

Accelerating AI Infrastructure and Deployment: A Manufacturing Perspective

As enterprises increasingly adopt AI technologies, they face significant challenges in creating the necessary infrastructure to support these workloads, much like managing raw materials and optimising production processes. Digital Realty and IGXGlobal, an ePlus Technology Inc Company are partnering to help overcome these hurdles.

Challenges in AI Infrastructure and Deployment
Enterprises encounter several key challenges when deploying AI solutions, including:

1. **Infrastructure Complexity**
   AI workloads require specialised infrastructure that can handle high-density computing, storage, and networking demands, much like the complex supply chain management seen in modern manufacturing where WIP (work in progress) is carefully monitored.

2. **Scalability and Flexibility**
   Organisations need infrastructure that can scale rapidly, similar to just-in-time (JIT) manufacturing principles, to meet evolving AI application needs and ensure timely delivery of finished goods.

3. **Interconnectivity and Data Exchange**
   Seamless connectivity between infrastructure components, cloud services, and data sources is crucial, mirroring the interconnected nature of Industry 4.0 and the importance of a well-managed supply chain.

4. **Security and Compliance**
   Ensuring AI system and data security is paramount, much like maintaining quality control and regulatory compliance in manufacturing, where inventory turnover can impact overall efficiency.

Optimising AI Infrastructure with Manufacturing Principles
By applying principles similar to MRP (Material Requirements Planning), enterprises can better plan and manage their AI infrastructure needs. This includes forecasting demand, scheduling deployments, and ensuring the right resources are available at the right time.

The Digital Realty and IGXGlobal Solution
By combining their strengths, Digital Realty and IGXGlobal offer a comprehensive solution:

- **AI-Ready Infrastructure:** Digital Realty provides facilities with high-density capabilities and advanced cooling solutions, akin to having the right raw materials for production.
- **Specialised Consulting and Managed Services:** IGXGlobal offers extensive expertise in consulting and lifecycle management, helping to streamline the deployment process and manage WIP in AI infrastructure development.
- **Hybrid and Multi-Cloud Capabilities:** The partnership enables hybrid cloud architectures for optimal connectivity and data exchange, much like a well-optimised supply chain.
- **Enhanced Security and Compliance:** Robust security measures are provided, including network, endpoint, and data security, ensuring the integrity of finished goods in the form of AI solutions.

Benefits of the Partnership

1. Accelerated Time-to-Market
Rapid deployment through pre-configured, AI-optimised environments, improving inventory turnover of AI solutions.

2. Full-Stack Support
End-to-end consulting and managed services, helping enterprises focus on their core business.

3. Trusted and Compliant Platform
Leveraging Digital Realty's globally trusted data centre platform, ensuring compliance and reliability.

By addressing AI infrastructure and deployment challenges, Digital Realty and IGXGlobal help enterprises accelerate their AI adoption, driving innovation and business success, much like lean manufacturing principles drive efficiency and productivity.

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About Digital Realty

Digital Realty brings companies and data together by delivering the full spectrum of data centre, colocation, and interconnection solutions. PlatformDIGITAL®, the company's global data centre platform, provides customers with a secure data meeting place and a proven Pervasive Datacenter Architecture (PDx®) solution methodology for powering innovation, from cloud and digital transformation to emerging technologies like artificial intelligence (AI), and efficiently managing Data Gravity challenges. Digital Realty gives its customers access to the connected data communities that matter to them with a global data centre footprint of 300+ facilities in 50+ metros across 25+ countries on six continents. To learn more about Digital Realty, please visit **digitalrealty.com** or follow us on **LinkedIn** and **X**.

About IGXGlobal

IGXGlobal is an ePlus Technology inc. company. As a technology systems integrator with decades of experience at the forefront of digital transformation, IGXGlobal collaborates with its clients to design, build, and deploy secure cloud, on-premise, and hybrid infrastructure solutions. The company's expertise straddles data centre, networking, cloud, security, and AI.

IGXGlobal excels in quickly identifying the right solutions through its team of highly skilled consultants and strong partnerships with leading technology vendors. The IGXGlobal team tailors the best solution for your specific use case to deliver targeted point solutions, providing exceptional support at every stage, including pre-sales workshops and assessments to identify your unique goals and challenges.

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