

BIM NEWSLETTER

(AEC NEWS & STORIES)

Building Permit System platform demonstration at Council for Regulating the Practice of Engineering Professions (CRPEP), Kingdom of Bahrain



GETTING TO KNOW
YOUR BUILDING
PERMITS

On the 14th of March 2024, at CRPEP, Bahrain, MicroCenter Gulf had the privilege of hosting a presentation on the Building Permit System.

The focus of the event was on the Nexus Twin BIM E-Submission Digital Twin Platform. This platform serves as a shared system that facilitates seamless submission, validation, and review processes for BIM models. It streamlines workflows and enhances communication between stakeholders, ultimately leading to more efficient and effective project outcomes.

MicroCenter Gulf hosted a presentation led by Mr. Aduri Sreenivas, Head of Strategic Projects and a certified Project Management professional from buildingSMART USA. His expertise in ISO 19650 standards. Mr. Aduri was joined by a talented team including Mr. Mohammed Shahrukh Khan, BIM Lead and a certified in Autodesk Revit, and Mr. Ramon Angel, Principal Architect. Their collective expertise were evident throughout the presentation, showcasing their commitment to excellence in their respective fields.

MicroCenter Gulf proudly announces Intelligent Network Solutions (INS) as our esteemed technology partner in the successful implementation of the BIM-based Building Permit System at Dubai Municipality. We extend our gratitude to Mr. Gazmend Ajrulovski, CEO, and Mr. Igor Pupaleski, Business Development Director, for their invaluable contribution. As we embark on the Bahraini Building Permit System implementation, we are delighted to have INS as our experienced partner, ensuring a seamless and efficient process ahead.



We extend our heartfelt gratitude to Eng. Hasan Al Sheikh, Executive Director of the Council for Regulating the Practice of Engineering Professions (CRPEP), and to Ms. Eman Al Ansari, Mr. J.V.R. Murthy, Ms. Aysha Suwaileh, and Ms. Afaf Nabeel for honouring us with the opportunity to host this presentation.

INTEGRATION OF GIS AND BIM

Integrated geographic information system (GIS) and building information modeling (BIM) solutions facilitate a data-driven approach to project life cycle management, which is crucial for sustainable project outcomes.

The AEC industry has experienced significant evolution over the years due to several factors contributing to steady growth, including economic growth, the latest technological advancements, urbanization, and evolving contractual and regulatory landscapes. There is increased adoption of technology, such as (BIM), (GIS) and advanced construction techniques, leading to improved project efficiency, accuracy, and collaboration. Digital tools are increasingly being used for project lifecycle management in design, planning, project management, and operations and maintenance.

Addressing infrastructure sector challenges together

Through a three-decade journey in the AEC industry, construction Companies has been instrumental in shaping the landscape of technology adoption, initially playing a pivotal role in driving the adoption of Computer-Aided Design (CAD). Today, its focus extends to comprehensive information modeling, addressing end-to-end challenges faced by the building and infrastructure sectors.

AEC firms are expected to increasingly leverage GIS in the next few years to enhance smart urban planning and development, optimize infrastructure asset management, and incorporate sustainability and resilience principles into design and construction practices.

Why AEC Industry Practices Should Be Digitalized



80%

Projects overshoot their primary budget.



52%

Rework occurs during the course of the project because of poor data and communication.



35%

Weekly worker-hours are spent managing rework and handling conflicts.



20%

Projects are not completed on time.

Digital technologies combat the above-listed challenges with data for decision-making, resource management, waste reduction, and scheduling and project management. The majority of construction organizations, including small and medium-size enterprise (SME) organizations, have yet to adopt enterprise-level applications of digital technologies.

Source: Construction Disconnected report (FMI), 'Imagining Construction's Digital Future' (McKinsey & Company)

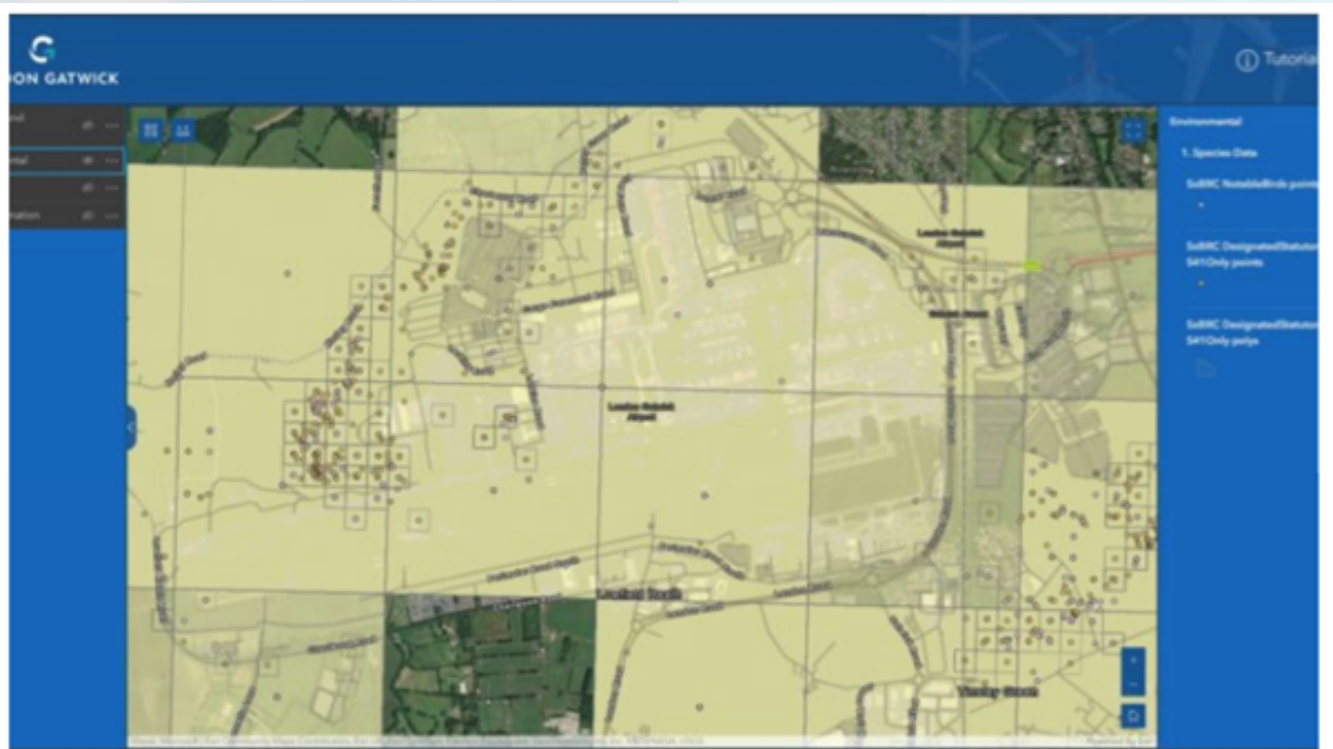
Digital twins are abstracting and modeling everything. They offer a means to improve business processes, reduce risk, optimize operational efficiencies, and enhance decision-making with automation to predict future outcomes. ArcGIS technology is the foundation for digital twins.

Opportunely, there is an array of GIS products that are being utilized for digital twin deployment, including ArcGIS Urban, ArcGIS Indoors, ArcGIS CityEngine, ArcGIS Velocity, and ArcGIS Reality.

London Gatwick Airport creates new geospatial platform with GIS

By ELIZABETH BAKER, April 11, 2024

Esri UK today announced that London Gatwick has created a new geospatial platform using Esri's ArcGIS to support multiple operational areas at the airport, including engineering and environmental services. The system is already making engineering and construction works safer by reducing accidental strikes on buried utilities and enabling better management of the airports biodiversity.



Credit: London Gatwick

The geospatial platform contains critical infrastructure information spanning the 70-year history of the airport, including BIM, CAD, utilities, environmental, aerial photography and legacy data. By integrating all spatial data into a single view, combined with advanced spatial analysis tools, mobile apps and dashboards, the Esri platform provides new insights to support better collaboration and decision-making across the airport.

For additional details

<https://www.agi.org.uk/london-gatwick-creates-new-geospatial-platform-with-gis-from-esri-uk/>

<https://www.passengerterminaltoday.com/news/sustainability/london-gatwick-creates-geospatial-mapping-platform-with-esri-gis.html>



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About MicroCenter Group

Incorporated in 1984, MicroCenter is an award winning group of technology companies in the Kingdom of Bahrain, which provides IT Business Solutions, Geographic Information Systems (GIS), Utility Network GIS Surveys, LIDAR Technology, BIM modeling, Smart card & Digital Solutions and highly specialized GIS & Autodesk Training. With over 100 qualified staff & branch in Saudi Arabia, it aims to refine its capabilities in developing & integrating innovative IT, GIS & Engineering solutions and expand the expertise in different corners of the GCC.

