The information delivery
platform for European business

A new generation of data centres

Designed around your business needs

colt

smarter / faster / further

Colt
reducing your business risk

Your organisation depends on your data. Alongside capital and labour it is now your most critical unit of economic input. Like most organisations your hunger to consume vast amounts of new data is growing exponentially. Constant dependable and rapid access to this raw business asset is mission critical.

But with growing business and technical challenges, the traditional data centre may now be placing limits on what you and your business can do.

At Colt, we are transforming the data centre. By doing so, we are underpinning a wider transformation in your business.

> The challenge of ensuring that data flows through your organisation with a focus on security and resilience, is a thought that keeps every CIO awake at night.

So, why is your data centre key to your business future? There are a number of reasons. Firstly, data is at the heart of all your operations. Any restriction on it limits your business. You must have cutting edge access, speed and security simply to stay competitive. And if your business is to be able to grow, that performance must be easily scalable.

Transforming your data centre can make your business more efficient and profitable. But there is a second reason why you need new data centre solutions. New technologies and a new economic landscape make the traditional approach dangerously outdated.

The challenges you face

There are a number of important new factors to consider:

Capital constraints. Global markets are still volatile. Austerity measures and cost controls are a high priority. Organisations do not have access to the same levels of capital they did just a few years ago. As a consequence, new and flexible business models are required to help navigate this new economic landscape.

Costs. The costs of building and running data centres is rising at a time when controlling costs is vital. The escalating price of power has a growing impact on your overall operational expenditure.

Environmental pressures. You must have strong green credentials. To deliver them your data centre must have low power and water usage, recyclable materials, and be an environmentally friendly operation.

Security and legislation. You need your data to be physically secure. You also need to comply with ever more stringent data collection, data protection and sustainability requirements.

The impact of new technologies. Evolving technology makes long term planning more difficult. Future proofing the data centre is an increasing challenge. There is a need to house equipment with varying power density requirements within the same data centre site.

These new challenges mean you can no longer simply bolt extra capacity on to existing infrastructure. You need to transform the way you think, build, deploy and operate your data centre.

The Colt solution:
The consumerisation of the data centre

At Colt we provide the solution to your data centre needs with an innovative, consumerised approach.

We use our proven technology in a new and exciting way. Instead of making every build unique and complex, our solution is modular and based on standardised production line manufacturing on a scale pioneered by the oil rig industry. It lets us simply select and configure the modules to deliver the data centre you need in the shortest possible time.

We construct high quality data centres in 125m^2, 250m^2, 375m^2 and 500m^2 units that can be configured to suit your power, cooling and redundancy needs. They can be delivered to and operated on a Colt site, or your own site, new or existing. Wherever the data centre is located they will meet all your challenges – including the requirement to provide increased performance while reducing the total cost of ownership.

Colt quality and performance with costs and lead times reduced by consumerised production. It's a radical new approach. It can transform your business.
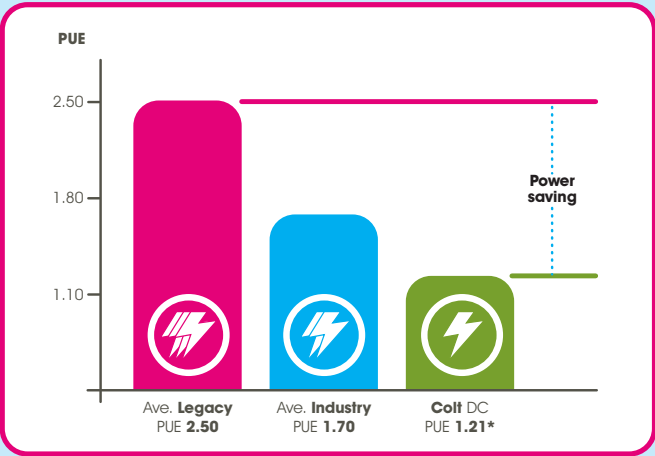
The Colt data centre:
total cost of ownership (TCO)

The TCO benefits of the Colt data centre are achieved through the low levels of Power Usage Effectiveness (PUE) and the flexibility of its design.

The industry average PUE is 1.70, in legacy data centres this can be as high as 2.50. The Colt data centre, however, has an industry-leading PUE of 1.21, a significant improvement which can result in cost savings of £3 million* over 10 years in power bills.

Colt's flexibility in design and choice of services negates the need for costly design and planning exercises required in a more traditional approach.

Components in a Colt data centre are no different to a traditional data centre, but delivered in a fraction of the time with unmatched efficiencies.

PUE

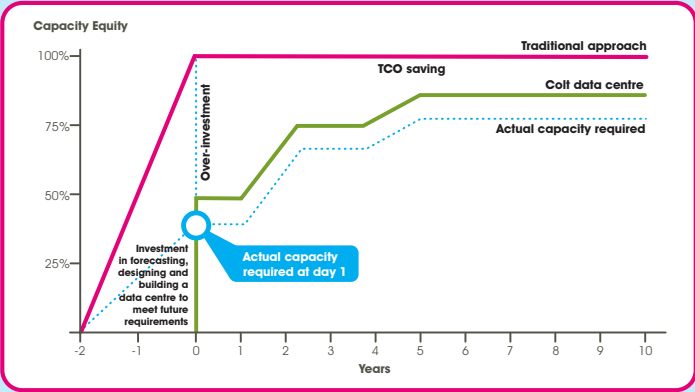|		
Ave. **Legacy** PUE **2.50**	Ave. **Industry** PUE **1.70**	**Colt** DC PUE **1.21***

Power saving

*Based on traditional PUE levels, 500m², £0.075/kW with inflation of 5% per annum, IT load of 750kW, in the UK.
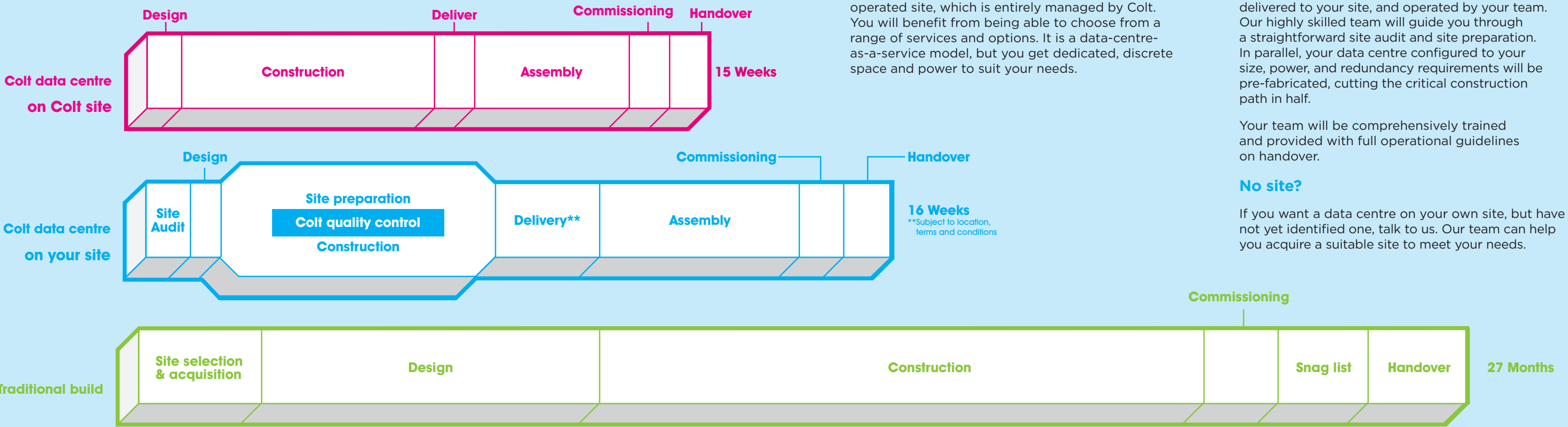
Traditional data centres can take up to three years to design, build and then commission. The often lengthy design phase is characterised by lots of modelling in an attempt to forcast the capacity of the data centre required in 18 to 24 months' time (when the data centre will be commissioned), and to estimate requirements to future proof the data centre.

Colt's design and implementation phase is just four months. This means that future requirements can be assessed on a far more frequent basis; allowing you to make more informed and practical decisions on your data centre. You scale with your business and deploy capital only when it is needed.

The data centre you decide on today is the data centre you get in four months; eliminating the risk of scope creep, spiralling costs and delays that can cost millions. With a Colt data centre you can expect certainty of quality, cost and delivery.

Timeline based on standard 500m² kW data centre

Choose a model to suit your business

With Colt as your data centre partner, choice and flexibility is paramount

Colt site

This is where your discrete data centre is on a Colt operated site, which is entirely managed by Colt. You will benefit from being able to choose from a range of services and options. It is a data-centre-as-a-service model, but you get dedicated, discrete space and power to suit your needs.

Your site

This is where a data centre is designed, built and delivered to your site, and operated by your team. Our highly skilled team will guide you through a straightforward site audit and site preparation. In parallel, your data centre configured to your size, power, and redundancy requirements will be pre-fabricated, cutting the critical construction path in half.
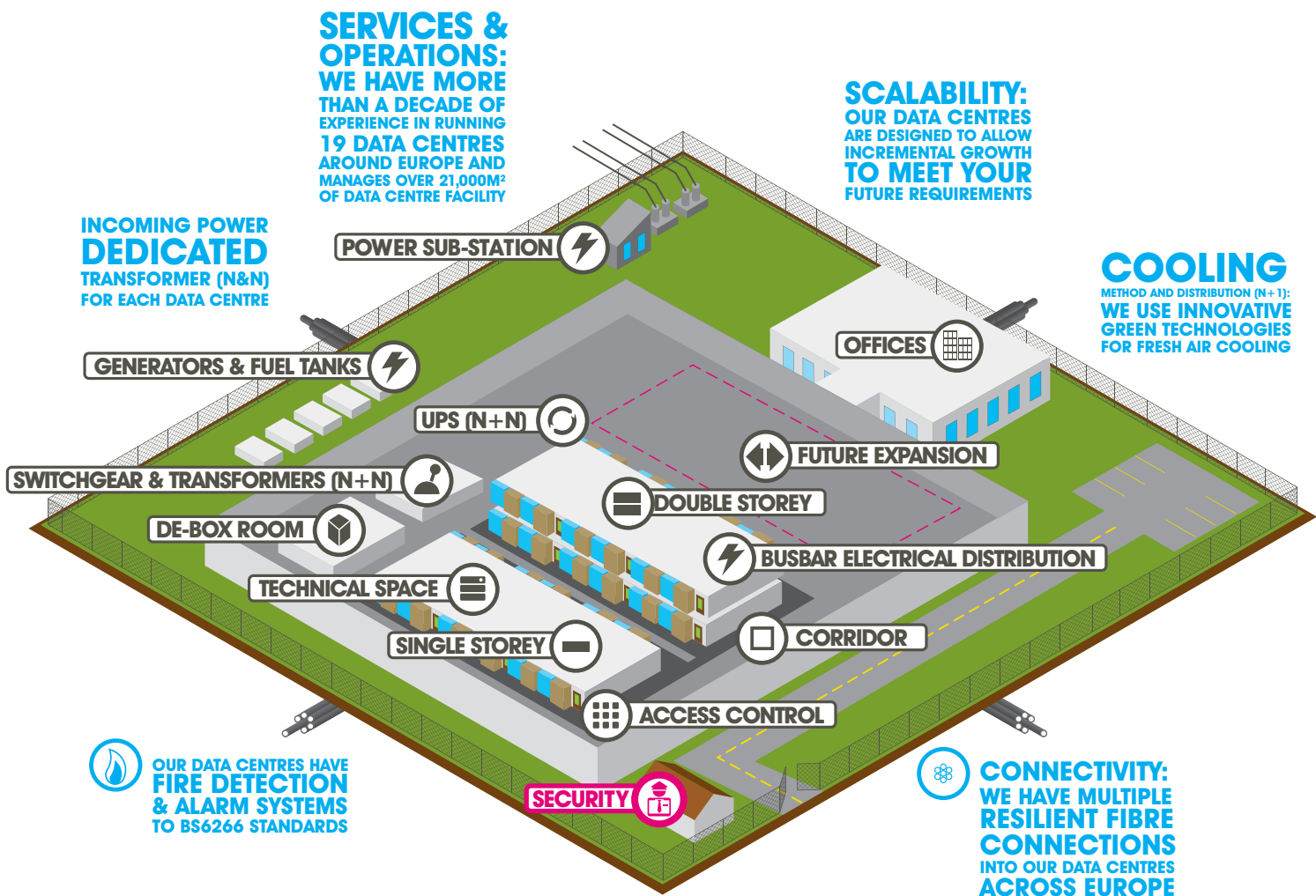
Your team will be comprehensively trained and provided with full operational guidelines on handover.

No site?

If you want a data centre on your own site, but have not yet identified one, talk to us. Our team can help you acquire a suitable site to meet your needs.

What do you need from your data centre?

Your data centre is the heart of your organisation. You rely on it for everything you do for business continuity and data compliance – so you need reliability. You need performance and capacity. You need scalability. And you need it all at the speed of business not data centre years.

SERVICES & OPERATIONS: WE HAVE MORE THAN A DECADE OF EXPERIENCE IN RUNNING **19 DATA CENTRES** AROUND EUROPE AND MANAGES OVER 21,000m² OF DATA CENTRE FACILITY

SCALABILITY: OUR DATA CENTRES ARE DESIGNED TO ALLOW INCREMENTAL GROWTH **TO MEET YOUR** FUTURE REQUIREMENTS

INCOMING POWER **DEDICATED** TRANSFORMER (N&N) FOR EACH DATA CENTRE

COOLING METHOD AND DISTRIBUTION (N+1): **WE USE INNOVATIVE GREEN TECHNOLOGIES** FOR FRESH AIR COOLING

POWER SUB-STATION

GENERATORS & FUEL TANKS

OFFICES

UPS (N+N)

FUTURE EXPANSION

SWITCHGEAR & TRANSFORMERS (N+N)

DOUBLE STOREY

DE-BOX ROOM

BUSBAR ELECTRICAL DISTRIBUTION

TECHNICAL SPACE

SINGLE STOREY

CORRIDOR

ACCESS CONTROL

SECURITY

OUR DATA CENTRES HAVE **FIRE DETECTION & ALARM SYSTEMS** TO BS6266 STANDARDS

CONNECTIVITY: WE HAVE MULTIPLE RESILIENT FIBRE CONNECTIONS INTO OUR DATA CENTRES **ACROSS EUROPE**

Site security features*:

- CCTV coverage
- Perimeter gate and 3.1m high palisade fence
- Security guards and inner security gate
- Access controlled door to facility entrance
- Air lock person trap in facility's inner cordon
- Access controlled door to each data hall
- Access controlled rack doors (optional)
- Secure access to cold aisle containment (optional)

*based on a typical Colt site

- Power density: 750W/m²; 1,500W/m²; 1,650W/m²; 3,000W/m²
- Total power: 375kW; 750kW; 825kW; 1,500kW per 500m² technical space
- Technical space: 125m²; 250m²; 375m²; 500m²; and multiples thereof

What can a Colt data centre do for you?

In a fast evolving business world, having the data centre capacity you need when and where you need it is not just an asset. It is vital for the future of your business. Our modular data centres not only deliver that, they reduce overall cost and complexity. So you can have the data centre you need faster. It means having the state of the art facilities you need to build your business in a competitive world.

What's more you have the choice of housing your data centre at a Colt site or your own site. Colt's flexibility and range of services to support this critical time in your business is unmatched in the market.

At Colt, we are enabling key transformations in your business. We help you manage the complexities of change and help make change work for you.

Dependable cutting edge performance

Our consumerised approach can cut the time it takes to design and build a customised data centre by more than two thirds. That means we can take your data centre from the drawing board to deployment with upwards of 125m² of data centre space in less than four months. The entire infrastructure is pre-assembled so that the need for on-site integration is minimal.

Why Colt Data Centre Services?

At Colt we have a long record of success providing data centres to some of the worlds leading data users. We own and operate them across Europe, and have been delivering high quality space to thousands of customers for more than 15 years. We currently manage over 21,000m² of data centre facilities (including more than 6,000m² of wholesale data centre). We are a FTSE 250 company with an international base, we have a record of financial security, and are a profitable and debt free organisation.

We are one of the largest providers of data centres in Europe, and with millions of Euros invested into our technology and data centre locations we are uniquely positioned to deliver the services you need, as and when you need them. We are committed to long term investment in data centre technology and provision. So as well as knowing you are getting the best data centre for your needs now, with Colt you have the security of knowing we are here for you in the future too.

About Colt

Colt is Europe's information delivery platform, enabling its customers to deliver, share, process and store their vital business information.

By bringing together computing and network services, we offer our customers a **smarter**, integrated end-to-end communications experience. Our unique size and scale ensures we are **faster** to deliver uniquely configured solutions using our pan-European assets, systems and processes, so we can go **further** in offering a truly consistent experience across Europe.

Colt provides major organisations, midsize businesses and wholesale customers with a powerful platform that combines data centre infrastructure, IT managed services and expertise in integrated computing and network services. Colt operates a 21-country, 35,000km network that includes metropolitan area networks in 39 major European cities with direct fibre connections into 18,000 buildings and 19 Colt data centres.

Colt Group S.A is listed on the London Stock Exchange (COLT). Information about Colt and its services can be found at www.colt.net

talk / explore / change

To talk, please call your local country switchboard

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For full information, please visit **www.colt.net/dcs** or email: **dcsinfo@colt.net**

To explore, please go to **www.youtube.com/ColtTechnology**