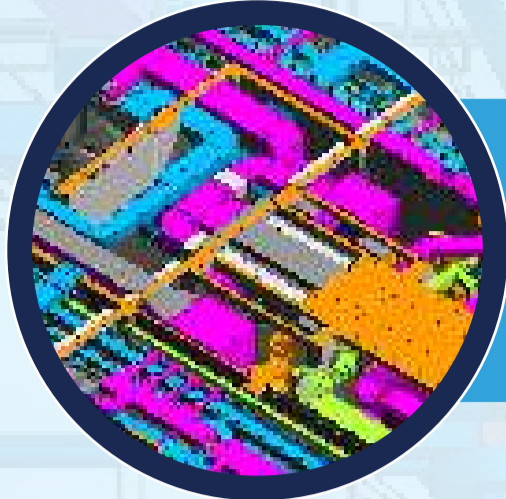


Overcoming **MEP** Challenges With **MEP BIM** Services

Resolve clashes, reduce rework and drive quick hassle-free onsite installations.

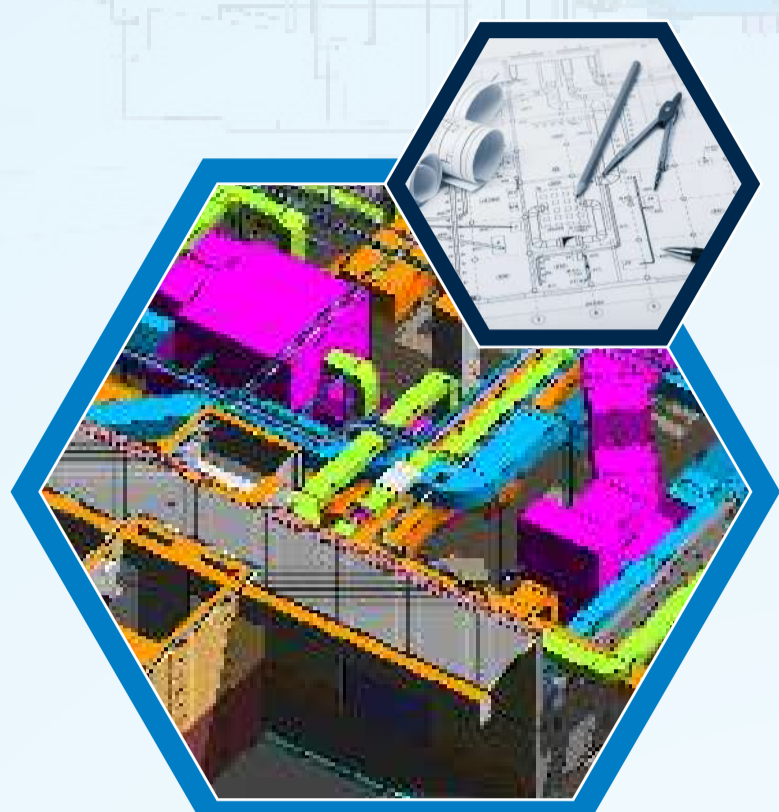


Clashes alone account for **5% of construction spend.**

Source: Autodesk

Challenges faced by MEP contractors

Heavy reliance of MEP contractors on uncoordinated 2D drawings that are many a time error-ridden lead to onsite disasters.



No sync between set design and MEP layout

Rework and delays

Interdisciplinary clashes

Difficulty in onsite installation

Uncoordinated 2D drawings

Onsite clashes and rework

Inaccurate scheduling and cost estimation

Time and cost overruns

MEP BIM Benefits

Data-rich MEP models facilitate site-ready design

Improved project outcomes

Proactive clash identification and resolution via coordination & visualization between MEP trades

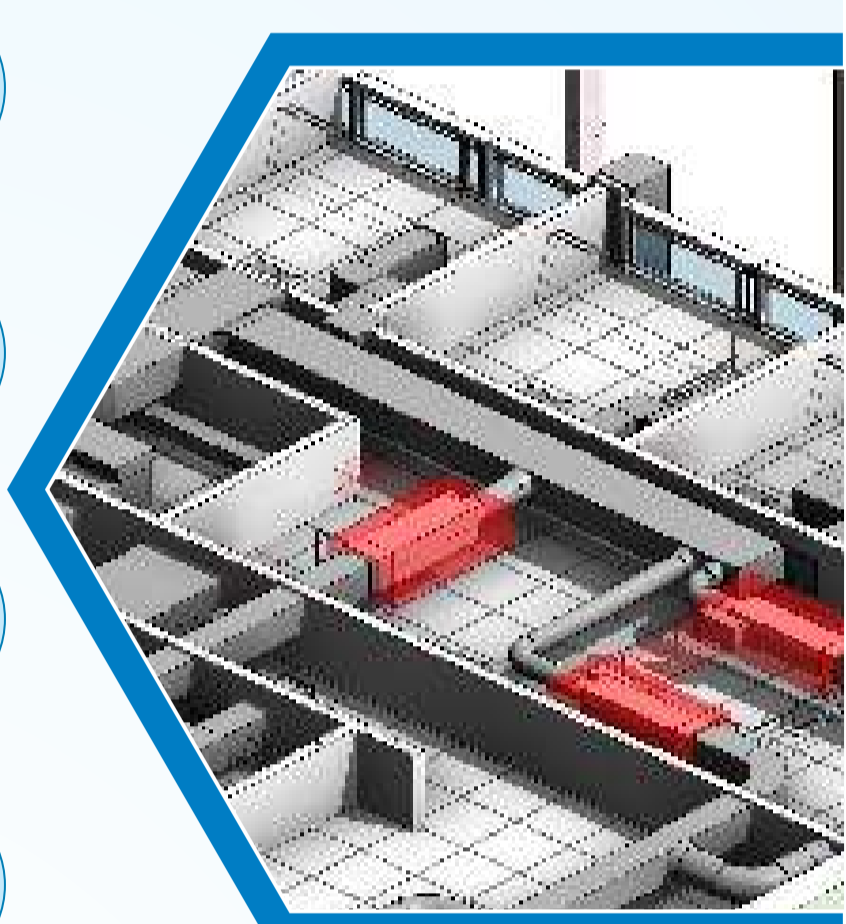
Enhanced build quality

Coordinated 2D drawings extracted clash-free 3D MEP model

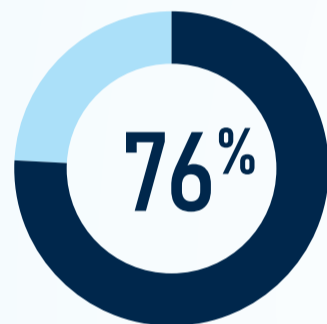
Reduced rework and delays

Accurate 4D scheduling walkthroughs and 5D cost estimation

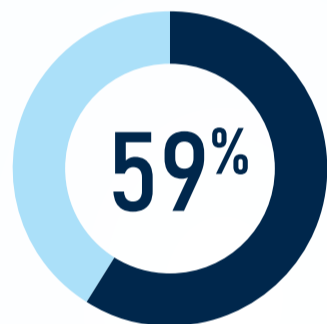
Improved cost and time efficiencies



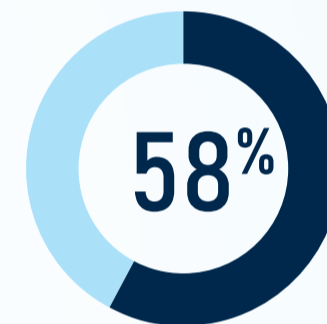
MEP Coordination Services: High-impact statistics



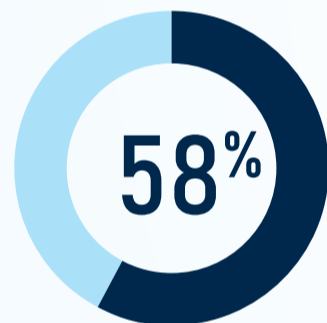
Improved scheduling



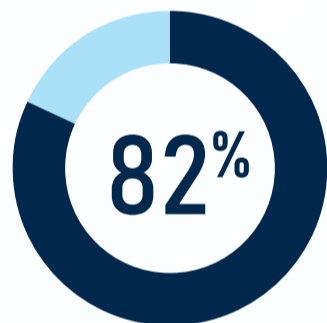
Better design quality



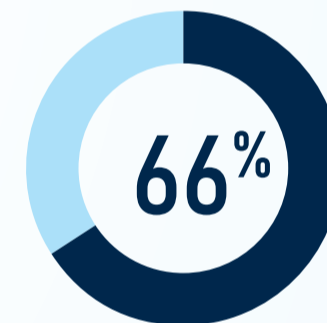
Reduced material waste



Higher business profitability



Enhanced communication



Quicker coordinated shop drawings

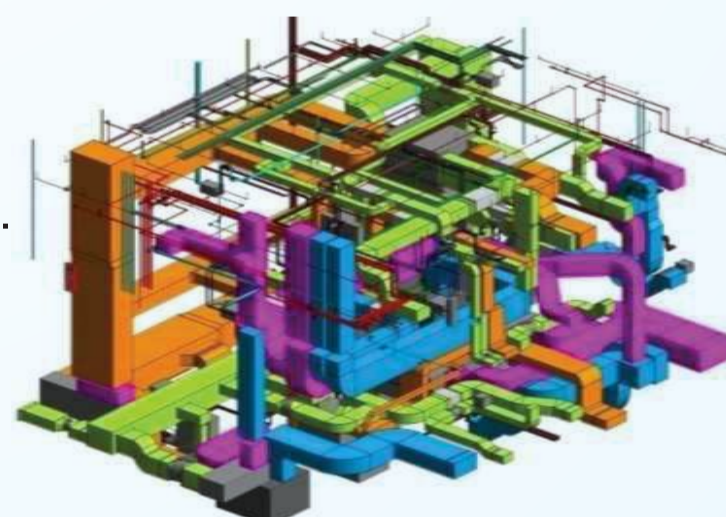
Source: autodesk.net

MEP BIM Success Stories

1 \$7 million saved with MEP clash identification and resolution for an Airport Construction Project

BUSINESS NEED

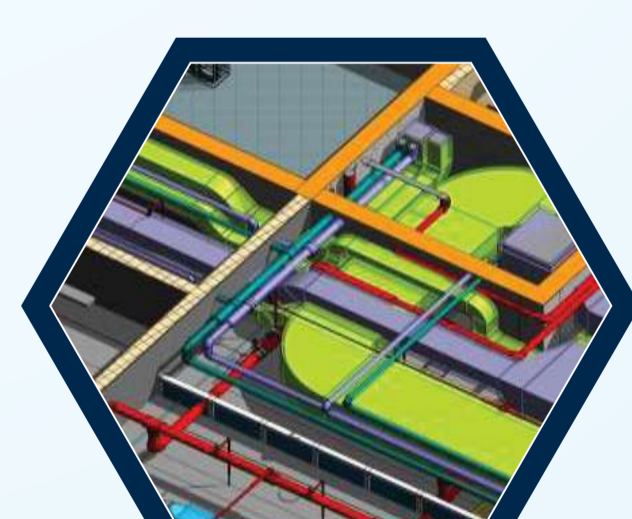
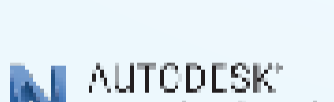
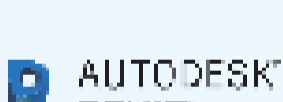
Clash-free Revit model for a new Airport project in Oman.



SOLUTION

Created a coordinated 3D MEP model with LOD 400 accompanied by clash detection reports.

- 20+ MEP Modelers & 5 MEP Engineers worked for onsite coordination



RESULTS



Cost savings of \$7 million



100% installation of MEP systems



Mitigated field conflicts



Zero change orders

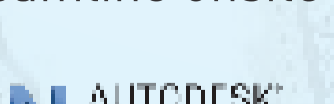
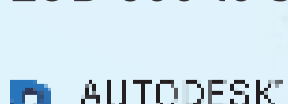
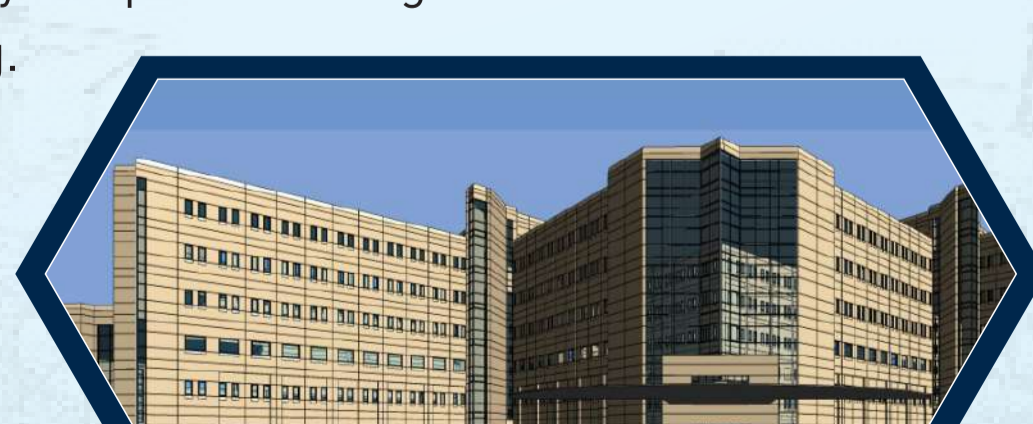
2 Streamlined construction activities for a Healthcare construction project with MEP BIM modeling.

BUSINESS NEED

Coordinated MEP BIM model for a University Hospital Building to achieve higher ROI and accurate scheduling.

SOLUTION

Developed a clash-free MEP 3D model at LOD 500 to streamline onsite construction.



RESULTS



Construction activities were well organized



Rework was reduced



Construction time was saved



Better scheduling led to a greater project ROI