

# Products & Practice

## SketchUp Viewer for Microsoft HoloLens

With Trimble's SketchUp Viewer for Microsoft HoloLens, users can view models via the newly launched AR|VR Extension for SketchUp Desktop. They can browse and download models from Trimble's 3D Warehouse or pull project files from Trimble Connect, a cloud-based collaboration platform. Also as an option, users can place a model within their physical environment. In Tabletop mode, users can rescale, move, and rotate the model as desired. Models can be anchored and re-anchored in the physical environment, so designers and engineers can walk around the project and examine it from any viewpoint. In both Tabletop and Immersive mode, SketchUp Viewer provides access to the most critical pieces of information for making vital project decisions, thereby speeding consensus among project stakeholders. The Entity Info feature gives access to important building information modeling (BIM) data embedded within project components; and the Tape Measure functionality allows users to pull up dimensional information from the model. Users can also control the visibility of various aspects of the model by toggling layers on and off. With multiple HoloLens devices, a group of users can load the same model and collaborate in real time. Remote collaborators can communicate via real-time audio and use mixed-reality visualization "sight-guides" to better understand who in the group is looking at what.

—Trimble Inc., [www.sketchup.com](http://www.sketchup.com)

## iPlanTables

iPlanTables are large touchscreen monitors that allow instant retrieval of project information and digital workflow. They work with visual and standard keyboard and mouse, come with markup and project management tools, and support any existing software. Available models include: portable workstation (FM, FM-ELT, and FM-MLET models); office command center (FM-OCC55 model); double decker (FM-MLET46HDD); value series (FM-VS model); PM workstation (iPT-PM models); Field Commander; and WMT Wall Mount.

—iPlanTables, [www.iplantables.com](http://www.iplantables.com)



## OpenRoad Designer

Bentley's OpenRoads Designer is a comprehensive modeling environment for accelerated project delivery of road networks, unifying design and construction processes from concept to completion. It provides complete detailed design capabilities for surveying, drainage, subsurface utilities, and roadway design. Users of OpenRoads Designer can assemble context data from a variety of sources, such as point clouds, three-dimensional (3-D) reality meshes, terrain data, images, and geospatial information to bring real-world settings to projects; share project information across teams, locations, and disciplines with precision and security; model performance gains with the model-centric production of design deliverables; and share realistic visualizations with the public and stakeholders to gather feedback, improve public engagements, and speed project approvals.

—Bentley Systems, Inc., [www.bentley.com](http://www.bentley.com)

# Products & Practice

## TrueLook 20-Megapixel Monitoring Camera

TrueLook's 20-megapixel (20-MP) camera system allows users to monitor construction jobsites for security, progress reporting, and compliance. A digital single-lens reflex (DSLR) lens helps the system provide sharp images that deliver more than twice the resolution of 4K cameras currently available on the market. The 20-MP camera system also offers remote auto-focus via the TrueLook interface, as well as live streaming video and continuous security recording (both at 1080p resolution).

—TrueLook Construction Cameras, [www.truelook.com](http://www.truelook.com)



*(photo courtesy of Triad Associates, Inc.)*

## Decorative Concrete Brings Hockey Imagery to Life

The Boston Bruins' new Warrior Ice Arena features a hardscape designed by landscape architect Carol R. Johnson Associates Inc., which brings the imagery of hockey from the interior to the exterior of the complex. A 68 ft (21 m) high hockey stick is a landmark feature of the practice complex. Aggregate Industries US (AIUS), a subsidiary of LafargeHolcim Ltd., designed the product that allowed the vision to come to life. To achieve the design, AIUS developed Artevia® Color and Artevia® Exposed samples with white and gray cement. The concrete mixture incorporated an integral coloring admixture from L.M. Scofield Company to create vibrant solar-reflective colors that conform to LEED 2009 requirements for reducing the urban heat island effect. AIUS also collaborated with Massachusetts-based Triad Associates, Inc., to produce mockup panels. The Warrior Ice Arena hardscape was awarded the Scofield Decorative Concrete Award during the 2017 World of Concrete in Las Vegas, NV

—Aggregate Industries US, [www.aggregate-us.com](http://www.aggregate-us.com)

## AiR Enterprise

Atheer's Augmented interactive Reality (AiRTM) Enterprise allows mobile users to make video calls to remote experts, offering both real-time assistance and improved collaboration. AiR Enterprise delivers highly contextual documentation, images, videos, 3-D models, step-by-step task guidance, remote expertise, and other resources directly to mobile users via the smart glasses of their choice. AiR Enterprise supports cloud-based, on-premise, and hybrid deployments. Interoperability between computer systems on the Internet is provided through representational state transfer (REST)-based application programming interfaces.

—Atheer, [www.atheerair.com](http://www.atheerair.com)

## WorkLink

WorkLink is a system offering full support for the HoloLens mixed reality environment and a variety of other devices. The platform allows users with no prior coding knowledge to create augmented-reality "Smart" instructions that automatically collect data and provide actionable insights. The instructions can be deployed globally through a simple app. By transforming traditional paper-based work instructions into Smart instructions, users are immersed into animated, intuitive, 3-D computer-generated imagery that overlays on top of the real world. The holographic instructions can be applied to new projects as well as existing content.

—ScopeAR, [www.scopear.com](http://www.scopear.com)

## PipeLine for Microsoft Dynamics

Dodge Data & Analytics' PipeLine is a new software application that integrates construction project information directly into Microsoft Dynamics®, a customer relationship management (CRM) system. Contractors and building product manufacturers using Dynamics can now more easily find and track construction projects, tying them directly into their opportunity, account, and reporting workflows. Dodge PipeLine for Dynamics can be installed and configured in just a few hours, with no additional setup or service fees.

—Dodge Data & Analytics, [www.construction.com](http://www.construction.com)

## Web Notes

### ON!Track App

Hilti's ON!Track mobile app, together with the Hilti ON!Track asset management solution, allows users to manage construction assets anytime, anywhere. Assets can be tracked by their location, repair and inspection histories can be viewed, and training and certifications can be verified before assets are assigned. Asset inventory can be tracked and assets can be assigned to employees as well as the jobsite for accountability. The ON!Track app requires a valid ON!Track subscription.

—Hilti North America, [www.hilti.com](http://www.hilti.com)

## Book Notes

### *The Mineral Maniacs and the Magic Hardhat*

by Jules Miles (illustrated by Meg Whalen)

*The Mineral Maniacs and the Magic Hardhat* is the first in a children's book series exploring the exciting and educational world of mining, geology, and engineering. It talks about three fifth graders—Marabel, Victor, and Herbie—who experience the most important adventure of their lives after they encounter a magic hardhat. As a bonus, the book includes a supplemental section for students and educators on how minerals are formed, mined, processed, and used in our everyday life. The book is also currently being translated into Spanish.

—SME Bookstore, [www.smenet.org/store](http://www.smenet.org/store)

Price: \$12.95; 150 pp.



## Products & Service Literature & Videos

### Standard Practice for Stainless Steel Reinforcing Bar Fabrication Facilities

The Concrete Reinforcing Steel Institute (CRSI) published a new document, "Standard Practice for Stainless Steel Reinforcing Bar Fabrication Facilities (ANSI/CRSI-IPG4.1, 2016)." This document defines the quality processes for fabrication of stainless steel reinforcing bars. The processes encompass the development and use of a Fabrication Quality Manual, proper personnel training, inspection criteria, handling and storage, fabrication, and shipping to jobsites.

—Concrete Reinforcing Steel Institute, [www.crsi.org](http://www.crsi.org)