

MATH IN INDUSTRY AND TECHNOLOGY

THE MUSEUM
OF THE
FUTURE

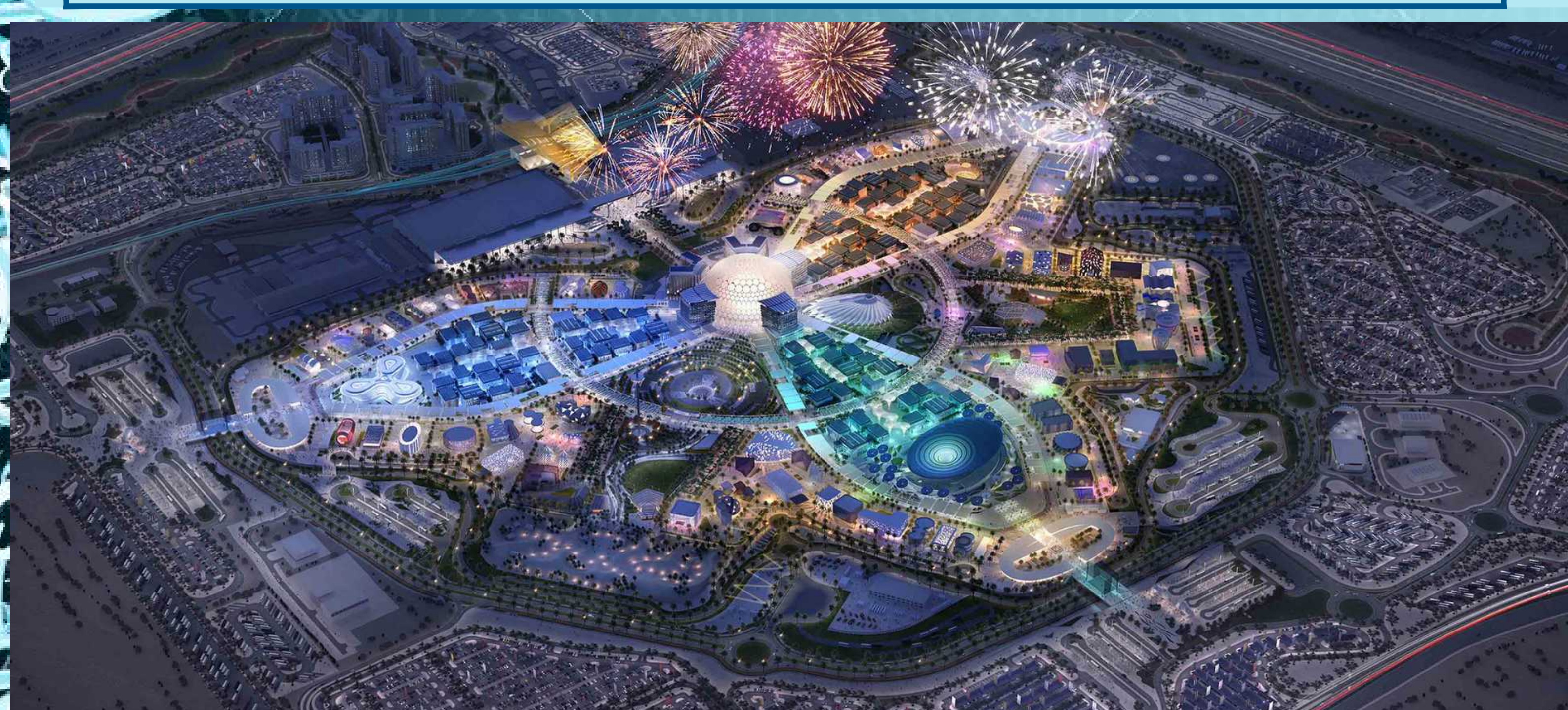
IN THE CONSTRUCTION OF THIS MUSEUM GEOMETRY, ALGEBRA AND TRIGONOMETRY ALL PLAYED A CRUCIAL ROLE IN ARCHITECTURAL DESIGN. ARCHITECTS APPLY THESE MATH FORMS TO PLAN THEIR BLUEPRINTS OR INITIAL SKETCH DESIGNS. THEY ALSO CALCULATED THE PROBABILITY OF ISSUES. THE CONSTRUCTION TEAM COULD RUN INTO IT AS THEY BRING THE DESIGN VISION TO LIFE IN THREE DIMENSIONS.

AS FOR THE ARCHITECTS THAT USED PARAMETRIC DESIGN, A PROCESS BASED ON ALGORITHMIC THINKING. THE WORD “PARAMETRIC” COMES FROM PARAMETRIC EQUATIONS IN MATH. AND BUILDING INFORMATION MODELLING (BIM), A THREE-DIMENSIONAL MODEL-BASED TECHNOLOGY FOR CONSTRUCTION PROFESSIONALS TO COLLABORATIVELY DESIGN AND DOCUMENT PROJECTS.

EXPO 2020

“When most people hear about ‘Mathematics’, they automatically picture formulas...”

The quote above explains the case in this spectacular design. Expo 2020 was designed to deliver the future beforehand. In addition, the techniques are used to deliver these technologies.



Many technical tasks necessitated the use of mathematics. It's used in the manufacturing of a variety of mixed materials. For example, many ancient civilizations were able to create bronze with a highly optimized and consistent composition, which they could not have done without mastering proportionality arithmetic

Following the UAE's sensational victory in its World Expo 2020 bid, the focus is already switching to making the UAE a global leader in applied science and research in time for 2020. It is acknowledged that Mathematics and Science determine the competitiveness of a country's economy. For instance, the design used in the expo 2020 required great use of trigonometric equations and theorems. Thus, showing the professionalism of the walls determines the investments made to show these structures.