

IT NOG 2

Google's peering infrastructure diversification plans in Milan

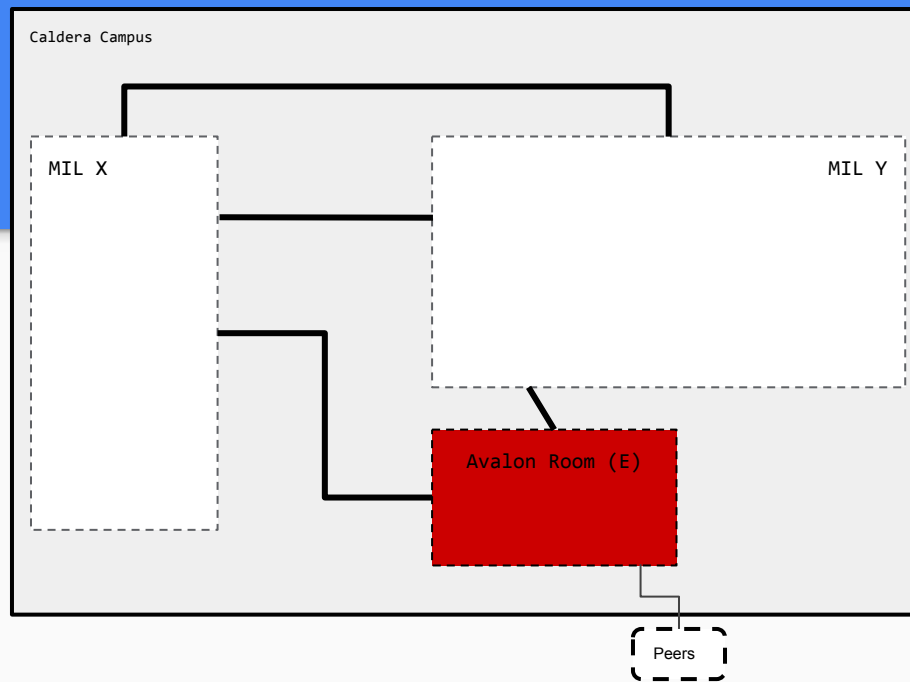
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Google presence in Milan

Private Peering Facilities

Facility ▼	Country
ASN	City
Netscalibur Milan	Italy
15169	Milan

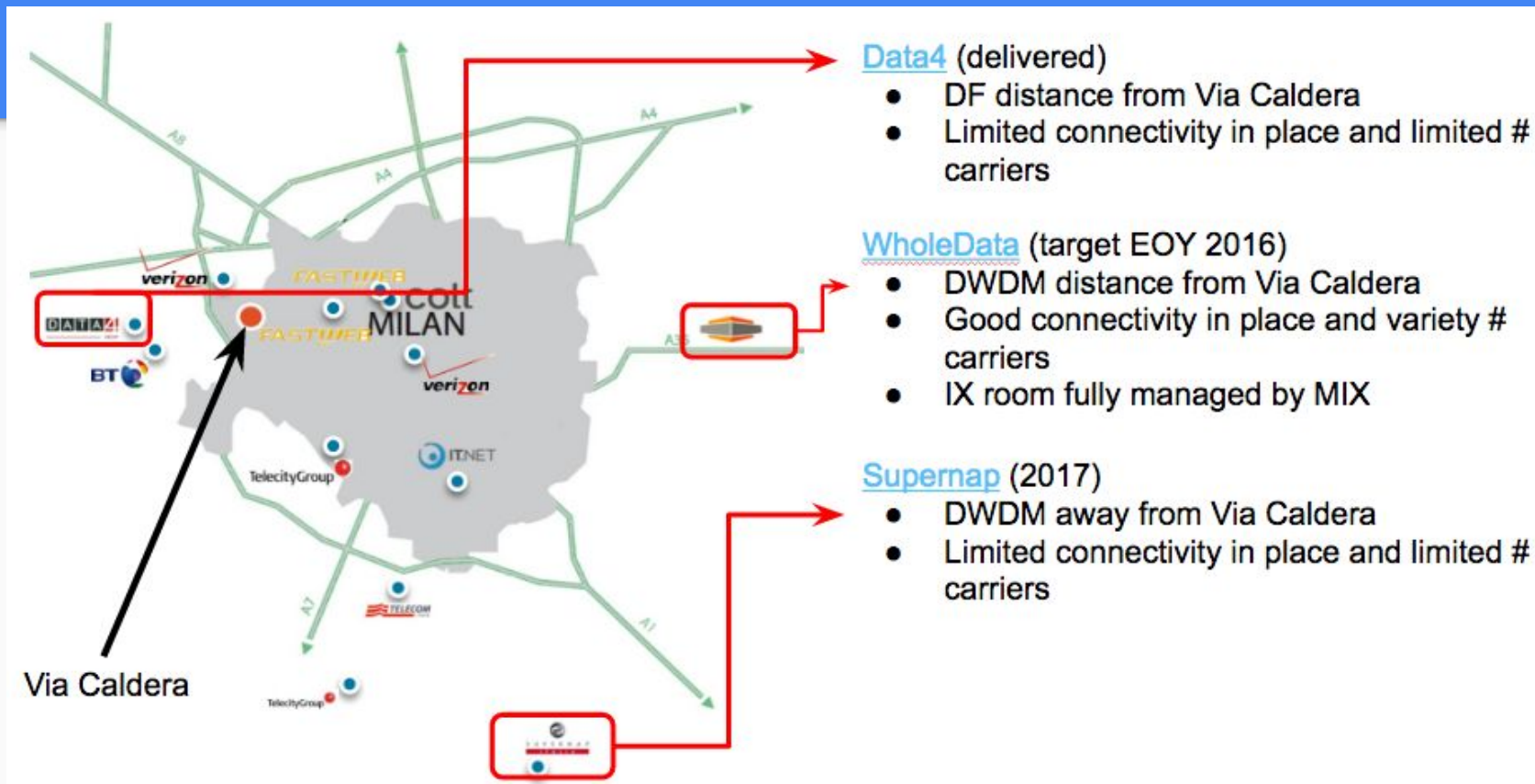
- Peering demarcs in [Avalon room](#) - formerly Netscalibur, formerly Unisource.
- 4 peer-fronting routers.
- Electrical diversity across 2 failure domains.
(physically diverse : different buildings, gensets, cooling and UPS).
- Successful business continuity despite plenty of operational issues.



Google challenges in Milan

1. Avalon Room is a SPOF not only for Google but for the whole Italian IP market.
2. Limited room to scale more.
3. No clear alternative DC / center of gravity to peer in Milan.
No clear alternative neither for Google nor for peers to diversify within Milan.

2016, the year of datacenter diversification in Milan ?



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NO ! *

* = disappointment (noun) : Receiving no likes
on a witty status update.

No major change in 2016

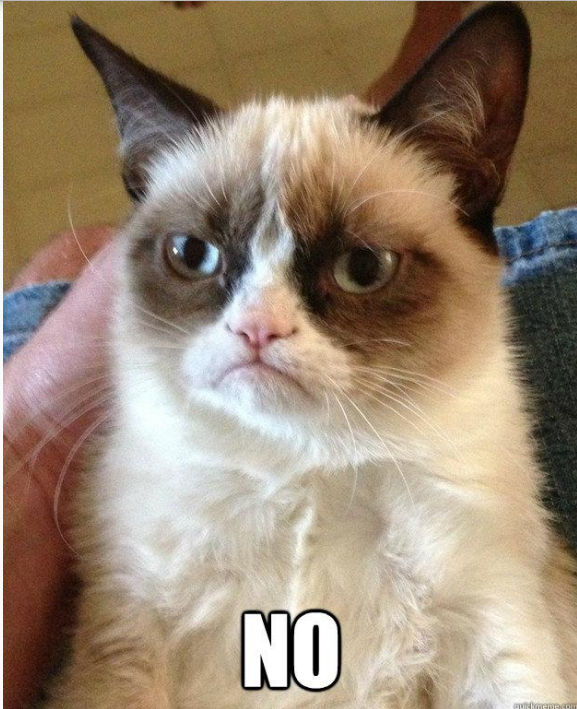
1. Still no clear alternative DC / center of gravity to peer in Milan.
2. Only 1 (Data4) out of 3 DC completed in 2016.
3. Uncertain roadmap : unclear for now whether all those 3 DCs will be completed.



Impact on Google's scaling and diversification efforts.

What impact for Google ?

Is that really all that bad ?



Mostly a time issue.

- We'll have more options to scale our interconnects from Q1 2017.
- We keep diverse on the Caldera Campus.

Google's peering infrastructure diversification strategy

- Google remains in active listening mode to the signs from the market.
- Google doesn't have a site preference.
- Short-term goal : Google discusses with peers their options to diversify from Via Caldera. Better visibility about DC completion expected from mid-2017.
- Mid-term goal (from EOY 2017) : select the most popular winner site.
- Long-term goal (after 18+ mths) : delocalize some of our infrastructure to that winner site and scale in a fully redundant site.

Have your say !

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Dear Google,

My ASN is ASN₁₂₃₄. I would like to meet you in :

- Supernap
- Data4
- Wholedata
- Caldera Campus only
- Other

Thank you !
Your peer.

Thanks for your
participating

