

Infrastructure engineering shapes the world and has improved countless lives throughout history. It is a dynamic field that impacts, and is impacted by, technical innovations.

With the immersive iLab exhibit, participants will experience infrastructure in a new way that chronicles the evolution of infrastructure engineering and technology, from ancient Rome through the age of AI. The exhibit explores the future of cities and how technology brings ideas to life through an interactive generative AI experience. It also provides hands-on experience with real-time digital twins, featuring the latest advances in visualization. Participants will leave the exhibit inspired and reflecting on the roles we can all play in ensuring a resilient, sustainable, and regenerative future.

What is the iLab experience?

- The iLab begins with an immersive video about the importance of infrastructure throughout time and into the future.
- In the next room, participants can use the power of generative AI to select and move words and objects, and watch as their choices develop visions of cities, streets, bridges, and neighborhoods.
- Then, get hands on with a real-time digital twin visualization made possible by integrating Google 3D tiles, Cesium, iTwin, and Unreal Engine. Explore infrastructure projects from around the world, including some finalists for YII 2024.
- Finally, iLab will demonstrate how infrastructure can be regenerated through the story of the High Line in New York City. Built over a century ago, and eventually overgrown with plants, this elevated railway has been renewed as a multiuse park.

How iLab demonstrates the future of infrastructure:

- It provides a glimpse into the power of generative AI, as well as how it can be used for development.
- The iLab shows an optimistic view of regenerative development—obsolete or crumbling infrastructure can be refreshed and adapted to new purposes.
- The exhibit grants hands-on experience with Bentley applications that demonstrate an open and interoperable platform. See how Cesium, Google, and Epic Games can come together thanks to the power of the iTwin platform.

For more information, please contact Bentley PR at PR@news.bentley.com.

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