

What challenges do cities face?

- Urban development
- Resilience and safety
- Improve services to citizens
- Openness and transparency





AssetWise

OpenRail CDE

Components Center iModelHub

ContextShare 365 Services

OpenCities CDE



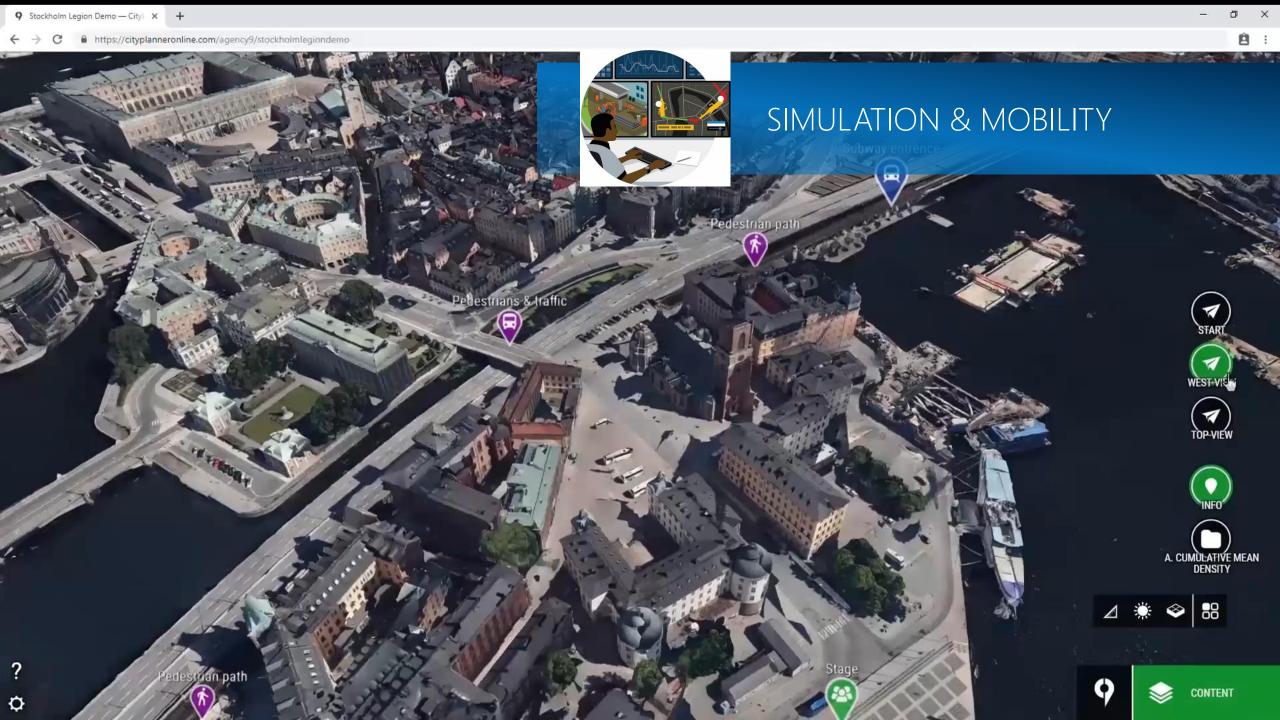


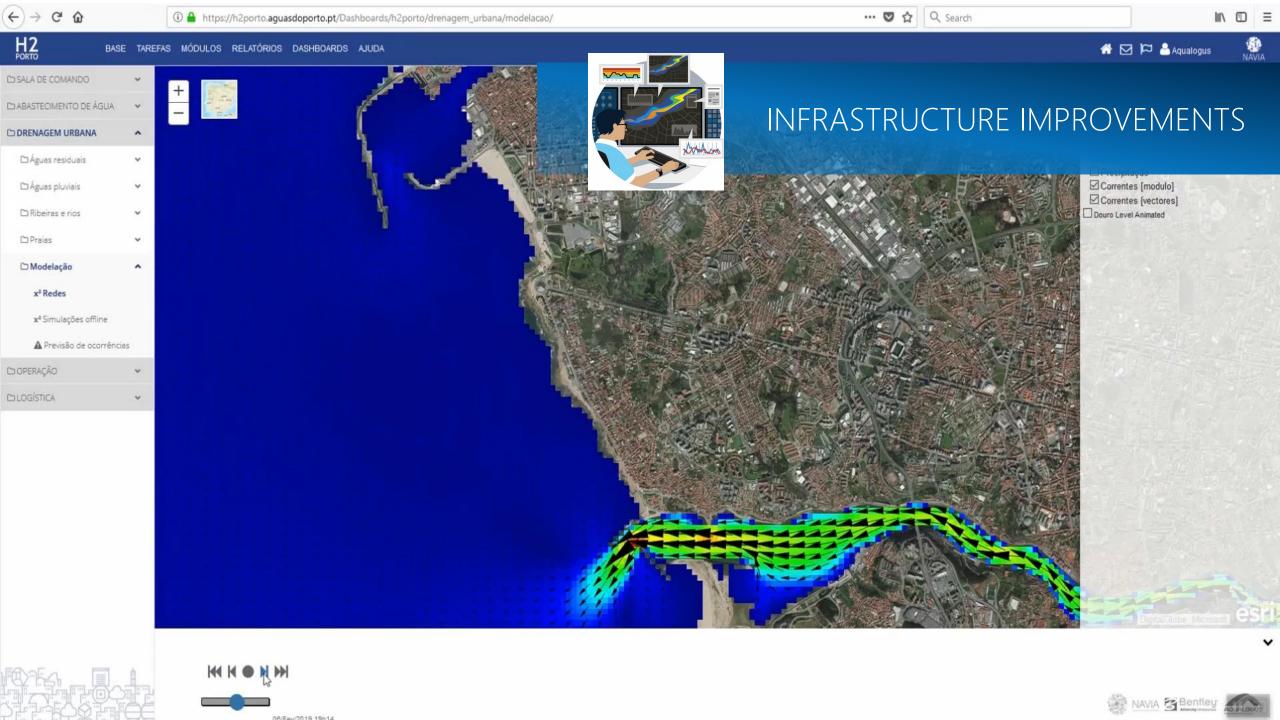


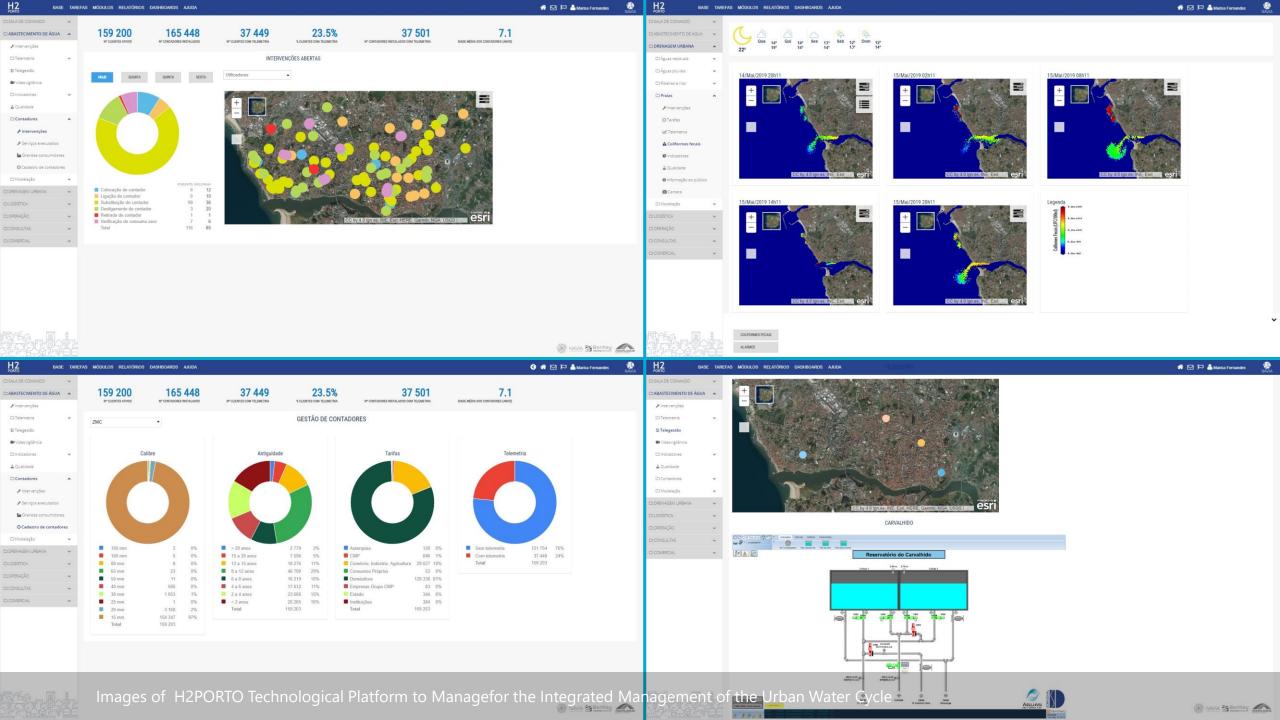














OpenCities Planner is ideal for smart cities

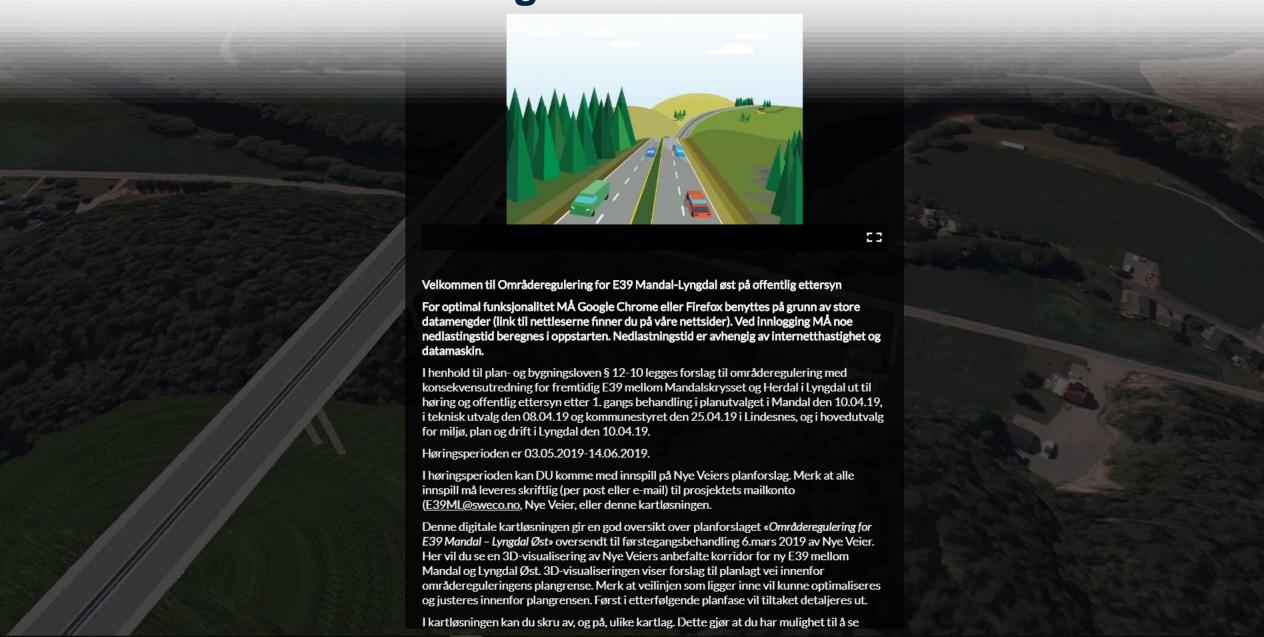


Urban development portal SVENSKA **City**Planner ÖVERSIKTSPLAN

Promotion and advancements CityPlanner



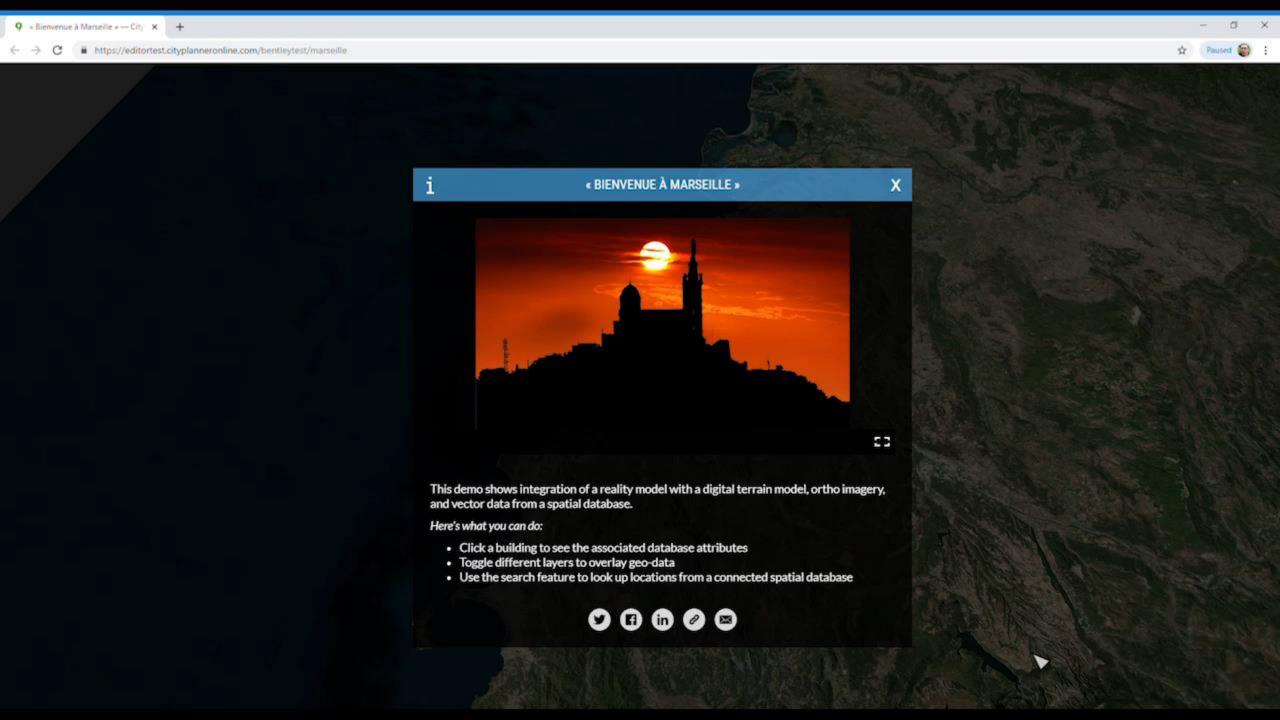




Engagement and dialogue



Visualization of 3D geoportal Sveriges geologiska undersökning Modell av Uppsalaåsen Här visas jordarter på djupet beräknat ifrån en förenklad modell av Uppsalaåsen _19m Översta jordlagret består av postglacial lera Ås SGUs jorddjupsmodell uppskattar jorddjupet till ungefär 20-30m Berggrunden består av orogenen, metamorf intrusiv- och Berg Koordinaten du tryckte på var 6642044,647303 (SWEREF99TM N.E) 3D-PROJEKT **VERKTYG**





Asset performance – operational data integration

Supports massive datasets

- Streaming technology
- Visualize entire cities and countries
- Visualize terrain models, reality meshes, semantic models such as CityGML



Files

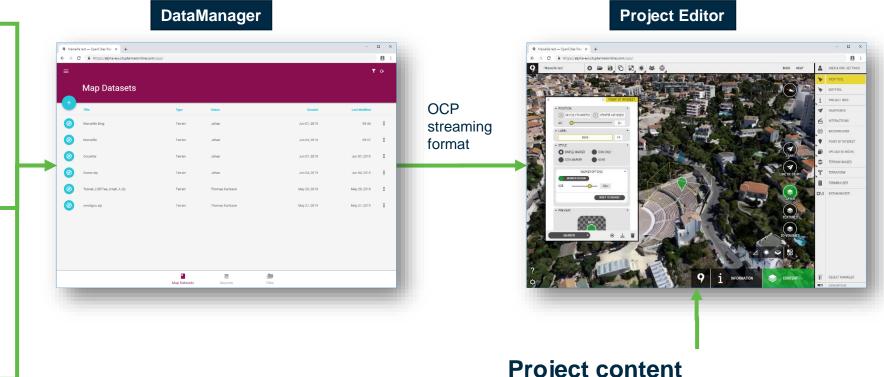
- 3D-models, such as a 3D city set
- DSM/DTM
- Ortho Images
- Reality Models
- Vector

Services

- WCS
- **WMS**

Databases

- Spatial databases such as Oracle Spatial, PostGreSQL
- Geometry and attributes
- 3DCityDB (CityGML) or custom database layout





Project content

- WMS, Geo Images, Shape
- 3D CAD models
- Points of interest
- Questionnaire form
- Editor Tools: Sketching, Shadows, Videos



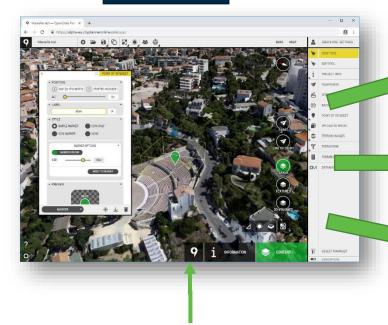
Live visualization from spatial database

Semantic 3D city models, zoning, assets, points of interests, vector geometry





Project Editor



Project content

- WMS, Geo Images, Shape
- 3D CAD models
- Points of interest
- Questionnaire form
- Editor Tools: Sketching, Shadows, Videos



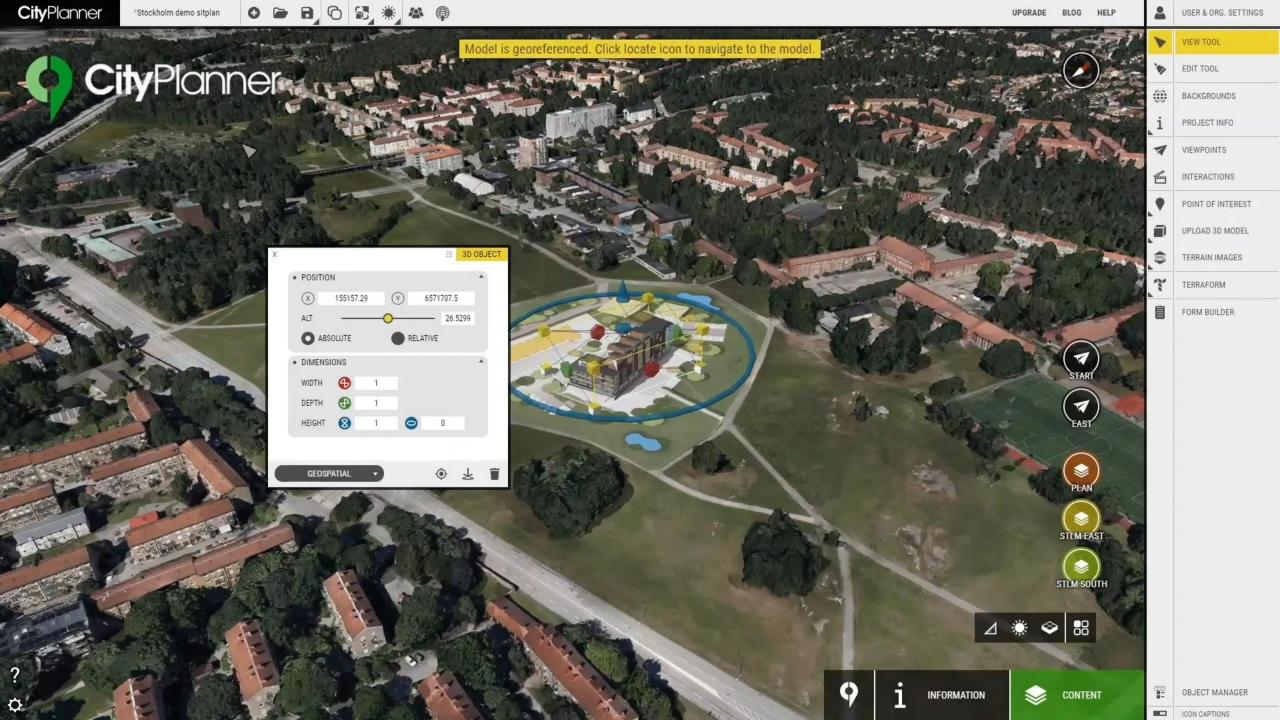
Team, Stakeholders, Citizens





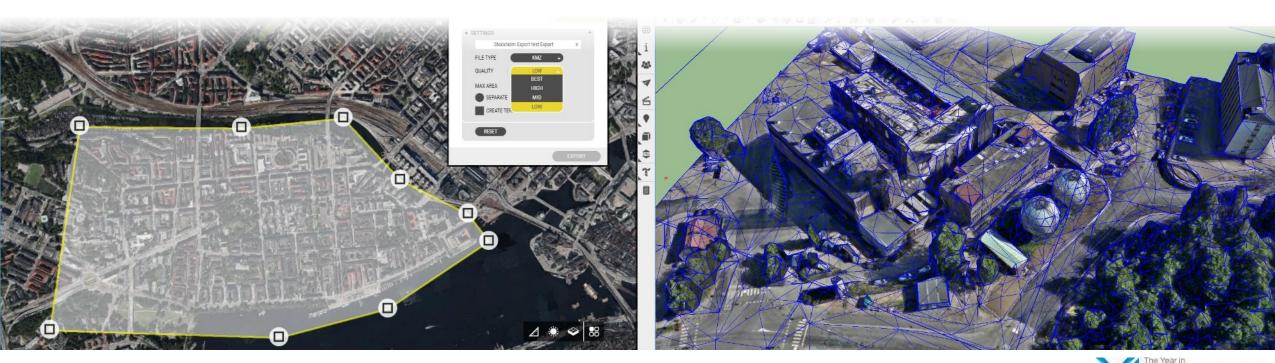






Export 3D

- KMZ/Collada exports from the entire 3D city model
- Separate files or combine to one
- Quality setting

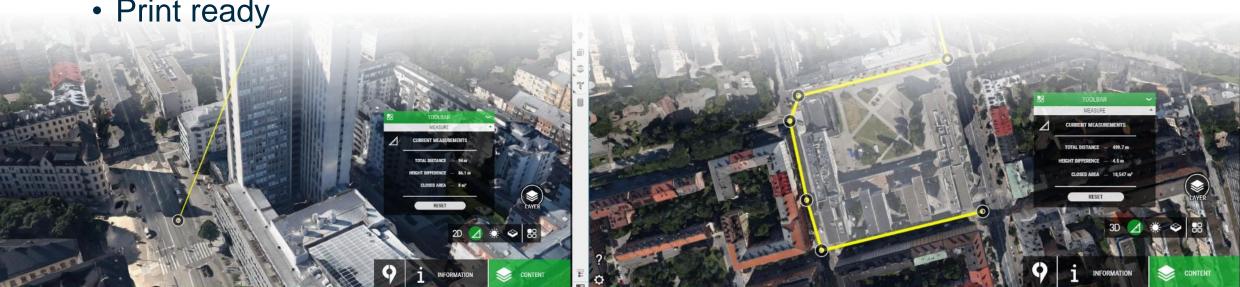


More editor tools

- Measure
 - Distance, height, area
 - Also, shows cursor current coordinate and altitude
- Export high-res screenshot

Print ready

- Export 360 panorama image tours
- Export videos from camera paths
 - Even 360 videos!



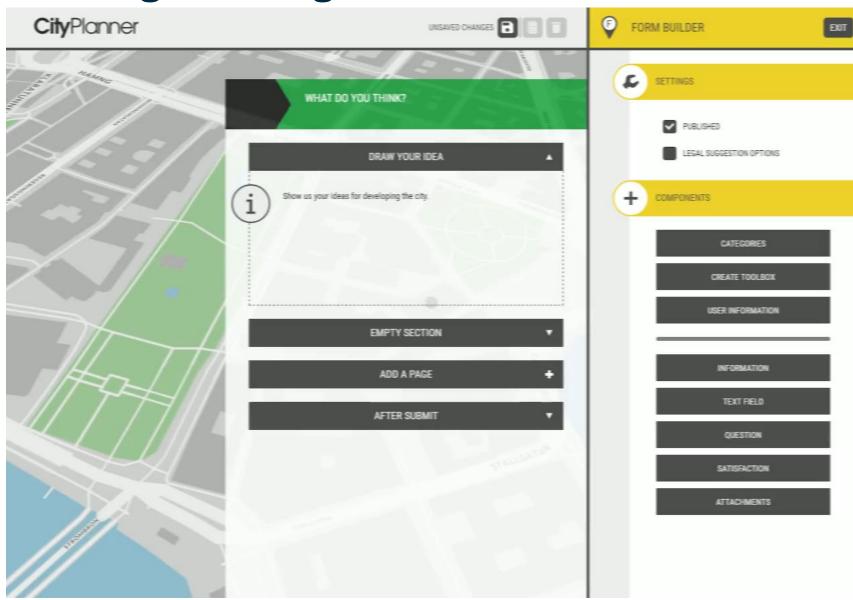
Adding point of interests, vector, and WMS

 Add point of interests with support for images, text, embedded content, attachments

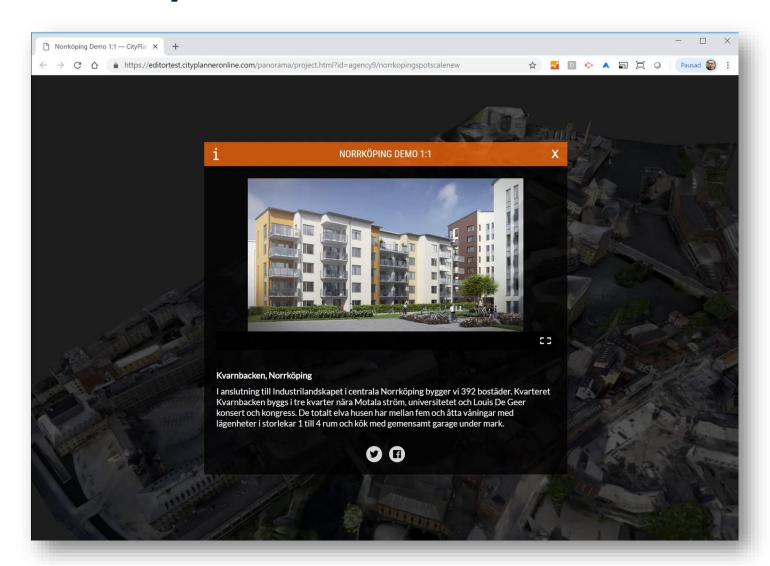
 Shape files, texture on ground or extrude to 3D. Show attributes on click.



Creating a dialogue or user interaction



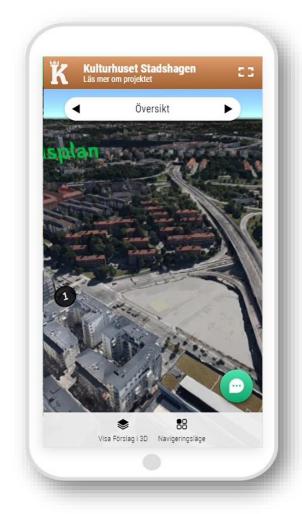
Desktop

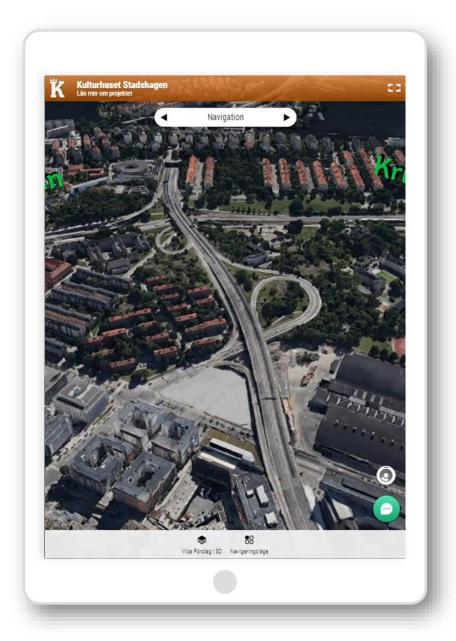


Mobile



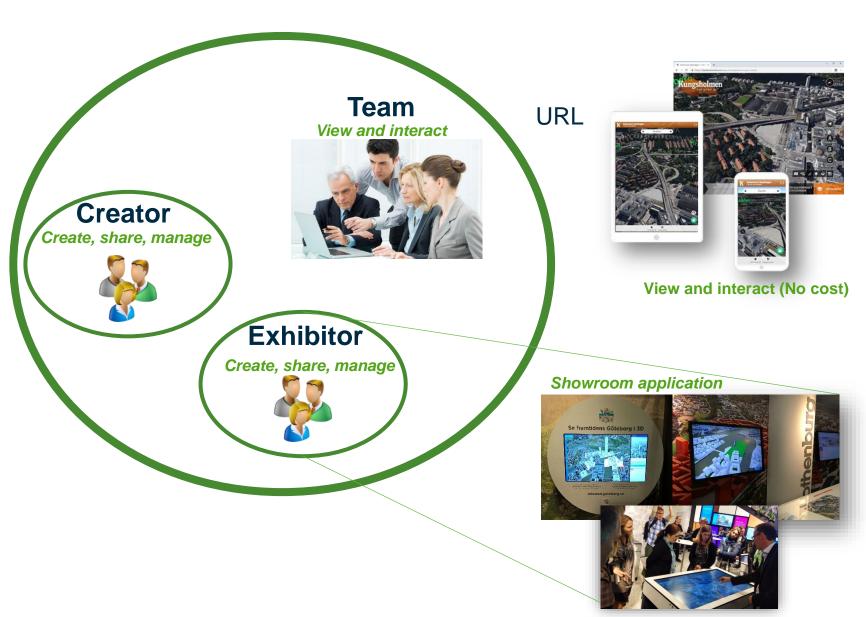
Panorama and interactive 3D







Named Users

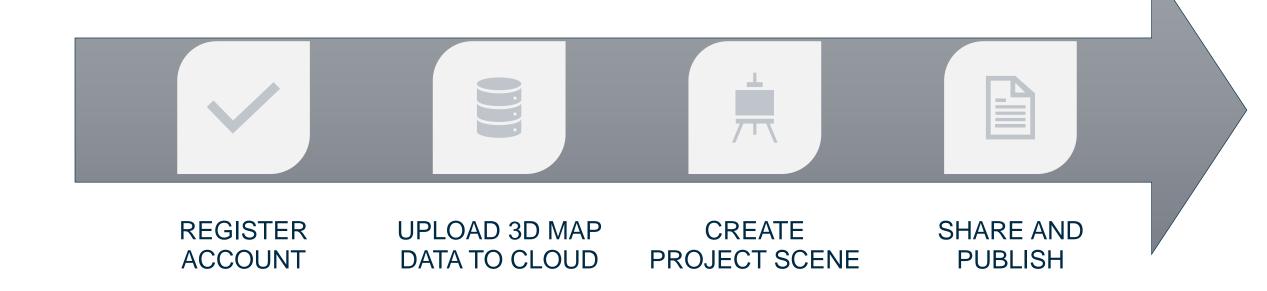


Teams, Stakeholders, Citizens





Easy deployment in the cloud



Summary

More efficient projects

- Easily share project information
- Short review and feed-back lead time
- Improved decision material
- Tools for use throughout organization

Decreased costs

- Same solution for web, mobile and exhibition screens
- Reuse of city model and mapping data in several projects
- Easy to access information at home, office or in meetings

Engagement

- Powerful communication of project externally
- Less complaints and formal appeal
- Shorter planning process
- Dialogue with wider groups of citizens

Planning tools, Project communication, Transparency and dialogue, Promotion