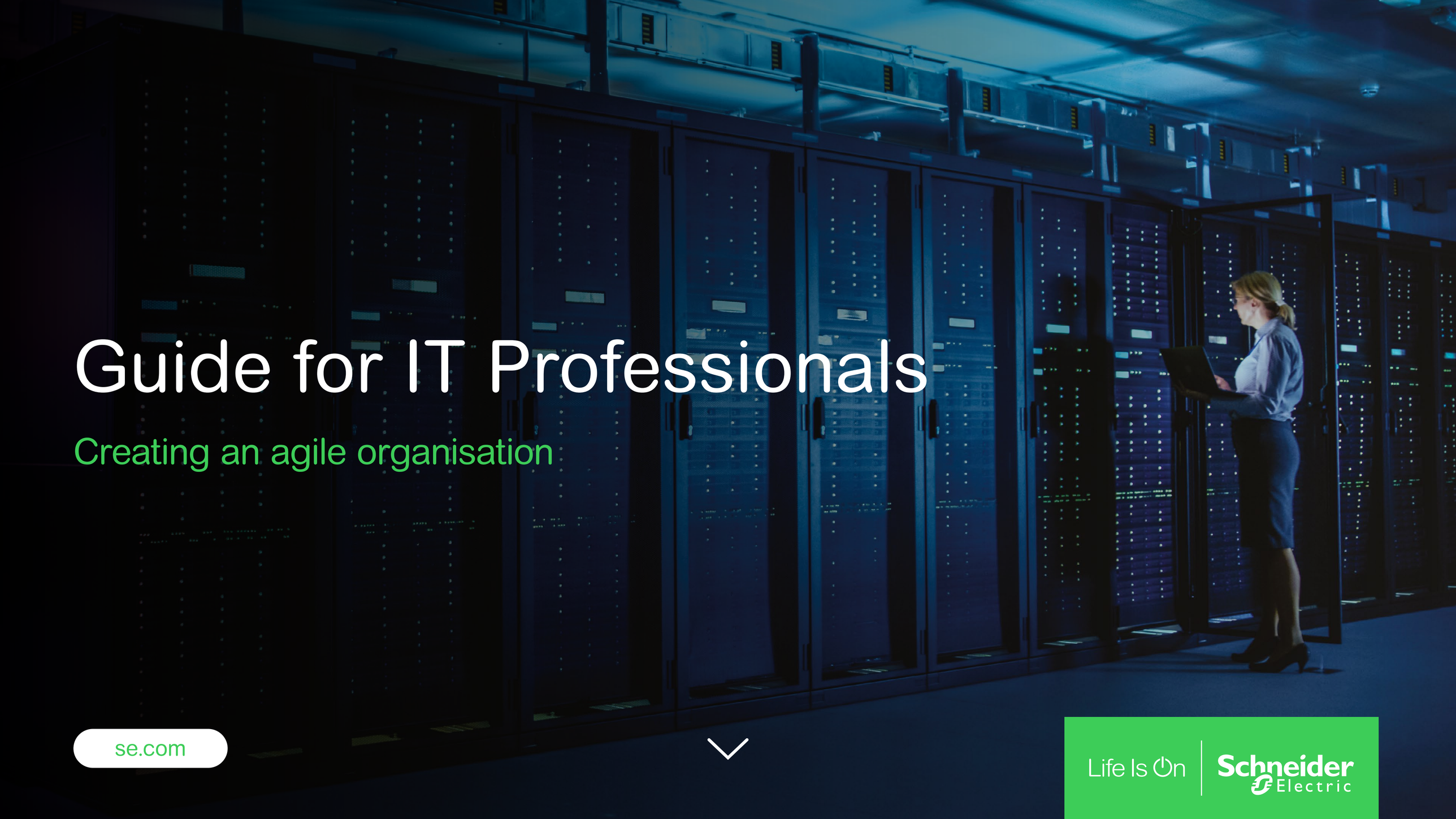

# Guide for IT Professionals

## Creating an agile organisation

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IN FOCUS

# Creating an agile IT infrastructure to support data centre modernisation

As enterprises switch to digital business processes, there is a pressure on IT leaders to determine how to refresh their equipment and expand capacity to achieve agility and maintain uptime in their data centre networks. This is critical, as ageing and obsolete equipment often lead to unplanned downtime and poor productivity.

One way to modernise your organisation and make it agile is to deploy modular data centres. Prefabricated modular data centres are agile, easy to install, and a perfect fit for low-latency applications in banking and finance, retail, government, healthcare, hospitality, and education industries.

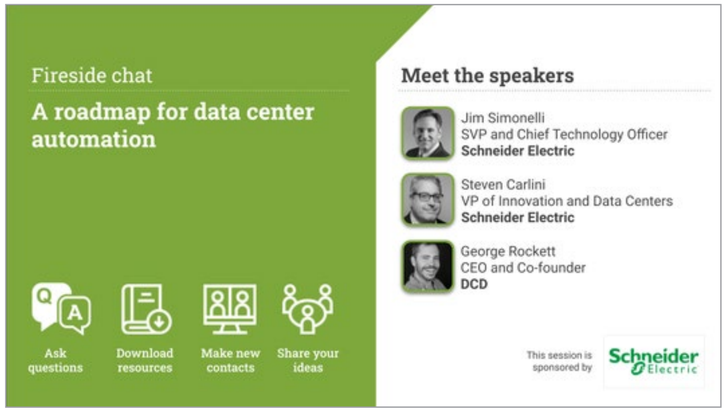
This guide aims to help you define and implement solutions that will increase your organisation's performance while controlling costs. It will help you run your infrastructure at peak performance and reduce the potential for unexpected downtime.

INSIGHT 1

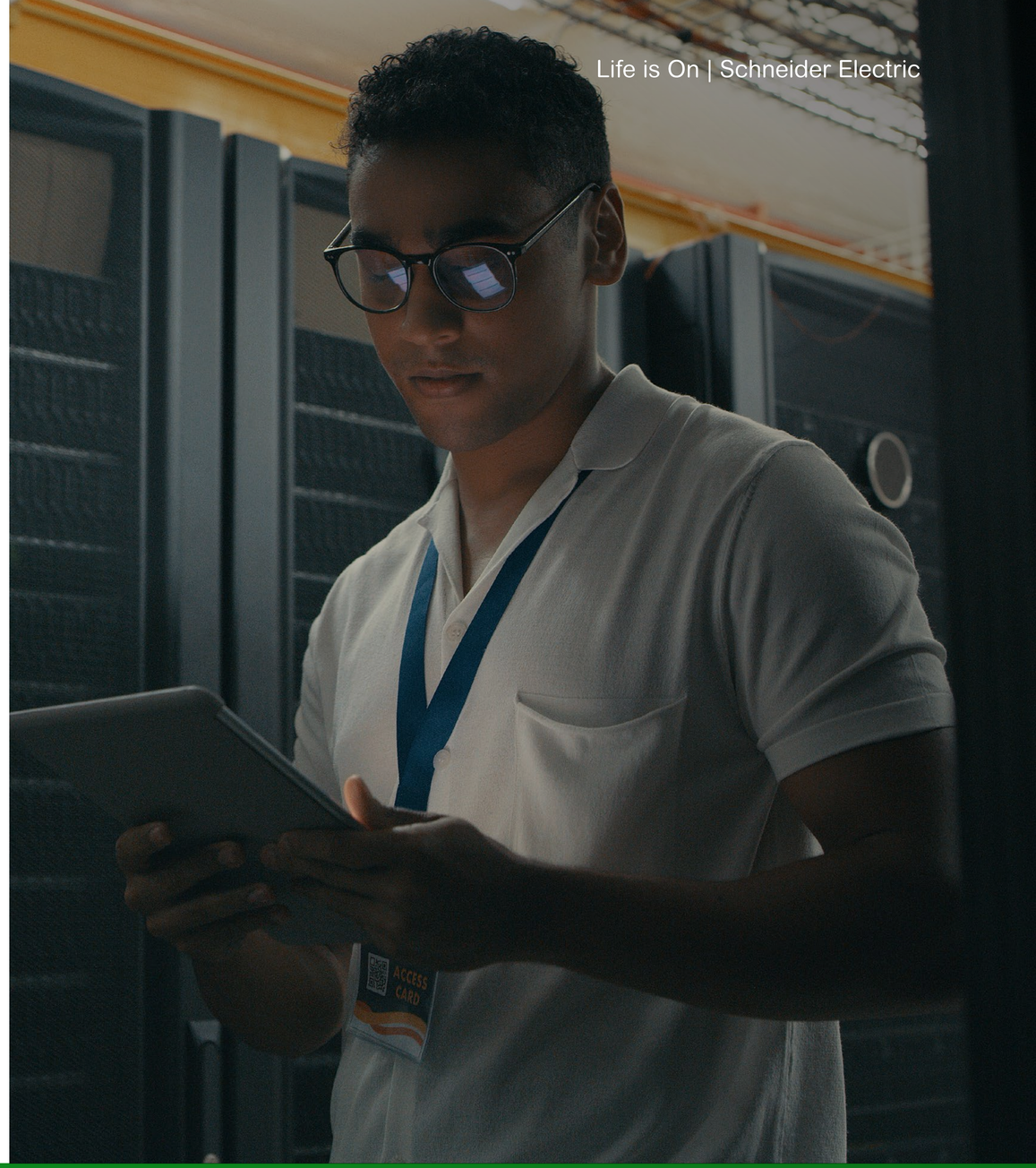
# Create a self-driven, automated data centre with AI, ML, and IoT

Some specific digital transformations affect data centres at the operational level. Once disparate, systems are now harmonised and integrated using machine learning, AI, IoT and other technologies. This allows functions to be automated and optimised for efficiency and resiliency.

Recently, Schneider Electric's senior technical leads spoke about the technologies that are enabling a new way to control and automate digital infrastructure.




This fireside chat with Schneider Electric explains how to simplify data centre workload management with AI, ML, and IoT.



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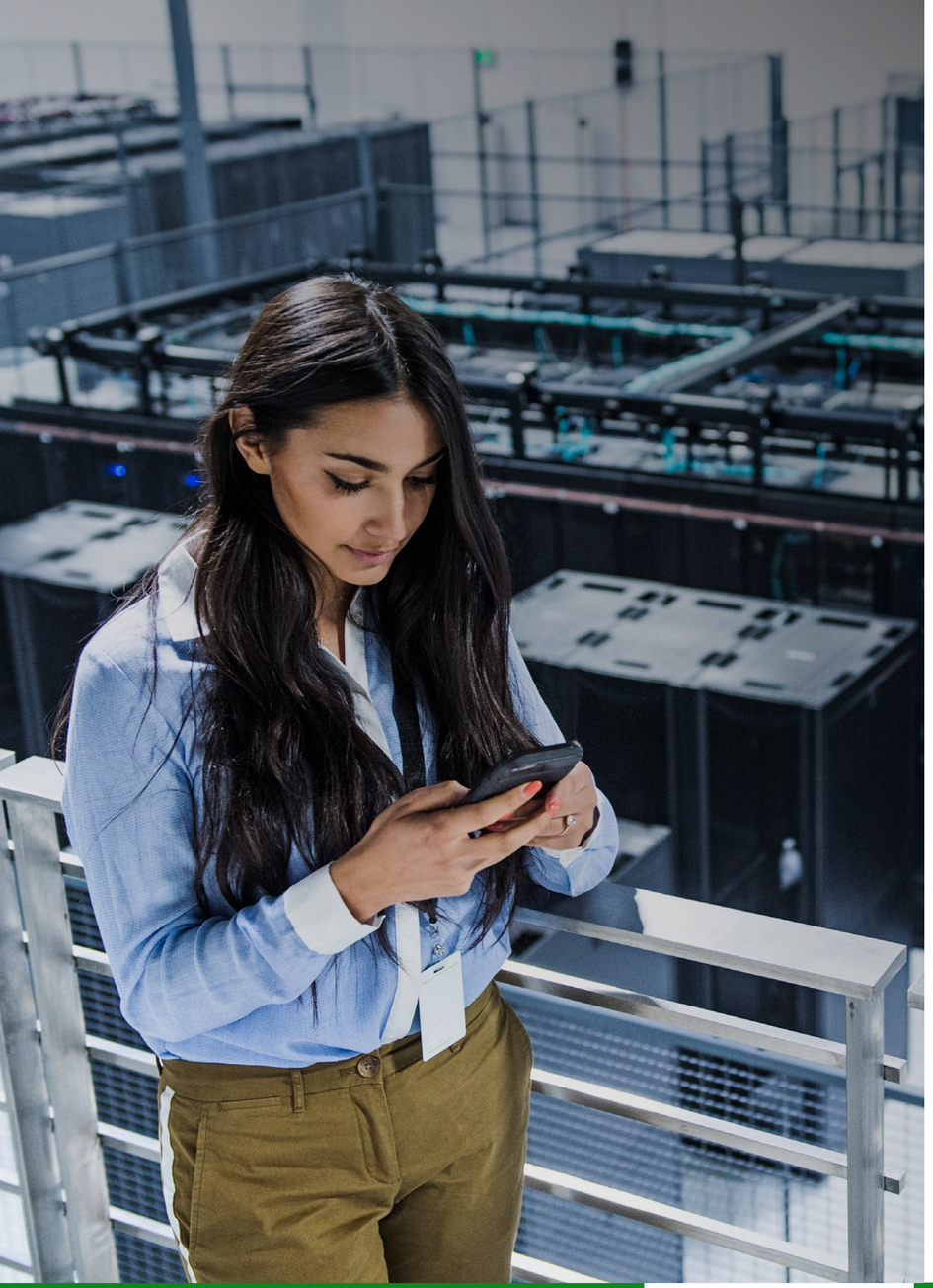




INSIGHT 2

# Prefabricated modular data centres are empowering digital transformation

Post-pandemic, companies are under tremendous pressure to move much faster to deploy data processing capabilities across their entire distributed enterprises. Yet many of these same companies face challenges in setting up the right IT infrastructure to support their digital transformation.

That is where prefabricated modular data centres come in. They provide significant benefits for companies looking to ramp up their digital transformation efforts by offering rapid deployment, right-sizing, scalability, and cloud-based management.

**Prefabricated modular data centres support distributed IT in the following ways:**

**Speed:** Modular data centres are built in a factory so they can be delivered and ready to go much more quickly than a typical data centre build.

**Consistency:** Companies can select from a range of designs for their modular data centres then order as many as needed. Most include the same features, performance, and maintenance requirements, which provide consistency across the entire infrastructure.

**Scalability:** As business conditions change, organisations can order new modules that will mesh seamlessly with the pre-existing ones.

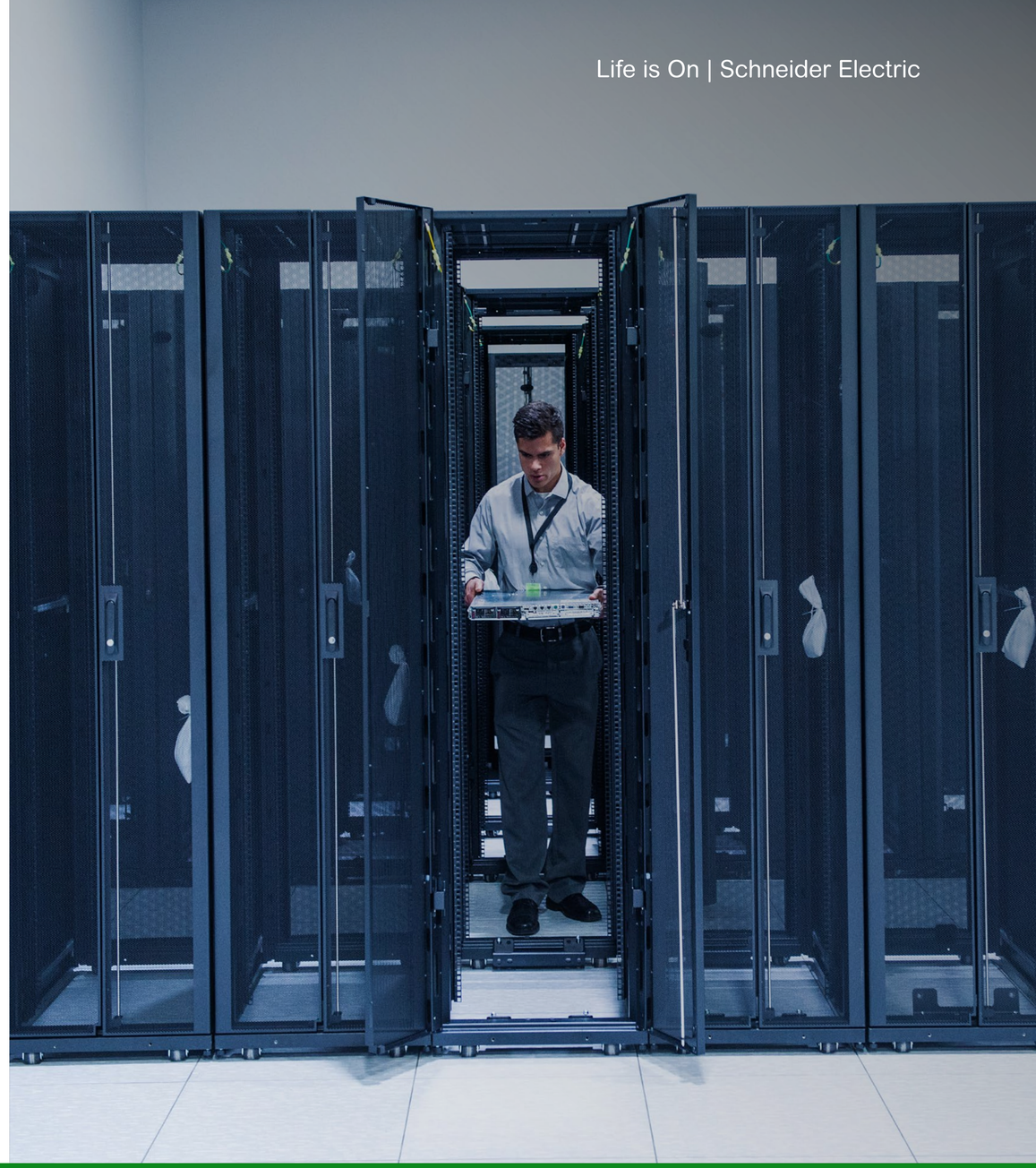
Learn more about enabling digital transformation with prefabricated modular data centres.

# Ways to optimise your new data centre for cost and agility

For an IT manager building a new data centre, current data centre designs present a unique opportunity. This is a chance to start with almost a clean slate, with fewer decisions to make compared to the highly customised and complex data centres of the past.

1. **Right-size data centre physical infrastructure (DCPI):** Modular, scalable power and cooling architectures allow you to buy power and support only the needed capacity you need, making it easy to quickly and cost-effectively add/remove capacity as per requirements.
2. **Standardise:** Standardisation of servers makes management, deployment, and inter-operability easier and cheaper.
3. **Economise:** Many air conditioners feature economiser modes, which use outdoor air during colder months of the year, allowing chillers and compressors to be shut off or operated at a reduced capacity. This can translate into savings of over 70% in annual cooling energy costs.

Learn about other ways to optimise your new data centre for cost and agility.





INSIGHT 4

# Stay competitive by investing in agile data centre physical infrastructure

To stay competitive in today's rapidly changing business world, companies must change the way they view the value of their investment in data centre physical infrastructure (DCPI). Apart from availability and upfront cost, it is also important to consider agility or business flexibility to make the right business decisions for success.

**Often overlooked, these agility considerations can affect business value:**

- Can you build a new data centre in days instead of months or years?
- Can you add additional capacity quickly to the existing DCPI system?
- Can you install data centre's DCPI with minimal site work?
- Can you move a significant percentage of the infrastructure to a new site if relocation becomes necessary?
- Can you re-locate the data centre in months rather than years?
- Can you supply a portion of the data centre with redundant DCPI?
- Can you change a plug type in a matter of minutes during IT refreshes?

You must consider agility as a performance vector since it directly measures the ability of the DCPI to meet unforeseeable demands and opportunities.

Discover other key elements required to achieve high business value.

INSIGHT 5

# Micro data centre at the edge—the secret sauce for Industry 4.0

As organisations seek improvements in their current operations through Industry 4.0 technology, they often must confront unfamiliar and nuanced risks. To mitigate the dangers, phasing-in these technologies as incremental improvements can help.

The initial step for most companies is to scale their metering, sensing, and video capabilities, which generate big data. Integrating, interpreting, and analysing this data for their benefit is key, and it requires high compute and storage capabilities. One of the best ways to meet these powerful computing and large storage needs is to have a local edge micro data centre in the control room of the desired site. This solution is the secret sauce of Industry 4.0.

Read more about the benefits and use cases of micro data centre at the local edge.

INSIGHT 6

# Animation studio, Animal Logic creates magic in digital movies with high-density computing

Creating award-winning cinematic effects outside of Hollywood is a bold idea. Animal Logic, the animation, and special effects studio behind films such as The Matrix, The Great Gatsby, and The LEGO Movie, made it happen with high-performance computing, from Schneider's prefabricated data center.

Watch this video to learn how Animal Logic built a scalable and high-density data centre within 4.5 months.

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**About Schneider Electric**

Schneider's purpose is to empower all to make the most of our energy and resources, bridging progress and sustainability for all. We call this Life Is On.

Our mission is to be your digital partner for Sustainability and Efficiency.

We drive digital transformation by integrating world-leading process and energy technologies, end-point to cloud connecting products, controls, software and services, across the entire lifecycle, enabling integrated company management, for homes, buildings, data centers, infrastructure and industries.

We are the most local of global companies. We are advocates of open standards and partnership ecosystems that are passionate about our shared Meaningful Purpose, Inclusive and Empowered values.