

CASE STUDY

# ACCELERATING THE DATA CENTRE CONSTRUCTION PROJECTS

PREDICTABILITY & ASSURANCE



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## Overview

Teknobuilt is working with Microsoft to meet its aggressive data centre demand and accelerate its speed to market. The key focus is on **achieving schedule predictability and visibility and preventing delays** to ensure Microsoft delivers on its commitments.

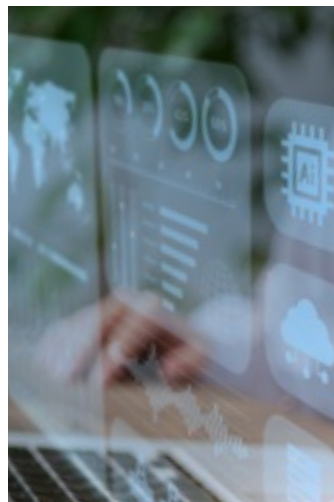
With the Teknobuilt Subject Matter Experts (SMEs) support and the Digital Advanced Work Package (AWP) methodology, together with the innovative **Digital Work Block** approach, Teknobuilt is facilitating an internal cultural transformation and improved processes within Microsoft.

The **block-based execution** is a breakthrough from a century-old activity-based project management paradigm. Every block is visible to all parties and encapsulates a specific scope of work, with all data related to it (quantities, drawings, the position of material in the procurement process, schedule, costs, safety, machinery etc), digitally linked to it. This new methodology represents the transition from status tracking of activities to a set of activities which are allowed to be interrogated by a block and can be managed and tracked with accountability at a much higher level of fidelity.

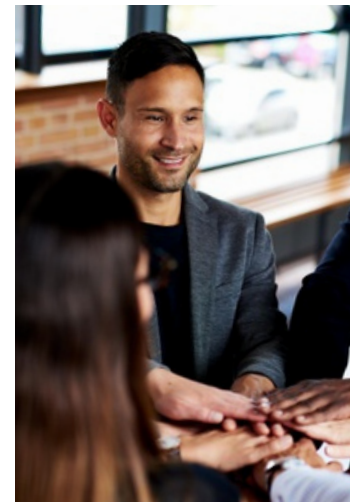
## Objectives



Shorten the timeline to construct and deliver a data center



Improve schedule predictability and visibility



Improve owner's assurance

## Challenges

As one of the largest cloud solution providers, Microsoft is facing increasing demand for data centers and is investing huge amounts of resources in this activity. Despite those efforts though, it was facing specific issues due to a traditional approach to project delivery and internal inefficiencies.


- Highly likely **schedule over-run**
- Large number of **changes** during construction (design, material & equipment substitutions)
- Issues not surfacing until **late** in the game
- **Poor visibility** in the execution aspects of the project
- **Inefficiencies** in the construction sequence
- Lots of **time wasted** in meetings without action tracking and follow-up and mainly focused on status today
- Readiness checks **opinion-based**
- **Only 20%** of projects achieve the Weather Tight milestone (AMERS)



**Teknobuilt** developed a **repeatable and scalable standardized process** to drive predictability, visibility, and schedule certainty for Data Centre Delivery (DCD)

### How

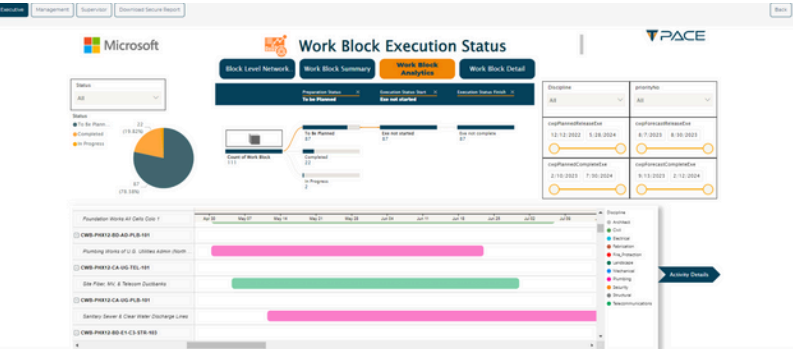
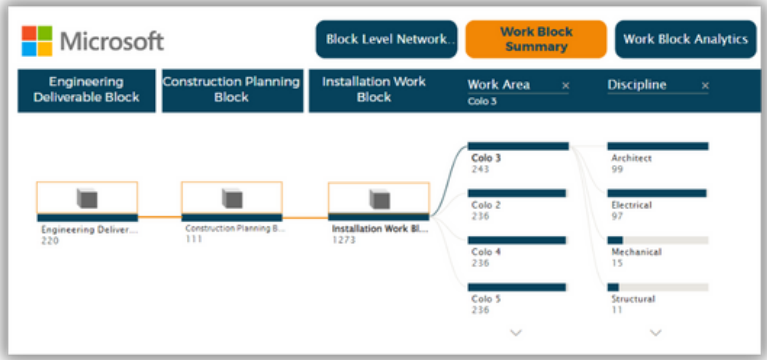
- Engaged with all relevant internal and external stakeholders across the EPC
- Revamped the WBS and shifting from the traditional activity-based approach to the Digital Construction Block methodology
- Developed blueprint for the Construction Work Blocks
- **PACE:** GIS | iPlanner | Look Ahead Dashboards
- Internal training sessions



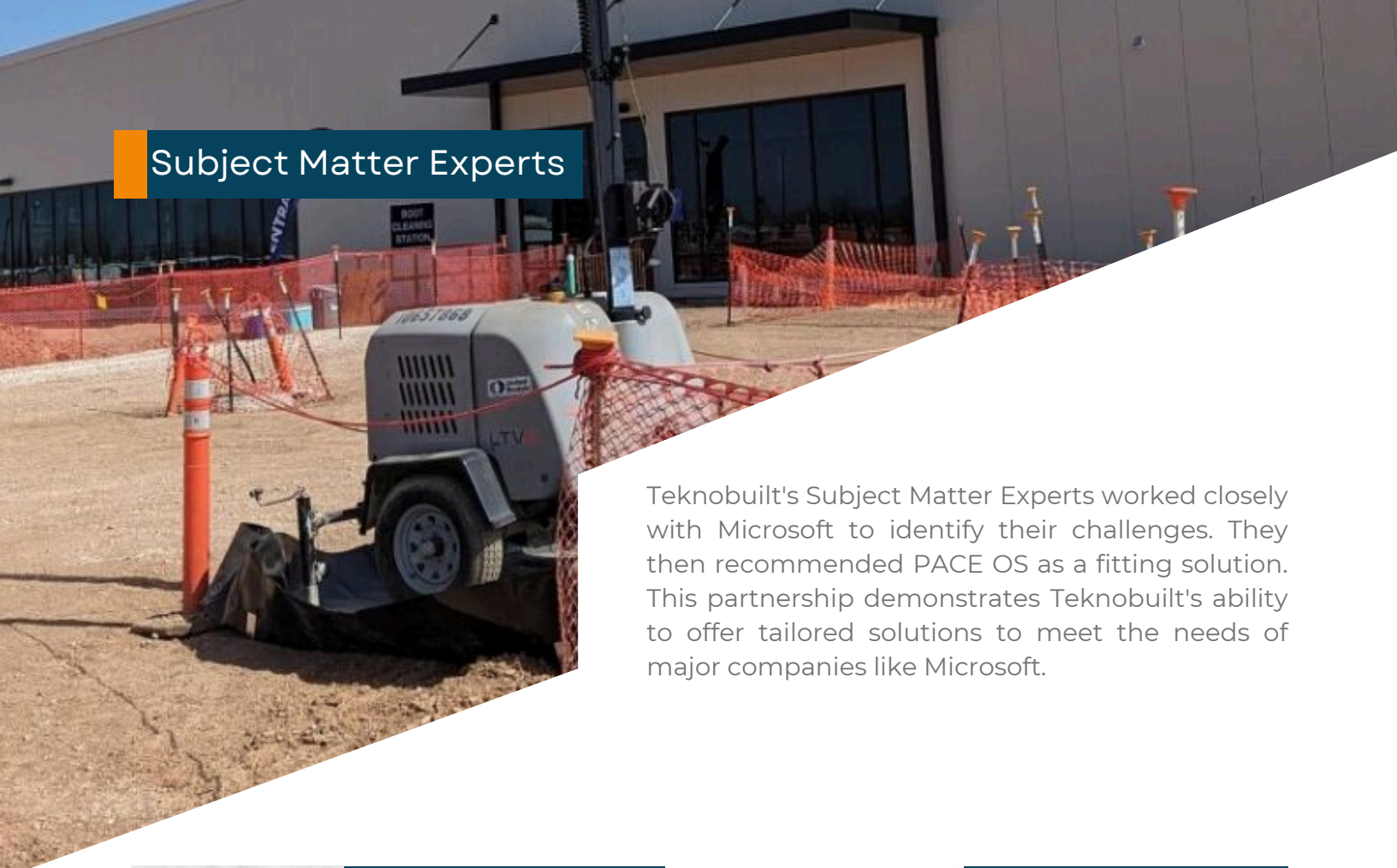
***“Turning project delivery into a digital assembly line to drive standardization & operational efficiencies”***

# Benefits

- Predictable construction
- Less interruptions, rework & rescheduling
- Owner – early visibility of potential hinderances and delays
- Visibility & certainty of GC and firm deliveries
- Certainty over equipment and material delivery
- Better control for completions and commissioning
- Real-time analytics and reporting



## Subject Matter Experts



Teknobuilt's Subject Matter Experts worked closely with Microsoft to identify their challenges. They then recommended PACE OS as a fitting solution. This partnership demonstrates Teknobuilt's ability to offer tailored solutions to meet the needs of major companies like Microsoft.



Yogesh  
Srivastava

### CEO & Founder

AWP consulting & workshops; organizing & tracking project deliverables



Jacek  
Morawski

### VP Digital Engineering & Services

Engaging with clients to oversee their needs; monitoring requirements closely.



Daniel  
Canning

### VP Project Assurance & Delivery

Delegating tasks to the Transformers according to client specifications; monitoring their progress.



## Expert Transformers

Teknobuilt's expert Transformers have partnered with Microsoft, providing innovative solutions like PACE to mitigate challenges. This collaboration has streamlined processes, enhanced efficiency, and boosted productivity for Microsoft. With Teknobuilt's expertise and transformative solutions, Microsoft continues to excel in navigating complex industry landscapes.



Alara  
Gebes

### Program Manager

Synchronizing tasks through Microsoft Teams; organizing and tracking project deliverables.



Ajay  
Chauhan

### Productivity Engineer

Deploying AWP system; ensuring smooth project execution & timely delivery of project objectives



Mohamed  
Shahin

### Productivity Engineer

Facilitating collaboration via Microsoft Teams; meticulously strategizing and monitoring outcomes



## About Teknobuilt



Teknobuilt is transforming the way projects are built and operated with an unmatched digital assurance in meeting delivery timelines. With the vantage of Teknobuilt's unified digital platform - PACE OS products and services, the accelerated execution efficiency, standardization and predictability can help retrieve up to 8 to 20% as actual cost reduction from the estimate.

Owners and builders especially during the execution often end up where the information is delayed, or remain in the dark - not knowing the true project status. Not until additional funds are needed or delays become unmanageable.

Eliminating the siloed execution, overcoming organizational systems and data fragmentation; PACE works continually to de-risk the scope and the digital execution framework has an impact where "the sum is greater than the parts" across owners, engineering, suppliers, and contractors.

### **Empowering Decision Makers:**

New projects or the ones already in design or even those where the construction has started, PACE platform features a unique block-based map to help navigate the entire ecosystem of a project from design to delivery. With the unprecedented power to look at the entire value chain using PACE Digital Control Tower™, decision makers have the instantaneous visibility, predictability, and proactive execution control with data-driven intelligence as never experienced before.

Teknobuilt's vision is to help the world build better - safely, smartly, and sustainably. Block by block, the transformative approach to deliver **speed, surety, and savings** is reshaping the landscapes of how projects are built and operated.

# We are committed.. Let's build better!

TEKNOBUILT



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success story?

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your journey toward  
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