



Airport 3D Visualization Project

Prepared for:

The City of New Braunfels Planning Department

The Geo Solutions Team

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Purpose

Goal: Create visual representations of airport zoning regulations so they can be understood by city staff, property owners, and the general public.

Objectives:

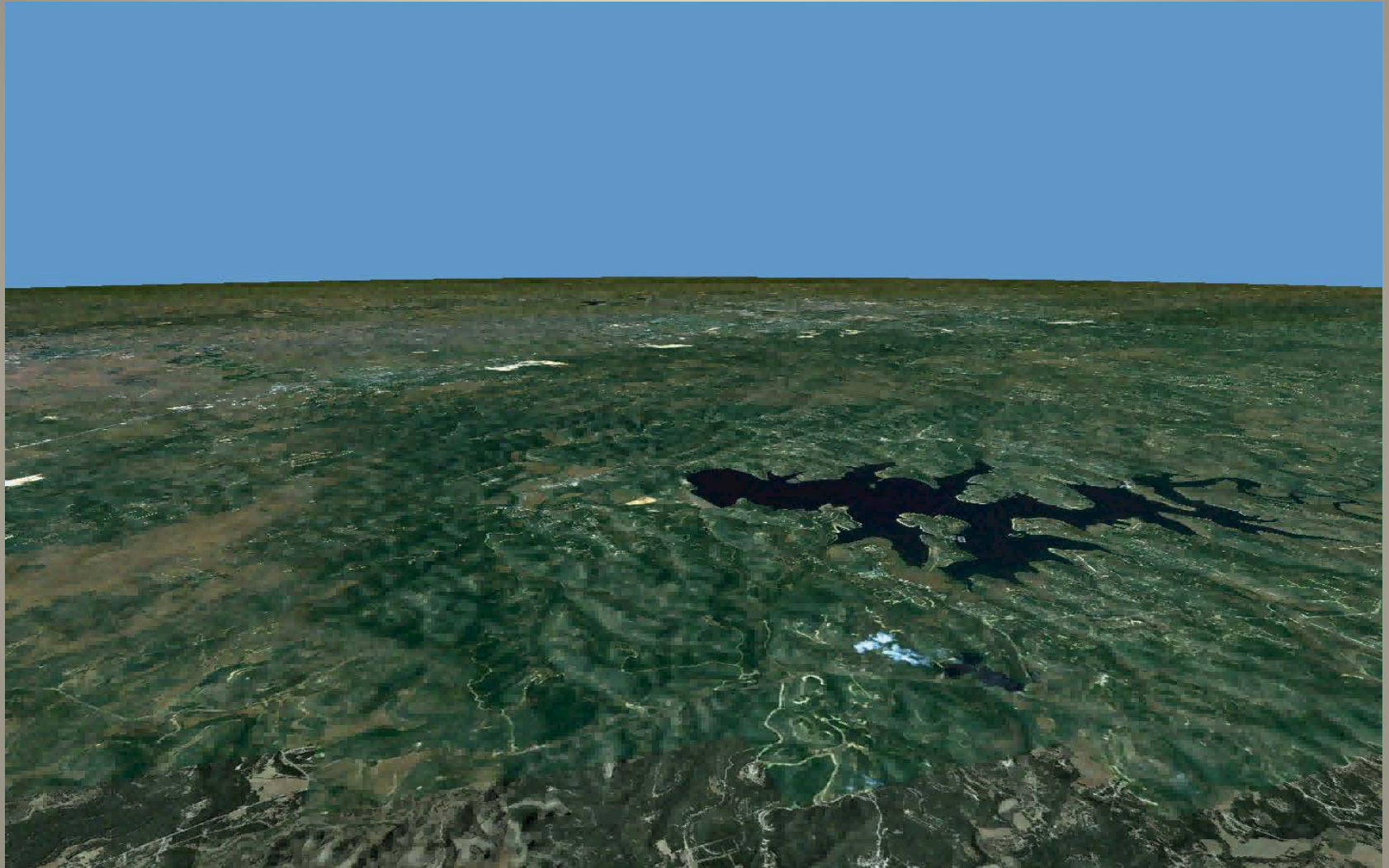
- ➔ Develop a 3-D model of restricted zones
- ➔ Import model into Google Earth for public access
- ➔ Create an interactive inquiry tool map displaying available building heights

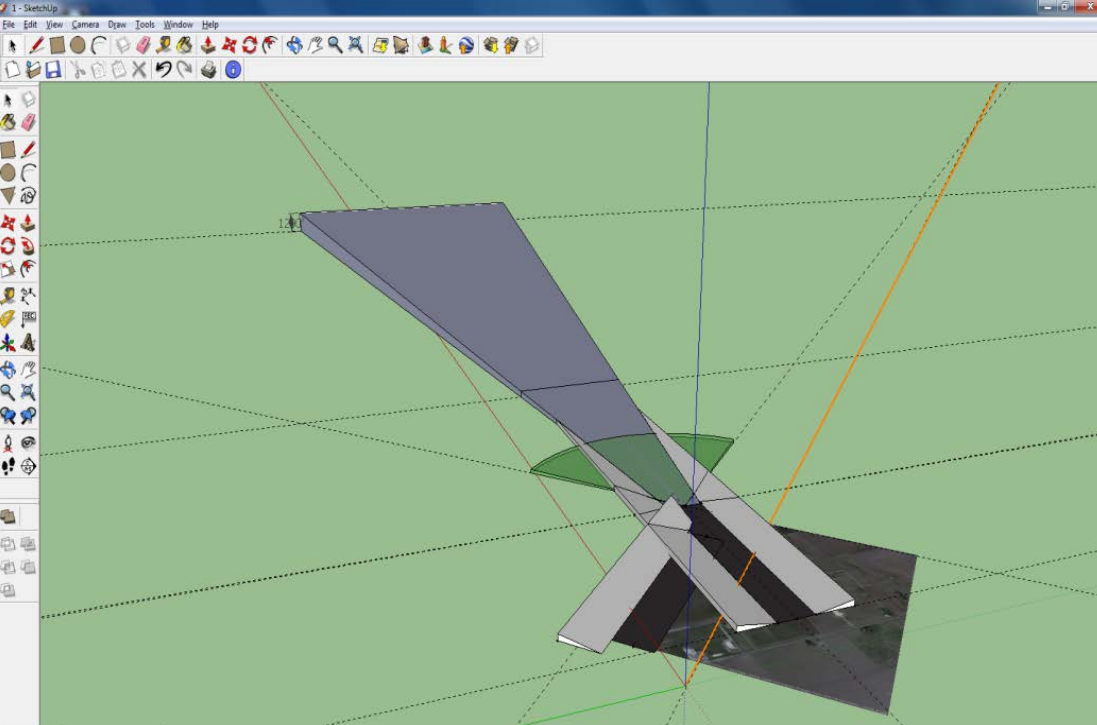
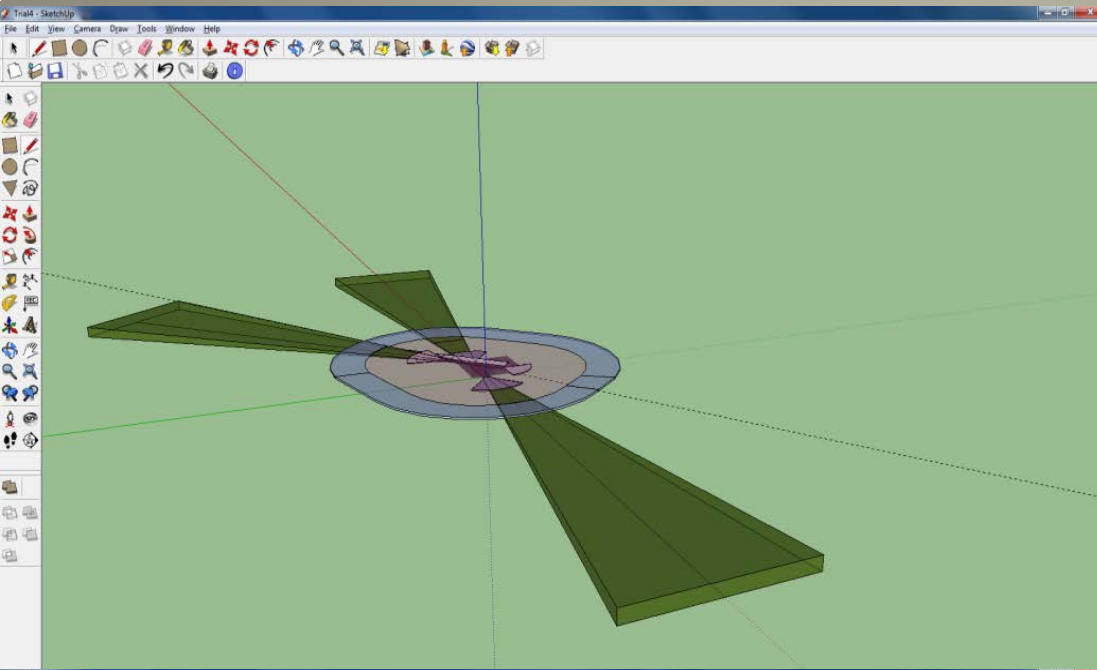
Task 1 – 3D Model

- Completed
 - Terrain in ArcGlobe
 - Individual restricted zone polygons
- In-Process
 - Merging polygons to create minimum heights
- To Do
 - Import SketchUp file to ArcGlobe
 - Create fly-through animation
 - Integrate finished product to the City of New Braunfels website



Fly-Through Example





Google SketchUp

Task 2 – Interactive Mapping Tool

→ Completed

- Identify and collect necessary data
- Assigned z values (elevation)

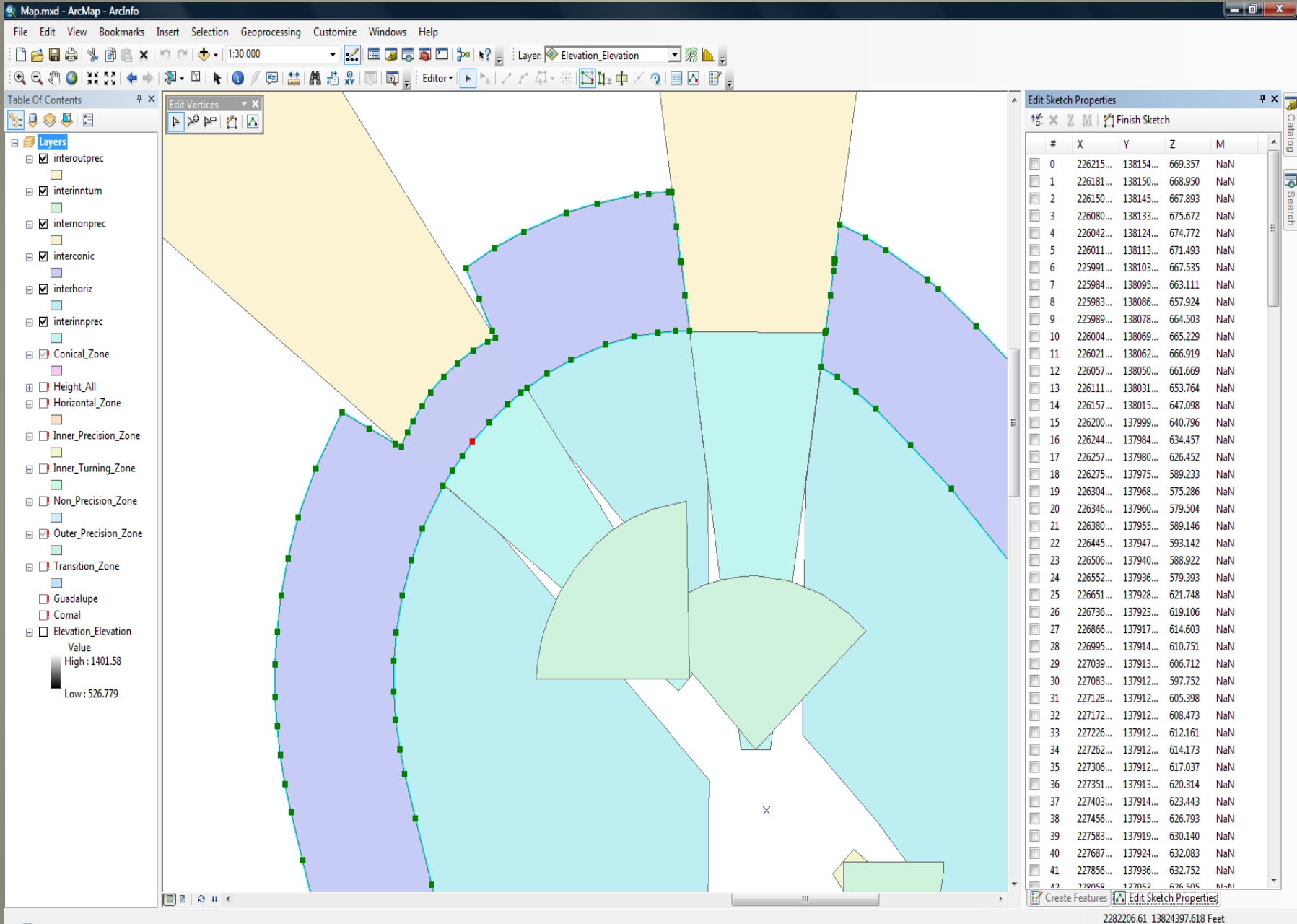
→ In Progress

- Calculating slope for each zone

→ To Do

- Create TIN surface
- Rasterize TIN
- Use Raster Calculator to calculate maximum building heights
- Configure restricted zones to show lowest value for overlapping zones
- Complete graduated color map
- Complete interactive mapping tool

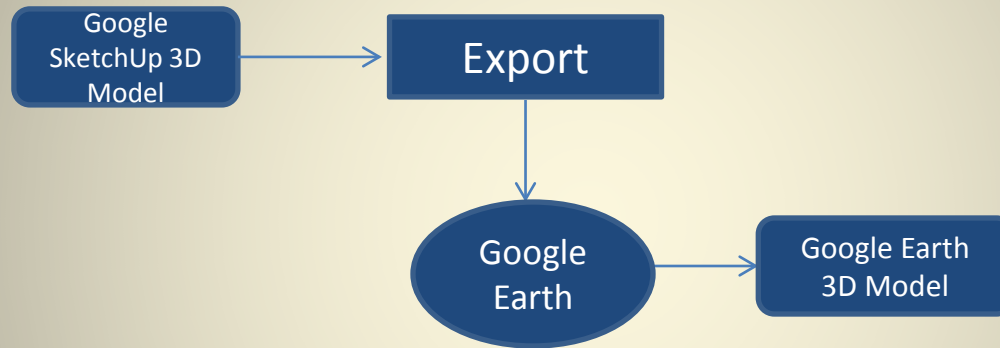


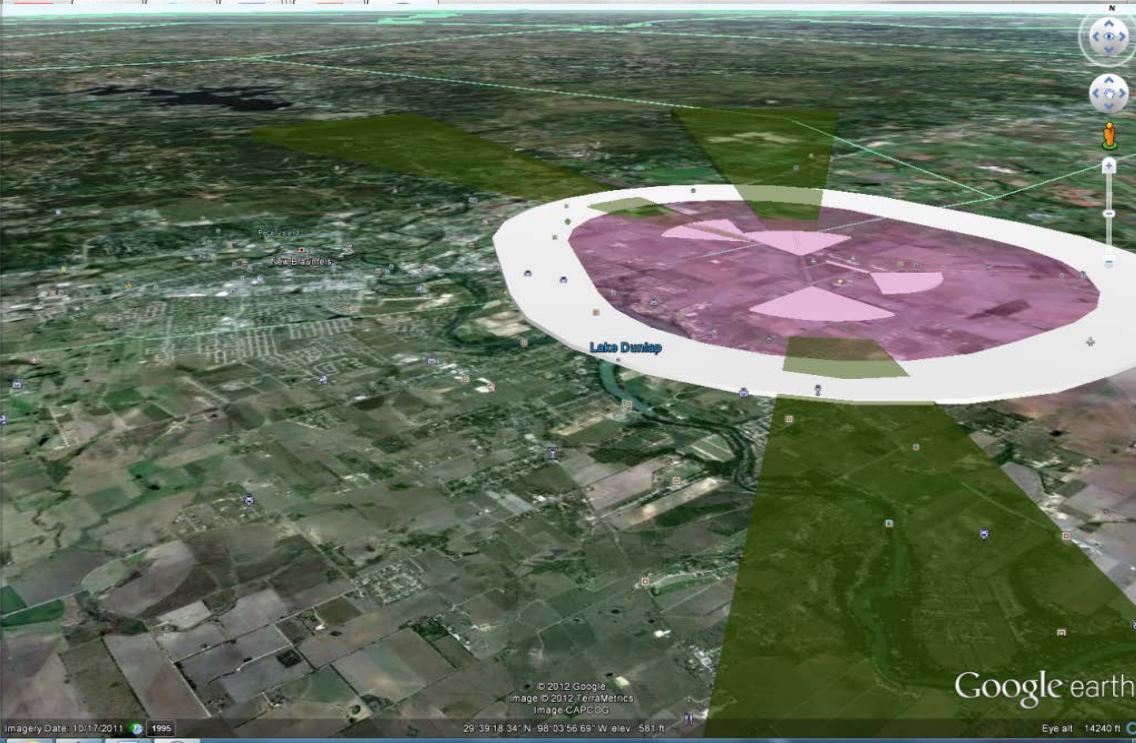
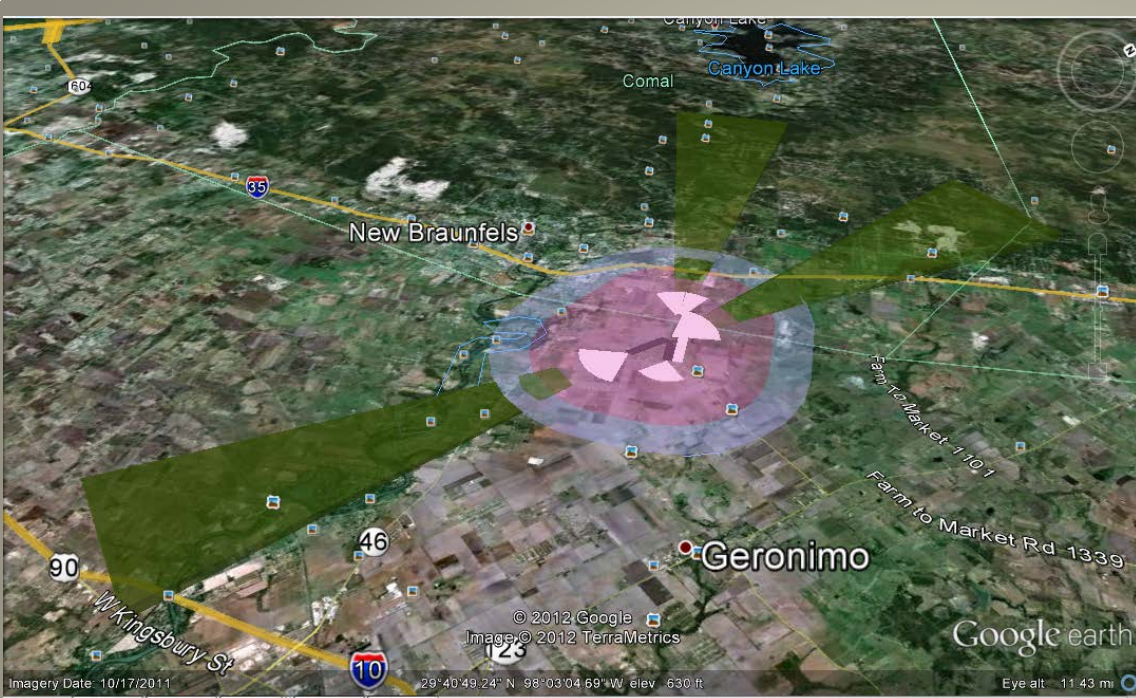


Task 3 – Interactive 3D Map

→ To Do

- Export SketchUp model as a Google Earth file





Google Earth

GeoSolutions

SIMPLY THE BEST

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DOCUMENTS

ABOUT

TEAM



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Welcome!

[New Braunfels, Texas Home Page](#)

[Texas State Univeristy - San Marcos, TX](#)

[PowerPoint](#)

[Interactive Map](#)

This is the official website for GeoSolutions, a group created to produce a 3-dimentional model of airspace restriction zones for the New Braunfels, Texas Planning Department. Please feel free to explore our page for more detailed information and visual aids for our project.



Implications

- Effective communication between the city and general public
 - Airspace restriction zones difficult to understand
 - Intimidating system
 - 3D model is more approachable and will encourage community involvement

- Efficient decision making in-house
 - Comprehensive
 - Easy to query information
 - Assist property and applicants
 - Information available to general public

Timetable

February

S	M	T	W	TH	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29			

March

S	M	T	W	TH	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

April

S	M	T	W	TH	F	S
1	2 Progress Report	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

May

S	M	T	W	TH	F	S
		1	2	3	4 Final Presentation	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

Final Deliverables

Geo Solutions will present the following deliverables to the client:

- Final Report with maps (hard copy)
- Professional Poster Display (36"X48")
- Project Dedicated Website
- CD containing:
 - All data
 - Metadata
 - Report
 - PowerPoint Presentation
 - Instructions on how to use the CD
 - Readme file
- Webpage testing will be conducted to ensure that all data is usable

Conclusion

- The project is on track for proposed finished date
- Minor setbacks have been remedied



Questions?

