

# Leverage industrial metaverse and AI for smarter data centers with HCLTech DCxTwin

The demand for computational power is surging due to resource-heavy technologies such as generative AI, high-performance computing (HPC), blockchain, etc. while data centers (DCs) are playing catch-up to meet these demands. It's not practical to just construct more DCs from a cost and sustainability perspective. This is why optimizing the existing data centers and realizing their maximum potential is crucial.

## The key challenges in the existing DC setups include:



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| <ul style="list-style-type: none"> <li>▪ <b>Efficiency</b><br/>Poor IT density hindering efficiency</li> </ul> | <ul style="list-style-type: none"> <li>▪ <b>Planning</b><br/>Poor remote support affecting manageability</li> </ul>                  |
| <ul style="list-style-type: none"> <li>▪ <b>Manageability</b><br/>Lack of predictive capabilities</li> </ul>   | <ul style="list-style-type: none"> <li>▪ <b>Regulatory</b><br/>Stringent regulatory compliances with addition of new KPIs</li> </ul> |

## Supercharge the efficiency and reliability of your data center with HCLTech DCxTwin

DCxTwin is a digital twin of your DC infrastructure with AI-powered spatial intelligence to monitor, manage, and optimize operations. It promotes sustainability through efficient asset allocation and risk management using advanced techniques like simulations, predictive models, failure diagnosis and remote assistance while also improving overall DC efficiency.

### 1. Efficiency



- Increase the IT infrastructure density
- Make faster performance & investment decisions with simulations

### 2. Change management



- Faster asset deployment with smart ticketing
- Design, simulate, test and validate changes

### 3. Sustainability



- Right sizing the datacenter capacity
- Meet net zero goals with real-time emission alerts and patterns

### 4. Reliability

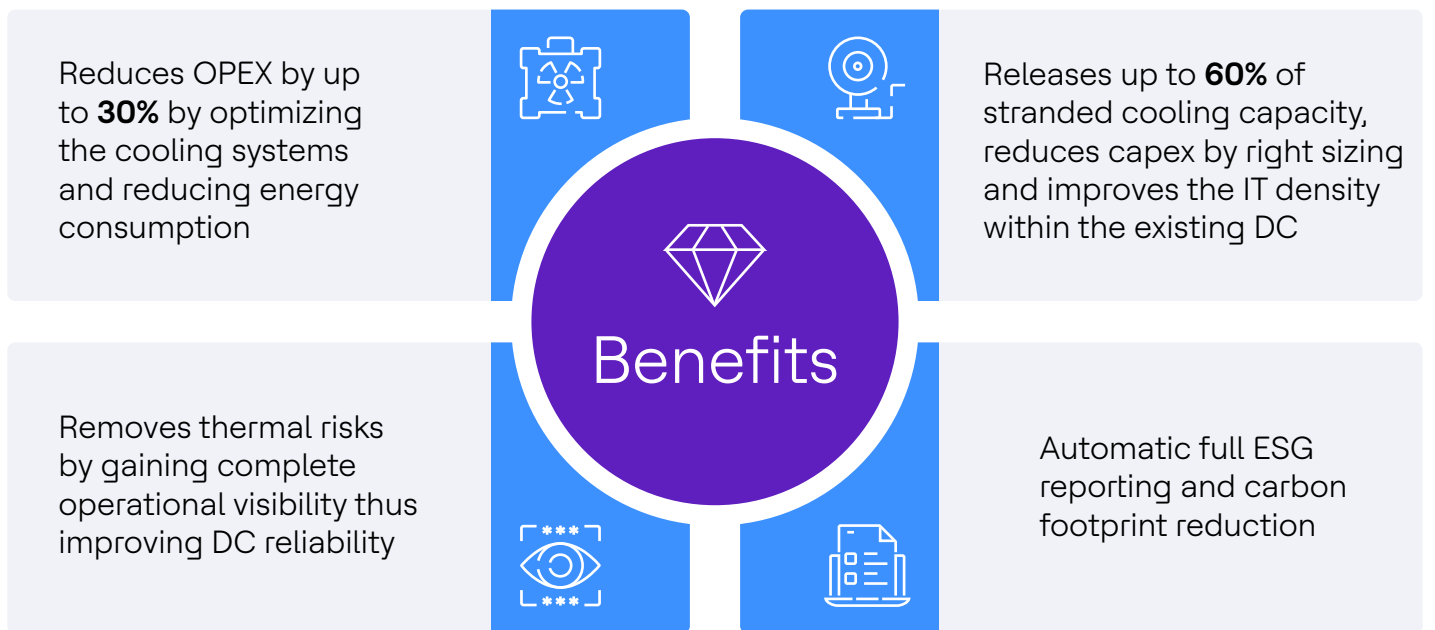


- Improved on call support
- Better risk management
- Advanced predictive maintenance & health alerts

### 5. Resilience



- Predict future space & power needs
- Manage ESG, regulatory and compliance needs



## Why HCLTech

- Leader in all major analyst reports
- Presence in **60 countries, 210+ delivery centers** and **150+ HCLTech labs** to supercharge progress at scale and across geographies



For more information, you may reach out to us at [HCBU-PMG@hcltech.com](mailto:HCBU-PMG@hcltech.com)