

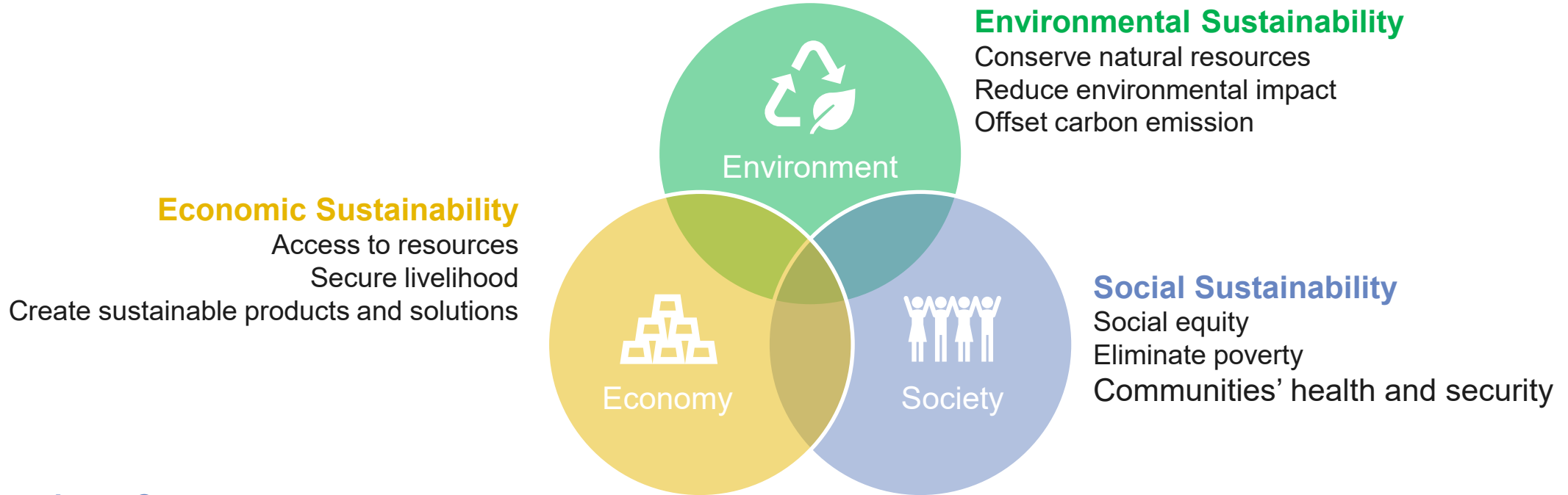
Energy Efficiency and Sustainability

Driving sustainable value chains in collaboration with Microsoft and other ecosystem partners

March 2022

What is Sustainability?

A plan of action for people, planet and prosperity¹



Did you know?

If every office worker in the United Kingdom used one less staple a day by using a reusable paper clip, 120 tons of steel would be saved in one year.²

¹ A/RES/70/1 - Transforming our world: the 2030 Agenda for Sustainable Development
² Horton, Jocelyn ed. "Mad About ... Tropical Rainforests" Friends of the Earth, Jan 2003.

Sustainability Market Opportunity

Large system integration play to positively impact the world



\$60B Energy Optimization Opportunity¹



90% Of new facilities deploy sustainability and smart workplace applications by 2025²



\$26T Economic benefits³



\$200B Carbon offsets market valuation⁴

- By 2023, 60% of Organizations will be implementing sustainability-related considerations into their business life cycle⁵.
- By 2025, 75% of organizations will deploy technology to monitor utilization on premises, in the cloud, or at edge locations to improve utilization metrics that reduce energy costs and improve sustainability⁶.

The sustainability performance of a company will be as important to its key stakeholders as its financial metrics.

¹ Market Data: Global Energy Efficiency Spending by 2028, Guidehouse Insights, 2020

² IDC FutureScape: Worldwide Future of Work 2022 Predictions

³ The Global Commission on the Economy and Climate, 2018

⁴ S&P Global Commodity Insights, 2020


⁵ IDC FutureScape: Worldwide Services 2022 Predictions

⁶ IDC Worldwide Sustainable Strategies and Technologies 2022 Predictions

Energy Efficiency Solution


Digital Twin based MVP implementation for quick value

 Single pane of glass visualization

 Real-time and historical data

 Monitoring, contextualizing and alarming

 Fault detection & diagnosis

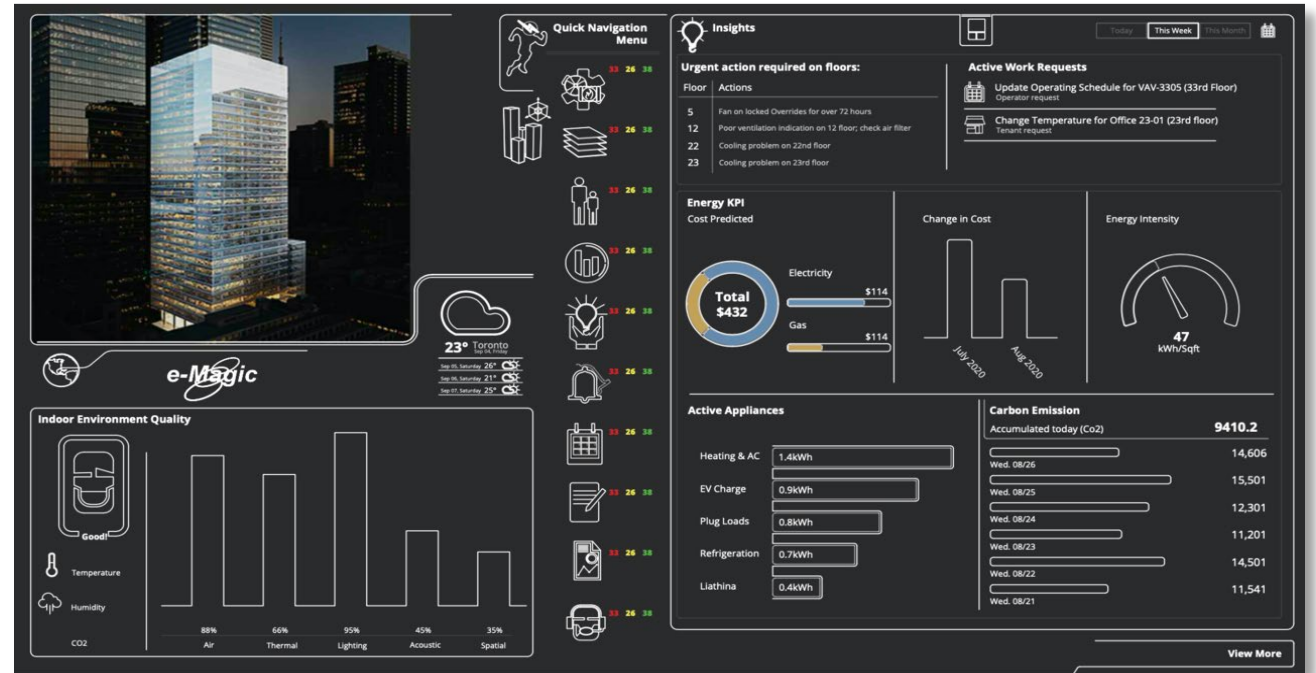
 ML and AI for Peak demand management and Insights for energy savings

 Financial analysis

 Workflows and business systems



Scalable, secure, high-availability platform.



Integrate and normalize all telemetry data



Why NTT Data?

Simplified comprehensive sustainability solution with industry leading ecosystem partners



Delivery Simplification

Consulting led delivery to align sustainability goals to business goals

- » Proof of Value in 12 weeks
- » Consulting led project execution for business outcomes
- » Single point of contact by simplifying the large IoT ecosystem



Industry Leading Partnerships

Pre-integrated End-to-end Ecosystem

- » Cloud platform and ML/AI for sustainability
- » Digital Twins
- » Sensors, devices, and edge solutions
- » Niche solutions, algorithms, LPWAN, P5G and cloud for sustainability



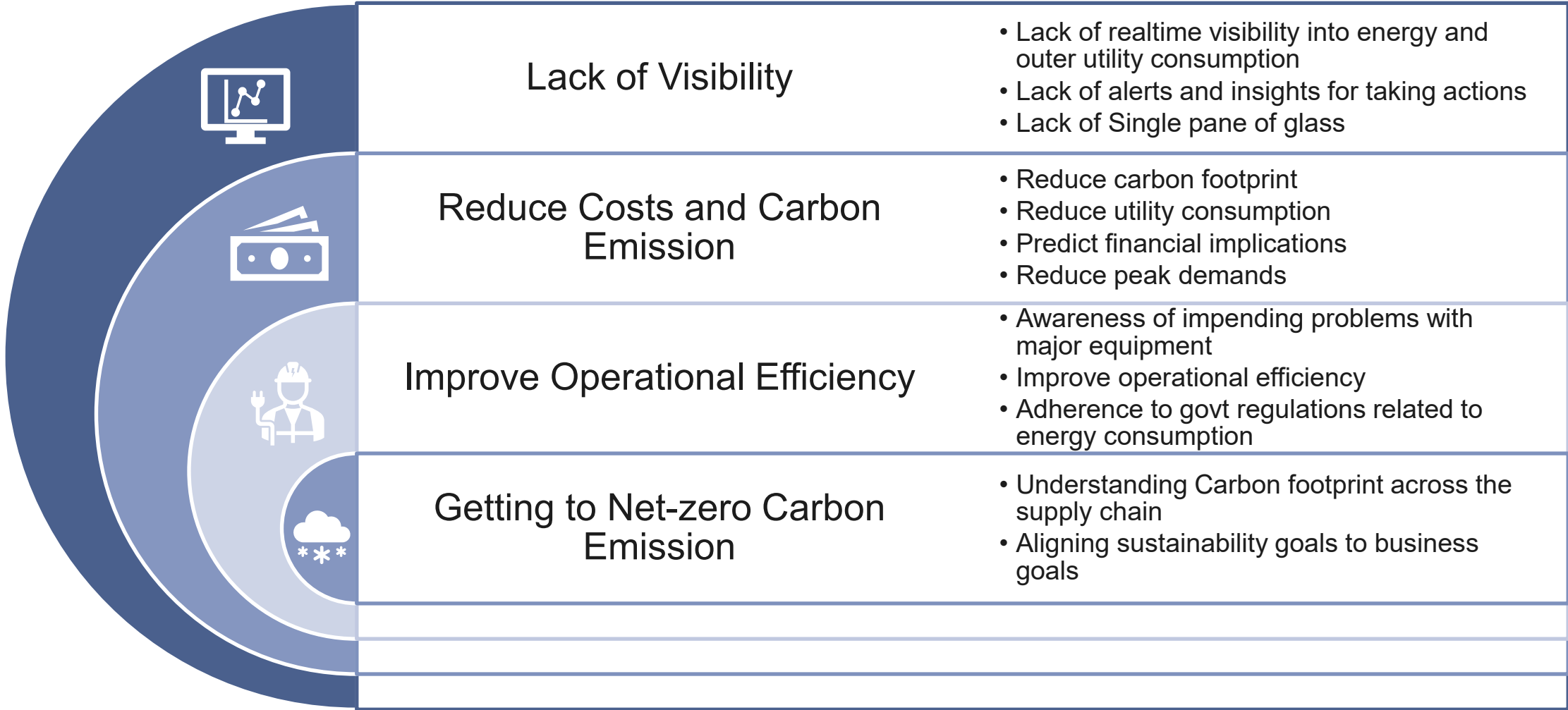
Comprehensive Sustainability Roadmap

Roadmap for comprehensive suite of solutions for ESG and business innovation

- » Getting to Net zero carbon emission across the supply chain
- » Other utilities (water, gas), occupancy efficiency, air quality, safety and cleaning
- » AI enabled digital twins for climate modeling and scenario planning
- » Smart spaces and workplace applications

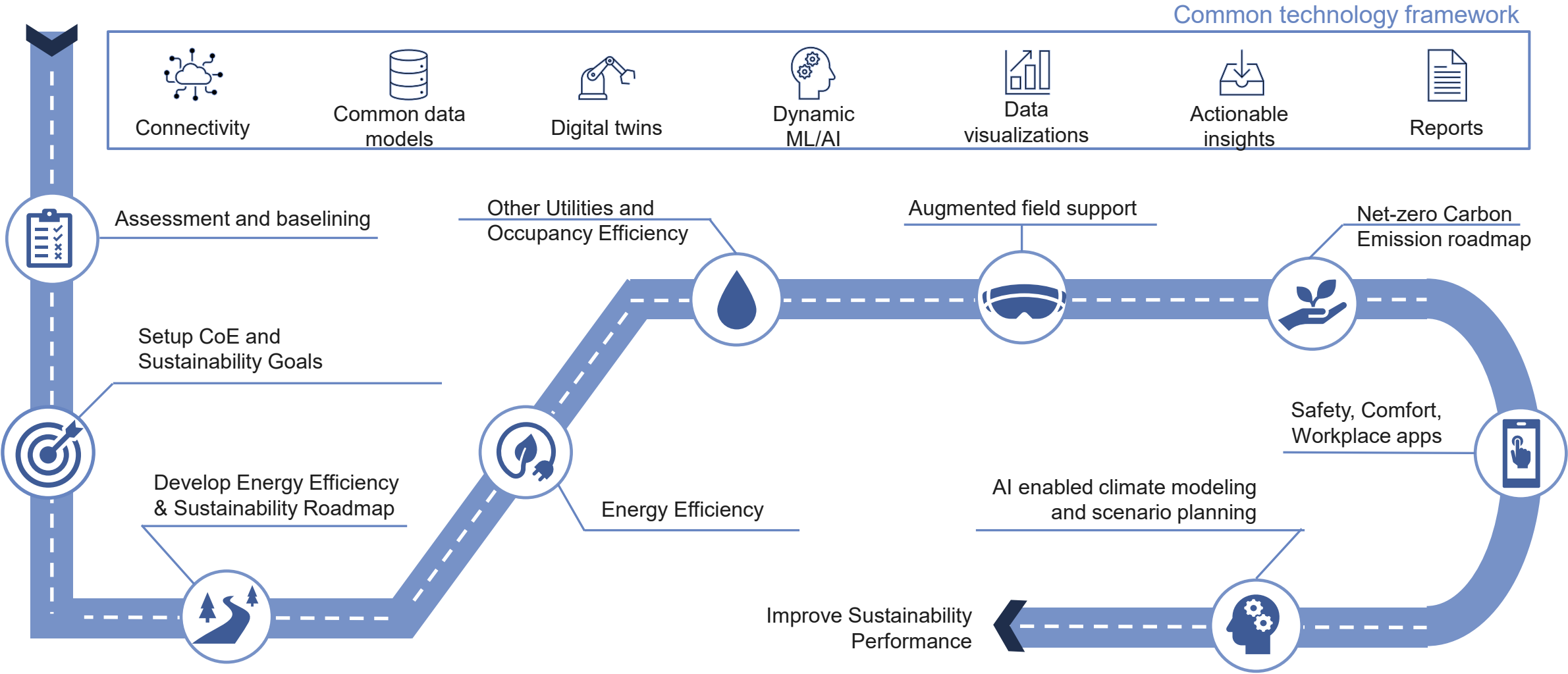
Energy Efficiency and Sustainability Challenges

Lack of realtime visibility for utility consumption, lack of data insights for cost savings impede getting to carbon net-zero emission



Sustainability Roadmap with Digital Foundation

Consulting-led transformation -- Technology-led implementation



Multi-horizon Sustainability Transformation Journey

Advisory services coupled with robust digital foundation to drive sustainability transformation

Engage on all horizons simultaneously

Address immediate impacts and then leverage transformative capabilities to:

- Develop sustainable operations and products
- Create sustainable business models
- Reach Net-zero carbon emission
- Gain competitive advantage

Digital enablers and strategy are necessary to solve sustainability challenges and realize opportunities for organizations

- Do what you do today – **Better**
- Optimize business functions and improve processes to reduce carbon, water, waste and environment impact
- Automate sustainability report capability

Incremental

Innovative

- Do what you do today – **Differently**
- Supply chain carbon footprint
- Insight driven decision making for carbon offsetting

Transformative

- **Do everything differently** and create a shared value
- Sustainable products, processes and business models
- AI enabled intelligent supply chain
- AI enabled digital twins for climate modeling and scenario planning

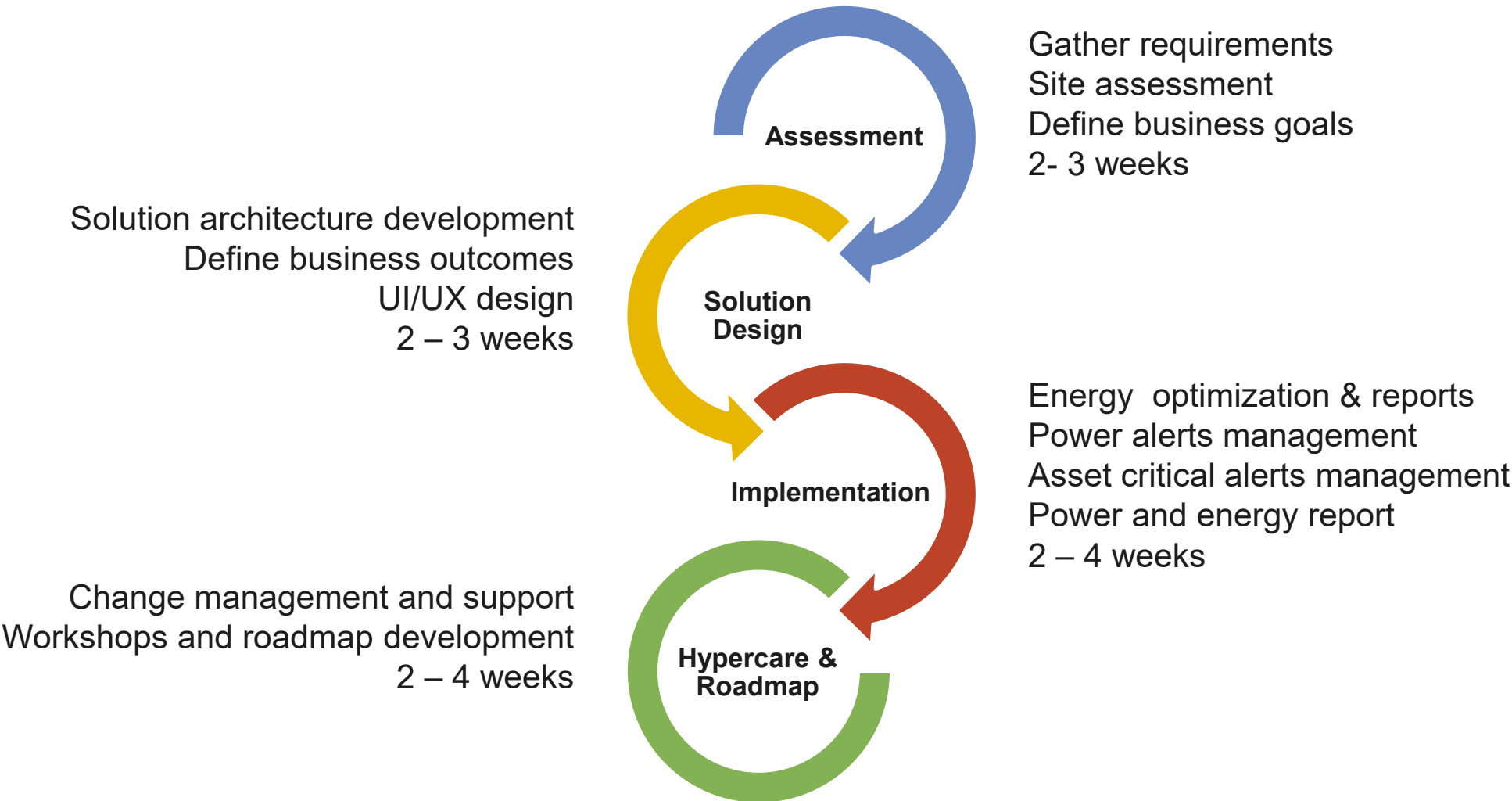
Return on Value

Aligning sustainability strategy with business strategy while reducing the costs and improving operational efficiency



Energy Efficiency MVP Delivery

Prebuilt scalable solution for quick value with predictable schedules



NTT DATA as a partner in the pursuit of Sustainable Innovation

We endeavor to fulfil sustainability mission by **creating new value that helps resolve social issues** through building long-term **relationships** with clients, providing **end-to-end support**, from **STRATEGIC** and **ORGANIZATIONAL** framing, workstyle innovation, business category-specific **SOLUTION DELIVERY**, support in the **IMPLEMENTATION** of said guidelines

STRATEGY

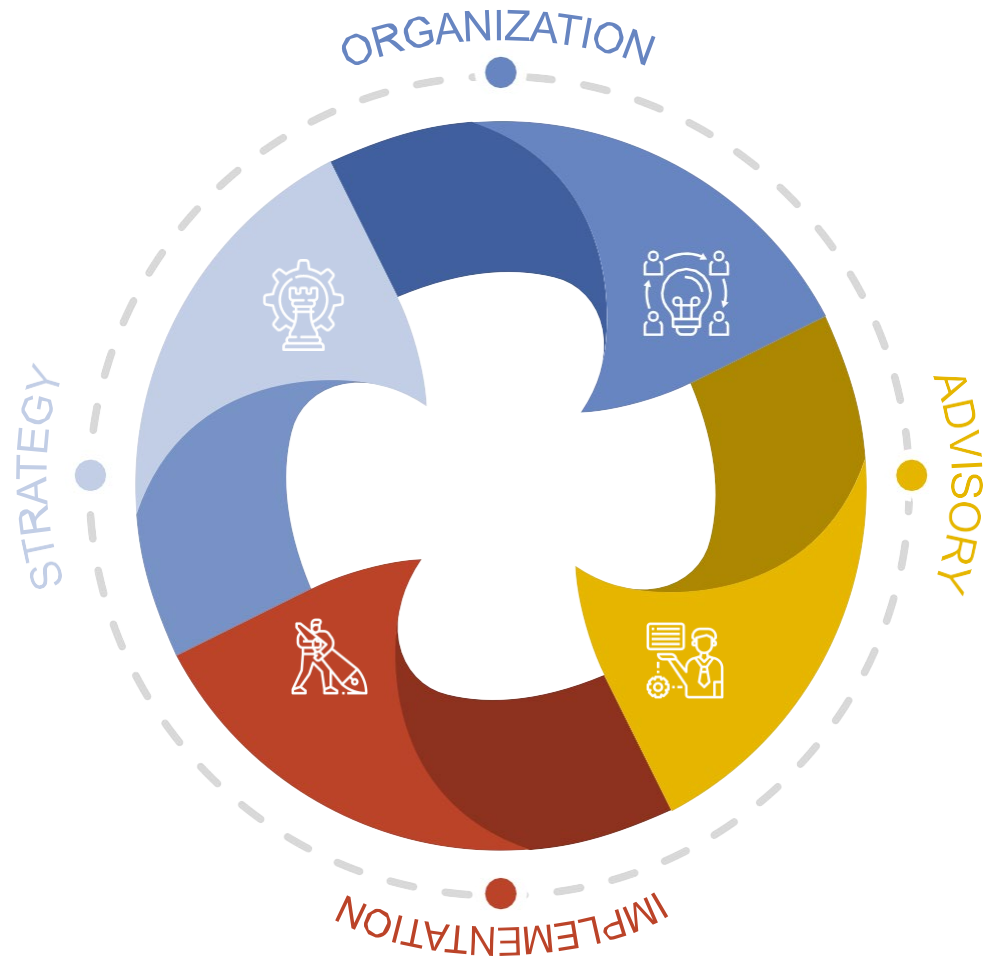
Aligning sustainability strategy with business strategy

will enable a company’s sustainability efforts to deliver value to the business, especially when the sustainability strategy is translated into clearly articulated goals, metrics, and lines of accountability across the organization

IMPLEMENTATION

Adopt technologies to manage and support Sustainability Agenda

From energy-efficient solutions, to innovative systems and applications based on digital twins, AI, and Private 5G that guarantee organizations to capture, measure, and improve value from sustainability efforts



ORGANIZATION

Embed sustainability into business functions

An organization’s setup should align with its overall sustainability approach and strategy, building cross-functional leadership teams to drive their programs: integrating sustainability into more of their core business functions, from finance to sales and marketing and HR, and for functional leaders to have their own sustainability action items

ADVISORY

Enhance governance for better results

Good governance structures allow to oversee and manage sustainability efforts in order to drive better results from it. In addition, integration with business processes allows the habilitation and monitoring of some key success factors, such executive-team oversight and clear lines of accountability.



NTT DATA Services