



MILAN INTERNET EXCHANGE

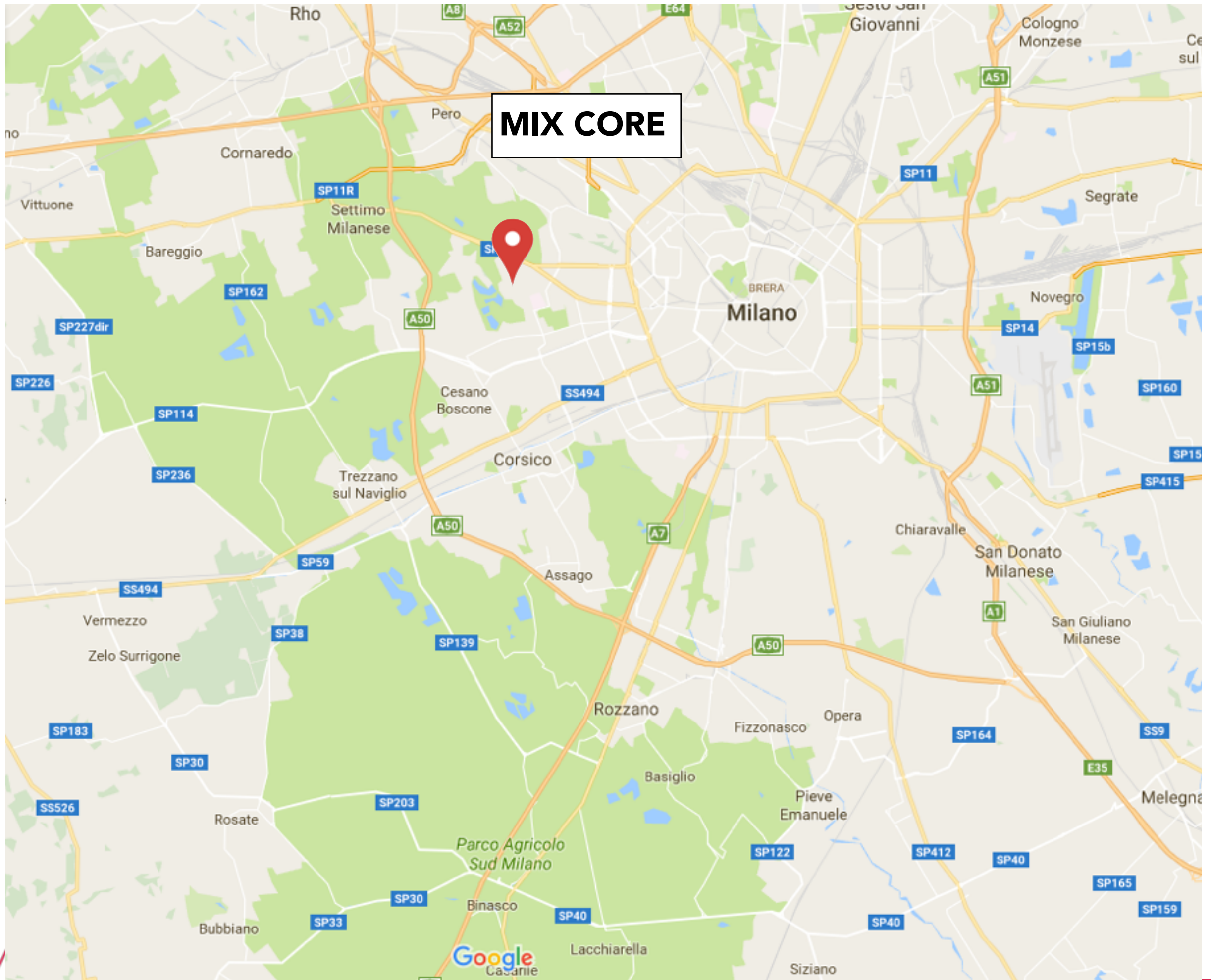
MIX at a glance

Statistics

- ▶ 180 ASNs (~130 italian, ~70 unique)
- ▶ 250+ active peering ports
- ▶ ~160k BGP routes
- ▶ 390 Gbps peak traffic



MIX CORE



MIX CORE

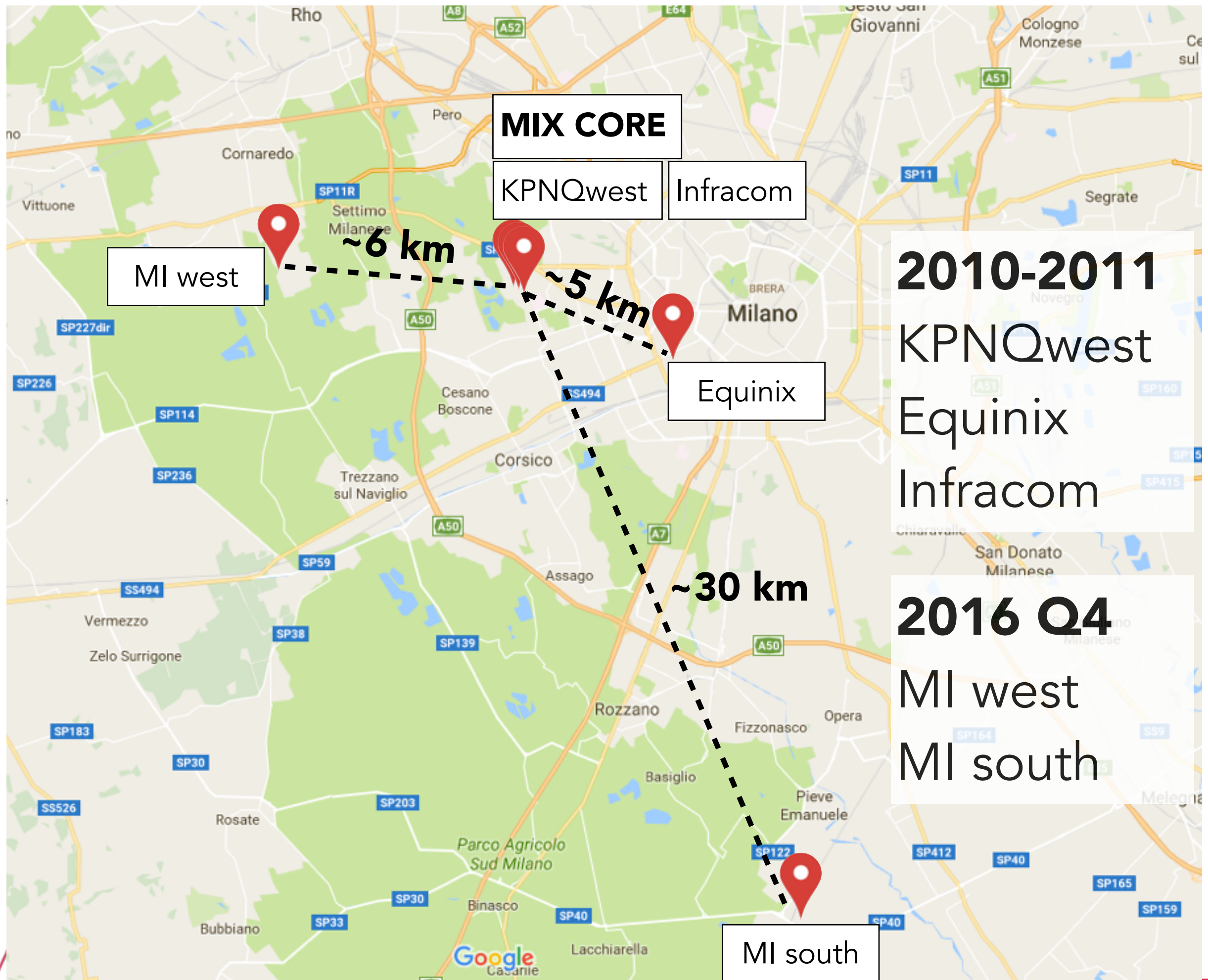
KPNQwest

Infracom

~5 km

Equinix

2010-2011
KPNQwest
Equinix
Infracom



MIX CORE

KPNQwest

Infracom

MI west

~6 km

~5 km

Equinix

~30 km

2010-2011

KPNQwest

Equinix

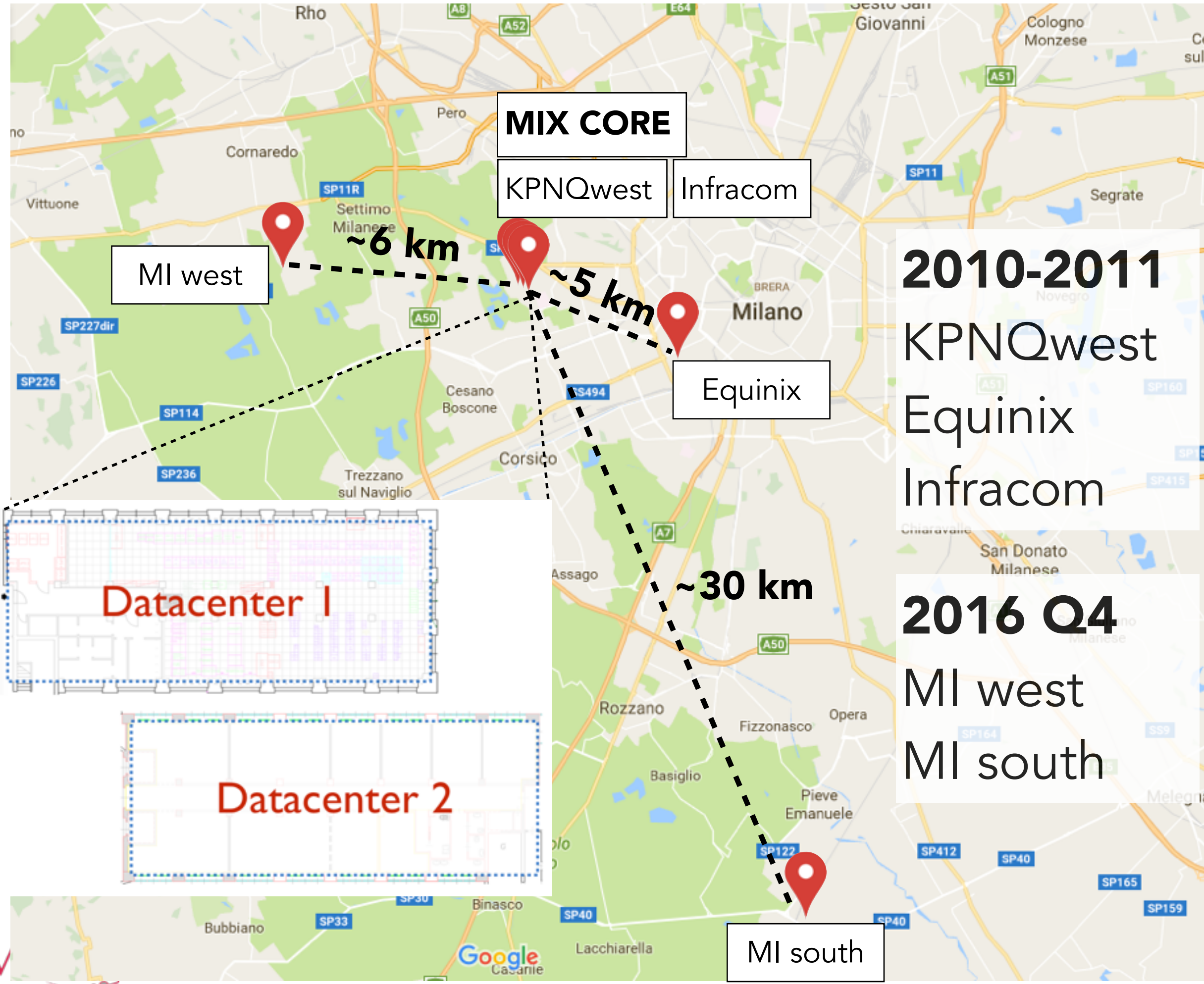
Infracom

2016 Q4

MI west

MI south

MI south



MIX CORE

KPNQwest

Infracom

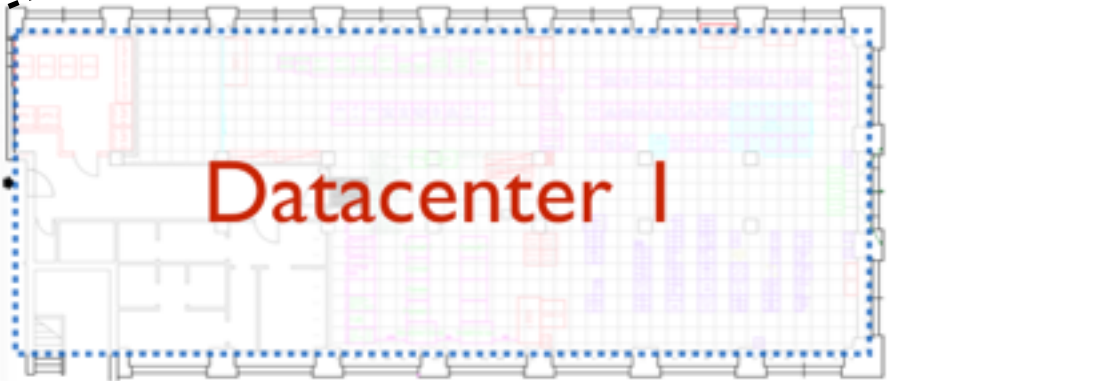
MI west

~6 km

~5 km

Equinix

2010-2011
KPNQwest
Equinix
Infracom



~30 km

2016 Q4
MI west
MI south

MI south

Datacenter today

Datacenter

- ▶ ~400 sqm
- ▶ 8 cooling units
- ▶ 4 UPS units
- ▶ 4 power panels
- ▶ 2 generators (250 kVA)
- ▶ 2 independent power feeds
- ▶ Dedicated room for batteries & UPS
- ▶ Open-IX OIX-1 certified
- ▶ ISO 27001 (closing)

2008

~

mid 2016

Office space

Datacenter evolution



A detailed floor plan of Datacenter 1, showing a large rectangular area with a grid of server racks. The plan is divided into several sections, with some areas highlighted in red, green, and blue. A dashed blue line outlines the perimeter of the main server area. The text 'Datacenter 1' is overlaid in large red font.

Datacenter 1



A floor plan of Datacenter 2, showing a large rectangular area with a grid of server racks. The plan is divided into two main sections: 'First phase' and 'Second phase'. The 'First phase' is outlined in yellow and the 'Second phase' is outlined in blue. The text 'Datacenter 2' is overlaid in large red font.

Datacenter 2

First phase
Q4 2016

Second phase

2016
~
onward

Medium
voltage
cabin



Two new **1.2 MW**
diesel generators



DC at its full capacity

- ▶ 900 sqm total
- ▶ Up to 150 AC racks
- ▶ Up to 100 ETSI racks
- ▶ Meet-me room



Switching platform

Brocade (formerly Foundry) since the beginning

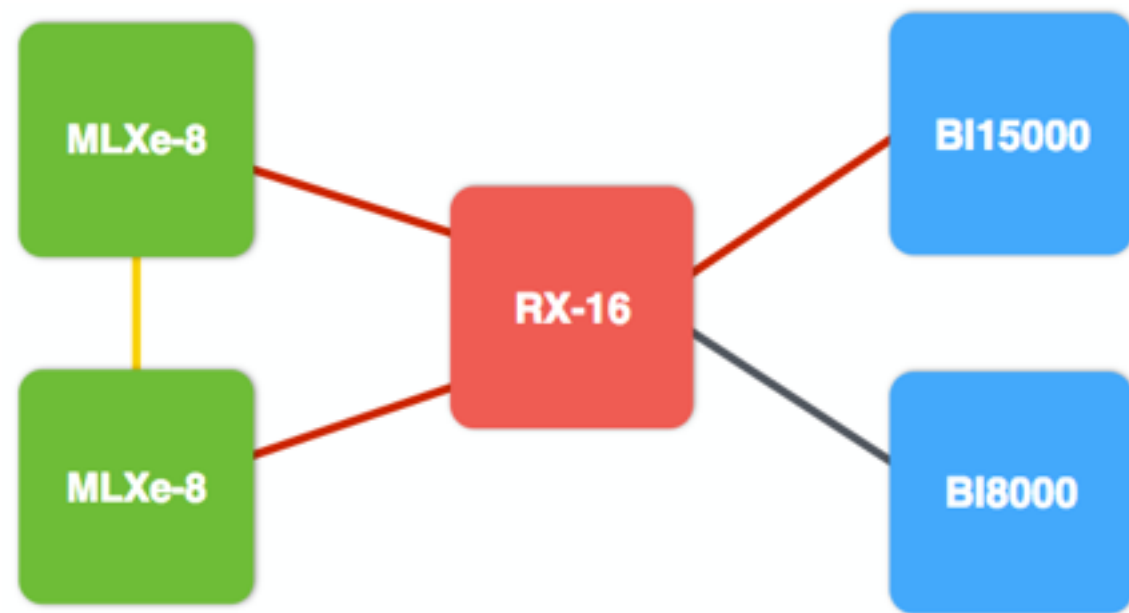
Different devices and configurations over time



Needed consolidation for:

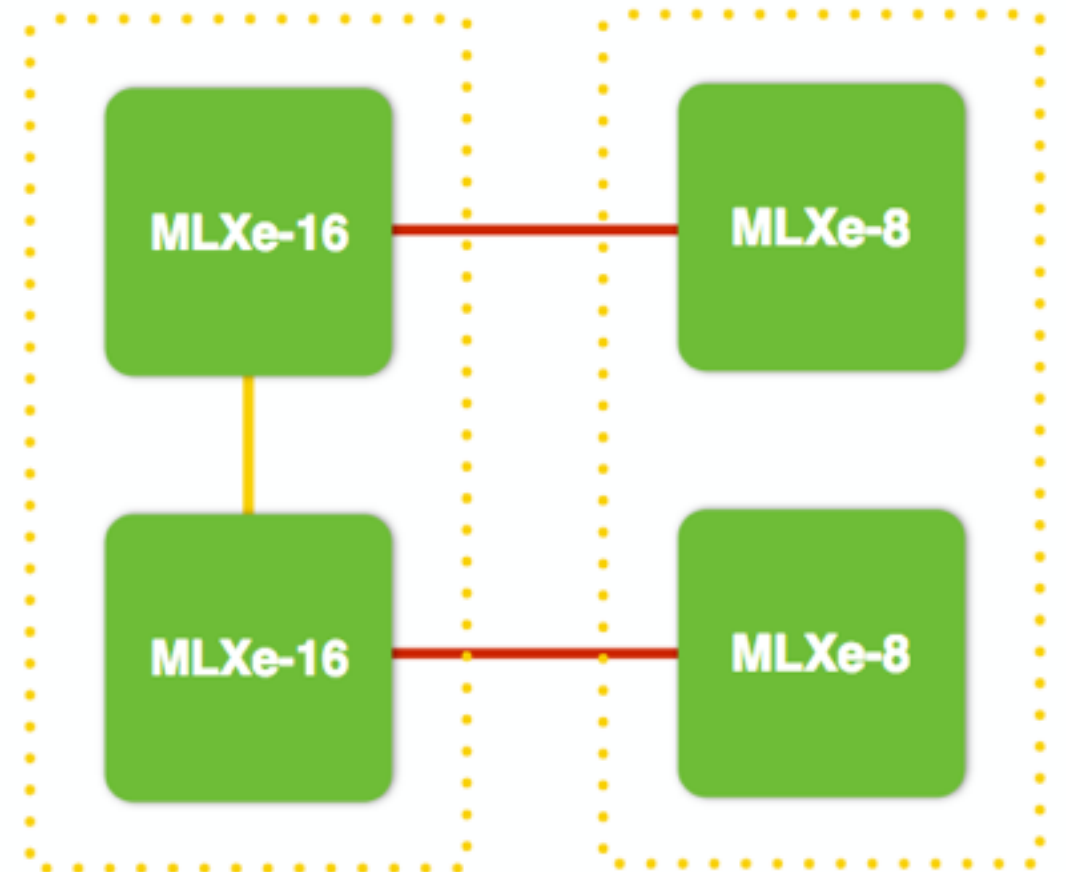
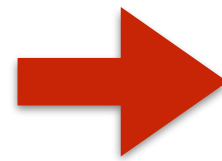
- ▶ more efficient operation
- ▶ higher port density
- ▶ future developments

Switching platform



Old core

- ▶ Different HW/SW/config
- ▶ LAG management issues



New core

- ▶ L2 ACLs only
- ▶ VPLS tested

MIX geography



Thanks!



@MIX_exchange



MIX s.r.l.



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