

Quicktake

 FTIDELTA™

Europe's Data Centers demand has grown exponentially with the rise of content and cloud

KEY DC DEMAND DRIVERS



Move to the cloud



Demand for content
(Video, social media)

Amazon Web Services
Azure
Google Cloud
Hyperscaler expansions



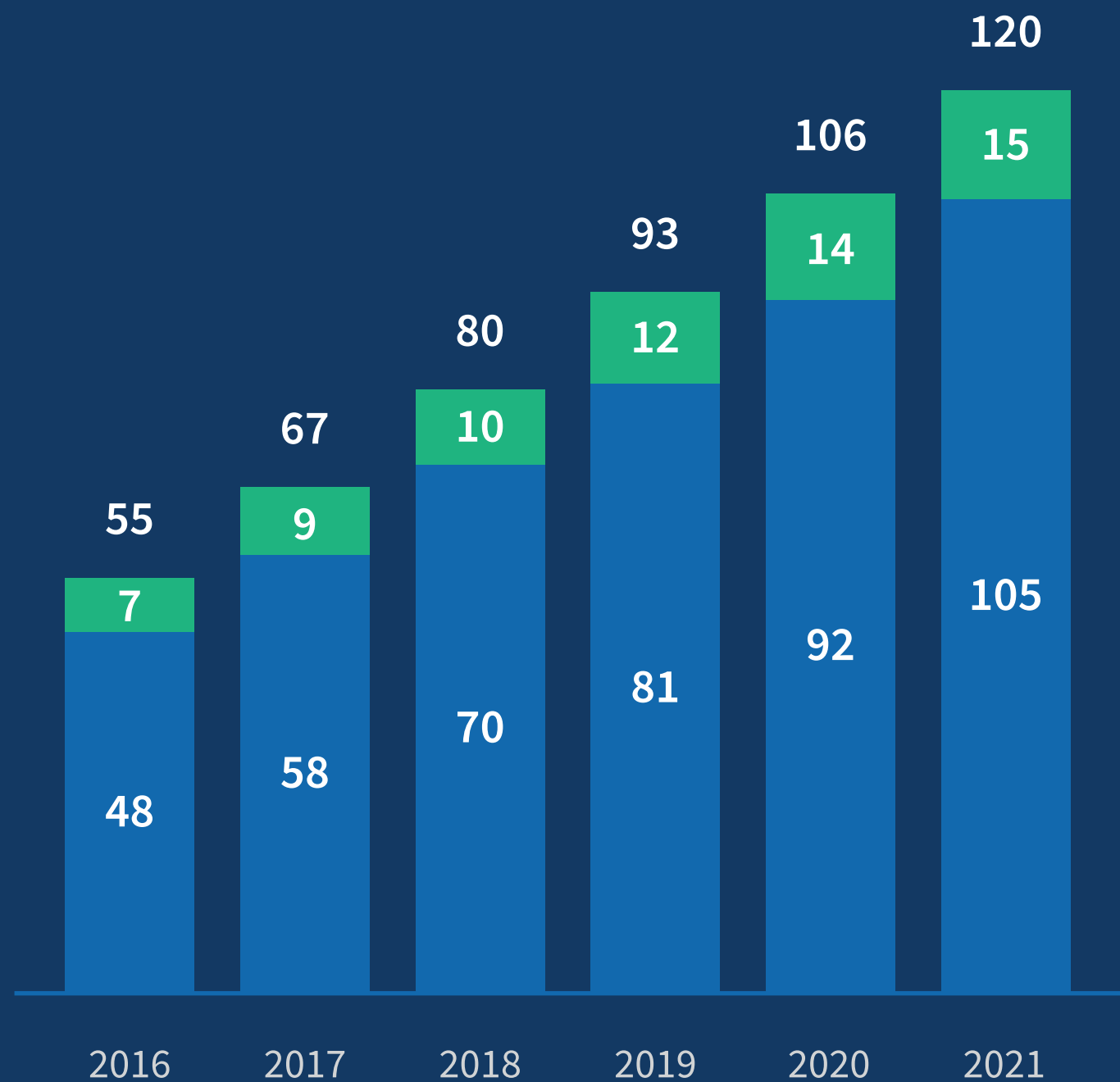
DC WORKLOADS - EUROPE

(mn)

Western EU

Central EU

CAGR
'16 - '21



Source: Cisco Global Cloud Index 2018

Note: A server workload and compute instance is defined as a virtual or physical set of computer resources, including storage, that are assigned to run a specific application or provide computing services for one-to-many users.

We are observing a trend towards expansion in Tier II cities

FLAP-D



Tier II cities present an attractive opportunity for further growth in the DC space

FAVOURABLE TIER II MARKET CONDITIONS

Cost & Availability of power



- Cost of power **approximately half** of FLAPD markets (0.125\$/kwh vs 0.232 \$/kwh)
- City grids less loaded (power capacity available)

Government incentives



- Governments are incentivizing DC developments
- Example lower **taxes and incentives for using RE** in:
 - Nordic markets: Reykjavik, Oslo & Stockholm
 - Marseille in France

Space availability & Location



- Several well positioned tier II city locations, e.g.
 - Marseille** – MENA subsea cable connectivity access strong, high-capacity links with southern France
 - Oslo** – government incentives and access to affordable energy, low cooling necessities and connectivity

We have narrowed down the Tier II opportunity to a selection of 18 cities on 6 key factors

FACTORS



Economy size



Hyperscaler expansion plans



Connectivity access
(NLD & International)



Gov. support
(incentives)



Renewable / low cost energy access

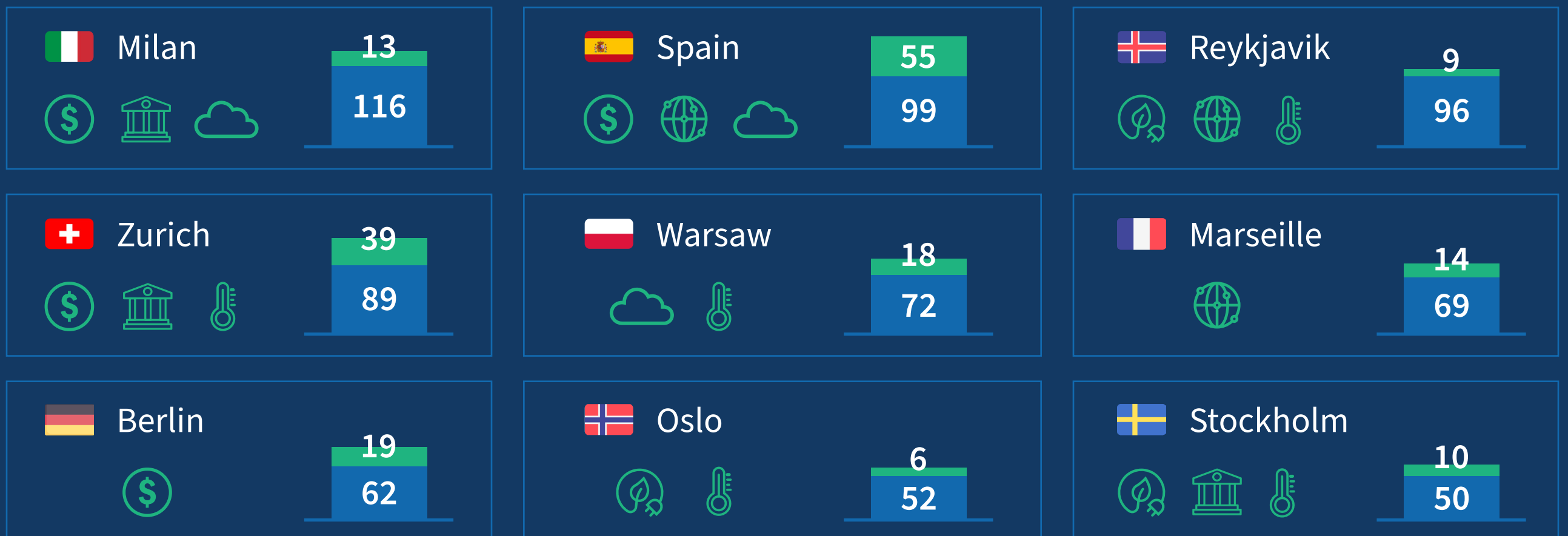


Environ. conditions
(e.g., climate, natural disasters)

TOP 9 TIER II CITIES IDENTIFIED

■ DC Power installed (MW)

■ DC Power in the pipeline (MW)



We see four potential ways investors can take advantage of the trend



Key questions arise for infrastructure players

1

What is the growth path ahead for FLAP-D?

2

Which secondary cities will emerge as key datacenter locations?

3

What are the key assets in these Tier II cities/markets?

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