**Micro-Scale BIM Meets Rapid Urbanization**

With the increasing demand for rapid urbanization, water treatment plants are being designed to occupy less site space, which is crucial for stressed inhabitants. By integrating the new plant into existing infrastructure, BIM conversion was kicked off. BIM was used throughout the asset lifecycle, from design to maintenance and sustainability goals, contributing to the process and resulting in a better, safer urban environment.

**A Bigger Vision for BIM**

BIM not only created a centralized system for managing the Hotel and Transit Center throughout its operational life but is also providing Denver International Airport with a framework to deploy BIM facility-wide to facility operations and maintenance.

**Designing a Lifeline in Limited Space**

For the Chandrawal Water Supply Project, we had less than half the space typically required for a plant with comparable output. BIM has demonstrated new ways of advancing BIM solutions by leveraging cloud and data capabilities.

**For public planning at any scale, 3D visualization can play an important role in communicating with people. It provides an important window into the future of the project.**

**Looking for "facility management ready" as-built models to improve asset performance and energy conservation, an ambitious airport-wide project – the HAL and Transit System – was built with BIM.**

**Visualizing Underground Structures**

For the Ümraniye-Ataşehir-Göztepe Metro Line, we used BIM to create models that could be accessed in the field to make real-time planning, design, and build decisions with clash detection. We could only approach this challenging infrastructure design by using BIM.

IN THEIR OWN WORDS

— Nicolás Rivillas Hincapié, Assistant Director of Design and Innovation, Empresa Desarrollo Urbano de Medellín (EDU)

— Gamze Çiçekoğlu, Team Leader, Gülermak Nurol Makyol Joint Venture

—  Yan Wang, Chief Engineer, Director of BIM Technology Center, HNTB and Gensler

— M. Balasubramani, General Manager and Head of WSD – EDRC, WWW SBG, WET-IC, L&T Construction

**A BIM in the Cloud Pilot Success**

RESOLVED OVER 100 CONFLICTS with clash detection.

**HIGHLIGHTS**

1. **BIM PLATFORM.** 45% LESS TIME with BIM. 16% COST SAVINGS

2. **CAD FILES.** Over 9 MILLION represented across 25 DISCIPLINES

3. **HIGHLIGHTS.** 40 DESIGN MODELS

**Image courtesy of Tianjin Port Engineering Design & Consulting Company Ltd. of CCCC First Harbor Engineering Company Ltd.**

**IN THEIR OWN WORDS**

—  Yan Wang, Chief Engineer, Director of BIM Technology Center

**HNTB and Gensler**

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