REPORT ON WEBINAR

Conceptualizing Digital Built Environment with focus on BIM / Emerging technologies in Built Environment

Date: 22nd January 2021

Presenter: Prof. Shruitniwas

Time: 2pm till 3:30pm

Venue: Online Webinar

MBS School of Planning and Architecture organized an online Webinar on "Conceptualizing Digital Built Environment with focus on BIM / Emerging technologies in Built Environment" in collaboration with RICS School of Built Environment, Amity University for 4th year architecture Students of MBS School of Planning and Architecture, Dwarka on Friday, 22nd January 2021 from 2:00 pm to 3:30 pm.

Presenter Brief

Shrutiniwas Sharma has worked as a BIM Manager in the Operations Department of Shapoorji Pallonji Engineering & Construction in the area of BIM and overall VDC implementation at the organizational level and execution level. He has also worked as a Research Engineer at Saint-Gobain Research India apart from being an Assistant Professor of Architecture at Amity University, Haryana. He holds B. Arch. (NIT-Bhopal) and M. Tech. in Construction Engineering and Management (IIT-Delhi).

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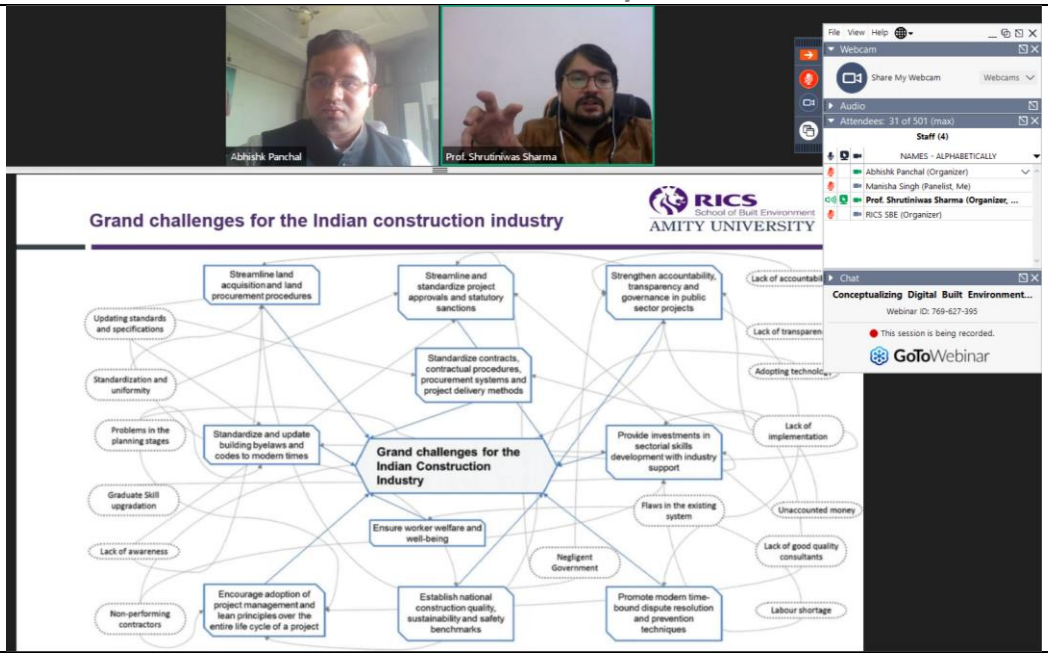
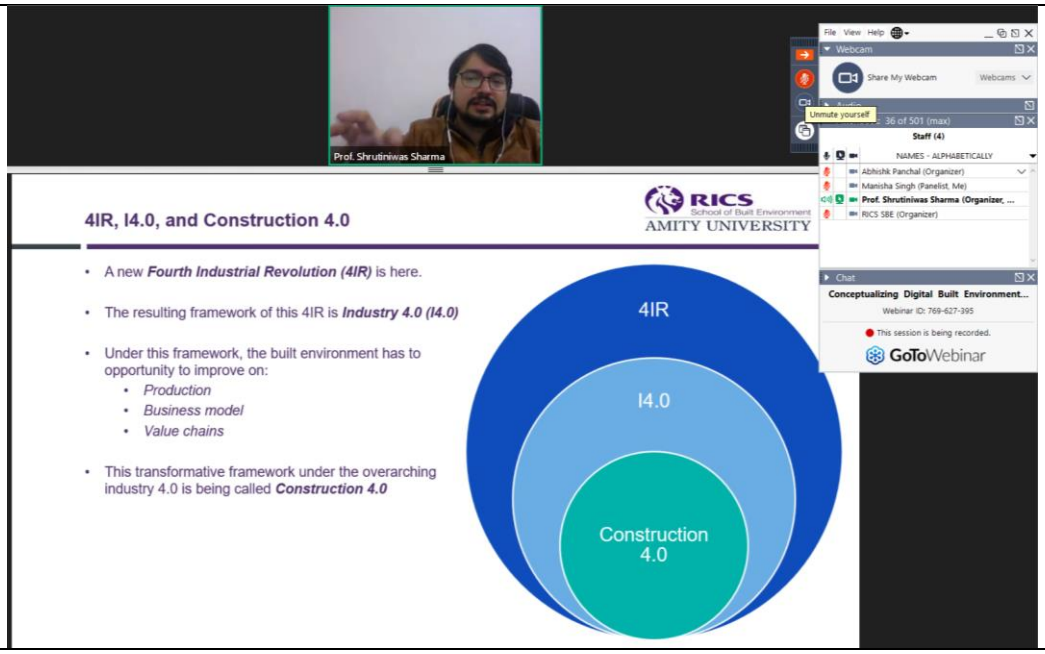
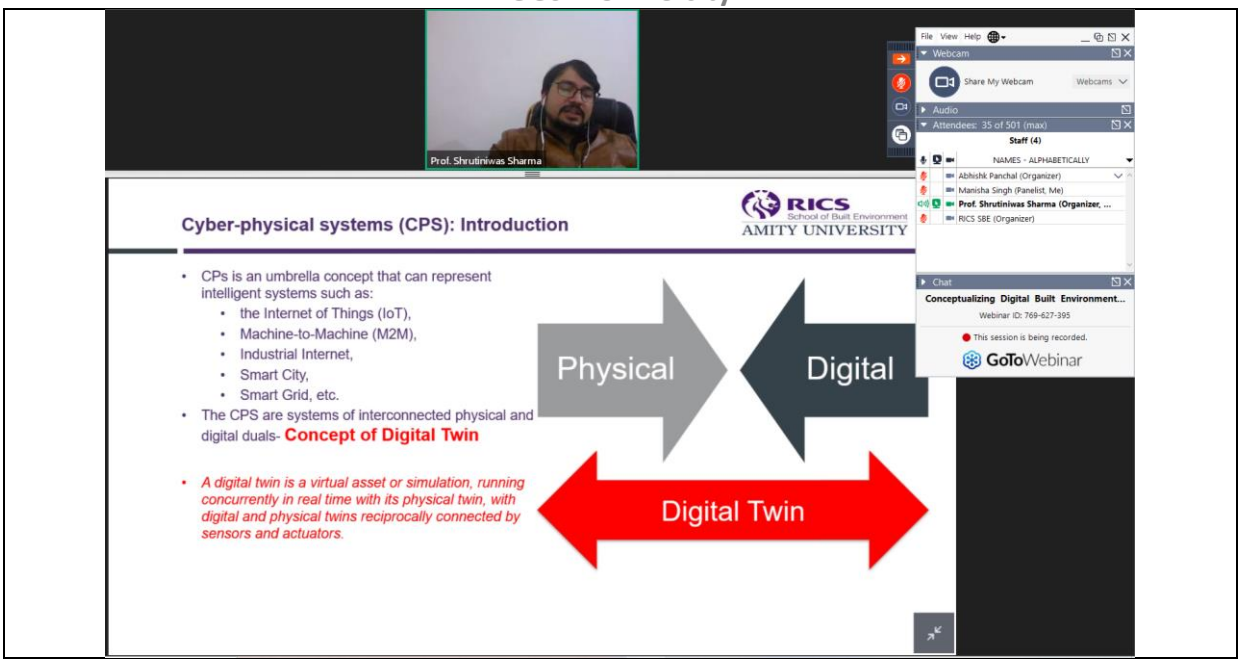
He talked about grand challenges for the Indian construction industry. This challenge includes low levels of research and development leading to a lack of innovation and delayed adoption of technologies, workforce issues including shortage of young talent due in part to poor construction image, Informal processes and lack of process standardization leading to structural fragmentation. Low productivity, predictability and profits; Insufficient knowledge transfer from Project to Project; and Cultural and mindset issues act as a blocker to any change.

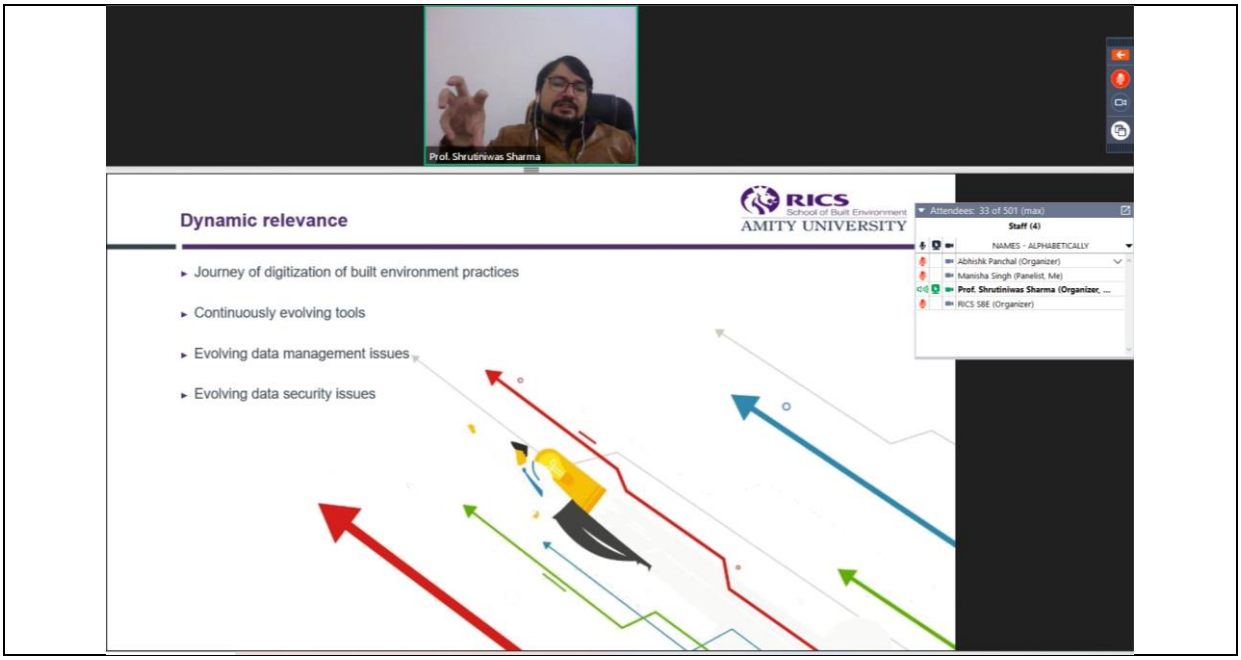


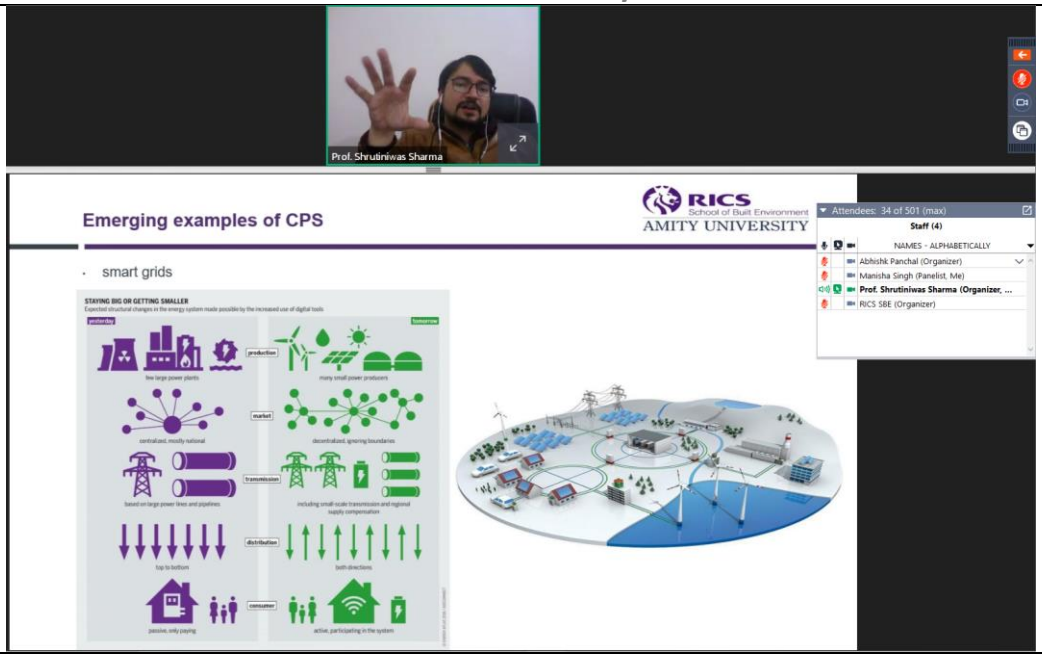
Prof. Shrutiniwas Sharma presenting the Webinar

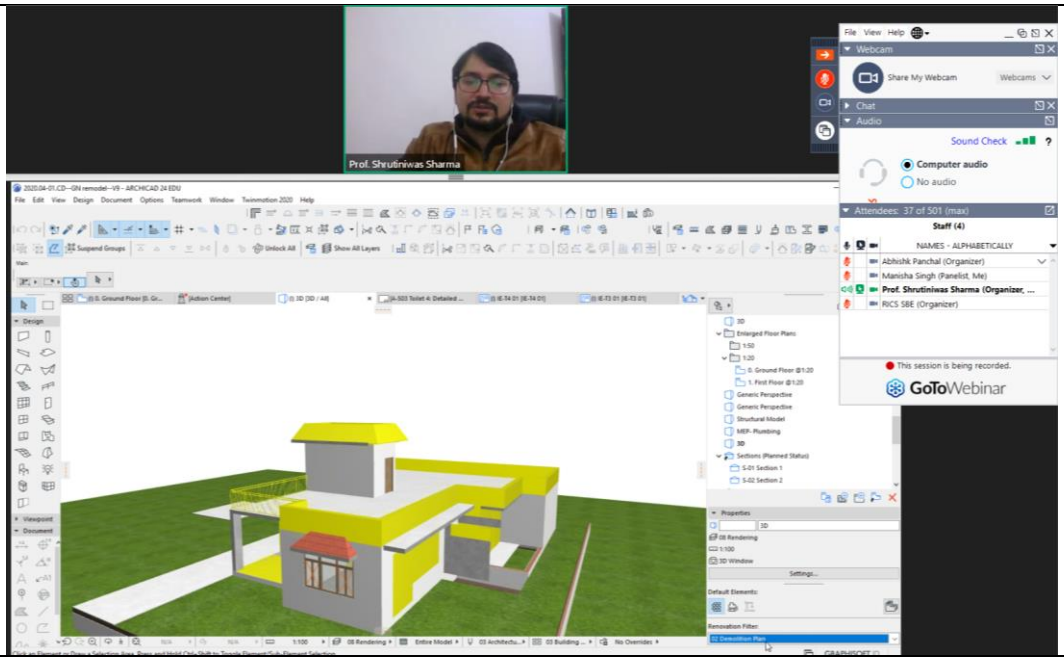




A new Fourth Industrial Revolution (4IR) framework, where the built environment can improve production, business model and value chains. This transformative framework is under the overarching industry being called Construction 4.0. A Cyber-physical Systems (CPS) is understood as a mechanism that is controlled or monitored by computer-based algorithms, tightly integrated with the Internet and its users. It creates a virtual copy of the physical production system that is also called the Digital twin. This is the first step towards Industry 4.0, where a physical-digital-physical loop is created.







Prof. Shrutiniwas Sharma ended the webinar by showcasing his projects as examples for BIM. MBS institute thanked RICS SBI for organizing such an informative webinar for the students and exposing them to the innovative techniques used in architecture design.

Report Prepared by *Ar. Sahil Singh Kapoor*, Assistant Professor, MBS School of Planning and Architecture, Dwarka, New Delhi.