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# FLAP Market Stats and current Market Trends

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## Market Stats FLAP

## Definitions Supply

- Retailer colocation supply
   comprises fitted data
   centre space only; unbuilt
   shell phases of the data
   centre are excluded.
- Wholesaler colocation supply – includes both fitted and shell data centre space. Typically, wholesaler operators sell shell space which is built out to suit customers.

### Availability

- Retailer availability is based on fully fitted space that is vacant and available to sell.
- Wholesaler availabilityis based on all vacant space.

### Vacancy Rate

 Measured by available supply divided by total supply.

### Colocation takeup

 Data centre space sold at operational retail and wholesale colocation facilities in the relevant quarter.

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## FLAP datacentre markets record start for 2021!

- Supply: Q2 quieter after a record Q1
- High number of pre-lets: more take-up H2 forecast: 229 MW compared to H1: 141 MW
- Activity expected to regain pace in Q3 – challenges in supply chain for IT, mechanical and electrical equipment have continued to push out deals and deployments Confidential & Proprietary | © 2021 CBRE, Inc.

2,029 MW!

+ 17% compared to Q2 2020

**Colocation Total Supply** 

402 MW

+13% compared to Q2 2020

**Colocation Availability** 

48 MW

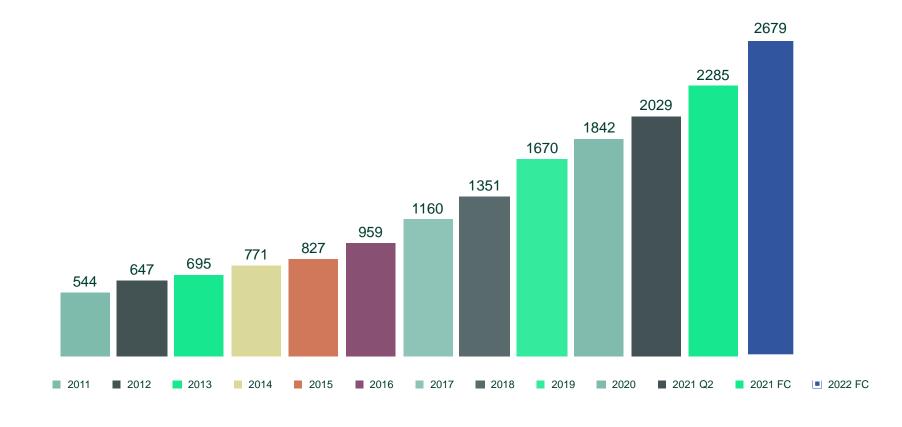
-48% compared to Q1 2021

**Quarterly Take-up** 

## A Rapidly Growing Market

Supply is now growing at twice the speed

- 2011-2016 (five years) 415 MW added
- 2016-2020 (four years) 883 MW added
- 2020-2022 (two years) 837 MW added



### Frankfurt

- Total supply: 500 MW
- Vacancy: 65 MW
- >100 MW to come online in H2
- ~ 100 MW take-up in H2
- Government to place constraints
- Opportunities: Q2 increasing interest cloud, gaming and Chinese hyperscale providers, enterprise and others
- Challenges: Possible government restrictions, increasing construction costs and lack of supply



## London

- Total supply: 810 MW
- Vacancy 184 MW
- Slight increase in demand from smaller colo deals – some ending up in wholesale facilities with pockets of supply to spare
- Managed service providers also expanding
- Increase in enterprise interest after Brexit and COVID-19
- Opportunities: Hyperscalers seeking additional supply – deals in Q3 to come up?
- Challenges –access to land and power and increasing construction costs



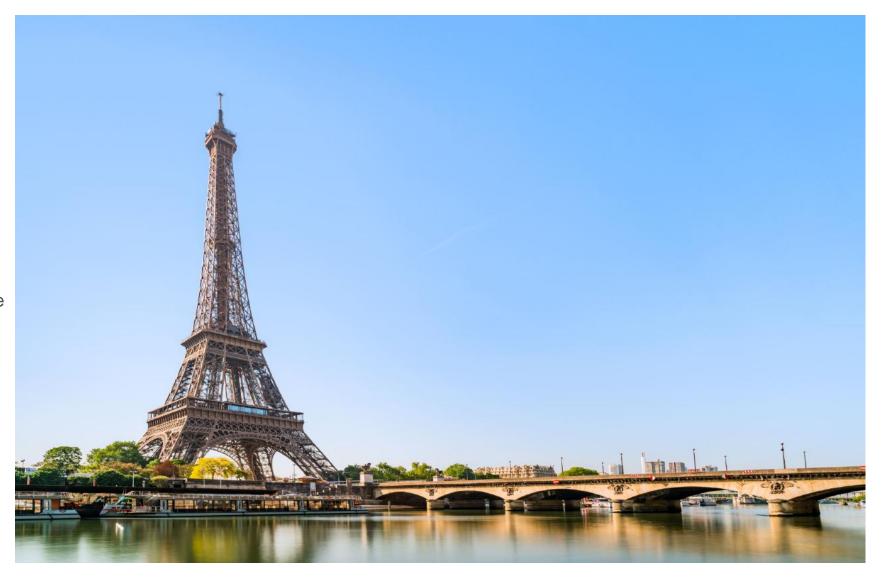
## Amsterdam

- Total supply: 446 MW
- Vacancy: 121 MW
- Several large pre-let facilities for cloud are scheduled around Schiphol-Rijk this year
- Only 23 MW of the 88 MW scheduled to come online for the year and only 12 MW of forecasted 70 MW take-up
- Opportunities: Increasing interest from cloud platform providers building out availability zones, AI, IoT, media and hosting companies
- Challenges: power, planning and limited hyperscale demand



## Paris

- Total supply: 273 MW
- Vacancy: 32 MW
- Record take-up in Q1 of 43 MW but only 4 MW in Q2
- Increased activity expected in H2
- Both hyperscale and enterprises are very active as well as government customers
- Opportunities: High number of sub-2MW requirements
- Challenges: Competitive site selection and access to power



#### Market Highlights

Continuous growth and individual pledges regarding Sustainability announced during Q2

 Equinix announced 32 xScale data centres with GIC, 19 of which are in Europe. Frankfurt, Madrid, Dublin, London, Madrid, Helsinki, Milan and Warsaw

- In the London market Global Technical Realty announced a 40.5MW campus in Slough due online in Q4 2022 and Iron Mountain announced a second data centre LON 2 (27MW) also in Slough. Pure Data Centres announced a 50MW campus at Borehamwood
- DATA4 Group secured €620m in debt financing to pursue growth across Europe including entry into Warsaw with a 50MW campus
- Interxion, a Digital Realty Company, broke ground on its fourth facility in Marseille and connected its portfolio of data centres in London with fibre creating a virtual campus
- NTT announced new data centres at its campuses in Frankfurt, Bonn and Berlin

#### Climate-conscious Commitments and Pacts

The European Climate Neutral Data Centre Pact took its proposals to the EU with a pledge to make the sector climate neutral by 2030

Providers that made individual pledges include:

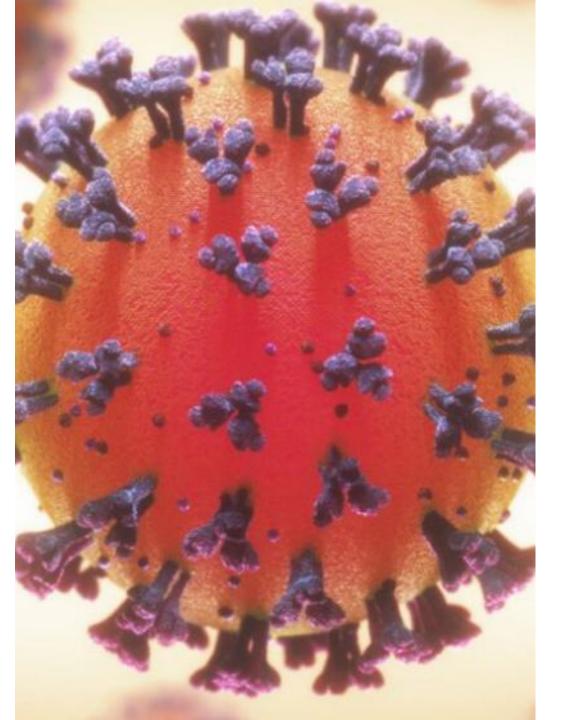
- Equinix commitment to be climateneutral across operations and supply chain by 2030
- CyrusOne/Colt 100% renewable power
- DATA4 joined French Planet Tech'Care manifesto to reduce environmental impact
- Iron Mountain tracking renewable power use by the hour
- Digital Realty signed up to Science-Based Targets Initiative for sustainability



## Market Trends

MARKET TRENDS

Covid-19 emphasised things... and created challenges

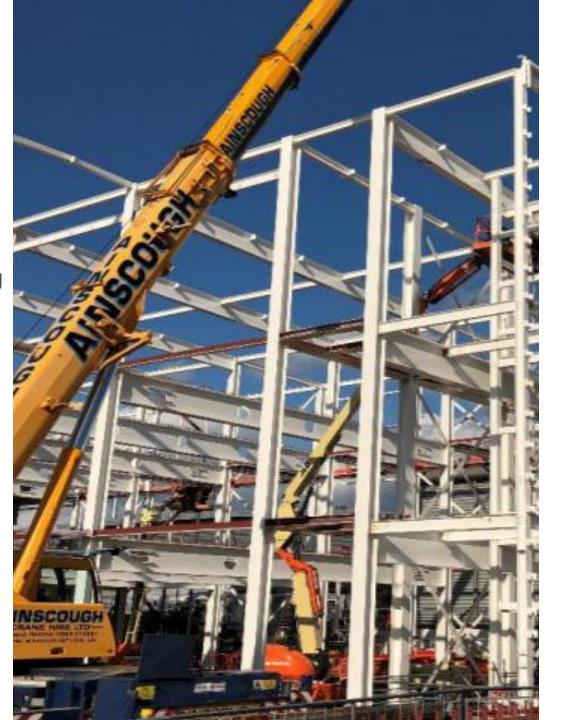


- Demand for connectivity-focused colo and hyperscale wholesale supply grew
- Increased investor interest
- Pushed enterprises to rethink IT strategies, with a focus on cloud
- Access to sites/ new build pipelines
- Delayed customer/ enterprise interest
- Increased competition for M&A, land and for customers!

MARKET TRENDS

Supply requirements are growing...

... and Demand is shifting



- Campus growth
- Higher density builds
- Introduction of build-to-suit
- Increasing appetite for investor and provider investment
- Hyperscalers accounted for around 80% of leased DC demand and will continue to do so
- Enterprises started leveraging colo as a cloud onramp
- Colo:s a vehicle for connectivity

MARKET TRENDS

## What is happening right now?



- Business models are changing
- Build-to-suit is growing
- Hyperscalers are encouraging build-to-suit and are exploring selfbuilds further

## Market overview – key projects

#### GlobalConnect:

Opened its new data center in Aarhus in 2020. They operate most colo sites in Denmark.

#### **Apple Data Center:**

First phase expected to become operational by 2021.

#### **Bulk Data Center:**

Modular data center, fully operational. Capacity for future

#### Viking Link

UK-Denmark Electricity Cable

New Jersey-Denmark

#### **COBRAcable**

Netherlands-Denmark

expansions.

#### **HAVFRUE Network**

Connectivity cable

Electricity Cable

**Google Data Center:** 

Purchased 75 hectares of land in Fredericia. Phase 1 operational.

#### Penta Infra (Sentia)

Acquired Sentias Data Center in Copenhagen.

#### Microsoft:

#### **Active builds**

#### Google land purchase:

Google's second purchase of 131 hectares of land near Aabenraa

#### SAP land purchase:

SAP purchased two sites in Aabenraa municipality in 2019.



## Increasing investments and M&A activity

Sentia Denmark	DigiPlex	Bulk Infrastructure	Google	Facebook
Penta Infra has announced its expansion into the Nordics (announced 14th June 2021)	Now owned 100% by IPI Partners	Partnership with BentallGreenOak (BGO), a global real estate investment manager, as a strategic partner and investor (announced 22 <sup>nd</sup> Dec 2020)	Google buys additional land in Fredericia – to be able to expand their campus in Denmark  (announced 12th October 2021)	Facebook buys 212 hectar land in Esbjerg
	(announced 27 <sup>th</sup> July 2021)			(announced 13th Oct 2021)
	Acquired land for expansion in Copenhagen area			
	(announced 22 <sup>nd</sup> Feb 2021)			

## Denmark dubbed "Best place to build a data centre"



#### Denmark tops the Data Centre Ranking 2020

Rank	Country	Overall Index Score
1	Denmark	78.70
2	Sweden	78.25
3	US	75.96
4	Netherlands	75.60
5	Finland	75.39
6	Norway	73.70
7	UK	70.03
8	Canada	70.03
9	Germany	69.91
10	Estonia	66.15



Tak!
Takk!
Thank You!
Tack!