

Sports Stadium Design Gets a Turbo Boost With Digital Technologies

AIDEA TECHNOLOGIES USES BIM TO CREATE A STATE-OF-THE-ART SPORTS STADIUM DESIGN THAT SERVES AS A CENTERPIECE FOR THE 30TH SEA GAMES IN THE PHILIPPINES

The Southeast Asian (SEA) Games is a biennial sports competition in Southeast Asia, bringing together athletes from the region's 11 countries to battle for gold. Member nations take turns hosting, and in 2019, the Philippines was set to host the 30th SEA Games—but needed a new stadium, fast.

For the games, which included 530 events in 56 sports, the country wanted a state-of-the-art sports stadium design that would serve as a centerpiece. Aidea Technologies,

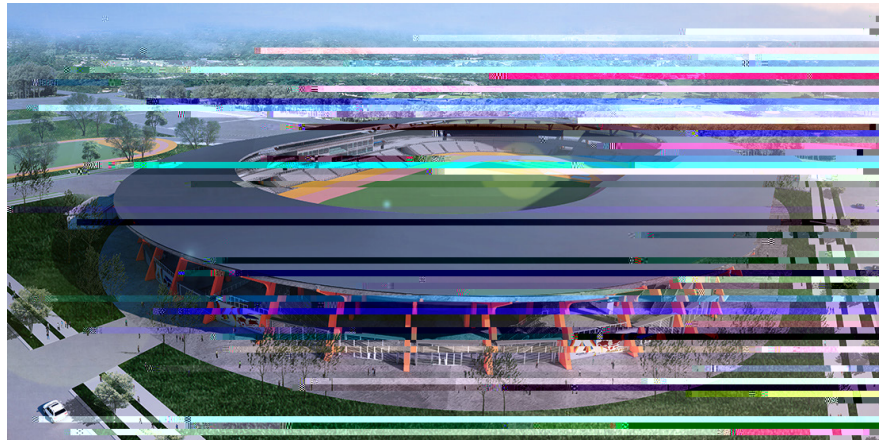
tasked with implementing the design, building the digital model, and developing the detailed design of the Athletics

province of Tarlac, about 80 miles from the country's capital

a seating capacity of 20,000, a nine-lane 400-meter track-

pool, training pool, and diving pool and has a capacity of 2,000.

Designing and detailing a stadium are huge undertakings, made even more challenging by a tight timeline. When the Aidea team began tackling the project in 2018, they had only 21 months before the start of the SEA Games at the end



all stakeholders, including concept architect Budji + Royal Architecture + Design, client AlloyMTD Philippines Inc.,

also Filipino pride at stake," says Aldwin Beratio, assistant studio head at Aidea. "The Athletics Stadium is a once-in-a-lifetime project for us, so we channeled our athletes' hard work, dedication, and pride for our country to accomplish it."

DESIGN-BUILD COLLABORATION

"For most projects, there's a divide between construction and

budget and designers intent on protecting the integrity of the design," Beratio says. "But for this project, we all shared a

common goal: to deliver a world-class stadium that Filipinos would be proud of.”

As a design-build project, collaboration was key to constructing the stadium. The design and construction teams embraced converging ways of working to ensure on-time project delivery. For instance, Aidea had to teach the construction team about BIM (Building Information Modeling), as they were still reliant



About the Author

other outlets.

About the Article

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Photo courtesy of Aidea Technologies.