



TRE TECHNOLOGY
Trailblazing - Resilience - Evolution



Company **PROFILE**

TABLE OF CONTENT

01.	ABOUT US	02
02.	MISSION & VISION	03
03.	CORE VALUES	05
04.	DATA CENTER SERVICES	07
05.	OUR SOLUTIONS	17
06.	INTRODUCTION OF XSCALE	21

01. About US

TRE Technology (TRE Tech) is proud to be a pioneering technology company in Vietnam, embodying resilience and flexibility inspired by the bamboo—an enduring symbol of vitality and strength. Rooted in robust internal capabilities and uncompromising quality, we continuously push boundaries, innovate, and adapt to the ever-changing landscape. Like bamboo, we understand that modern technology demands agility and adaptability to accompany our clients through every challenge and lead them toward a sustainable future.



TRE stands for Trailblazing - Resilience - Evolution



Trailblazing: TRE Tech is dedicated to staying ahead by seizing new trends and consistently innovating to deliver exceptional, cutting-edge solutions.



Resilience: We build trust and reliability, ready to tackle every challenge while continuously enhancing the quality of our services.



Evolution: Embracing flexibility and a commitment to constant improvement, we adapt swiftly to market demands, always aligned with the latest in technology.

Tre Technology is committed to being a trusted partner on the path to digital transformation, supporting businesses in achieving lasting success and sustainable progress.



MISSION

Our mission is to deliver cutting-edge solutions in data center infrastructure, empowering our clients to optimize system performance and reliability in the digital era.

At TRE Tech, we are committed to not only providing high-quality products but also standing by our clients on their digital transformation journeys, laying the foundation for enduring success and sustainable growth.



VISION

TRE Technology aims to become a leading IT company in Vietnam, the region, and worldwide, distinguished by our sustainable and advanced data center infrastructure solutions. We aspire to shape a digital future where technology serves as both a tool and a driving force for sustainable development, optimizing processes and enhancing operational efficiency for businesses.



03.

CORE VALUES



INTEGRITY

Upholding honesty and openness in all interactions with clients, partners, and employees.



INNOVATION

Constantly exploring and applying creative, advanced solutions to meet client demands.



CONTINUOUS LEARNING

Cultivating growth through teamwork, collaboration, and a commitment to excellence, while embracing ongoing learning to achieve the highest quality outcomes.



SUSTAINABILITY

Advocating for responsible practices and solutions that consider long-term impacts on the environment and society.



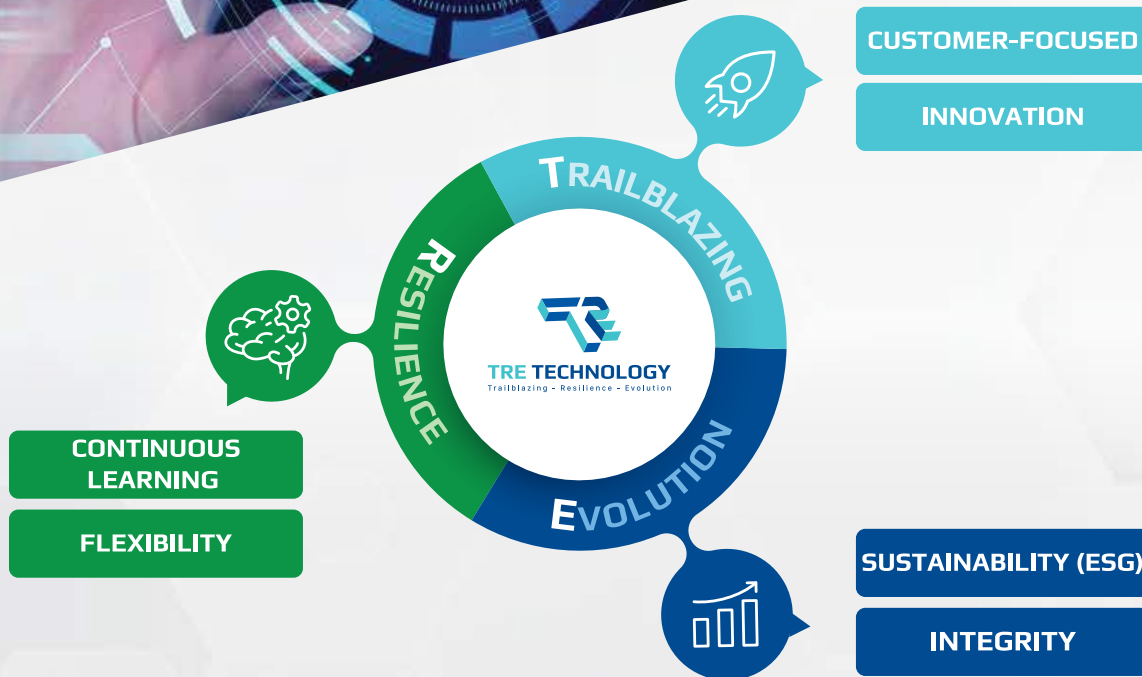
CUSTOMER-FOCUSED

Placing client needs and objectives at the forefront, ensuring their satisfaction and success.



FLEXIBILITY

Adapting swiftly to evolving technologies, market conditions, and client expectations.



04. Data center SERVICES

CONSULTANCY	4.1
DESIGN	4.2
CONSTRUCTION	4.3
IMPLEMENTATION	4.4
OPERATION	4.5



4.1 Consultancy Services

With a foundation of deeply experienced professionals in the data center industry, we are a trusted partner, delivering expert consultancy services across all data center-related processes.

01

Site assessment & Feasibility Study

Evaluate potential sites to ensure they meet operational, environmental, and regulatory standards. It covers power, cooling, connectivity, and geographic risks, providing insights to support site selection and alignment with business needs.

02

Auditing Services

Provide comprehensive assessments of data center covering from **Design, Facilities to Operations** based on leading international standards like **TIA-942, DCOS**.

03

DC Investment Portfolio Consulting

Provide expert guidance in developing and managing a diverse portfolio of data center investments including analyze market trends, assess potential opportunities, conceptual design, technology explanation and risk management. Our team leverages industry insights to optimize portfolio performance, ensuring alignment with strategic objectives and long-term growth in the evolving data center landscape.

04

Legal Advisory

Offer specialized guidance on regulatory compliance, contractual agreements, and data protection specific to data center operations. We help clients navigate complex legal landscapes, ensuring adherence to industry standards, mitigating risks, and securing assets for smooth and compliant data center management.

4.2 Design

With a foundation of deeply experienced professionals in the data center industry, we are a trusted partner, delivering expert consultancy services across all data center-related processes.

1

Conceptual Design

Establishes the initial vision and high-level requirements, defining the data center's purpose, basic layout, and major systems (e.g., power, cooling, security).

2

Schematic Design

Refines the conceptual design with more detail, specifying key components, basic layout configurations, and initial system designs.

3

Design Development

Further develops the schematic design, detailing specific equipment, room layouts, and architectural elements.

4

Construction Documents

Provides comprehensive technical documents and specifications required for permitting and construction.

5

Detailed Engineering Design

Breaks down each system (power, cooling, network) into in-depth technical and operational requirements, aligning closely with industry standards.

6

Build and Implementation Design

Adapts design documents to practical, on-site construction and implementation requirements.

7

As-built Design

Records any changes or deviations made during construction to create an accurate reflection of the final facility.





4.3 Construction

At TRE Technology, we prioritize quality, precision, and adherence to data center construction best practices, ensuring that every data center we build is capable of handling the demands of today's digital landscape while also providing flexibility for future growth.

Focused on transforming design plans into fully operational facilities, our construction services manage all aspects of building and data center infrastructure setup. We offer two distinct approaches for developing or expanding facilities based on your needs.





GREENFIELD CONSTRUCTION

Provide end-to-end construction on new sites, enabling us to create highly customized, scalable data centers that deliver optimal performance from the ground up. This approach is ideal for organizations looking to build large, state-of-the-art facilities with full control over every aspect of the infrastructure.



BROWNFIELD CONSTRUCTION

Specialize in transforming existing structures into efficient, high-capacity data centers. By leveraging current infrastructure, we expedite project timelines and optimize costs, making this option perfect for rapid expansion or deployment in high-demand urban areas. Whether creating a new facility or upgrading an existing one, our goal is to deliver reliable, scalable solutions that support our clients' growth and operational efficiency.

4.4 System Implementation



AT TRE TECHNOLOGY

We cover the deployment, configuration, and integration of essential systems that enable a data center to operate with high performance.



These services are designed to create a fully integrated data center ecosystem, combining cutting-edge hardware, cloud capabilities, disaster resilience, and intelligent automation to meet the demands of modern, dynamic IT environments.

01



Hardware and Network Systems Setup

Expert deployment of servers, storage, and network infrastructure, creating a robust foundation that supports seamless connectivity and high-performance operations.

02



Software-Defined Solutions

Deployment of software-defined networking (SDN), storage (SDS), and data center solutions that provide enhanced flexibility, scalability, and centralized control of resources.

03



Cloud Integration and Migration

Smoothly transition and integrate existing systems with cloud platforms, providing flexible, scalable, and cost-effective solutions that empower hybrid or fully cloud-based environments.

04



Backup & Disaster Recovery (DR) Services

Implementation of backup and disaster recovery solutions to safeguard critical data and ensure rapid recovery, minimizing downtime and business impact in the event of a disruption.

05



Data Center Infrastructure Management (DCIM) System Setup

Integration of DCIM tools for real-time monitoring and management, offering insights into power, cooling, and capacity to optimize operations and resource usage.

06



Systems Integration and Automation

Configuration of automated workflows and system integrations that enhance operational efficiency, reduce manual intervention, and improve response times.

4.5 Operation

With the round-to-clock support and proactive management services, TRE Technology's operation services enable uninterrupted operations, safeguard data and infrastructure, and promote sustainable practices to align with business goals and responsibilities.

01

24/7 MONITORING AND SUPPORT

Continuous monitoring and rapid-response support to identify and resolve issues immediately, maintaining uptime and performance.

02

HYPERCARE AND MAINTENANCE

Regular maintenance and swift repairs for all critical infrastructure to keep systems operational, reduce wear, and extend equipment life.

***Round-to-clock Support
And Proactive Management Services***



03

SYSTEM UPDATES AND PATCH MANAGEMENT

Scheduled updates and security patches to ensure systems stay protected against vulnerabilities and perform at their best.

04

SYSTEM HEALTH CHECK SERVICES

Routine assessments of system health, performance, and capacity to identify potential issues early and optimize resource use.

05

TRAINING AND SKILL DEVELOPMENT

On-site and remote training programs to upskill client's DC staffs, empowering them to handle routine operations, troubleshooting, and emergency situations confidently.

06

SUSTAINABILITY MANAGEMENT

Implementation of energy-efficient practices, waste reduction, and environmental management to minimize the data center's carbon footprint.



05. SOLUTIONS

TRE Technology is proud to offer a comprehensive range of innovative solutions to our customers, including:

1

AI SURVEILLANCE AND SECURITY

Advanced systems for surveillance and smart access controls enabled by AI allow real-time monitoring with face and behavior analysis.

2

SMART WI-FI

Advanced wireless internet solutions designed to deliver consistent connectivity and superior performance, especially in densely populated areas. Includes features like Wi-Fi marketing and customer analytics

3

MDC (MODULAR DATA CENTER)

Scalable and rapidly deployable modular data centers designed for flexibility and high efficiency to meet growing infrastructure needs



At TRE Technology, we are dedicated to delivering these cutting-edge solutions to help our clients achieve their goals and thrive in the digital landscape.

4**AI FACTORY
DATA CENTER**

A state-of-the-art data center designed to support intensive AI workloads and data-driven operations.

Provides a robust, scalable infrastructure tailored for AI model training, data processing, and high-performance computing.

5**DATA TRANSMISSION
(CONNECTIVITIES)**

End-to-end solutions ensuring reliable, high-speed data transfer to provide seamless connectivity across devices and networks.

6**IoT
(INTERNET OF THINGS)**

Comprehensive IoT solutions that connect devices and systems, enabling automation and real-time data exchange for improved operational efficiency.



TRE TECHNOLOGY
Trailblazing - Resilience - Evolution

TRE TECHNOLOGY
Trailblazing - Resilience - Evolution

XSCALE DATA CENTER

XSCALE
DATA CENTER



06. xSCALE

INTRODUCTION

We are proud to introduce **xSCALE**, an advanced data center solution designed to meet the evolving needs of the information technology market.

With a flexible modular architecture, **xSCALE** optimizes performance and scalability, allowing businesses to easily scale operations according to actual needs.

Integrating virtualization technologies brings efficiency to the operation and management process. Multi-layer security system and smart redundancy ensure your data is always **safe and available 24/7**.



OPTIMIZED TOTAL COST OF OWNERSHIP



More IT Rack Space



Less Energy
Consumption



Quicker
Deployment Speed



What is xSCALE ?

TRE TECHNOLOGY'S **xSCALE** is a product line dedicated to **Modular Data Center Infrastructures**. Designed for energy efficiency and minimal environmental impact, xSCALE offers advanced cooling, renewable energy integration, and scalability.

With xSCALE, TRE Technology is committed to supporting the transition to sustainable data center operations, meet regulatory standards, and achieve long-term operational efficiency.

Ideal solution for businesses aiming to invest in eco-friendly infrastructure while maintaining high performance and scalability.



FORTIFIED SECURITY

- IT environment with IP55 rating for excellent dust resistance and noise suppression.
- Anti-condensation design ensures quiet, stable, and secure operations.
- Advanced 3-in-1 access control for enhanced security.
- Optional integration with video surveillance systems.



OPTIMIZED PUE AND GREEN EFFICIENCY

- Real-time monitoring of PUE (Power Usage Effectiveness) for energy efficiency.
- Precision air conditioning with efficient inverters to support energy savings.
- Integrated IP55-rated cold/hot aisle containment to prevent energy loss from air mixing.



SMART MANAGEMENT AND MONITORING

- Comprehensive sensor communication with a unified, real-time monitoring and management hub to reduce downtime.
- Supports centralized, remote management and continuous monitoring, improving operational flexibility and efficiency.



HIGH FLEXIBILITY

- Modular, LEGO-style design allows easy customization and scalability.
- Prefabricated, plug-and-play setup simplifies deployment and relocation, reducing installation time and effort.
- High compatibility with local management systems for seamless integration with existing BMS infrastructure.



KEY BENEFITS





PRODUCT



OVERVIEW

TRAILBLAZING RESILIENCE EVOLUTION



TRE TECHNOLOGY

Trailblazing - Resilience - Evolution

 L17-11 17th floor, Vincom Center, 72 Le Thanh Ton, Ben Nghe Ward, District 1, HCM City

 1900638038

 <https://tretechnology.vn>

 contact@tretechnology.vn