

Aston Data Centre



The 2nd city's premier
colocation facility



A next generation
Colocation data
centre for
Birmingham city
centre

Presenter: [Russel Smith](#)

The Exponential Growth in Data

BIG Data

Cloud

Multi Media

Social

Networking

Device Apps

SMART Cities

High density, high power IT infrastructure is required to support this wealth of information; infrastructure that requires a specialised data centre environment.

- IBM state that over 80% of the worlds data was created in the last two years [IBM](#)
- It is predicted that data will grow 800% in the next 5 years [Computerworld](#)
- Research suggests that data centres built over 7 years may be obsolete [Gartner](#)

Infrastructure for a SMART city

“Smart Cities use information and communication technologies to be more intelligent and efficient in the use of resources”

Boyd Cohen, Climate Strategist



Data Centres that meet these increased demands are an **essential** requirement to support Birmingham's SMART City vision

Birmingham needs to be able to offer connectivity, reduced latency, and efficient data centres that enable organisations to utilise and analyse data effectively

It is **vital** to facilitate the **competiveness** of the city, and those who reside in it

Portal Overview and Solutions



- Privately owned, Portal was founded in 2000 and has a major blue chip client base.
- Portal is part of the **Cannock Group** which specialises in an extensive range of solutions for investors, landowners and occupiers with over **£80m of new deals** each year.
- Major investor in Birmingham with over **£100m** invested in past 3 years, including **Premier Inn** Waterloo St, **Hampton by Hilton** Broad St and **Staybridge Suites** Offices & Retail Corporation St
- Portal's Occupier solutions provide accommodation configured to your exact requirements at a location that meets your business need.
Portal's key offerings are:
 - **Managed Office Solutions**
 - **Call Centres**
 - **Major branded hotels**
 - **Data Centre Solutions**

Portal Data Centre Track Record



First data centre built in 2005 for **e.on** to meet their business requirements :

- 1 MW Tier 3 facility
- Portal also deliver IT support and 7 bespoke and secure Comms room for clients including, **PFG** | **Provident** Financial Group | **sky** | and **IBM**.

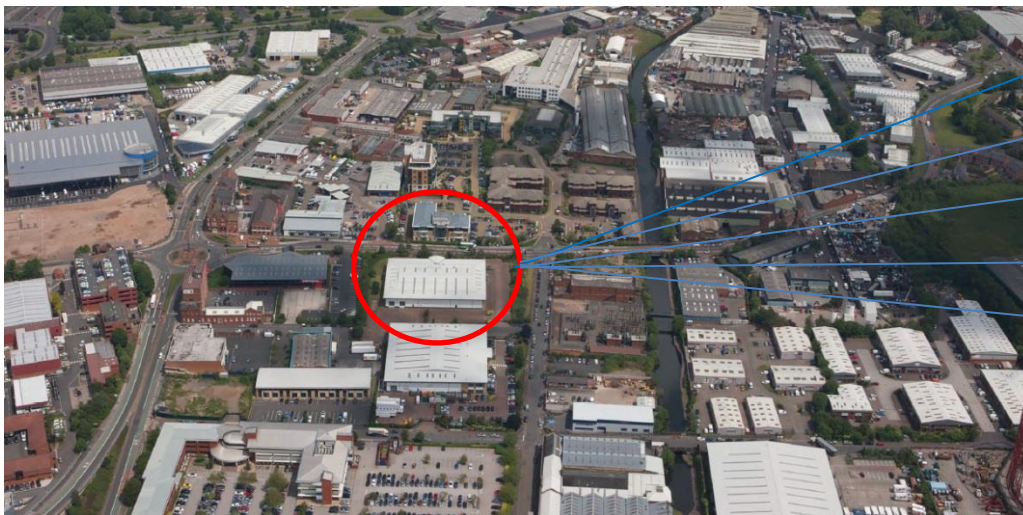
Building our first Colocation Data Centre in Aston, Birmingham

- 5 MW Tier 3 facility
- Carrier neutral

Further Colocation Data Centres in next 18 months

- Glasgow and London

Portal's Aston Data Centre



- Chester Street, Aston
- 1.5 miles from City centre
- Excellent transport Links
- 2,800m² Colocation facility
- 5 MW of Power to site

From Planning to Action



The **Aston Data Centre** journey began in July 2012 :

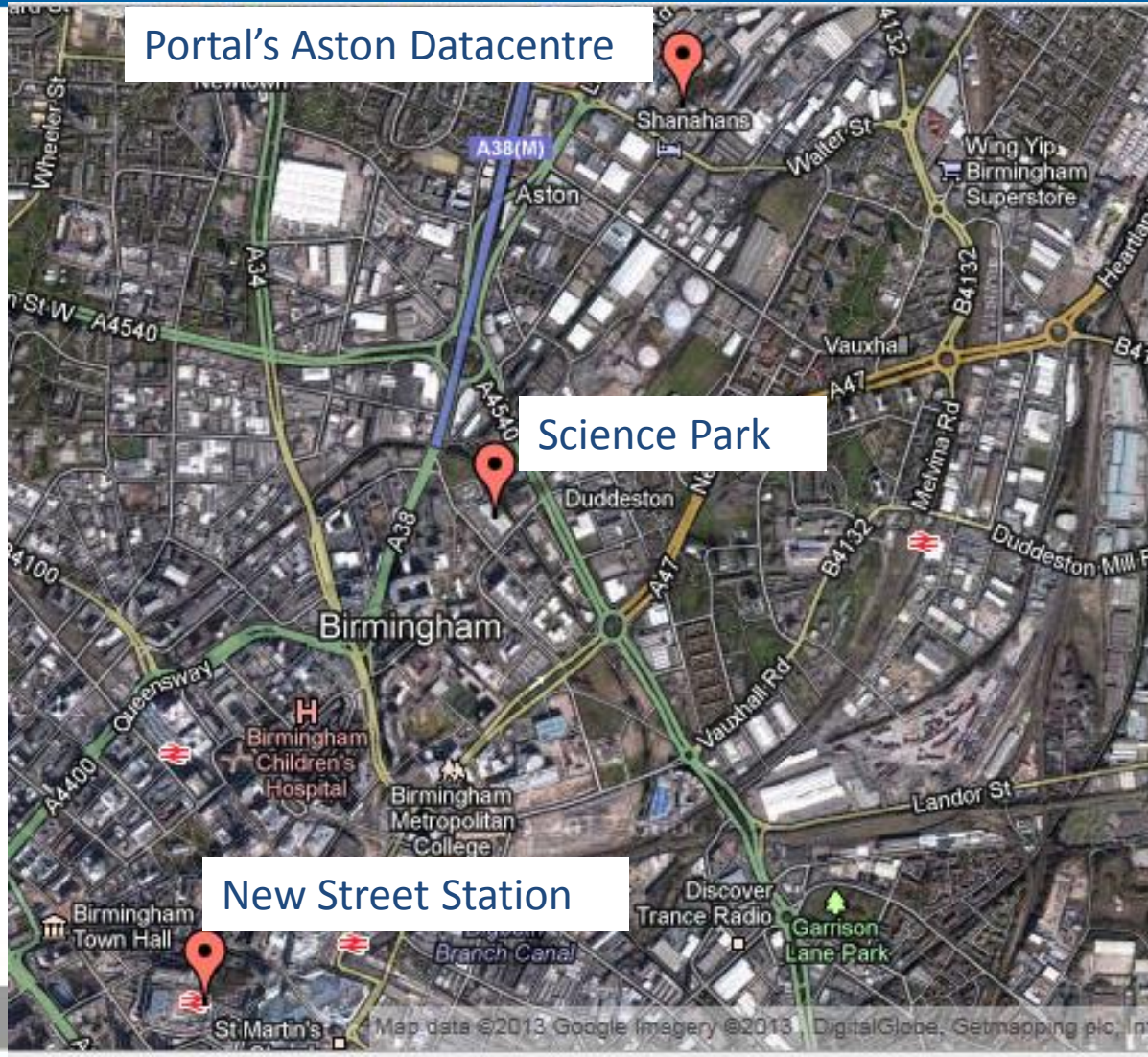
- Main Contractor – Bowmer & Kirkland
- Architect – BHP Design
- M&E Consultant – Clancy Consulting
- Project Managers – DBK
- M&E contractor – Derry Building Services
- Opens in early 2014



Bowmer & Kirkland



Portal's Aston Data Centre



Portal's Aston Data Centre

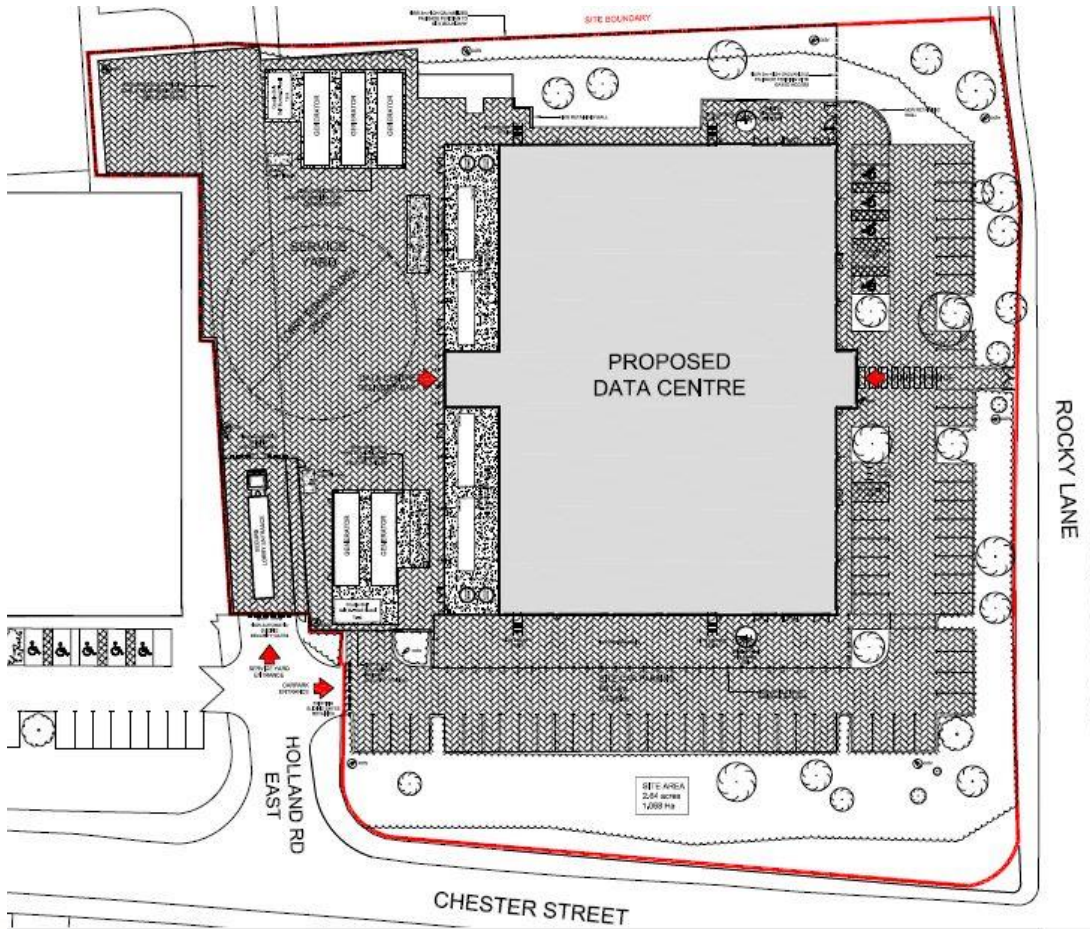


Dual diverse route fibre

Aston Data Centre

Dual diverse route power feeds

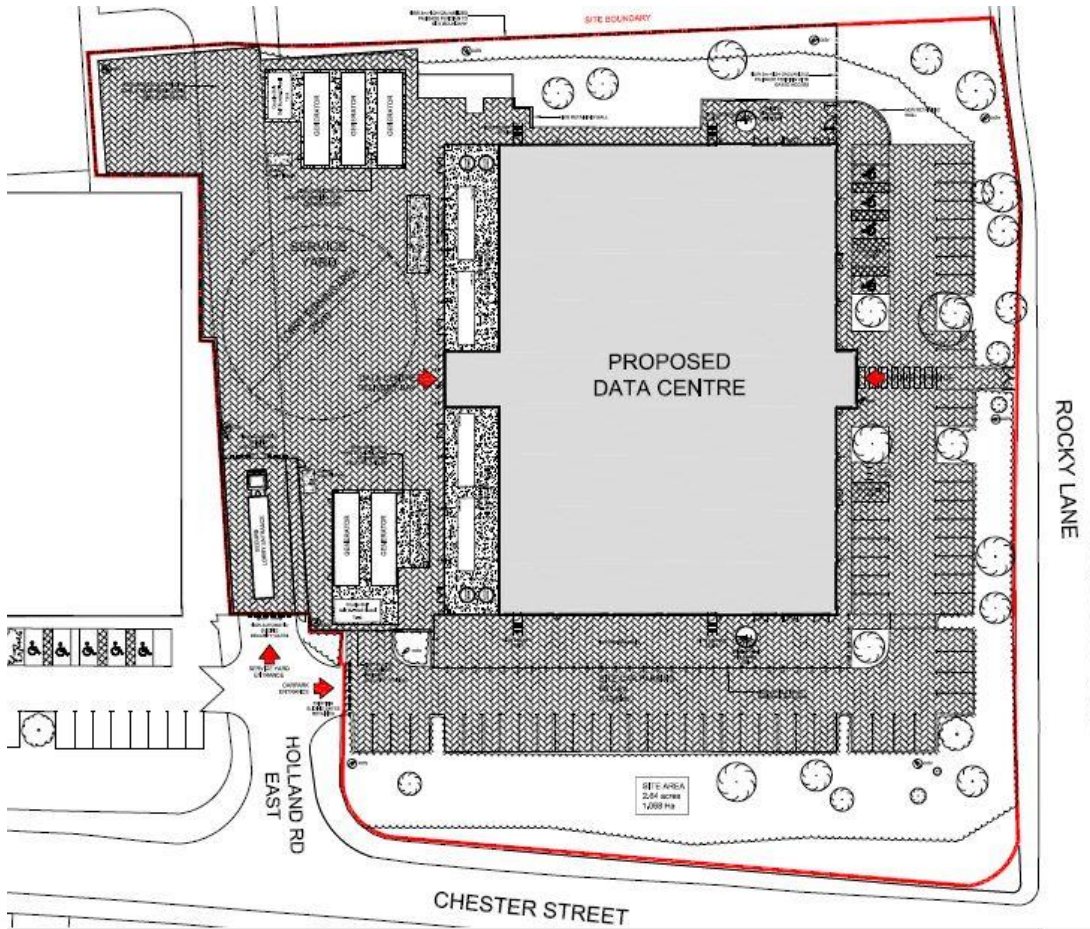
Overview of the Data Centre



General:

- Carrier Neutral
- Tier 3 Resilience
- 2N Electrical
- N+1 Mechanical
- 1,400m² of technical space
- 2.8 MW IT load
- Operational PUE of 1.3

Overview of the Data Centre



Exterior:

Secure perimeter fence and CCTV

24/7/365 Security

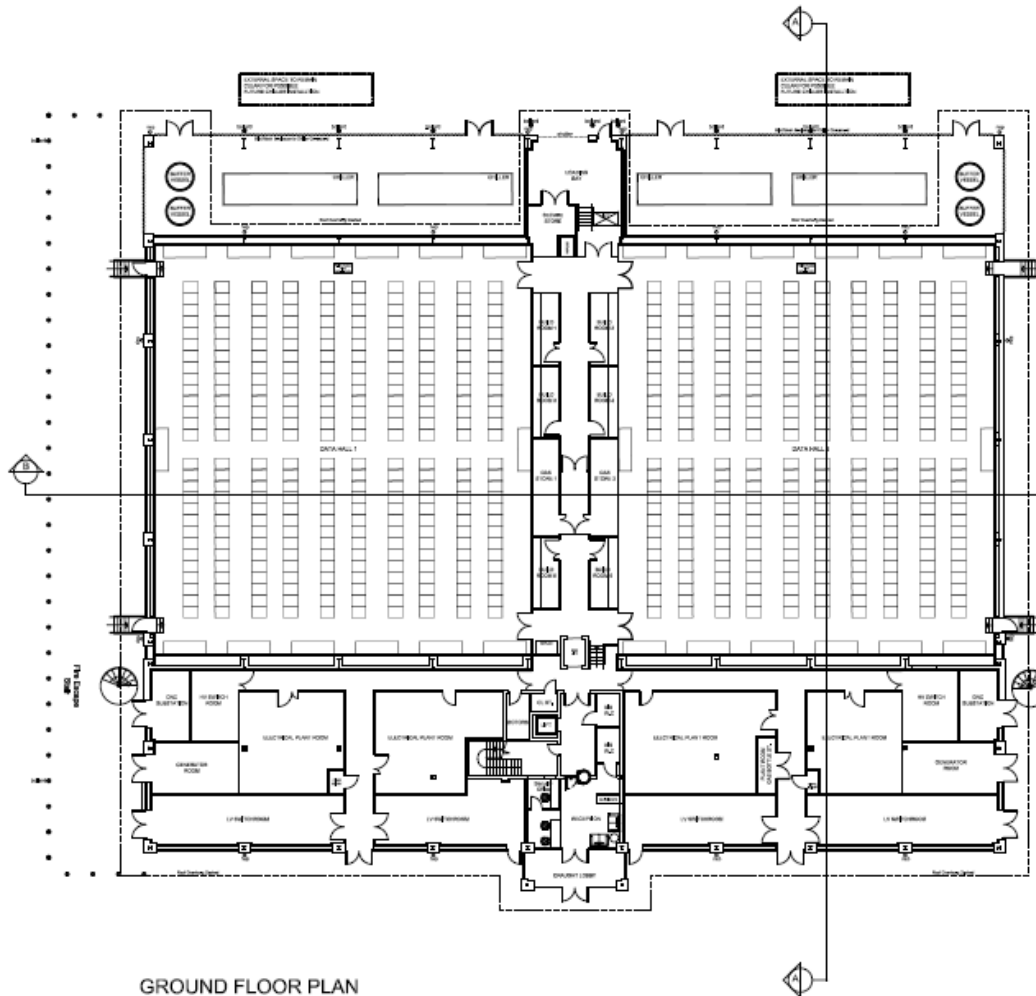
Visitor entrance

Truck trap and delivery bay

5 x 1500 kVa Generators

48 hour Fuel storage with continuous refill

2N Electrical, N+1 Cooling



Cooling:

- 6 x 800 kW chillers
- incorporating free air cooling
- Hot aisle containment
- Down flow CRAC units in data halls

Electrical:

- A + B supply
- Battery UPS 10 min at full load

Fire / leak Protection:

- VESDA
- Leading dedicated gas suppression protected data halls
- Leak detection system

Providing Connectivity



Connectivity:

Carrier neutral

Access to Tier 1 and Tier 2 carriers

Dual network rooms

Multiple network lines

Support for Internet exchange point

Aston Data Centre Colocation



Based around your businesses requirements:

Visibility on your racks via Trend approved BMS

Client specific hands and eyes support capability

Client specific SLA's

Colocation allows you to benefit from our efficient, secure and resilient

Data Centre in Birmingham without the Capex requirement

Some Closing Thoughts

The need for data storage and processing is increasing:

- The UK needs to build new generation Data Centres
- More focus should be on the regions, not London
- Birmingham can be a Digital City of the future
- Lets make a local Internet Exchange Point happen

Contact Portal



Portal would welcome the opportunity to discuss your Colocation requirements and have additional information relating to our capabilities.

Please contact

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Download specification sheet [here](#)