



# Everything but the macro – small cells and DAS, and Wi-Fi: convergence & disaggregation

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Small Cells World Forum 2024:     Andy Conway

**boldyn**  
NETWORKS

# UNLOCKING THE POWER OF AN INTERCONNECTED FUTURE

Boldyn Networks is one of the largest neutral host providers in the world. Our shared network infrastructures and cutting-edge connectivity solutions are the building blocks for an interconnected future – **for everyone.**

**30+ years** in communications in North America and Europe

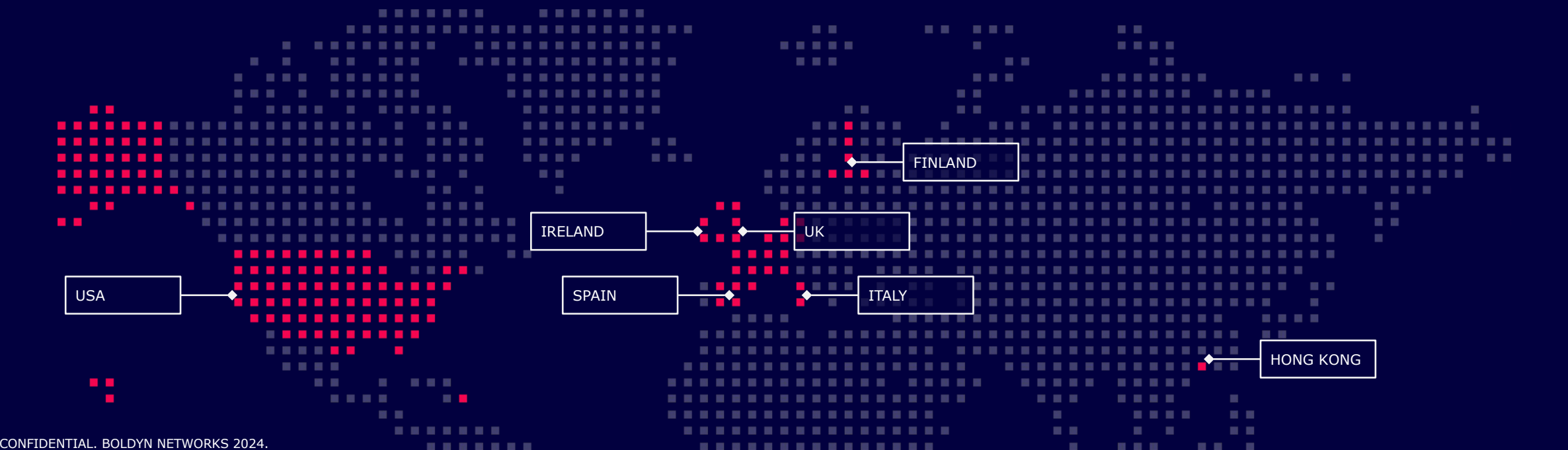
Presence in **3 continents**

Over **800+ employees** globally and access to **+2,000 partner staff**

Networks **connecting 6 billion rides** every year in **5 major transport networks**

**5 major city networks** connecting fibre, thousands of venues, transport and more.

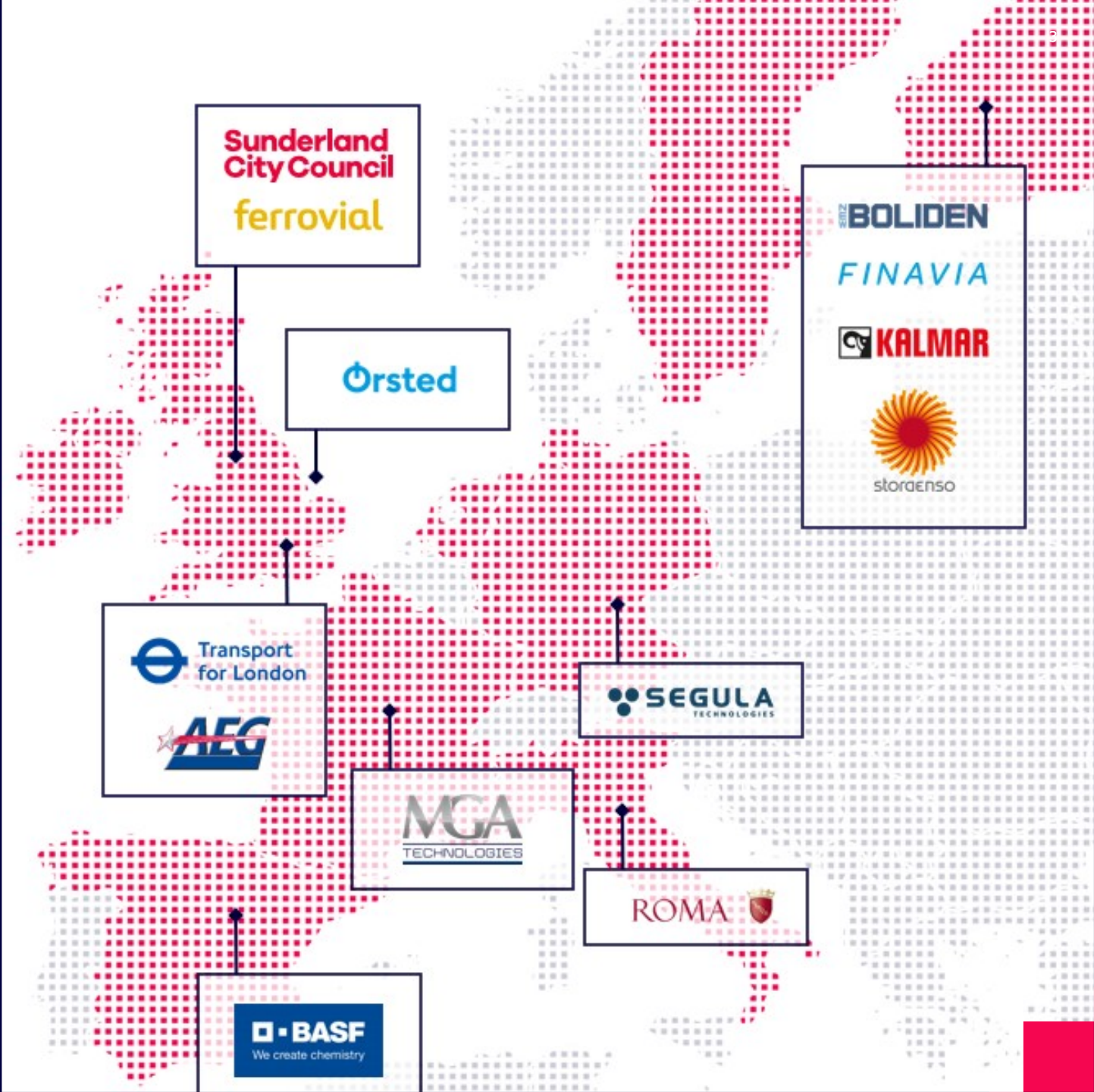
**Majority-owned** by Canada Pension Plan Investment Board since 2009. A trusted long-term investor with C\$576 billion Net assets.

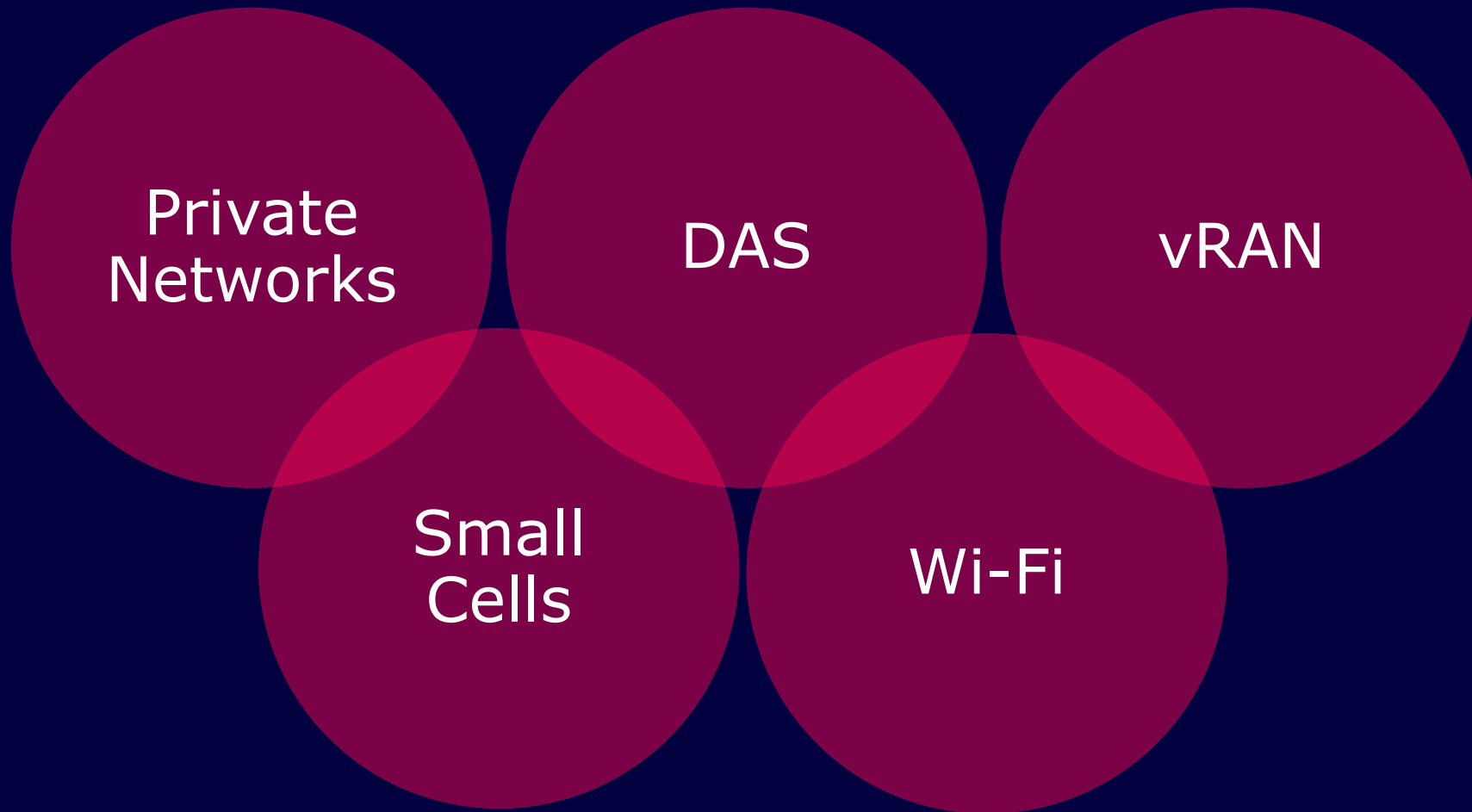




# EUROPE

A selection of our projects







# Private Networks leadership

across mining,  
manufacturing, offshore,  
ports, energy, airports  
and venues



Port of Kokkola



Hornsea 2



Cowtown Coliseum



Stora Enso



BASF



Boliden Kevista



Sandvik



Helsinki Airport



Port of Oulu



Port of Kemi



Silvertown Tunnel



Konecranes



# BOLIDEN

## Continuity and safety of mining operations with remote controlled drilling

### Key challenges

- Challenges in terms of wireless coverage for their 20km<sup>2</sup> surface area of challenging industrial environment
- Need of an efficient and safe management of their business-critical applications and emergency monitoring due to robustness of the site
- Need to secure connectivity for their fleet management, tele-remote drills & dozens and enabling autonomous operations

### Use cases

- Remote drilling
- Remote hauling to decrease operational costs
- Remote controlled operations

### Solution

Private Wireless Network with local and geo redundant core network, for minimum impact to network latency and jitter

### Benefits

- Stability and performance to support Boliden in keeping their operations running smoothly and efficiently
- Reliable connectivity for 500+ people on the field with a variety of devices and applications
- Fully autonomous operations

**BOLIDEN**

"Boldyn Networks was really the only one that provided what we needed. Our remotely controlled drills have limited resistance to delays and interruptions, and the solution we got from Boldyn Networks gave us the stability and performance we needed to keep our operations running."

**Pasi Angeria,**  
**Head Of Section IT At Boliden Kevitsa**

### Customer profile

- Boliden is a high-tech metal company with its own mines and smelters that work over the long term to guarantee society's supply of base metals through the mining of ore
- 56.32 M SEK in revenue (2020)

# A network for London

**£1bn**  
Invested

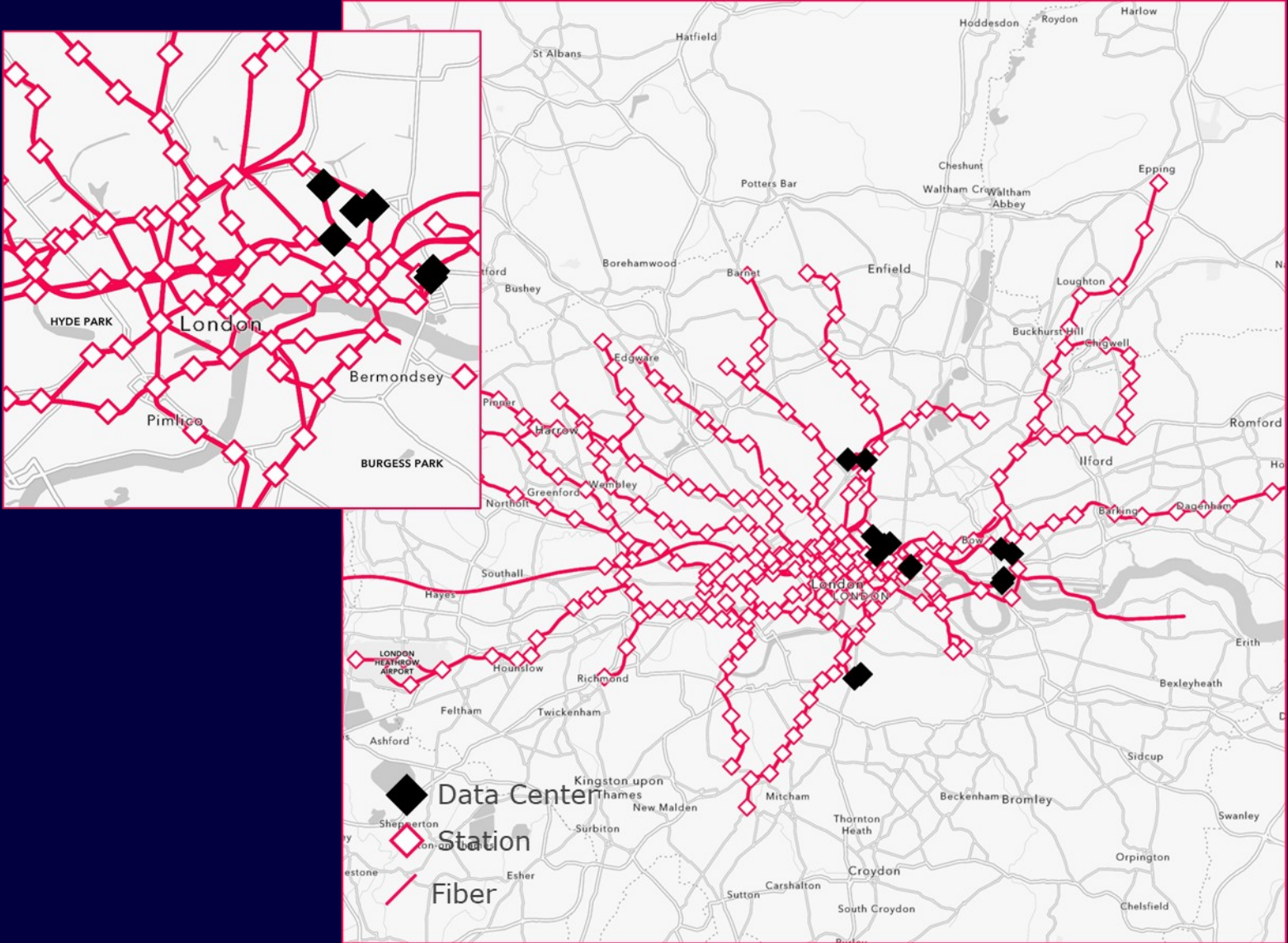
**137**  
Stations and  
platforms

**80k**  
Small cell locations

**200kms**  
Of fibre in the  
tunnels

**3,000**  
Kms of above  
ground ducting

**12**  
Data centres in  
central London





# One of Europe's largest digital DAS systems





# Connectivity as a Service ... in production





# ORAN's coming home





# Creating supply side conditions for densification



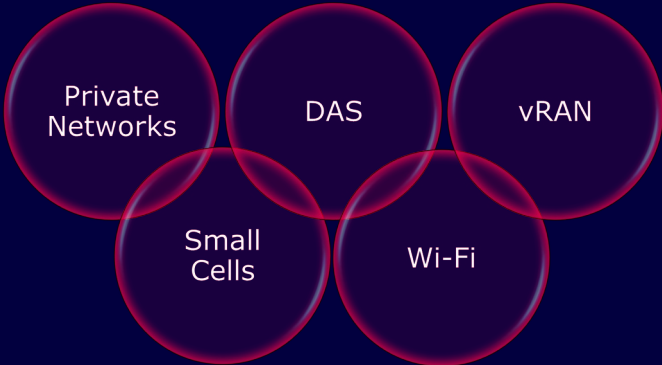


# A tale of three cities – public Wi-Fi





# Summary



## NEUTRAL HOSTS: THE ANSWER TO 5G DENSIFICATION IN DELIVERING AN INTERCONNECTED FUTURE

5G densification report



**QUESTION:** Does your organisation have a clear understanding of what that network densification plan looks like over the next year?

	Audience						Total
	UK&I Public Sector ITDMs	US Public Sector ITDMs	UK&I Telecoms DMs	US Telecoms DMs	UK&I 5G Enterprise Experts	US 5G Enterprise Experts	
BASE	100	100	100	100	100	100	600
Yes, we have a clear densification strategy	40%	72%	65%	73%	43%	69%	60%
Somewhat, we understand the need to densify but are yet to establish a clear strategy	54%	28%	33%	26%	50%	25%	36%
No, densification isn't a priority and we do not have a clear strategy	6%	—	2%	1%	7%	6%	4%

5G Densification Report (boldyn.com)





# Thank you

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