

Supporting a **Egypt Mega Utility Leader** - **Altai Super WiFi** Powers Fertiglobe’s Digital Backbone

Fertiglobe, the world’s largest nitrogen fertilizer producer in the MENA region, needed a wireless solution robust enough to handle the demands of large industrial plants operating 24/7. Partnering with Altai Technologies and NextGen, Fertiglobe successfully achieved complete outdoor Wi-Fi coverage across its Egyptian production facilities.

100%

Outdoor Coverage

Outdoor Wi-Fi coverage achieved across all Fertiglobe Egypt facilities

2

Major Facilities

EBIC and EFC plants fully connected

19

Access Points

Altai A8n(ac) Super WiFi units deployed

>1K

Personnel

Staff benefited from reliable outdoor connectivity

24/7

Network Uptime

Network uptime supporting uninterrupted production and logistics

3

Countries

Expansion path approved — Egypt, Algeria, Abu Dhabi

Project Overview

As one of the world's largest nitrogen producers and a key player in sustainable energy solutions, Fertiglobe needed a robust, industrial-grade wireless network to support its expanding operations. Partnering with Altai Technologies and NextGen, Fertiglobe implemented Altai's Super WiFi infrastructure, achieving **100% outdoor wireless coverage** across its major Egyptian facilities — EBIC and EFC. The deployment ensured uninterrupted communication, real-time data visibility, and operational efficiency across vast, high-demand industrial environments. This success now serves as the blueprint for Fertiglobe's connectivity strategy across its international sites, reinforcing Altai's role in supporting a mega utility leader driving the future of energy and food security.



Business Challenges

Complex Industrial Sites

Extending connectivity across complex industrial sites with wide outdoor zones and dense equipment areas.

High Reliability Requirements

Ensuring continuous, high-reliability network performance under tough environmental conditions.

System Integration

Integrating new wireless systems within existing communication and control infrastructure.

Scalable Foundation

Building a scalable network foundation for future expansion and digital applications, including IoT integration.

The Solution: Altai Super WiFi for Industrial Connectivity

To overcome these challenges, Altai Technologies deployed its **A8n(ac) Super WiFi Access Points** — a powerful, carrier-grade wireless system designed specifically for expansive and demanding environments.

- **Extended Coverage & Performance:**

Patented 8×8 MIMO smart antenna technology delivers up to 10× wider coverage and 1.17 Gbps throughput, ideal for large industrial and utility environments.

- **Superior Interference Rejection and Mitigation**

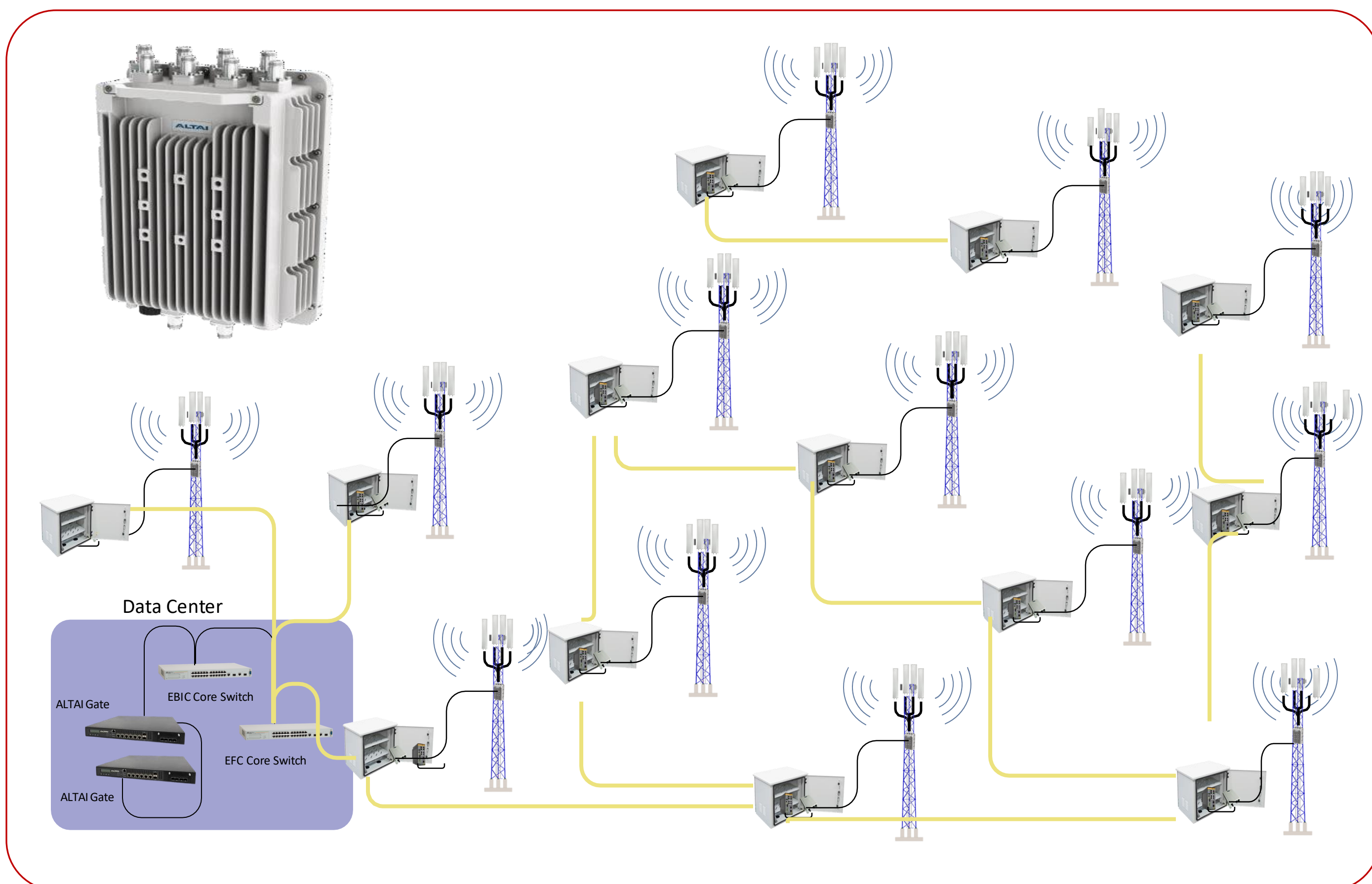
Equipped with a sophisticated RF filter to reject out-of-band interference from non-Wi-Fi radio systems, enabling co-location with existing radio systems on towers or building rooftops, thus reducing site acquisition time and effort.

- **Built for Tough Environments:**

IP67 weatherproof design, wind resistance up to 216 km/h, and wide-temperature tolerance ensure 24/7 reliability.

- **Secure, Scalable Management:**

Network access control (WPA, QoS and VLAN), wireless intrusion protection, and centralized monitoring via AltaiGate or AltaiCare enable simple, secure multi-site deployments.



Deployment Highlights

EBIC (Egyptian Basic Industries Corporation – Ain Sokhna)

Scope

100% outdoor Wi-Fi coverage for the plant.

Implementation

- 6 × Altai A8n(ac) Super WiFi Access Points.
- Integration with existing EBIC Core Switch, fiber backhaul, and AltaiGate controller.

Outcome

Reliable, high-bandwidth coverage enabling plant-wide connectivity for equipment monitoring and personnel mobility.



EFC (Egyptian Fertilizers Company)



Scope

Full outdoor Wi-Fi coverage across **production and storage facilities**.

Implementation

- 13 × Altai A8n(ac) Super WiFi Access Points.
- Integrated with EFC Core Switch and managed through AltaiGate for centralized control.

Outcome

Consistent connectivity supporting operational coordination and data-driven decisions across the site.

Results & Impact



Complete Coverage

Achieved 100% outdoor Wi-Fi coverage across both EBIC and EFC.



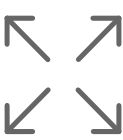
Real-Time Visibility

Enabled real-time communication and process visibility across critical operations.



Enhanced Reliability

Improved reliability and uptime, reducing network downtime and maintenance costs.



Scalable Platform

Created a scalable digital platform ready for smart manufacturing and IoT integration.



Strengthened Partnership

Strengthened partnership between Fertiglobe, NextGen, and Altai Technologies for future projects.

Future Outlook

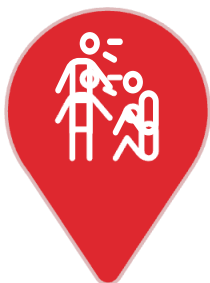
Following the proven success in Egypt, Fertiglobe has authorized the extension of Altai's Super WiFi solutions to its international operations — beginning with **Algeria and Abu Dhabi**. This expansion aims to replicate the strong performance, network reliability, and efficiency benefits achieved across its Egyptian facilities.

Egypt Launch

Proven Super WiFi deployment

Abu Dhabi Expansion

Extend to international hub



Algeria Rollout

Scale operations regionally

"Altai's solution exceeded expectations within Fertiglobe's demanding manufacturing environment—delivering robust, secure, and uninterrupted connectivity across production and logistics operations. This deployment empowers real-time operational visibility, seamlessly supports IoT and mobility applications, and establishes a scalable platform for future automation. As a result, Altai is driving measurable gains in efficiency, sharper decision-making, and faster progress along Fertiglobe's Industry 4.0 and digital transformation journey."

Network Operations Director, Fertiglobe

About Altai Technologies

Altai Technologies is a global leader in industrial-grade wireless broadband solutions, providing large-area connectivity powered by its patented **Super WiFi technology**. Deployed in enterprise, industrial, and smart city environments across more than **100 countries**, Altai combines innovation and reliability to help organizations unlock seamless connectivity, cost efficiency, and digital growth.

Empower your operations with reliable, large-area connectivity TODAY!

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