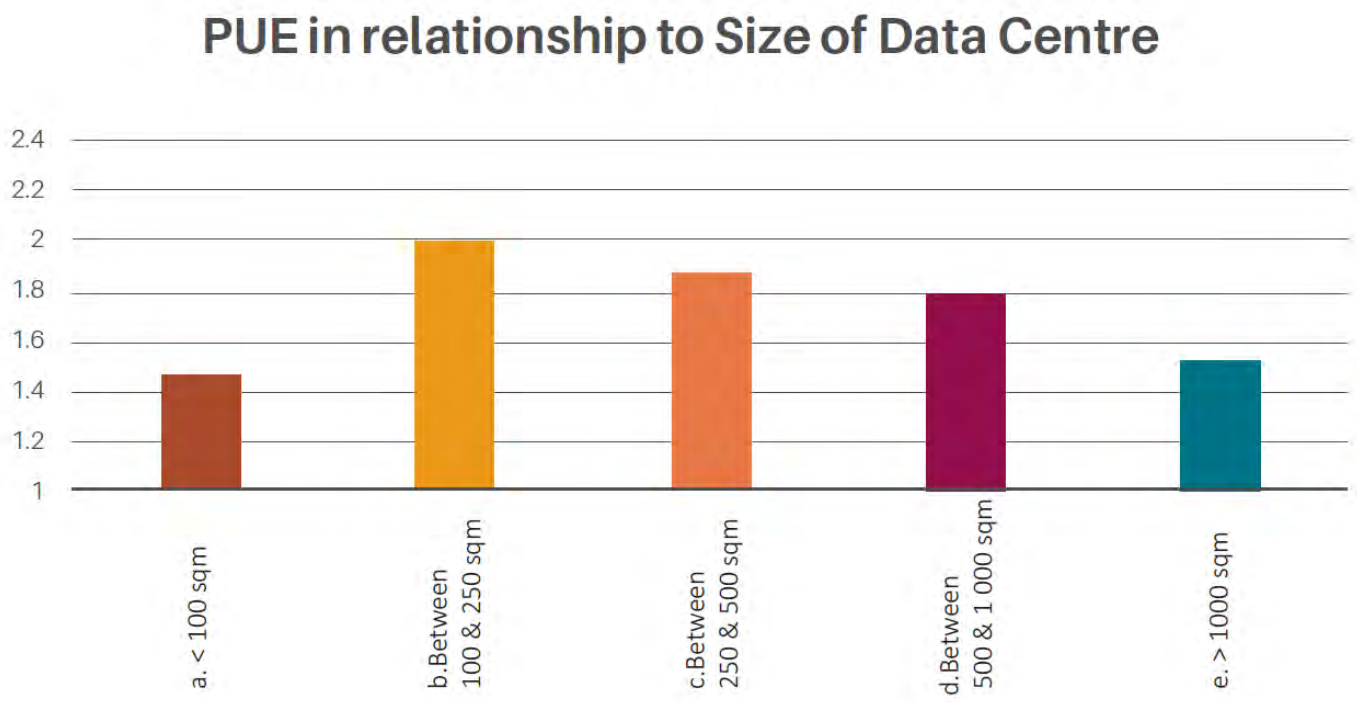
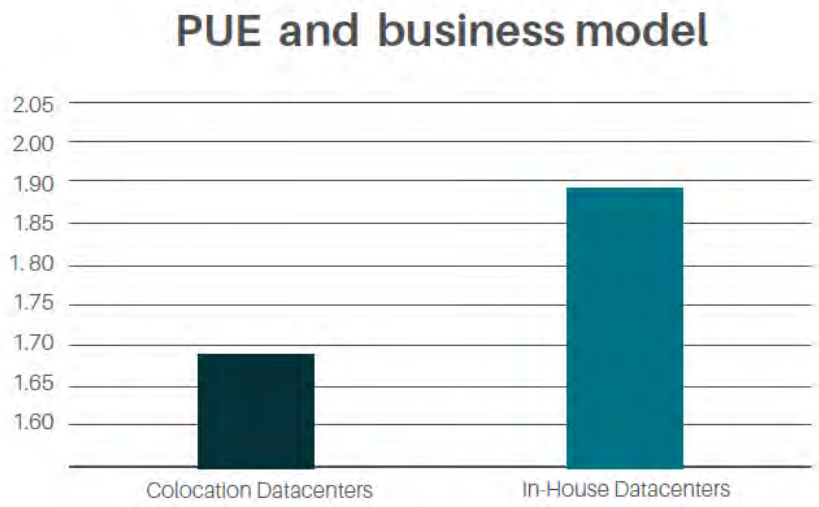
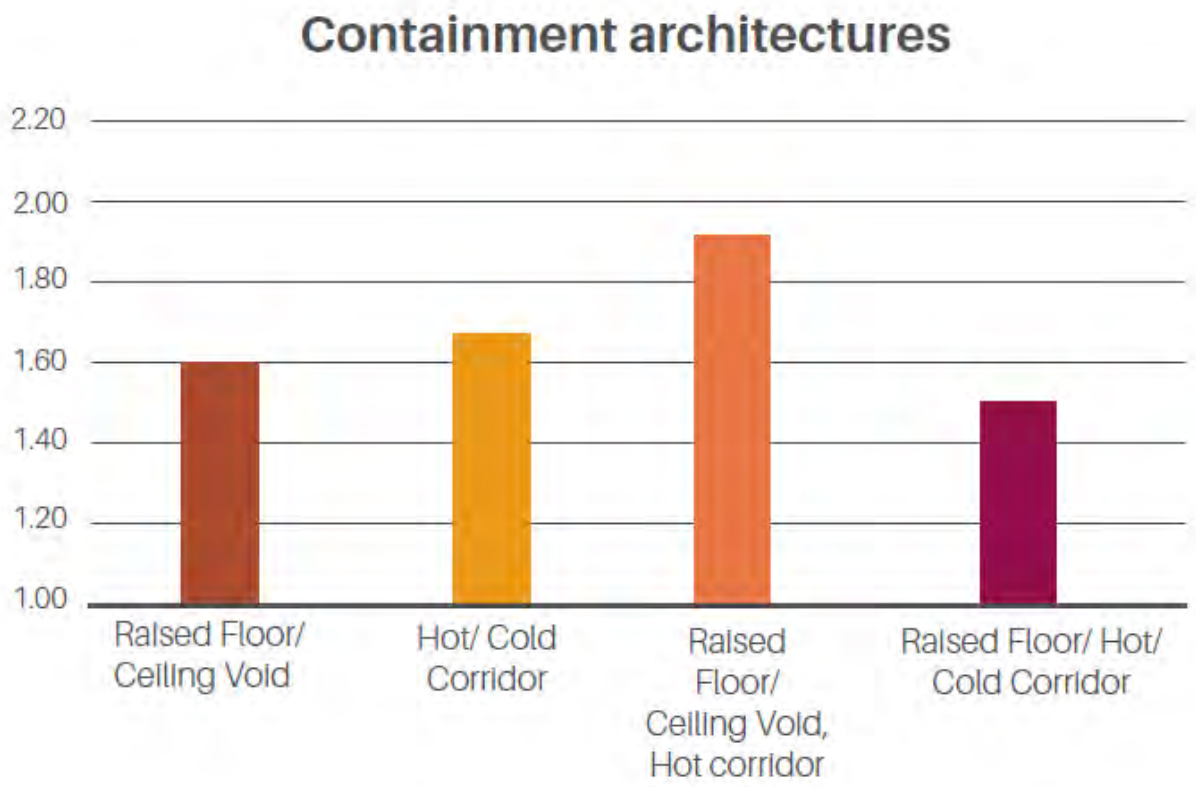
# La performance est tirée par les colocateurs et les grands Datacenters



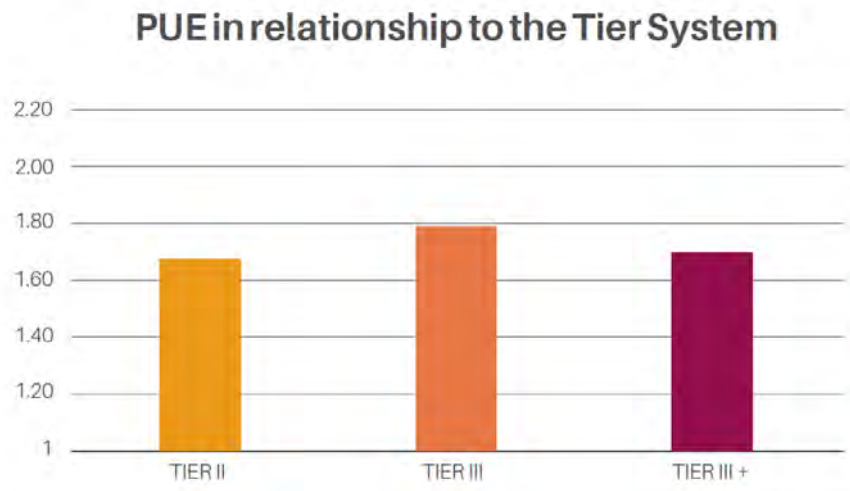


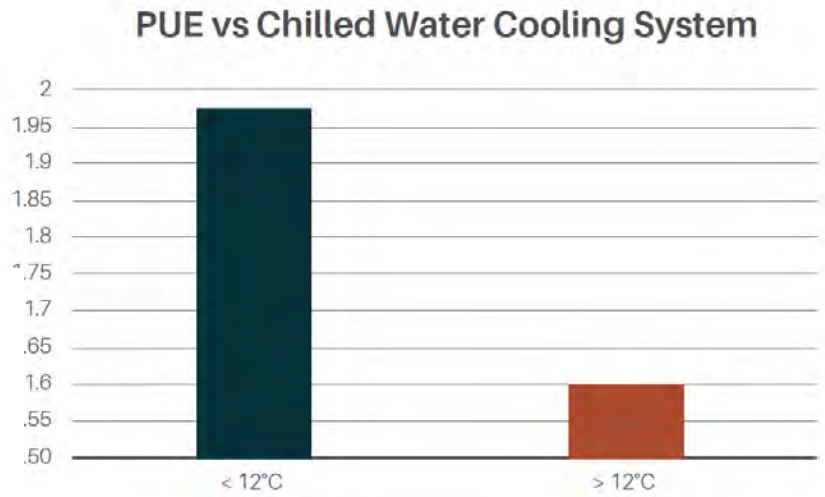



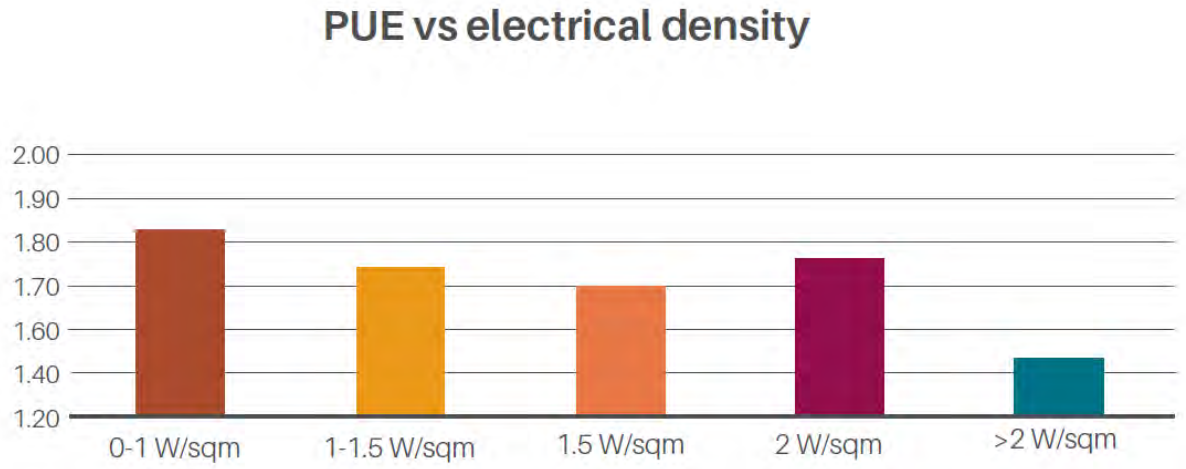
**Containment solution massively deployed. 65% of African Datacenters at least using either Cold or Hot Corridors.**



# Autres critères mesurés

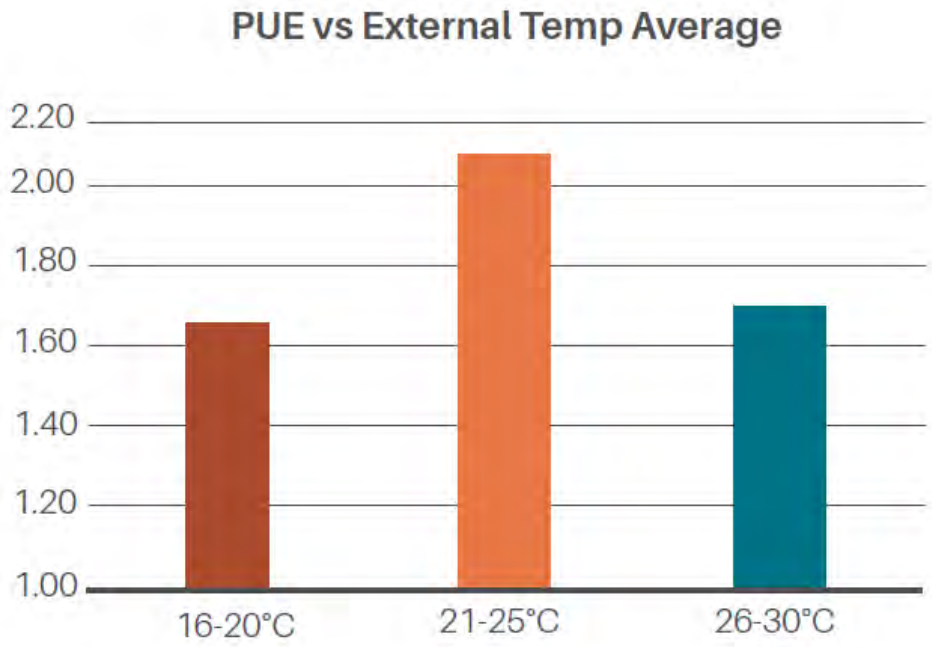


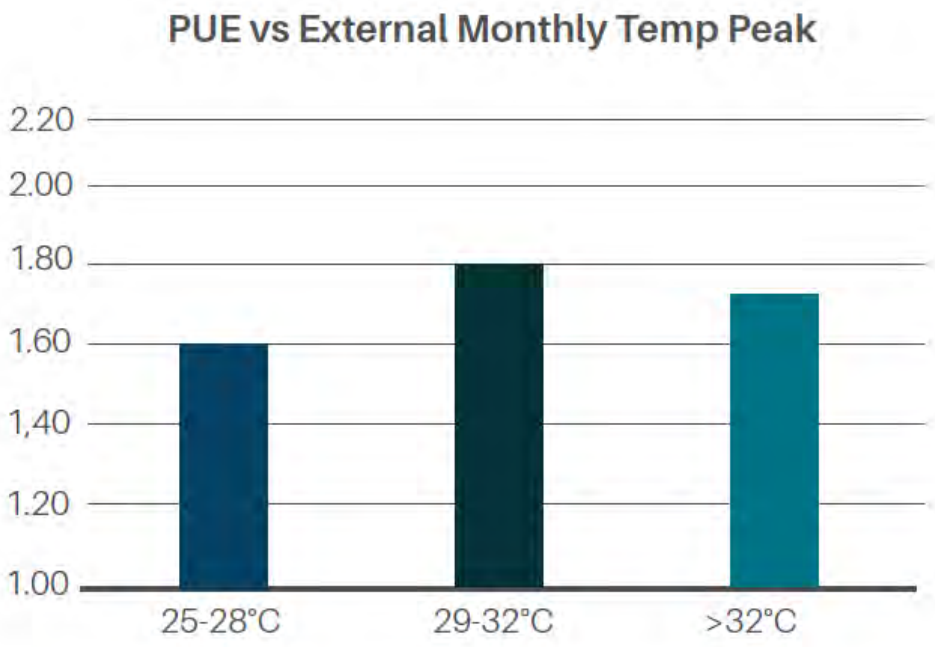



# Le climat n’est pas le premier paramètre





# Les enjeux dépasseront le problème du climat afriain

Orange Cameroun
Datacenter
Douala Makepe
2017

2x500 kW IT
Tier III+

PUE 1.7

## Production en énergie renouvelable

21th Century Datacenter in Lagos (Nigeria)

## Hydrogène

Microsoft Date Centre Salt Lake City (USA)

# Merci pour votre attention !

**CONTACT** :

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