

JUST TOUCH INTERACTIVE

METRONext Success Story

THE OBJECTIVE

The scope of the METRONext program is the planning, development, and execution of a \$7.2 billion dollar transportation expansion initiative for the Houston region. The objective is to enhance and expand the Houston region's urban infrastructure to better serve the transportation needs of its growing population, which is expected to exceed 10 million citizens by 2040. The initiative includes advancements in both services and accessibility to support 21 new Transit Centers; 16 miles of new METRORail track; 110 miles of Regional Express Network services; and 365 miles of new METRORapid bus, BOOST, and Signature bus services.

OUR SOLUTION

To successfully modernize the urban transportation infrastructure, Houston requires strategic planning and development services that leverage 3D modeling and immersion to render advanced architectural, environmental, and spatial designs. This approach enables city planners, engineers, and designers to *evaluate physical and functional designs before construction to validate design intent, optimize workforce planning, and accelerate engineering and development.*

JTI works in collaboration with Houston to design the METRONext framework using Building Information Modeling (BIM), Geographic Information System (GIS) modeling, 360° media, Mixed Reality (MR), and 3D visualization. We leverage a wide array of best-of-breed tools to facilitate and enhance our solution, including Unreal Engine, Unity, Vuforia, ARCore/ARKitArcGIS, Laravel, 3ds Max, Java, and Adobe.

THE RESULT

JTI's solution has enabled Houston to meet its first major planning and development milestone, which includes the approval of Transit Center site designs for the METRONext framework. Our innovative designs immersed Houston in the physical, environmental, and functional factors of each site to inform engineering, construction, and management of each unique infrastructure. We also developed immersive MR web and mobile experiences to allow Houston to seamlessly share 3D site models with citizens, local businesses, and stakeholders to better inform the user community of current progress and gather meaningful feedback.

Throughout program execution, our solution is the catalyst that drives **500 miles of travel and transit improvements** while mitigating operational risks, enhancing collaboration and communication, and cutting infrastructure costs.

For more information on the METRONext program, visit METRONext.org.