Gli Edge Data Centers,
Il Computing Continuum
Ed il Progetto Rai Way Edge

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Why Investors are Interested in Data Centers?

Strong investor appetite and a key factor for digital transformation, driven by:

- **Demand for Large National DC HUBs**
  - Digitalization of the world
  - Demand for Cloud Services
  - Streaming

- **Demand for Edge Data Centers**
  - New Technologies
  - AI/IOT/5G
  - Proximity Services
  - Edge Computing
TECHNOLOGIES

- Regional Colocation
- Cloud Gaming
- Content
- Multi Cloud
- Hybrid Cloud (Private+Public)
DC Sustainability: From Net Zero to Net Positive

Energy Demand Reduction
- Heat Re-Use
- Move Large Storage/HPC North

New Technologies
- Solar – Wind
- Hydrogen – Fuel Cells
- Eff. AI Cooling/Lighting/Vent/Airco
- Immersion Server Cooling
- Water Waste - E Waste
- Modern Sleep Fast Chipsets/SSDs
- GPUs and TPUs instead of CPUs
- Recycled Materials
- Carbon Offsetting
- Global Reporting Initiatives
EDGE APPS

Source: STL Partners
Applications @ the EDGE

Value of edge cases
(By size of TAM by 2030)

- Low latency/Real Time
- Ultra Broadband
- Computing/CPUs/GPUs/TPUs
Hyperscale Data Center Market - Italy

Main current premises and development pipeline in Italy divided by operator

*The cluster “other” includes all the premises/operators with total power installed >10 MW.

**Please note that the chart shows IT load power for the operators already present while for future developments on which specific data have not been disclosed, a PUE of 1.4 has been assumed to reach the represented figures.

Source: CBRE
Main current premises and development pipeline in Rome area divided by operator

* The cluster “other” includes all the premises/operators with total power installed >3 MW.

**Please note that the chart shows IT load power for the operators already present while for future developments on which specific data have not been disclosed, a PUE of 1.4 has been assumed to reach the represented figures.

Source: CBRE
Computing Continuum: Network of distributed and interconnected Co-location Data Centers

Colocation Data Centers distributed throughout Italy, divided between:

- **National Hyperscale Colocation Data Center, in Rome**, to ensure scalability and customization (40 MW)
- **Network of 18 Regional Colocation DCs**, to have presence in main Italian city
- **Edge DCs**, to meet the needs of **proximity** and **low latency**
- **EDGE CDN**

Proprietary, high-quality, carrier neutral and interconnected national backbone
A proprietary infrastructure widely distributed throughout Italy

Guaranteed high quality, low latency times and high reliability

Carrier neutrality guaranteed by private and public peering with most of the main Italian ISPs

National And Local Direct Private and Public Peering with ISPs and Mobile providers

Both NOC and Customer Care dedicated in Italy
RAI WAY WILL PROVIDE PURE COLOCATION SERVICES

**CORE SERVICES**

- Housing
  - Shelf / Rack / Cage / Data Hall / Multiple Data Hall
  - Proprietary fiber backbone and internal private network
  - Connectivity: Dark Fiber and/or Lit Fiber
  - Connection vs main ISPs / IXPs

**ADDITIONAL SERVICES**

- Smart Hands support
  - Configurations
  - Troubleshooting
  - Hardware Management

- BareMetal
  - Hardware rent and housing (e.g., Server, ...)

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**CORE SERVICES**

**ADDITIONAL SERVICES**

**BareMetal**
Rai Way Edge Difference

Italian
Data Sovereignty
Computing Continuum
  Distributed/Analytics-Real Time-Low Latencies
  Centralized/Statistics-HPC-Storage
Carrier Neutrality
Edge CDN
Sustainability
Thank you.

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