

Datacenter of the Future



**DATA CENTER & CLOUD
FORUM 2018**





Let's google it...



datacenter of the future

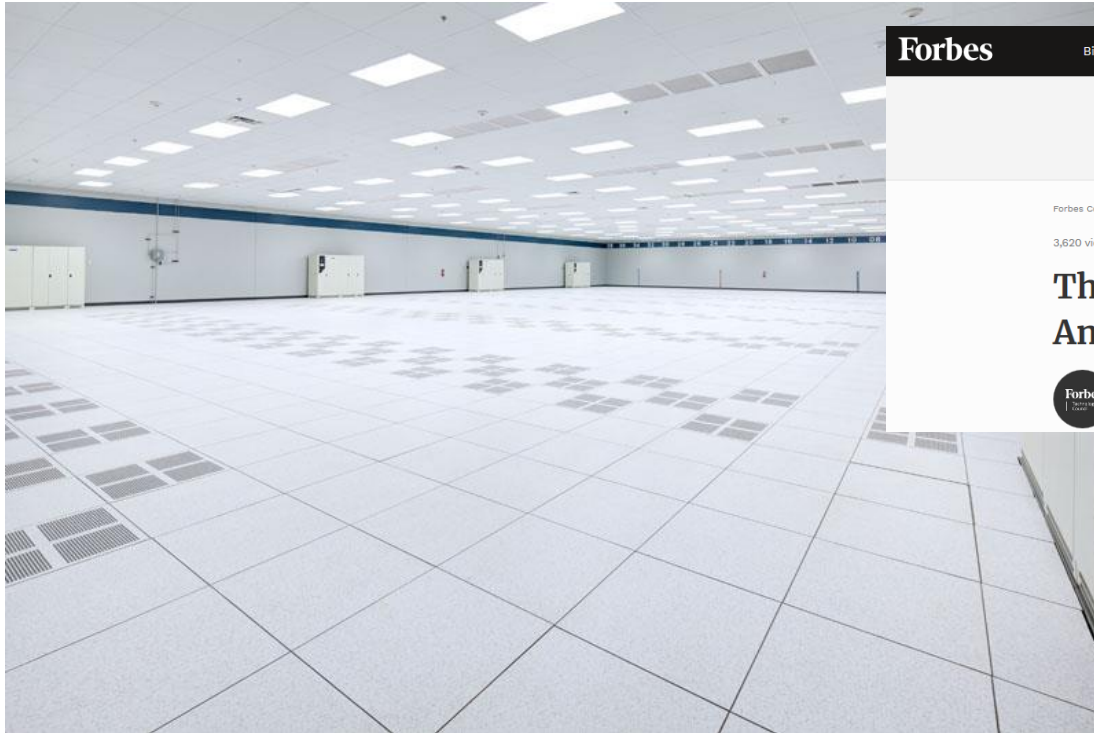
Google Search

I'm Feeling Lucky

Google offered in: [Deutsch](#) [Français](#)



Some say they will disappear...



Forbes

Billionaires Innovation Leadership Money Consumer Industry Lifestyle

Forbes CommunityVoice Connecting expert communities to the Forbes audience. What is This?

3,620 views | Dec 4, 2017, 07:30am

The Data Center Of The Future Is An Empty Room

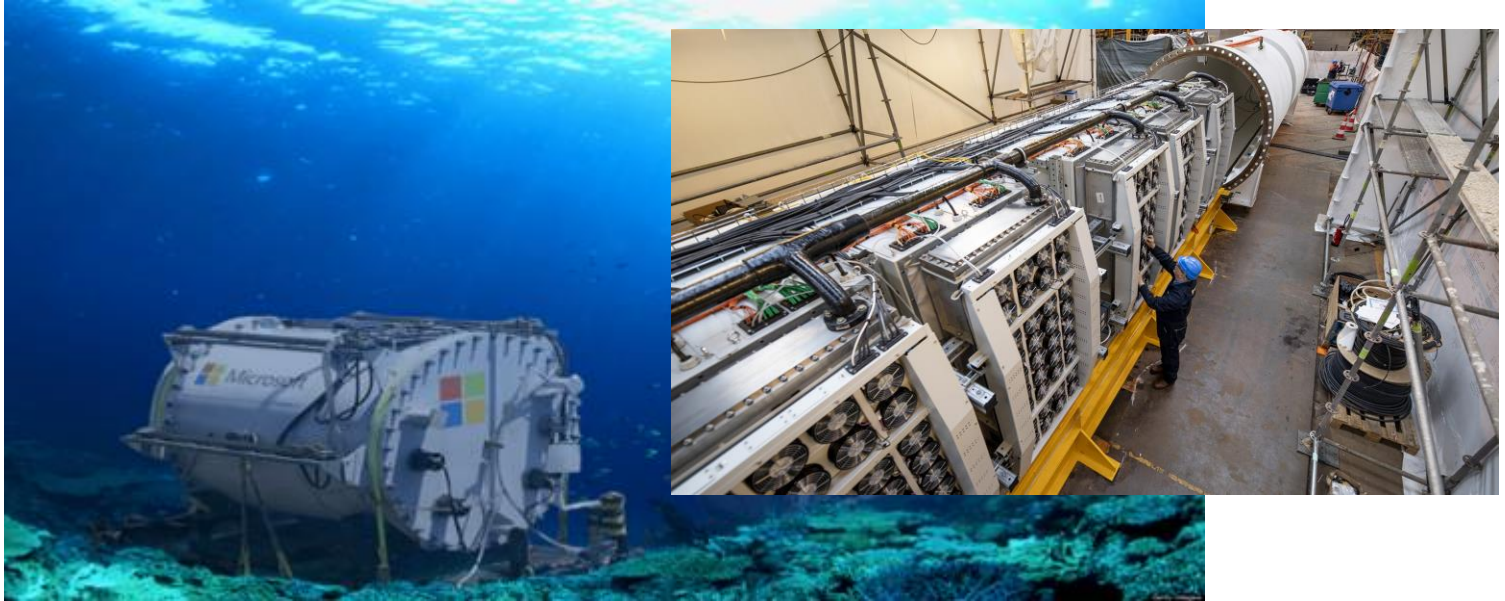


Nitin Rakesh CommunityVoice
Forbes Technology Council





Others say that we will need so much of them that they will be located in the ocean...



Project Natick's



Most agree on the fact they will become hybrid...



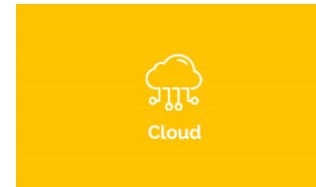
Here's why...

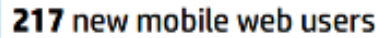
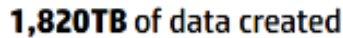
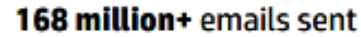
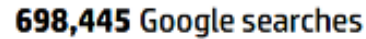
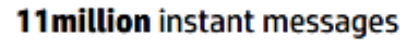
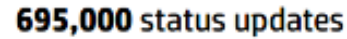
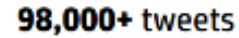


The Datacenter is at the core of new models

Pillars of Industry 4.0

- ❖ Social Media : Source of instant & lots of data
- ❖ Mobile devices : Permanent connection with real-time sharing
- ❖ Cloud: Storage and execution platform
- ❖ Big Data / AI : Processing and analysis tools to deliver value
- ❖ Streaming : Lots of data viewed...
- ❖ ...

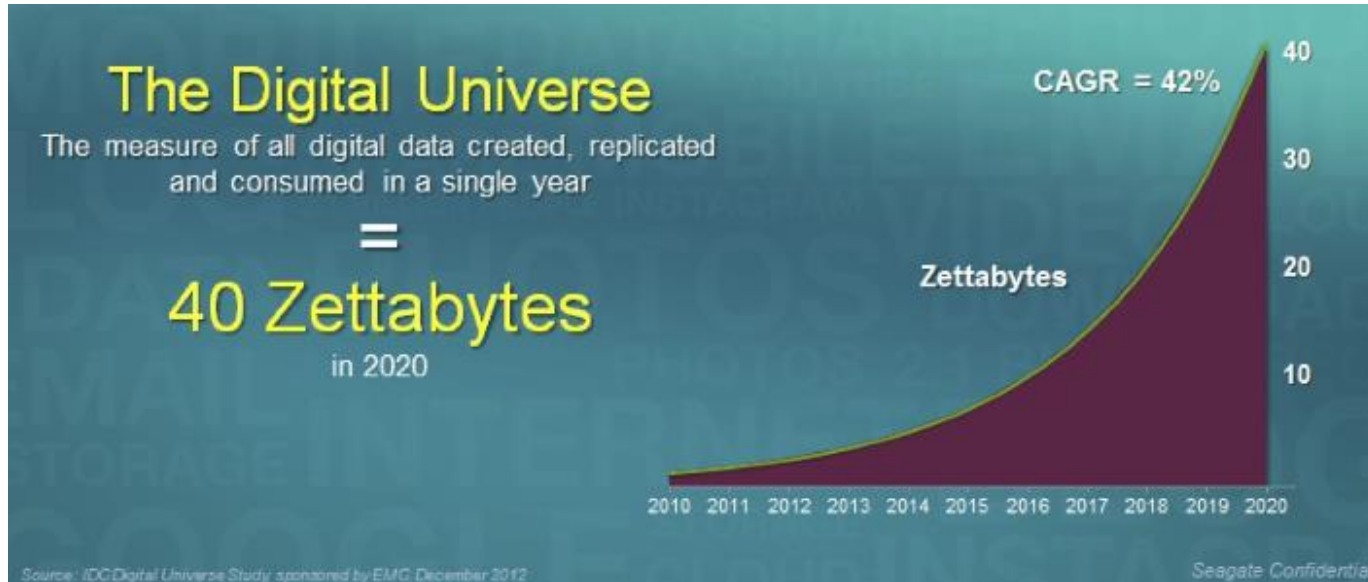




Source IDC © 2017/03



How big is the Digital Universe?

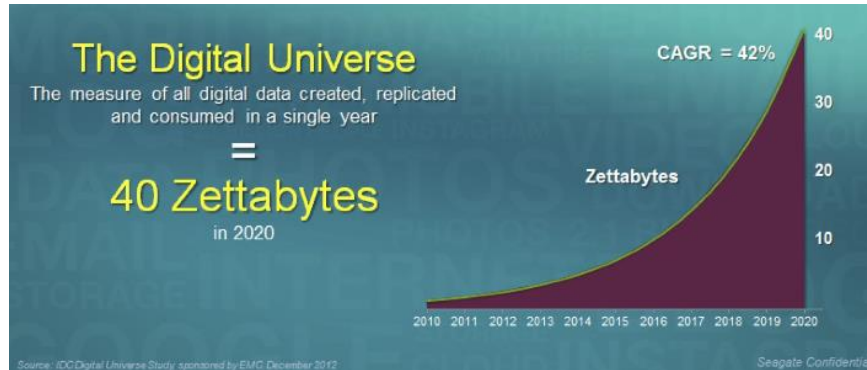


1 Zettabyte = 1 million Petabytes = 200 billions of 5GB DVD's





How is it secured ?



A large part (> 80%) of this digital universe
is **NOT protected**

datanews

Rubriques ▾

Le magazine

Avantages
pour abonnés

Abonnez-vous



CCB: 'Deux tiers des entreprises belges victimes de la cybercriminalité'

Sebastien Marien
Stagiaire Data News

20/02/18 à 13:49 - Mise à jour à 13:49

Le Centre pour la Cyber-sécurité Belgique (CCB) a présenté son nouveau guide d'informations pour les entreprises. L'objectif est de faire de la Belgique l'un des pays européens les plus efficaces dans le domaine de la cyber-sécurité.





Organizations are massively adopting the public cloud...



Communications Media Financial services Manufacturing Resources Government Health

Bank of America chooses the Microsoft Cloud



By Lindsay James on 02 October 2017



DIGITAL JOURNAL

NEWS TECH & SCIENCE SOCIAL MEDIA BUSINESS ENTERTAINMENT LIFE SPORTS

Airbus chooses G Suite for its digital transformation strategy

BY JAMES WALKER MAR 19, 2018 IN TECHNOLOGY

Airbus is to abandon Microsoft Office in favour of Google's G Suite. The decision is a significant win for Google, which is currently competing head-to-head with Microsoft for cloud productivity dominance. The move will affect over 130,000 Airbus workers.

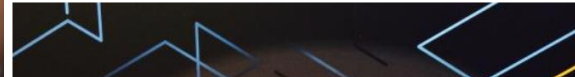


HR Marketing Finance Sales & CRM Collaboration Leadership

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home / finance / capital one chooses aws as new cloud provider

Capital One chooses AWS as new cloud provider



Enterprise Cloud

Solutions Review

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Met Police chooses Azure as basis for 'cloud-first' transformation

Written by Sam Trendall on 3 September 2018 in News

London force to move applications and infrastructure to Microsoft public cloud environment

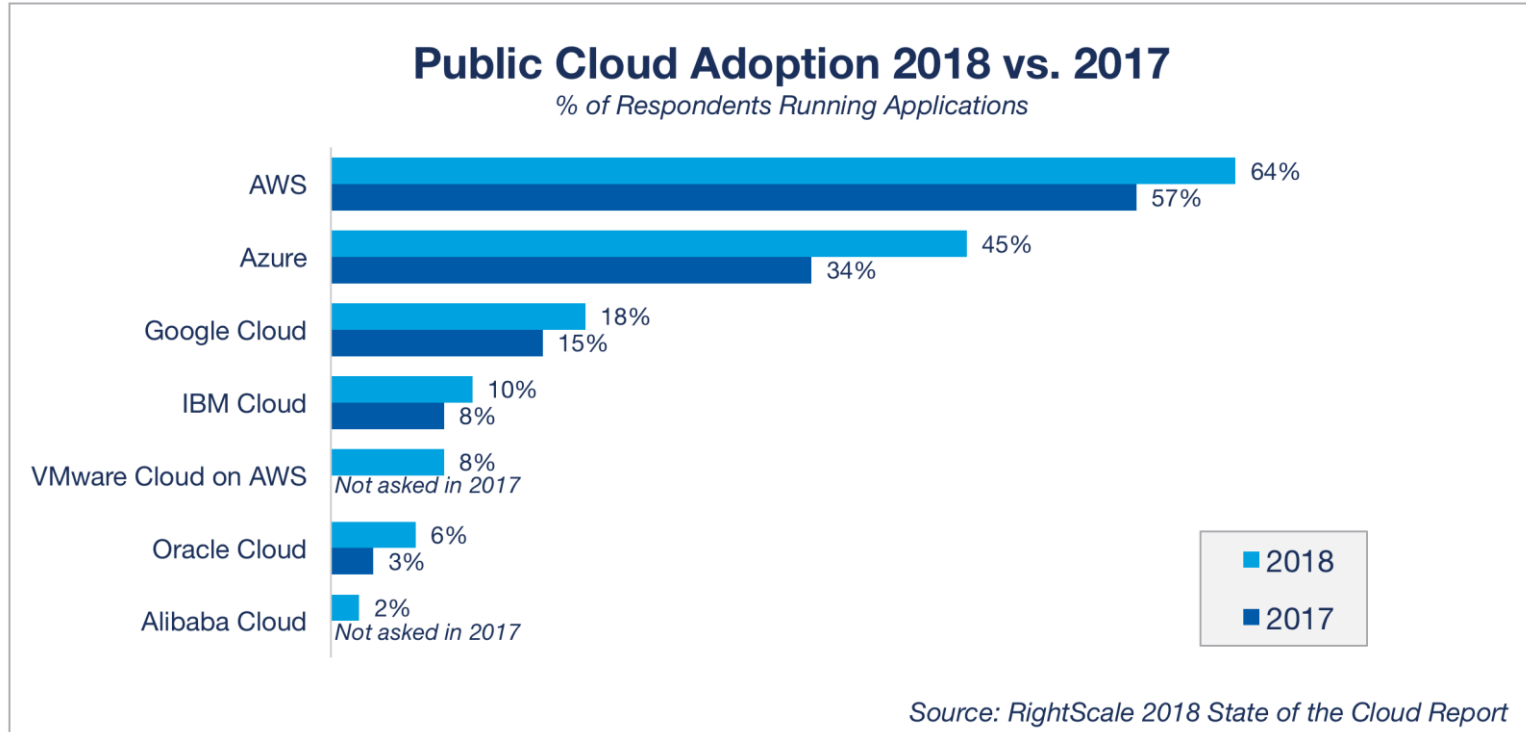


US Army Chooses IBM for Cloud Services

Posted on January 20, 2017 by Ashley Troutman in News



And it's a cloud war out-there...





So why would I keep my data “locally” ?

From constraints to...

Benefits

CLOUD ACT

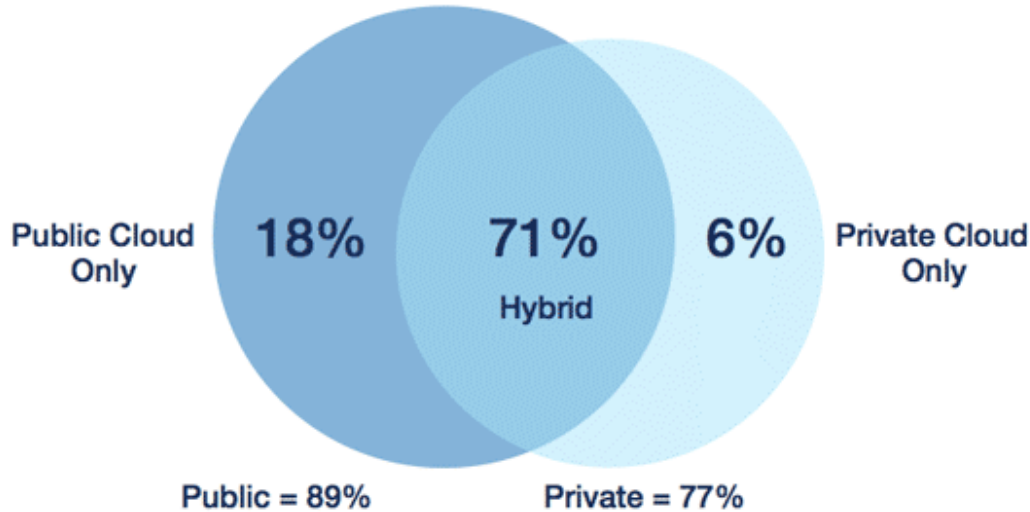
(Clarifying Lawful Overseas Use of Data Act)





How to combine the best of both worlds ?

95% of Respondents Are Using Cloud



Source: RightScale 2018 State of the Cloud Report

Multi-Cloud, preferred strategy

% of enterprises that have a strategy to use multiple clouds



Cloud Challenges for enterprises

- 85% Security
- 82% Lack of expertise
- 80% Managing costs
- 75% Governance/Control
- 74% Compliance

Unauthorized Cloud Applications

22x

More than those have been authorized by IT





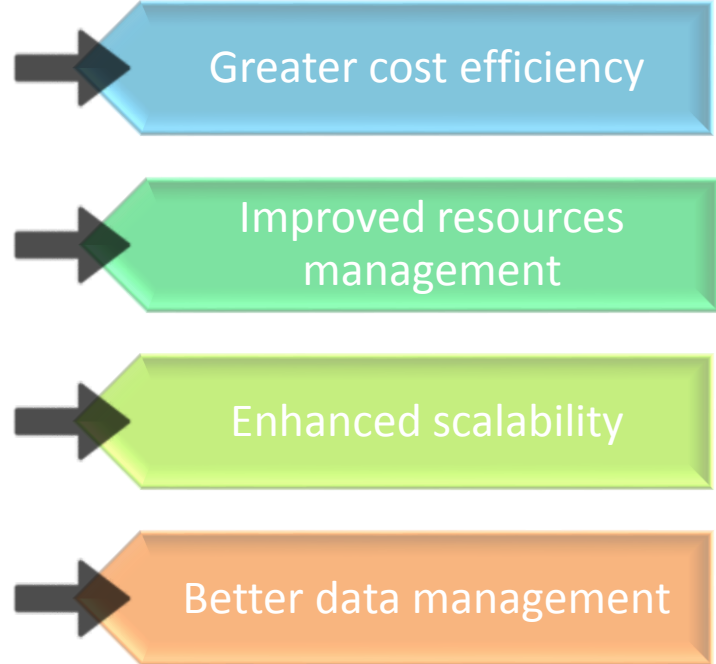
Clients are adopting an « Hybrid Cloud » strategy

Get the best from both worlds



H
Y
B
R
I
D

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L
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D





EBRC = **E**uropean Business **R**eliance Centre

*Centre of Excellence
in the Management & Protection
of Sensitive Information
in the Heart of Europe*



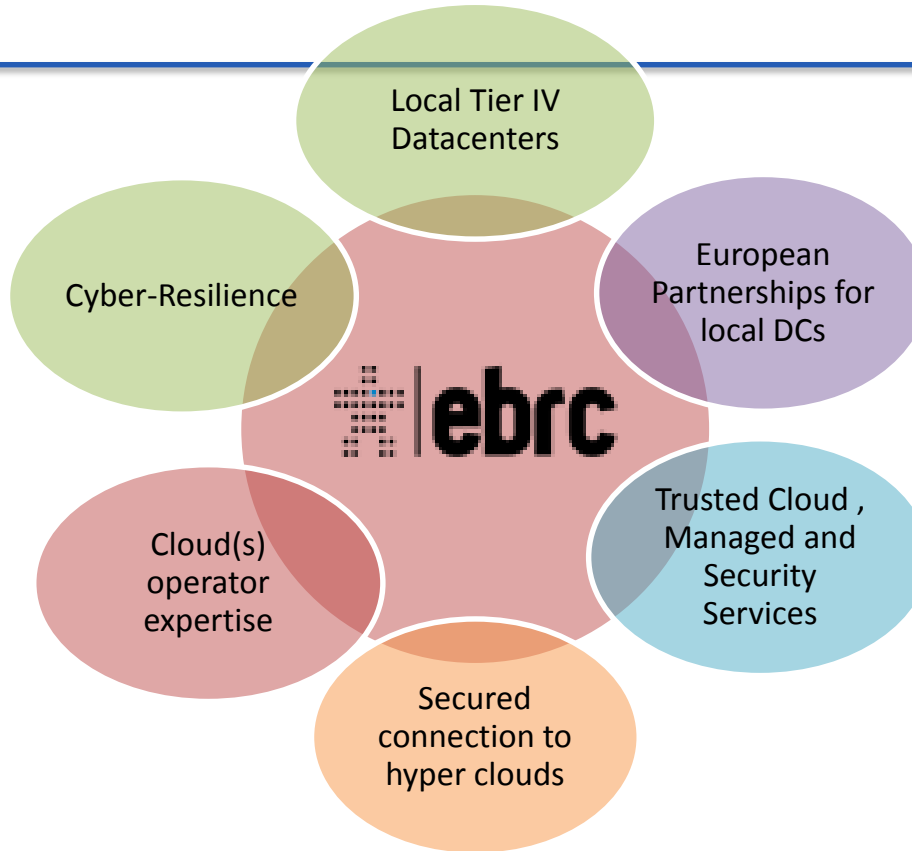


Trusted Services Europe: one-stop-shop





EBRC in the context of Datacenters of the future





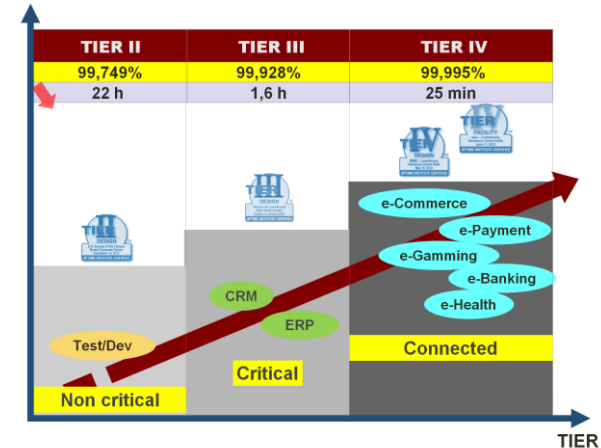
EBRC – Local Tier IV Datacentres



Zero Downtime for more than 16 Years

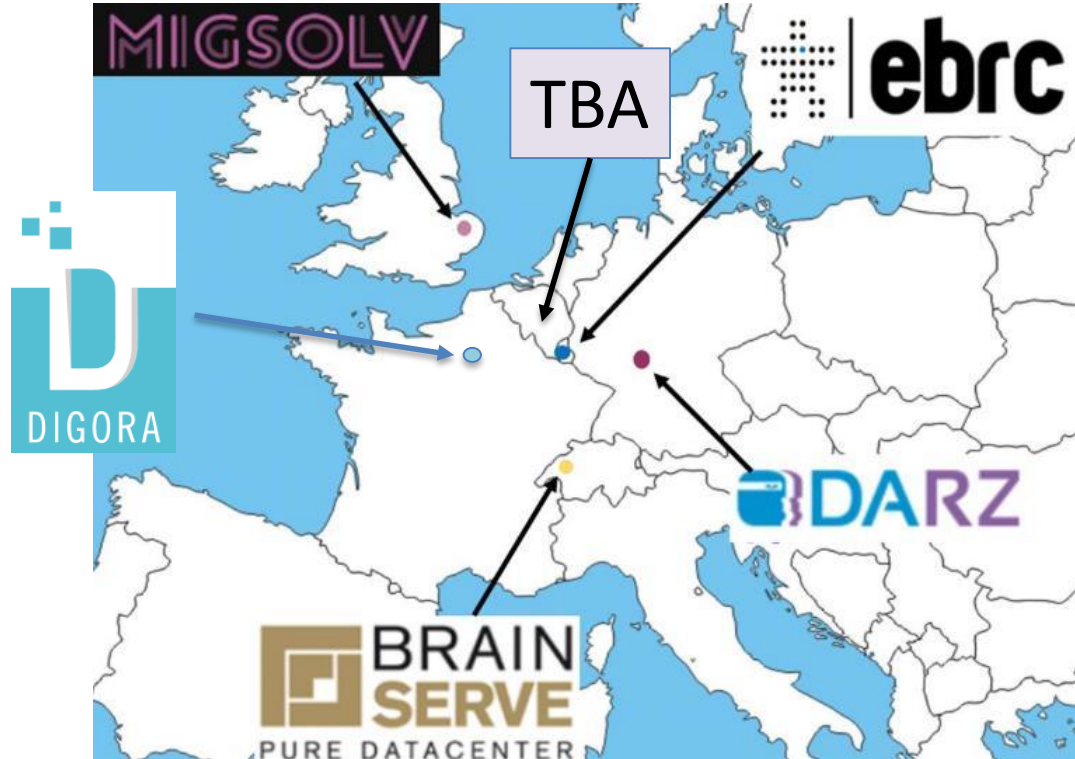
- Highly Secure & Resilient Infrastructures
- Trusted Data Centre Services – 5 interconnected Data Centres
- Trusted Cloud Europe & Trusted Managed Services

(Uptime Institute Tier IV Commitment)



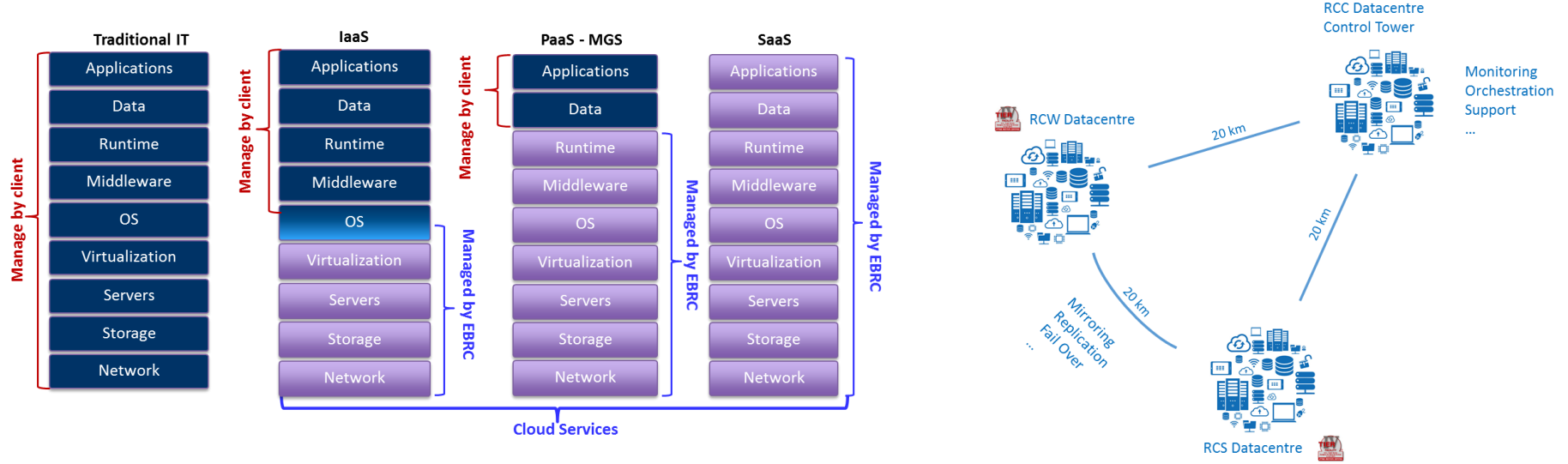


EBRC – European partnerships for local DCs





EBRC – Trusted cloud services



Full certified stack



Payment Card
Industry – Data
Security Standard

ISO 22301
BUREAU VERITAS
Certification



ISO 27001
BUREAU VERITAS
Certification





EBRC – Trusted Managed Services



Monitoring & Alerting

- Deep network monitoring
- Immediate alerting

Asset Management

- Automated network scanning and asset discovery
- Asset inventory and warranty management

Security Assurance

- Baseline Security scanning to detect security holes
- Antivirus, Data Protection
- Achieve regulatory compliance

Preventive Maintenance

- Basic automated scripting to maintain asset health
- Comprehensive server health reports

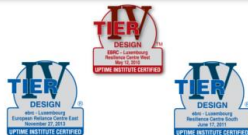
Reporting

- Comprehensive, automated reporting (schedule daily, weekly, ..., on-demand)

Quarterly Service Account Meeting

- Detailed needs assessment
- Setting objectives and planning for improvement

Full certified stack



Payment Card
Industry – Data
Security Standard





EBRC – Trusted Security Services

Identification : Vulnerability Management as-a-Service

- Vulnerability scanner as-a-Service
- Risks evaluation

Detection: SOC (Security Operation Center)

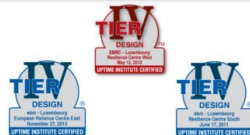
- 24x7 Security solutions
- Monitoring or Managed Security
- SIEM
- Security & Risks Management (ISO 27001, PCI DSS Level 1)



Response: Cyber Security & Forensics as-a-Service

- Enabled Identification, Detection and Forensics on all Enterprise end-points
- Safe and cost-efficient deployment
- Enables Forensics without impacting the business

Full certified stack



Payment Card
Industry – Data
Security Standard



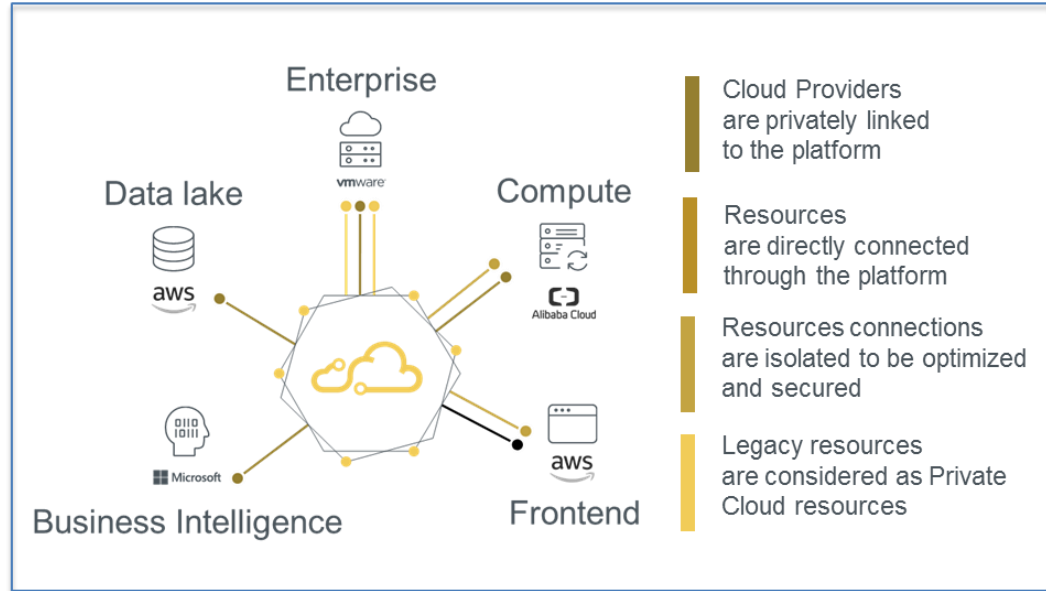


EBRC – Secured connection to Hyper Clouds

>50 cloud destinations



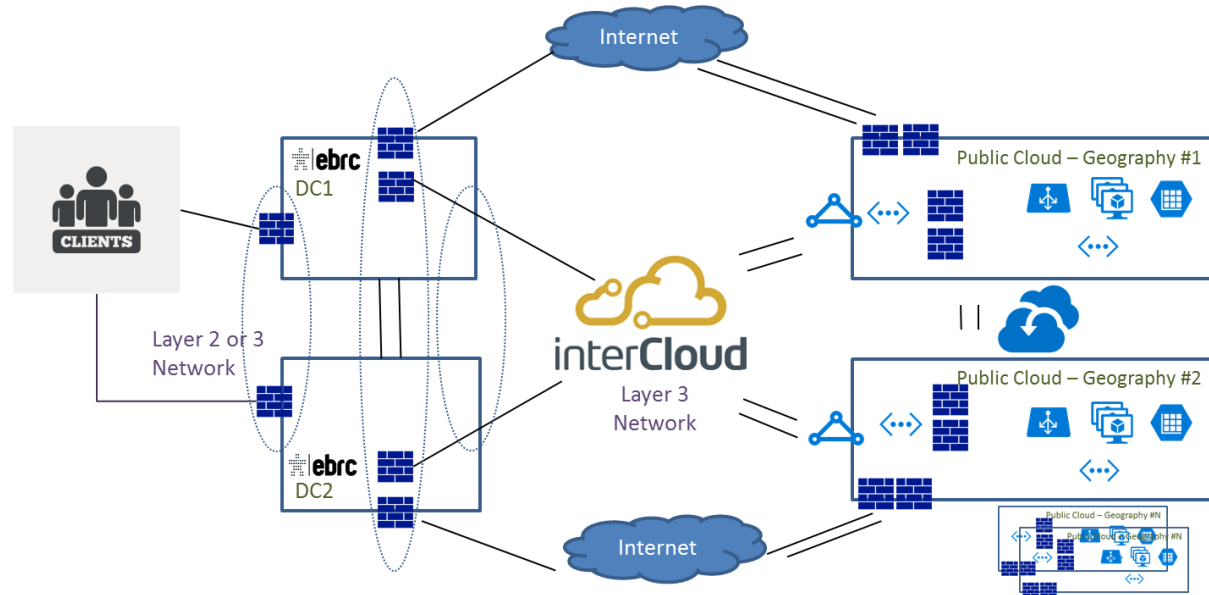
EBRC &  integrated platform





EBRC – Cloud(s) Operator expertise

- Certified services
- Have a single pane of glass:
« EBRC glue » to soften differences
- Hyper scale clouds = 6th and 7th
EBRC Data Centre
⇒ Processes almost kept unchanged.
- No vendor lock-in ⇒ multi cloud approach



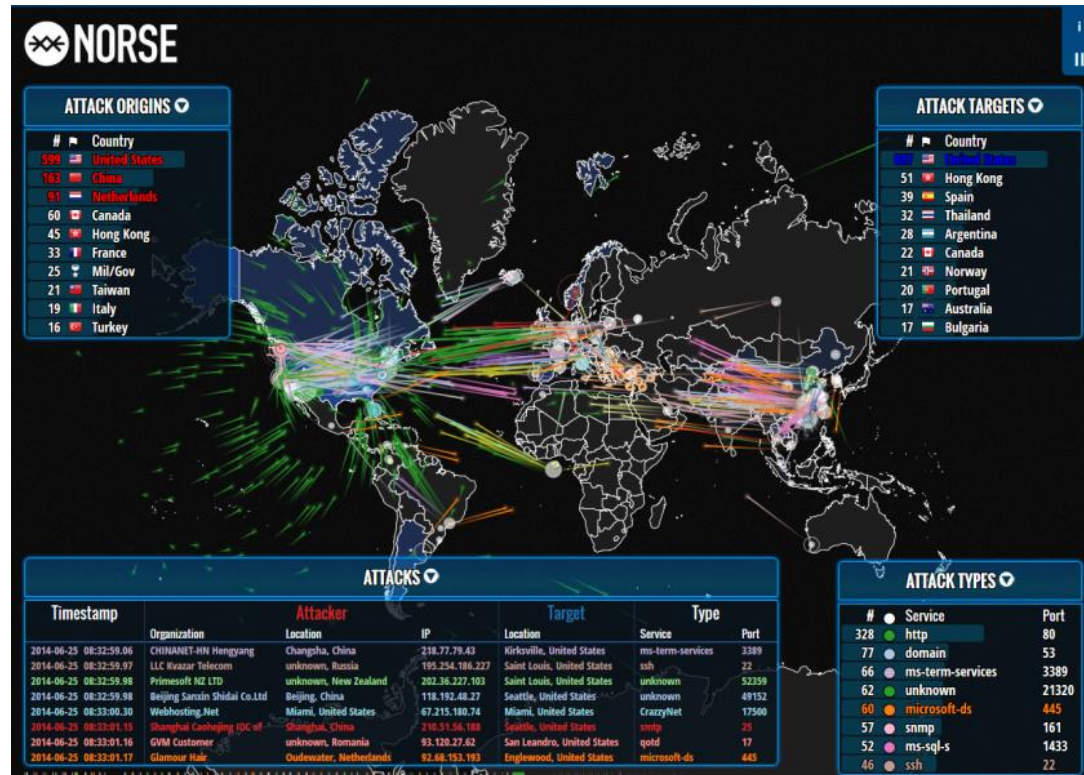


EBRC - Cyber-Resilience

The question is not : Will I be attacked ? ... it's when will I be attacked ?

Live Attacks by Country

China	292205862
United States	220094784
Bulgaria	92140620
Netherlands	54080832
Other Country	21860202
France	20355582
Russian Federation	20298876
Hong Kong	20145294
Canada	18289050
Korea, Republic of	15140190
Germany	14578746





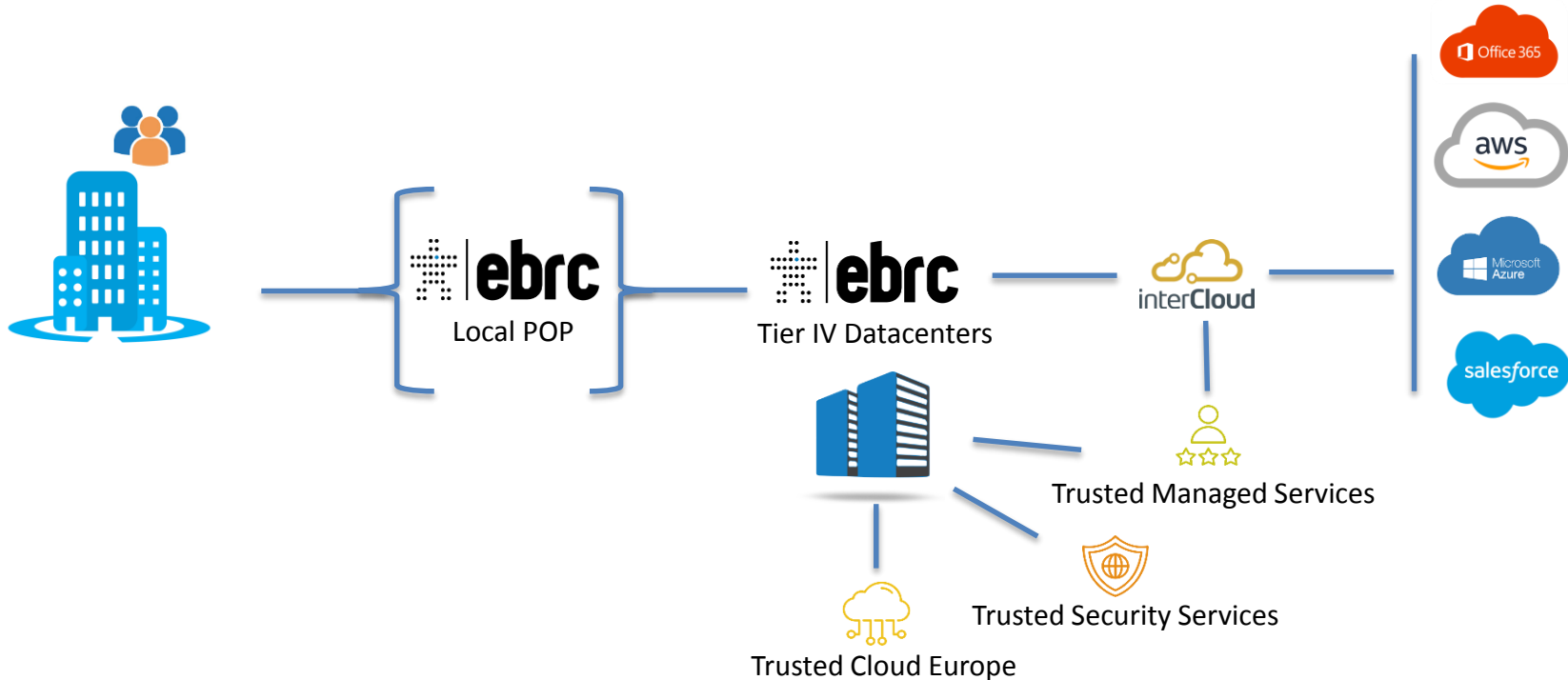
EBRC - Cyber-Resilience



1. Prepare
2. Identify
3. Protect
4. Detect
5. Analyze
6. Respond
7. Recover



Recap : How would your IT look like tomorrow ?





Thank you

Ludovic Gilles

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