

CITY OF STRASBOURG

ACCELERATING URBAN RENEWAL WITH DIGITALIZATION

For the redevelopment of the 33 municipalities in the Strasbourg Eurometropolis, project planners leveraged 3D digital modelling to speed up project workflows and facilitate collaboration with town services, decision-makers and community stakeholders.

OUTCOMES

Town planners used Autodesk solutions to fast-track design, consultation and implementation.



PRECISE 3D DATA FOR URBAN PROJECTS
Accurate representation of 340 km2 area with a precision of 5 cm



EFFICIENT DECISION-MAKING
Visualized data facilitated comprehensive analysis and community buy-in



TIME-SAVING WORKFLOWS
Automation scripts for 3D model generation cut process time by 75%

“InfraWorks [enables me to] avoid manual work [and] concentrate on activities which could bring real added value to the teams.”

Phillipe Slisse, 3D GIS Project Manager, City and Eurometropolis of Strasbourg

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HOW THEY DID IT

City of Strasbourg's methodology

THE JOURNEY

- Capture** the area with airborne LIDAR scan
generating a 20 points/m2 scatter plot to enrich 2D data
- Transform** 2D data to 3D geographical models
creating a detailed existing conditions database for planning projects
- Transition** from 3ds Max to InfraWorks
enabling design contribution from project start
- Collaborate** on Revit
architects and design consultants can seamlessly work with 3D data

VALUES ADDED

- | STEP | |
|------|--|
| 1 | 3D DATA ON INFRAWORKS IS OPEN TO ALL PROJECT PARTICIPANTS
...streamlining project planning for town services
 Roads  Sanitation  Environment |
| 2 | 3D MODELS CAN BE ENHANCED WITH TOPOGRAPHICAL SURVEYS BY EXTERNAL TEAMS
...saving time and money in updating reference data |
| 3 | COMMUNITY MEMBERS CAN ACCESS 3D PROJECT DATA ONLINE
...accelerating consultation and project progress |
| 4 | VISUALIZED DATA HELPS TEAMS IN MANY SECTORS
...even when projects are not linked with BIM or 3D
 Geomatics specialists  Eurometropolis technical team  3D GIS pros Engineers |

THE BOTTOM LINE

Key benefits for City of Strasbourg, France

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DETAILED 3D MODELS FOR PROJECT ANALYSIS | 
MORE EFFECTIVE DECISION-MAKING | 
COMMUNITY INVOLVEMENT IN TOWN PLANNING | 
BETTER COLLABORATION ACROSS SECTORS |
|---|--|--|---|

“Today, we have an accurate representation of the physical features of the area [...] which provides all business services access to the existing conditions data they need for their projects.”

Phillipe Slisse, 3D GIS Project Manager, City and Eurometropolis of Strasbourg

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