Celebrating a decade of architecture and engineering excellence

These amazing projects from around the world are celebrated for their ingenuity and ability to adapt and deliver forward-thinking solutions in their time while still helping us build better futures today.

South Beach Psychiatric Center New Inpatient Building STV and Architectural Resources

PROJECT

USA, 2020 AEC Excellence Winner

Rebuilding Better

OUTCOME

Destroyed by Hurricane Sandy, the facility

was rebuilt to the highest care standards within challenging flood-prone terrain.

Healthcare The new 262-bed building provides modern in-patient care in a healing

221,000-sq. ft. building was designed on pilings to protect from flood risk and was rapidly converted into an emergency COVID-19 support facility.

setting at the 51-acre campus in Staten Island, NY. The 5-story,

Image courtesy of STV and Architectural Resources HIGHLIGHTS Facility was converted The ground was raised Pandemic facility

delivered in 2 DAYS.

conversion plans were

IN THEIR OWN WORDS

contractors, or the engineers."

Architectural Resources

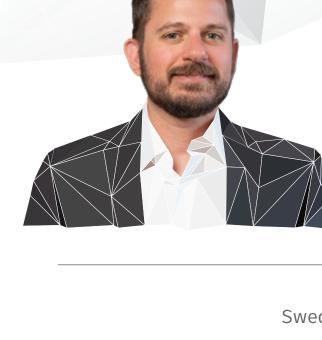
into a COVID-19 support

center in 2 WEEKS.

in FEMA high-risk zone.

"One of the biggest challenges to a successful project is maintaining

20 FEET above sea level



Sweden, 2019 AEC Excellence Winner

— Jared Oakley, AIA, Project Manager / Project Architect,

communication throughout the lifecycle. With BIM, we can all

speak the same language—whether it is with the stakeholders, the

European Spallation Source ÅF Infrastructure, Sweco Architects and Skanska Sverige AB

Research Facility

PROJECT

in ways we can't yet fathom. When construction completes in billion, the ESS is bringing together thousands of people from around

2025, it will be the world's most advanced neutron source. the globe for breakthrough scientific research and collaboration.

OUTCOME

Setting the Bar for Sustainability

The first-of-its-kind research center, the ESS will affect the world

One of Europe's largest building projects with a budget of over \$1.8



cost-effectiveness by selecting the right BIM software." — Kristian Gerdtsson, Design Manager at Skanska for ESS

member nations, and a shared commitment to deliver a world-class research facility. But we've definitely given ourselves an advantage on every level: quality, efficiency, speed, productivity, and

OUTCOME The Power of IPD and BIM

Dispersed designers and stakeholders used connected

BIM to collaborate in one common data environment

and drive a new Integrated Project Delivery model.

responsible for project success.

IN THEIR OWN WORDS

USA, 2018 AEC Excellence Winner **Brown University, Engineering Research Center** KieranTimberlake, BuroHappold Engineering, Shawmut Construction PROJECT

"We have an outstanding team, the cooperation and support of our

Research Center The new 80,000-sq. ft. facility features modern research labs, an imaging suite, and flexible shared workspaces. It's one of the

first projects delivered with the Integrated Project Delivery model,

where the owner, architect, and contractor were mutually

The project achieved **25% ABOVE**

earning LEED Gold certification.

IN THEIR OWN WORDS

Israel, 2017 AEC Excellence Winner

The Porter School of Environmental Studies

Geotectura, Axelrod-Grobman Architects, NCA, Assa Aharoni Consulting Engineers

PROJECT

Environmental School

STANDARD energy efficiency,

HIGHLIGHTS

Key stakeholders

across 6 CITIES.

coordinated together

"With robust, cloud-based BIM, everyone could see behind the curtain and

better understand why the architects did what they did, the architects

— Paul McGilly, Associate Principal/BIM Manager, BuroHappold Engineering

Everyone was on the same page, and there were no surprises."

understand what everyone else was doing. The construction manager could

understood exactly what the MEP engineers were contributing, and so on.

Image courtesy of KieranTimberlake and BuroHappold Engineering

Engineers saved on average

20 HOURS/WEEK with cloud

collaboration workflows.



OUTCOME

and more.

HIGHLIGHTS

The project achieved

92 POINTS to earn LEED

Platinum certification.

Among the greenest projects in the world, the 43,056-sq. ft. building at Tel Aviv University was built to reflect the environmental vision of its founders, achieving LEED Platinum certification and five stars in the Israeli Green Code 5281.

"BIM helped us to fulfill the vision of building one of the greenest projects in

the world. The Porter School of Environmental Studies shows the power of BIM

to improve the design and sustainability aspects during the planning and after

completion of building. No matter the scale, budget, or program of your next

project, it should share the same sustainable values and adopt BIM to meet

Image courtesy of Joseph Cory

They used 40 FEWER TONS of

refrigeration cooling capacity

compared to the standard.

Beijing Institute of Architectural Design, Ltd, Co. OUTCOME Going All In with BIM Among the first projects in China to implement BIM, the sophisticated and complex design was made possible through close collaboration with project consultants, fabricators, and contracts to meet the site's constraints while delivering a stunning media center.

China, 2016 AEC Excellence Winner

Phoenix International Media Center

PROJECT

Media Center

Thermo solar fields

and Eco-Wall delivered

60% ENERGY SAVINGS.

IN THEIR OWN WORDS

the current and upcoming challenges."

— Joseph Cory, Professor and Architect, Geotectura

Just 55 meters high, the home of Phoenix Satellite Television is among the most visually breathtaking buildings in Beijing. Inspired by the endlessly curving form of a Möbius strip, the building blends space and structure harmoniously, leaving visitors to enjoy such a striking form.

implement BIM in China.

Image courtesy of Beijing Institute of Architecture Design, Ltd, Co.

HIGHLIGHTS

The design and install

saved \$9 MILLION.

of the glass curtainwall

Celebrating innovators like you

all-digital BIM processes.

AWARDS

IN THEIR OWN WORDS "Some buildings with complex forms separate the internal space from the form, but we took an integrated approach. The outer shell of the structural ribs bears the load of the entire building and textures light within the building. BIM brought the team together and gave us the insight we needed to use the complex shape to improve building performance." — Zewo Zhou of Beijing Institute of Architectural Design

Industry excellence has a unique way of inspiring us to

make the new possible. Discover the many more incredible achievements over the decade made possible with Autodesk. **Explore more AEC Excellence**

ZERO DOCUMENTS The project is a FIRST OF ITS KIND to were printed using