

Ce que l' IOT exige des centres de données

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Technology forum



Vertiv – Nous nous connaissons !



VERTIV™

Vertiv en chiffres



CA 2017

3,9 Mrd. USD



EMPLOYEES

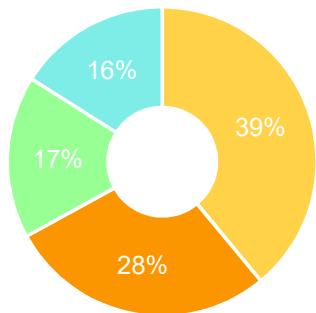
env. 20.000



Quelques clients

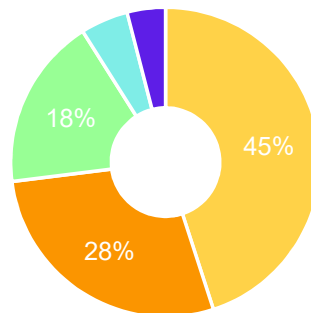
AT&T, Ericsson, Facebook,
Microsoft, Verizon, BMW, CERN,
Deutsche Telekom, Swisscom,
Siemens etc.

Portfolio



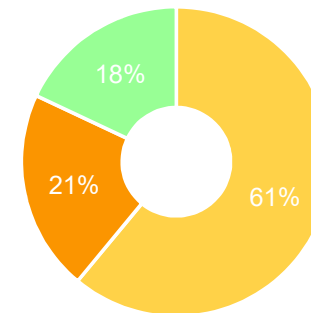
- Power Mgmt
- Services
- Infrastructure Mgmt & Solutions
- Thermal Mgmt

Présence



- US & Canada
- Asia
- Europe
- Latin America
- Middle East / Africa

Marchés

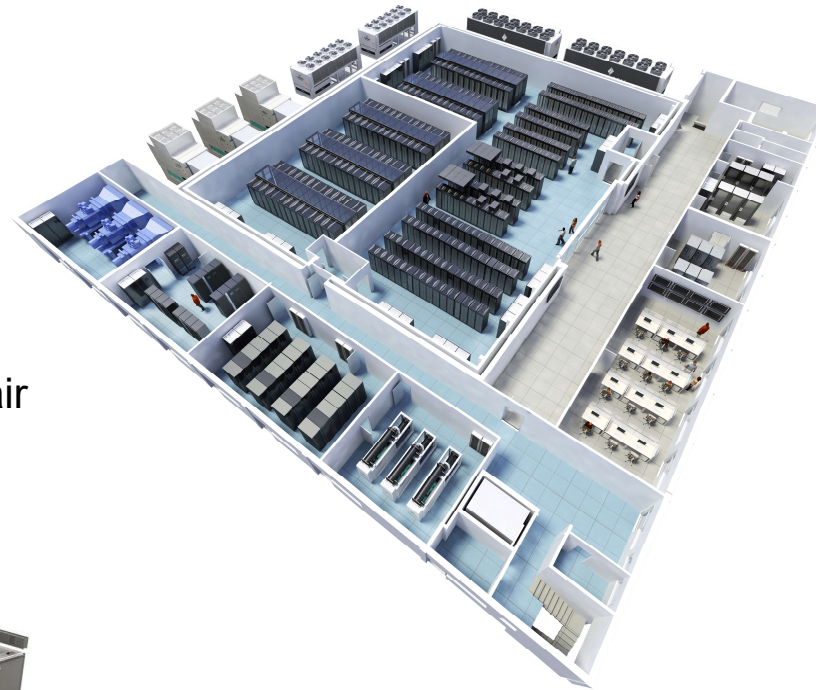


- Data Centers
- Communications
- Commercial & Industrial

Portfolio



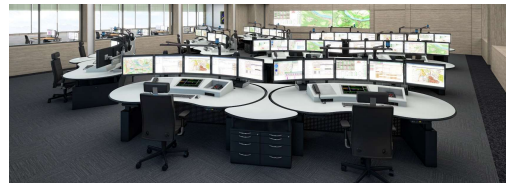
EFC – refroidissement indirect à air



AFC – KWS avec Adiabatique et freecooling



Racks, PDUs, confinement et cooling



Control Room



UPS-Onduleurs

Internet des objets et volume des données

tendances

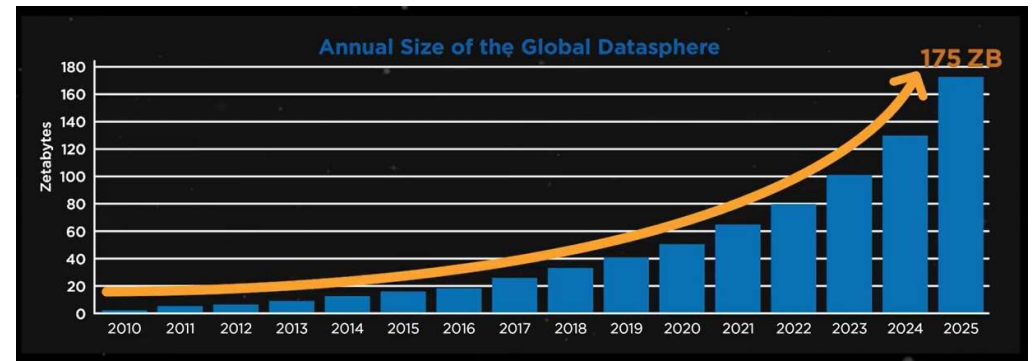
Internet des objets (IoT) Internet of Things?

Il a simplifié les capteurs, le réseau et le système qui traite les données des capteurs.

- Smart Home / Smart Building
- Industrie 4.0
- Santé
- Vente au détail
- Smart City
- Véhicules autonomes
- Smart Grid
- Intelligence artificielle / Machine Learning
- Et bien plus
- **Que sera la suite?**

Explosion du volume des données

D'ici 2025 le volume total des données dans le monde passera de 35 à 175 ZB soit 5x plus!



source: „The Digitization of the World – Data Age 2025“ Seagate

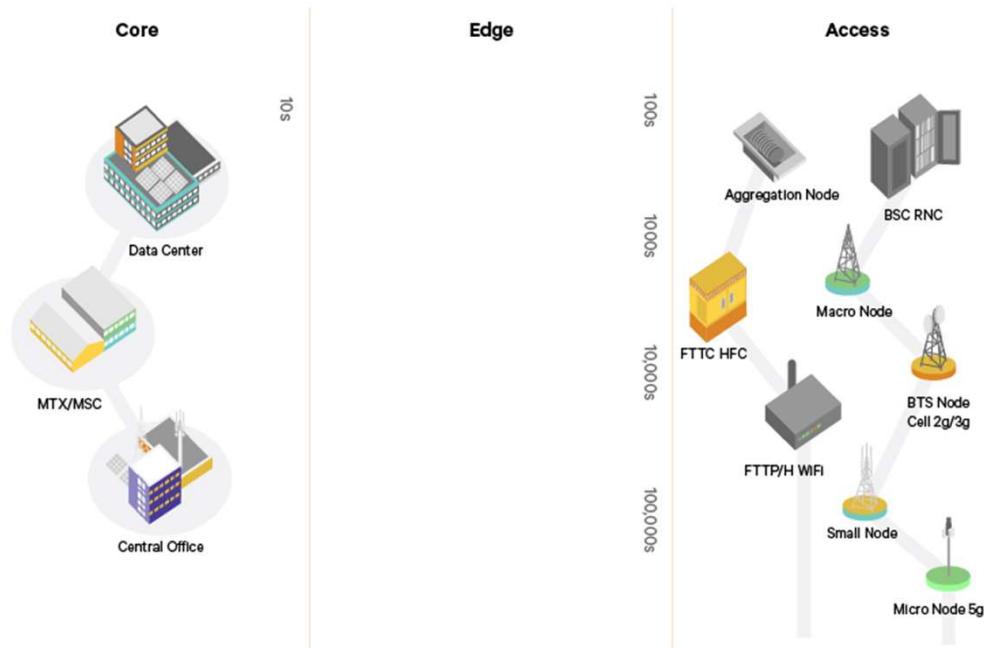
Et à quoi devrait ressembler l'infrastructure de notre data center??

Internet des objets, 5G et les infrastructures

5G le moteur des IoT

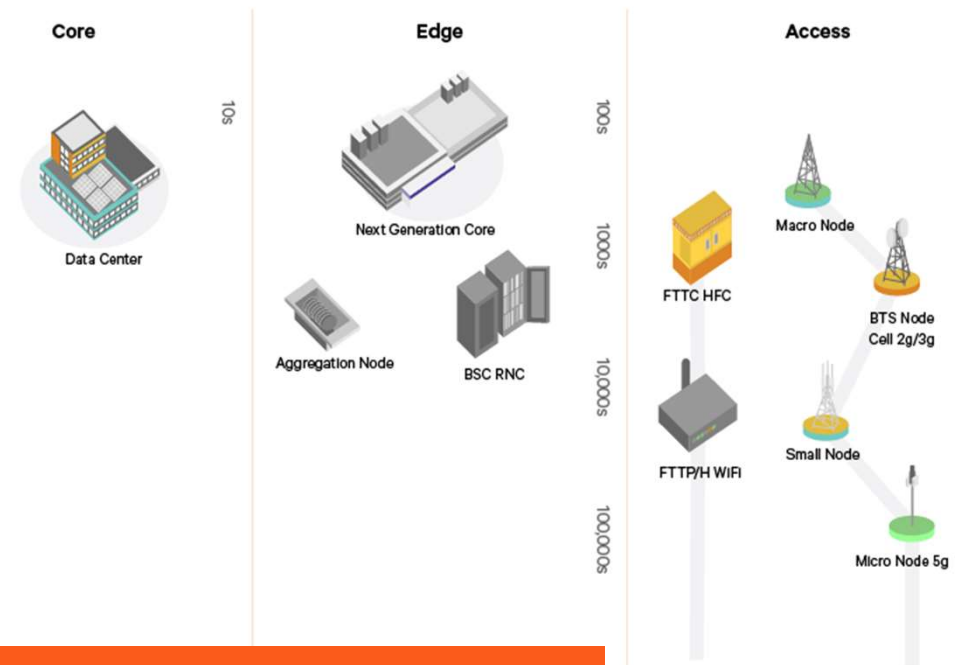
Avant:

Evolved Network Landscape



Après:

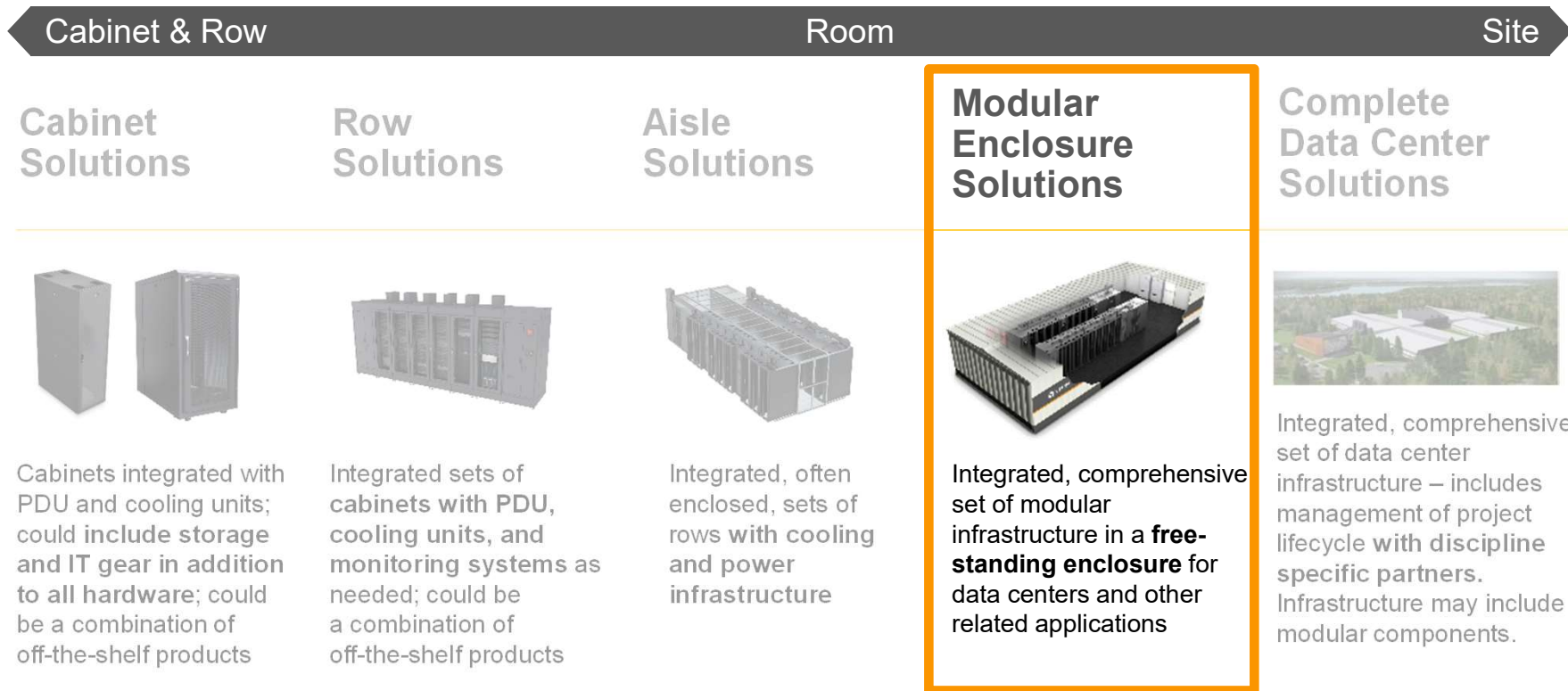
Evolved Network Landscape



Le développement du réseau Edge Network avec la 5G

Du Micro DC Smart Cabinet au Full Data Centers

Vertiv Solution Spectrum





 VERTIV

Smartmod preconfigured solutions



10-12
weeks
Shipment

- Designs optimized for cost and speed of manufacture without compromising quality
- Repeatable processes and simplified infrastructure reduce risk
- Configurations from 2-12 racks and from 40-90 kW

**Versus a custom-engineered prefab/modular design*

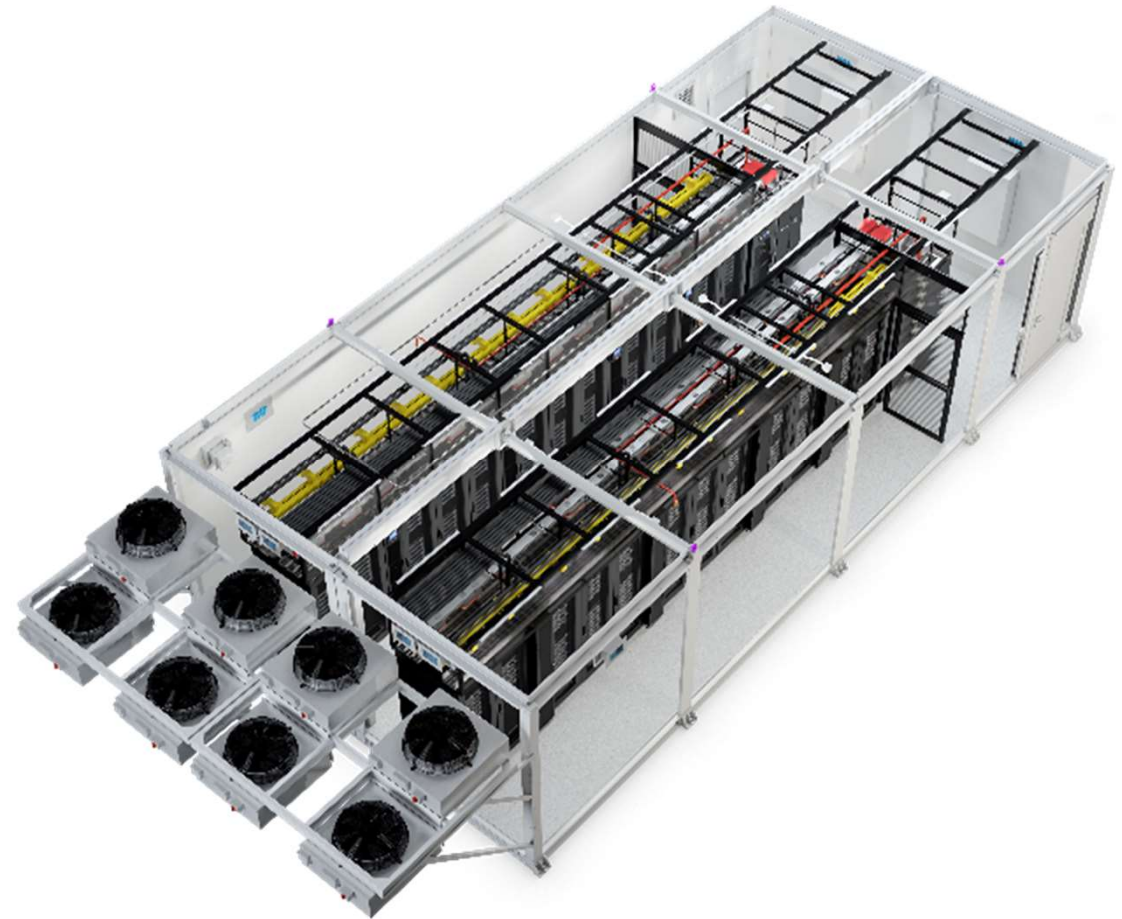
Smartmod Max



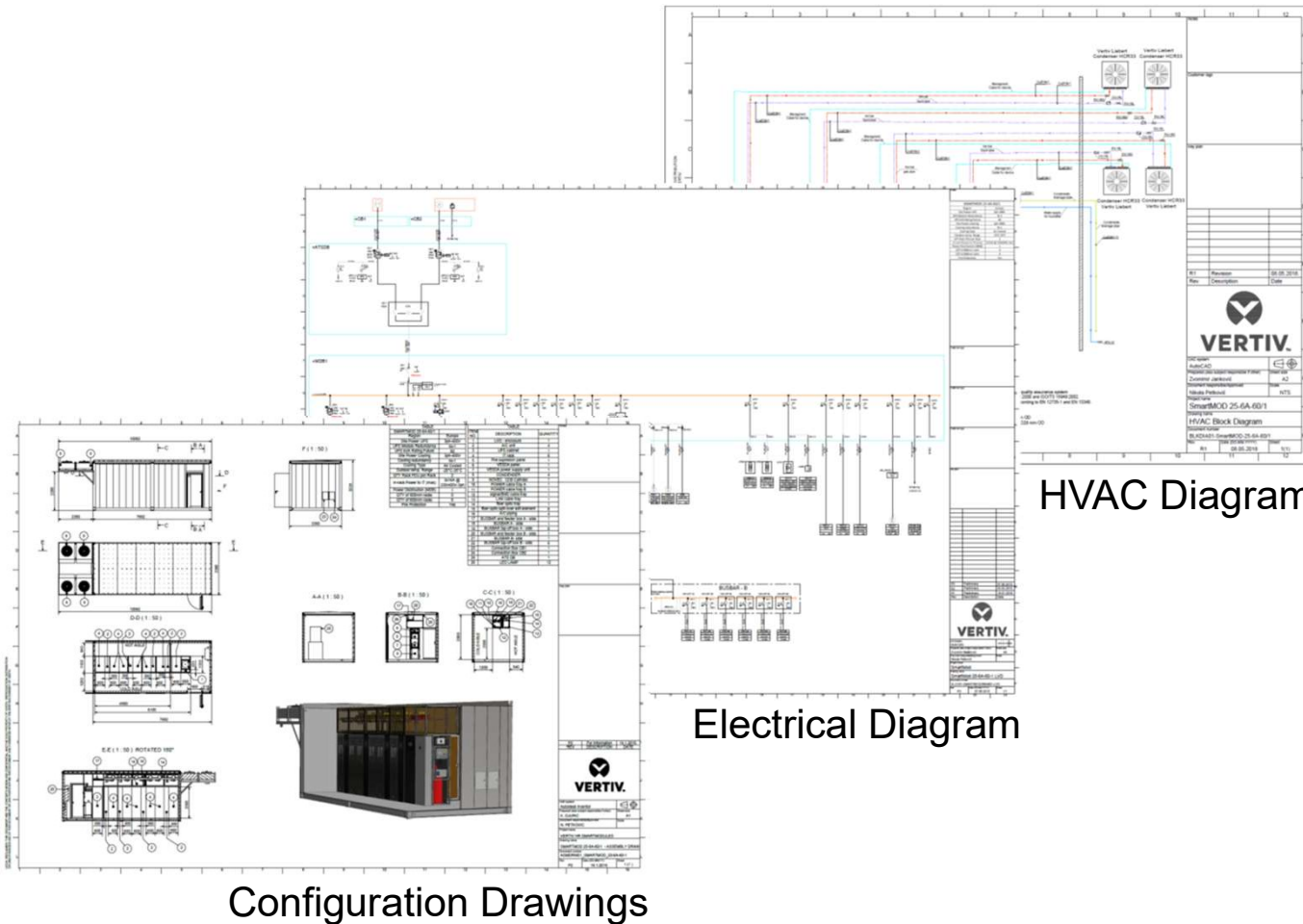
VERTIV™ SmartMod™ MAX– 1. Product overview

GENERAL EQUIPMENT:

- Outdoor enclosure
- UPS Options:
 - Liebert® EXL S1 120/160/200kVA
 - Liebert® APM 30/120kVA
- Liebert® CR021 + HCR33 (N+1)
- Fire suppression System (NOVEC 1230)
- Batteries
- Internal Lighting & Small Power DB
- Optional subsystems (Vesda, Access control, CCTV...)
- Dry contact panel



Available Documents for Sales Collateral



3. Building description

3.1 General building description

This is a proposal for prefabricated data center consisting of 1 (one) Datacenter module. All energy and data equipment is placed inside a prefabricated module built for the purpose.

As requested proposed prefabricated power modules will fulfill requirements and provide:

- Infrastructure required to support specified IT load (kVA) – up to 90 kVA in largest variant;
- N or N+1 redundancy for cooling;
- N, N+1, 2N or 2(N+1) redundancy for UPS.

3.2 Structural design

Structural framework will be made of high quality structural steel S355J0 per EN 10025.

Steel cladding will be made of S235JR steel or equivalent.

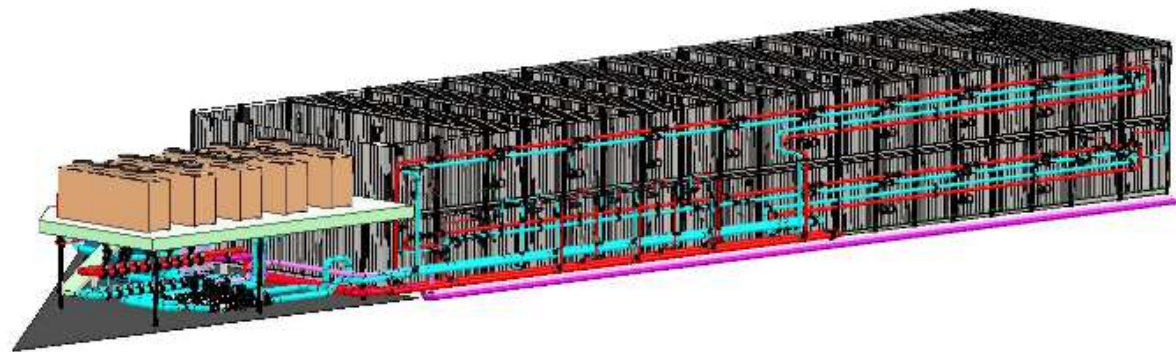
External steelwork will be protected by a corrosion protection system matching C3(H) acc. ISO 12944-2. Internal steelwork will have a protection system matching C2(M) according to ISO 12944-2.

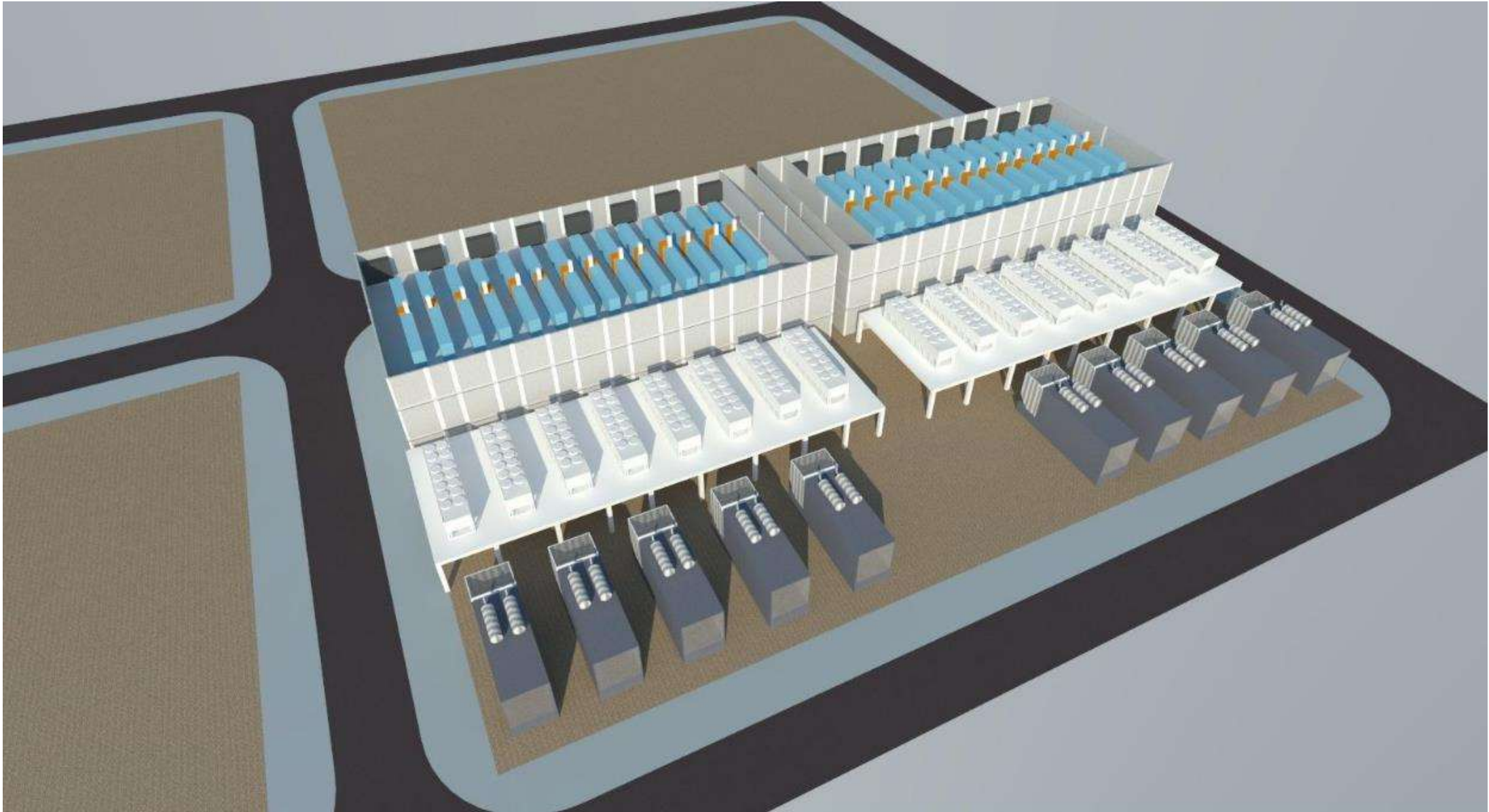
Material selection, specifications and detailing of the structural elements will be such as to provide optimum durability of the structure.

3.3 Prefabricated modules

The proposed solution of Data center consists of one standardized module.

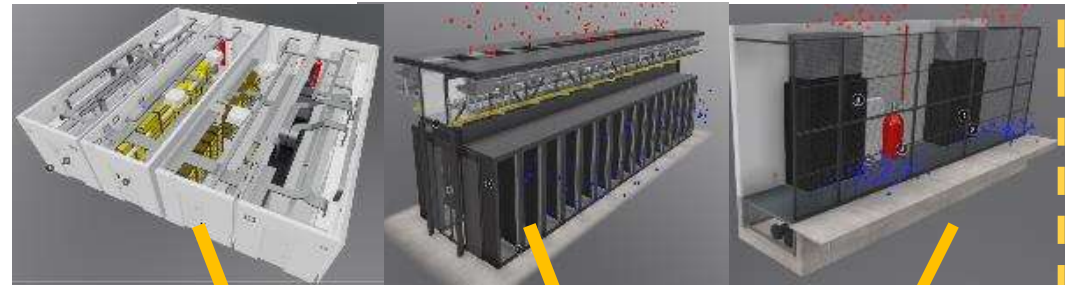
System Narrative

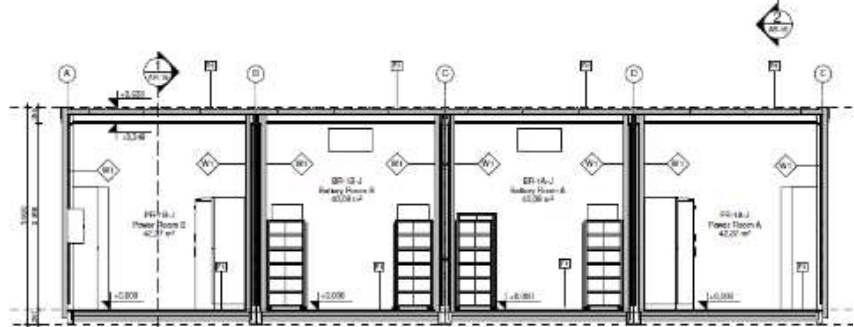
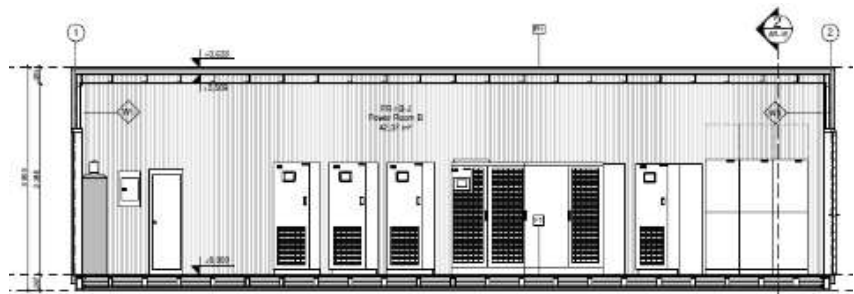
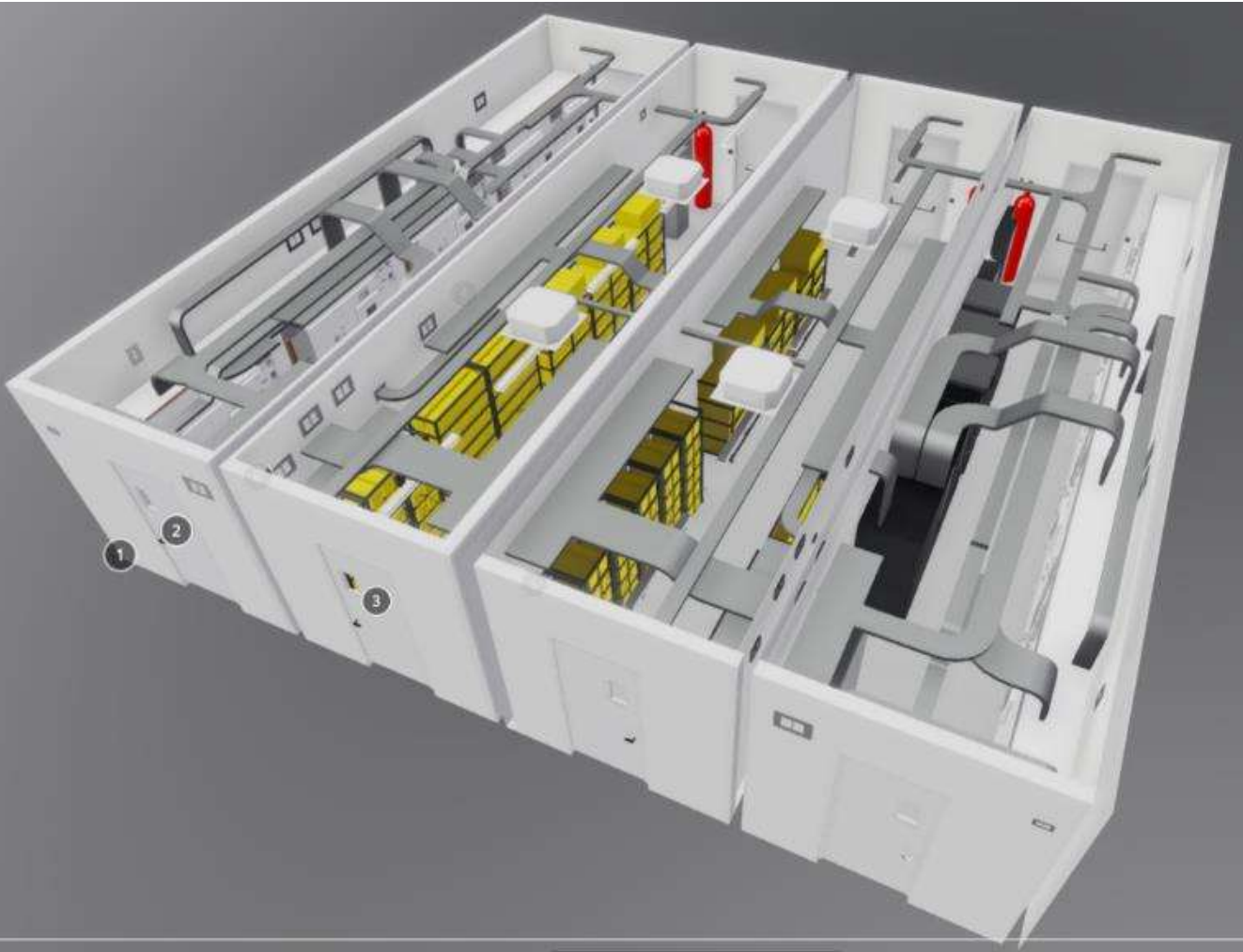


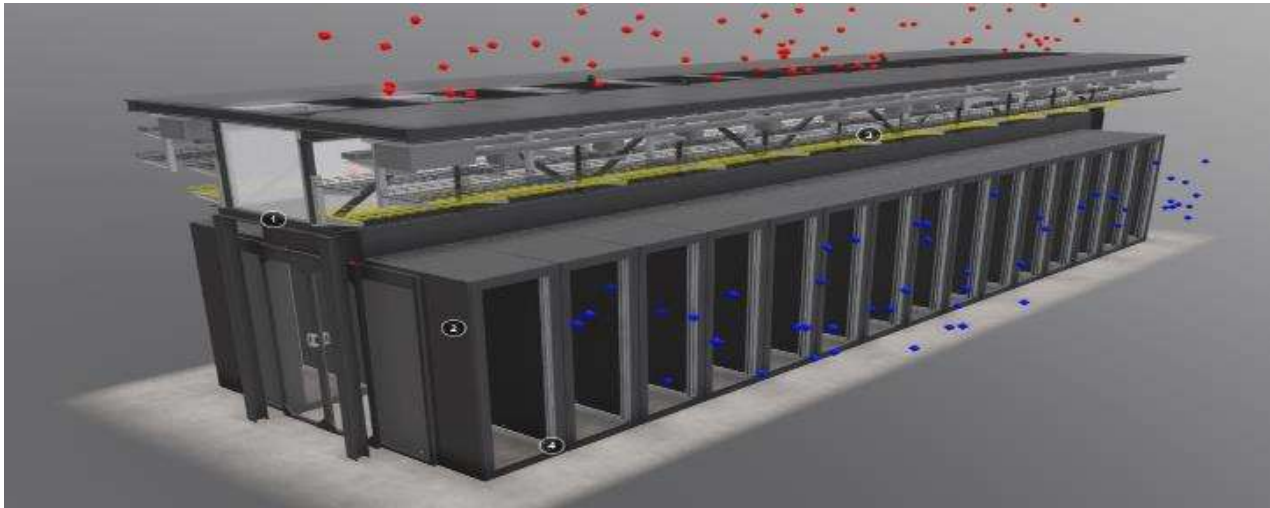


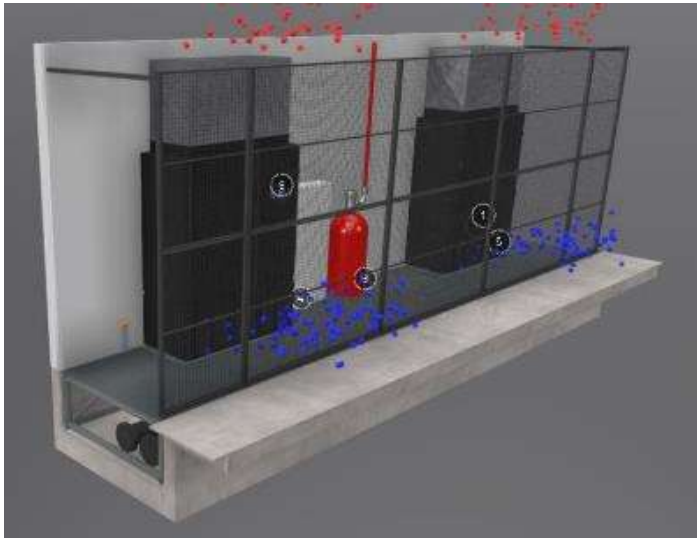


VERTIV Datacenter Building blocks











Merci de votre attention !
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