WEHRLI & ASSOCIATES
5 Overidge Lane, Wilton, CT 06897
914.420.7017 info@wehrliassoc.com

Pushbroom Aerial Cameras

DAS Family of Pushbroom Cameras

For All Your Needs: Orthophoto, 3D-Mapping, Remote Sensing

4-DAS-1

3-RGB (0°/16°/26°)
1-NIR (0°)

3-DAS-2

Double Swath 3-RGB (0°/16°/26°) inclined across at 20°

1-DAS-1

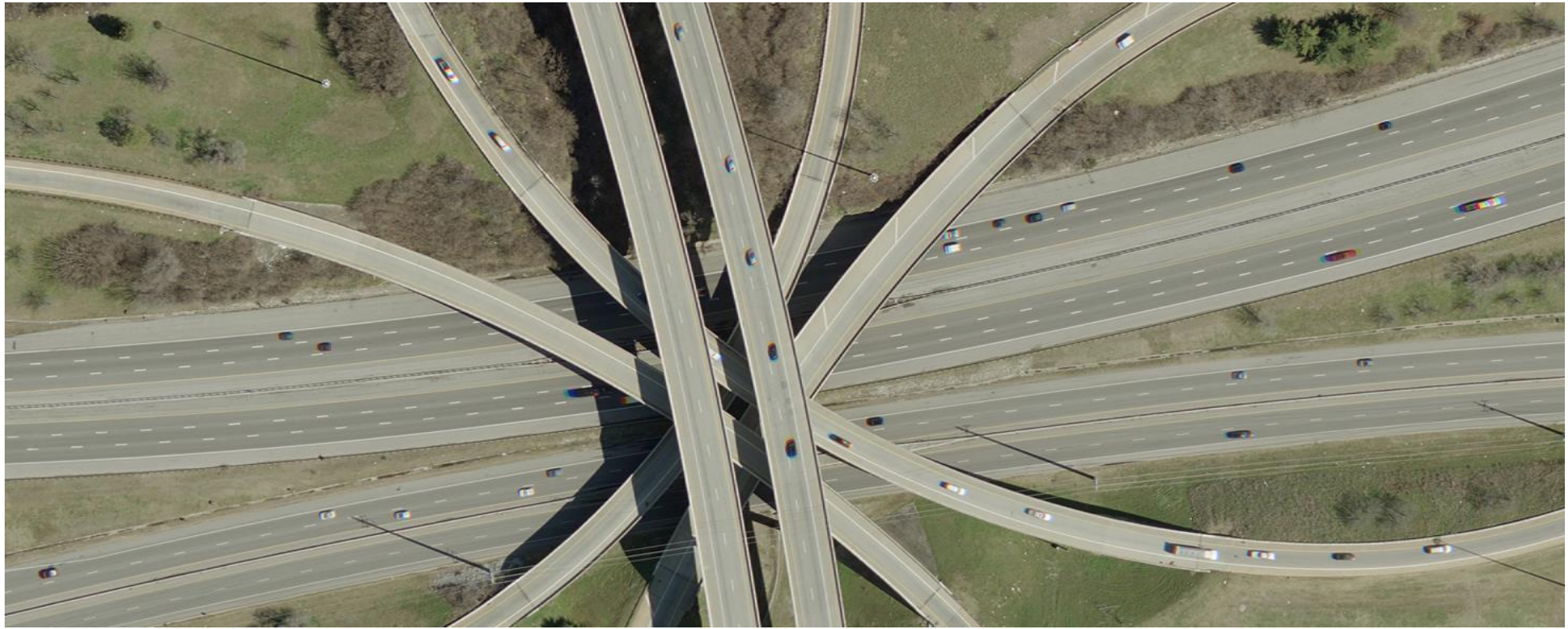
1-RGB (0°)

6-DAS-1

3-RGB (0°/16°/26°)
1-NIR (0°)
2-RGB Oblique Views at 45º Backward/Forward

Pushbroom Advantages

True Color On Every Angle View



Pushbroom Advantages

Triple Overlap For Every Ground Object

Backward view

Nadir view

Forward view

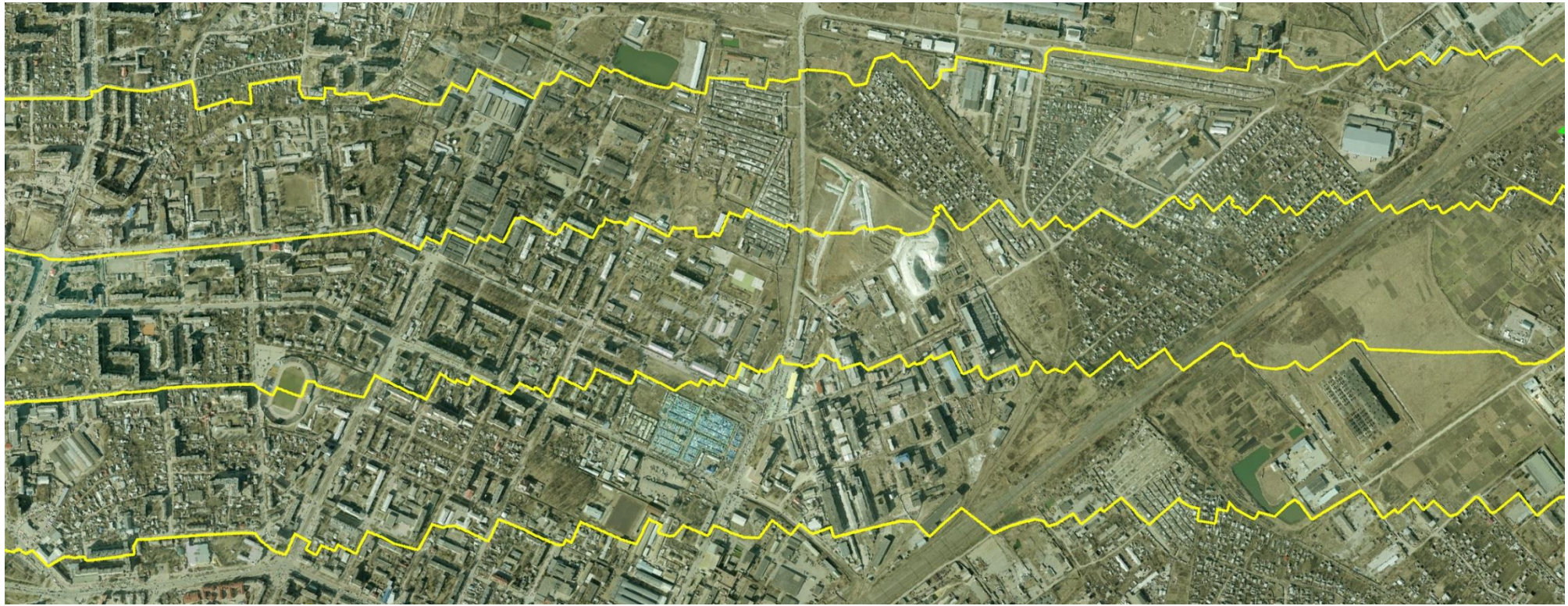
Stereo models with adjustable convergence

Pushbroom Advantages

Near True Ortho in Nadir View

Pushbroom Advantages

Continuous Imagery Rather Than Hundreds of Frames



4-DAS-1

Stereo/Ortho Camera with Near Infrared

Best suited for large scale mapping projects including stereo compilation, orthophoto and remote sensing requirements.

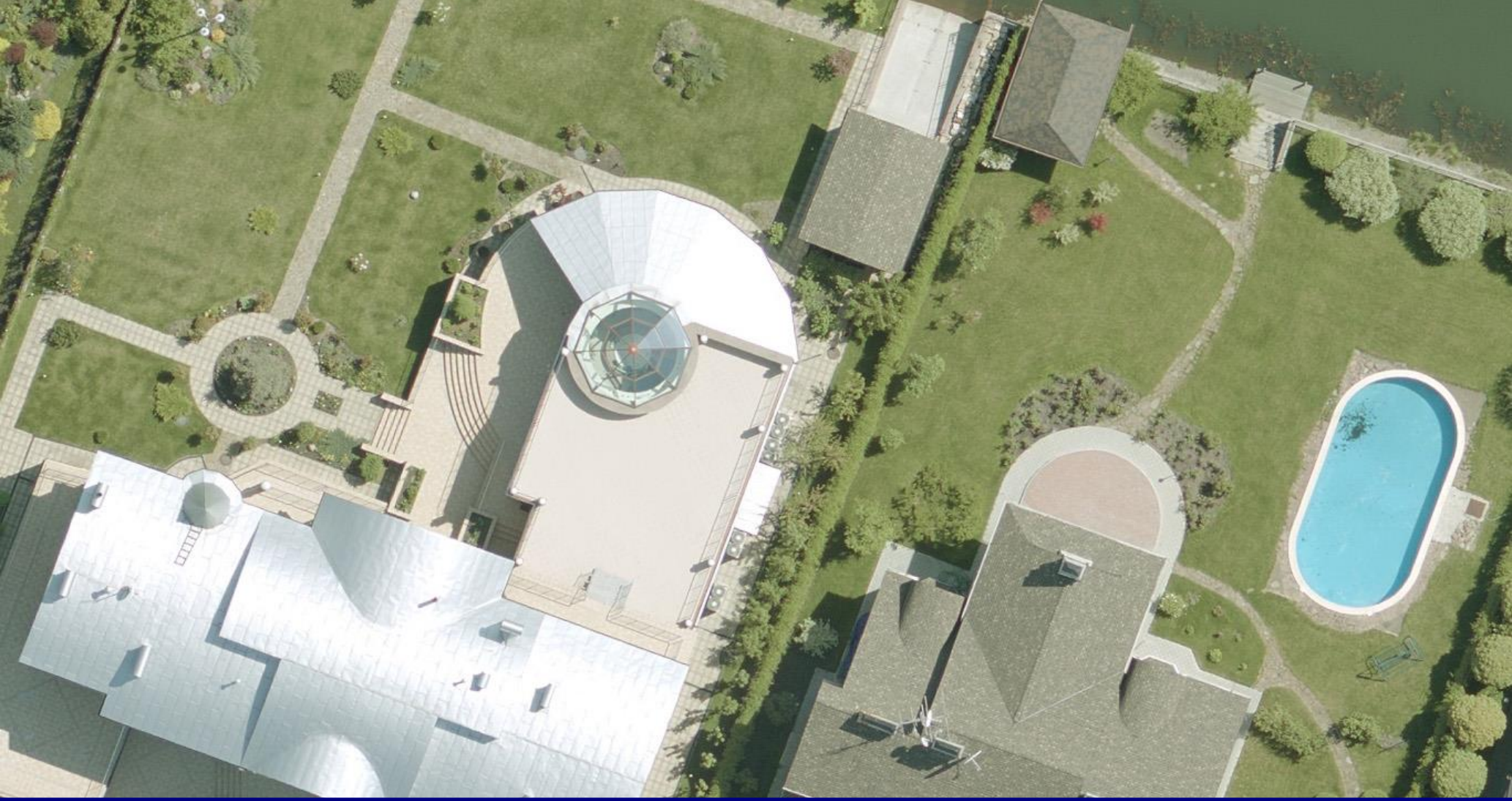
A narrow view angle (36°) across the flight path reduces perspective distortion (building lean).

Selectable stereo for 3D-mapping with 16°, 26° or 42° convergence.

Superior radiometry with 14 bits per band.

Wehrli/Geosystem

Wehrli/Geosystem



Wehrli/Geosystem

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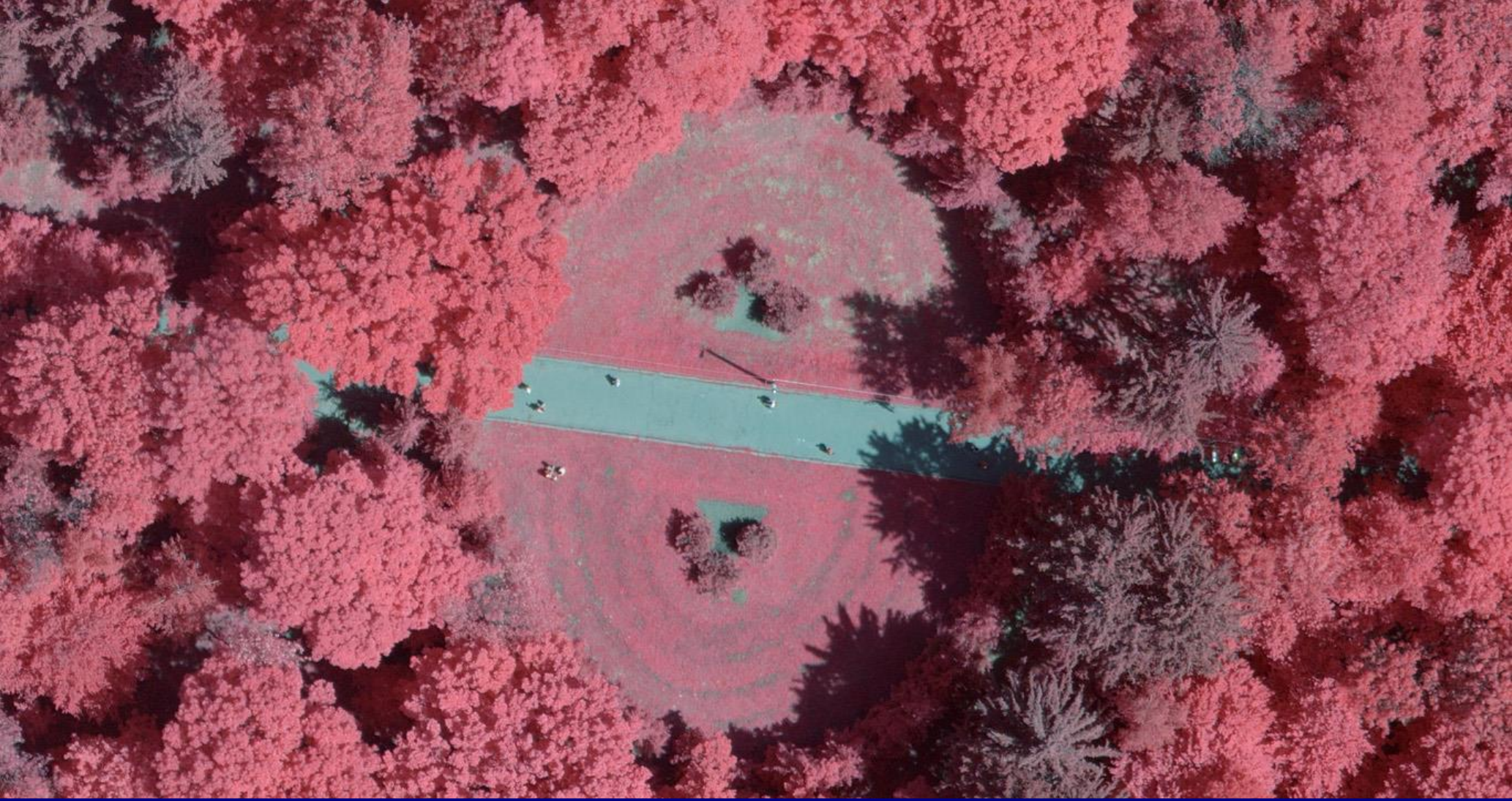


Wehrli/Geosystem

3-DAS-2

Double Wide Swath – Stereo/Ortho Camera

16000 pixels across track

RGB Views at 16°, 26° or 42° inclined across track at 20 °

Continuous, seamless flight strip images in true RGB color.

Robust/stable design supported by components made from invar steel.

Wehrli/Geosystem

6-DAS-1 – Stereo & Oblique

RGB Views at 45º Backward/Forward
RGB/NIR Views 0º
RGB Views 16º and 26º

Capture all views simultaneously for near true ortho and wall building textures. Generate photorealistic city models.

Public Solutions:

- Emergency Management
- Public Safety – 911
- Planning – Law Enforcement
- GIS Integration

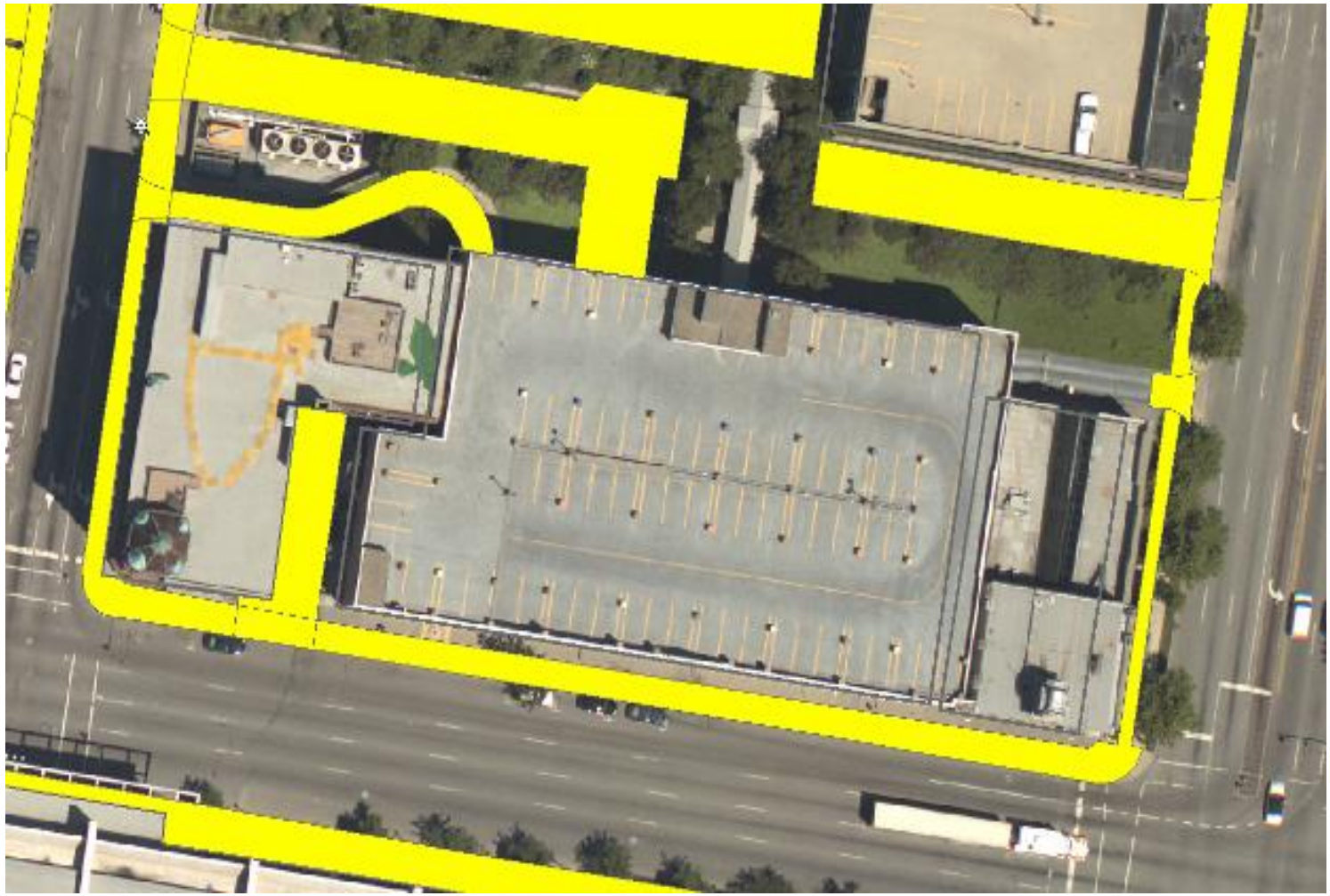
Photorealistic City Models

Wehrli/Geosystem

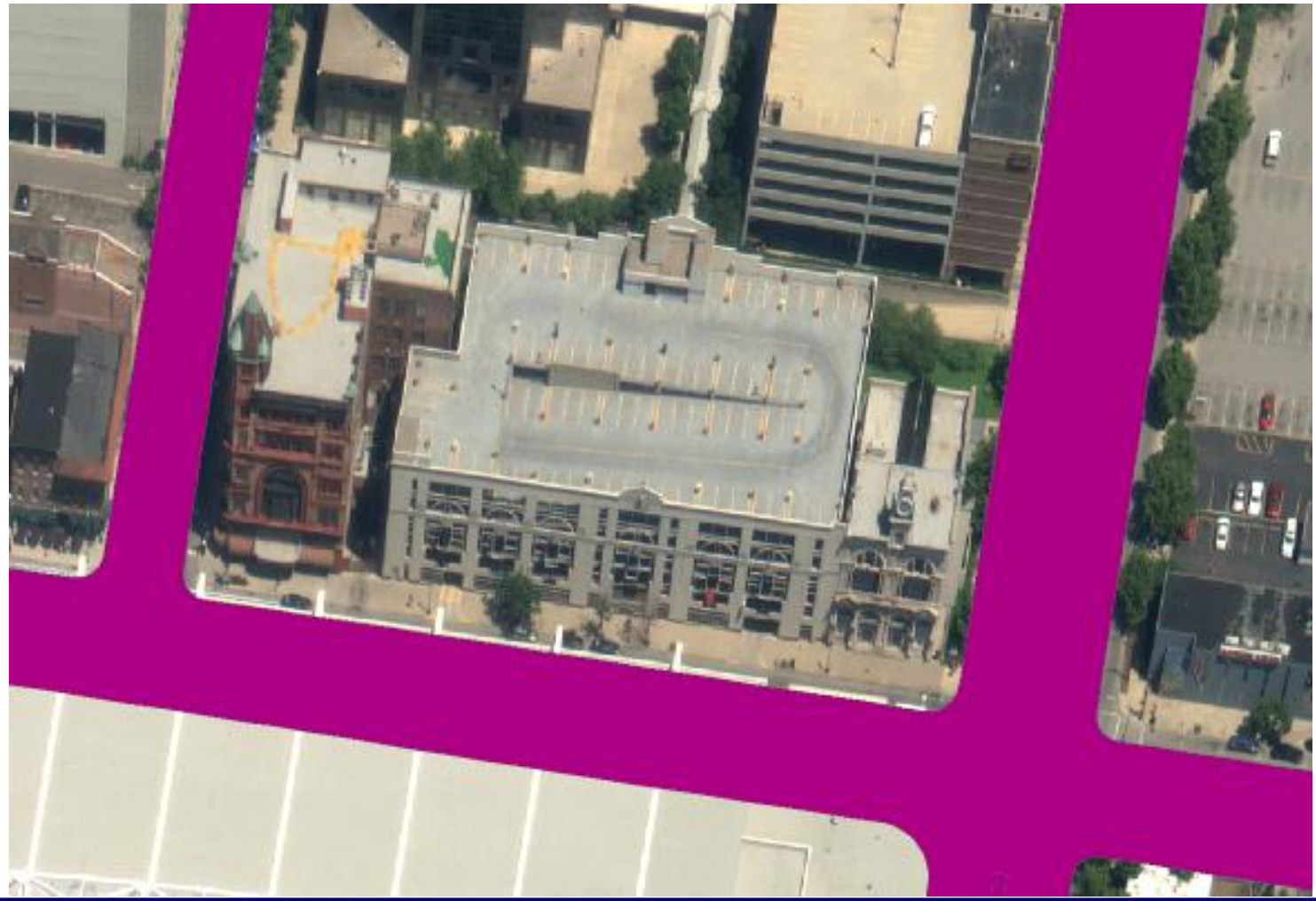
Wehrli/Geosystem

Wehrli/Geosystem

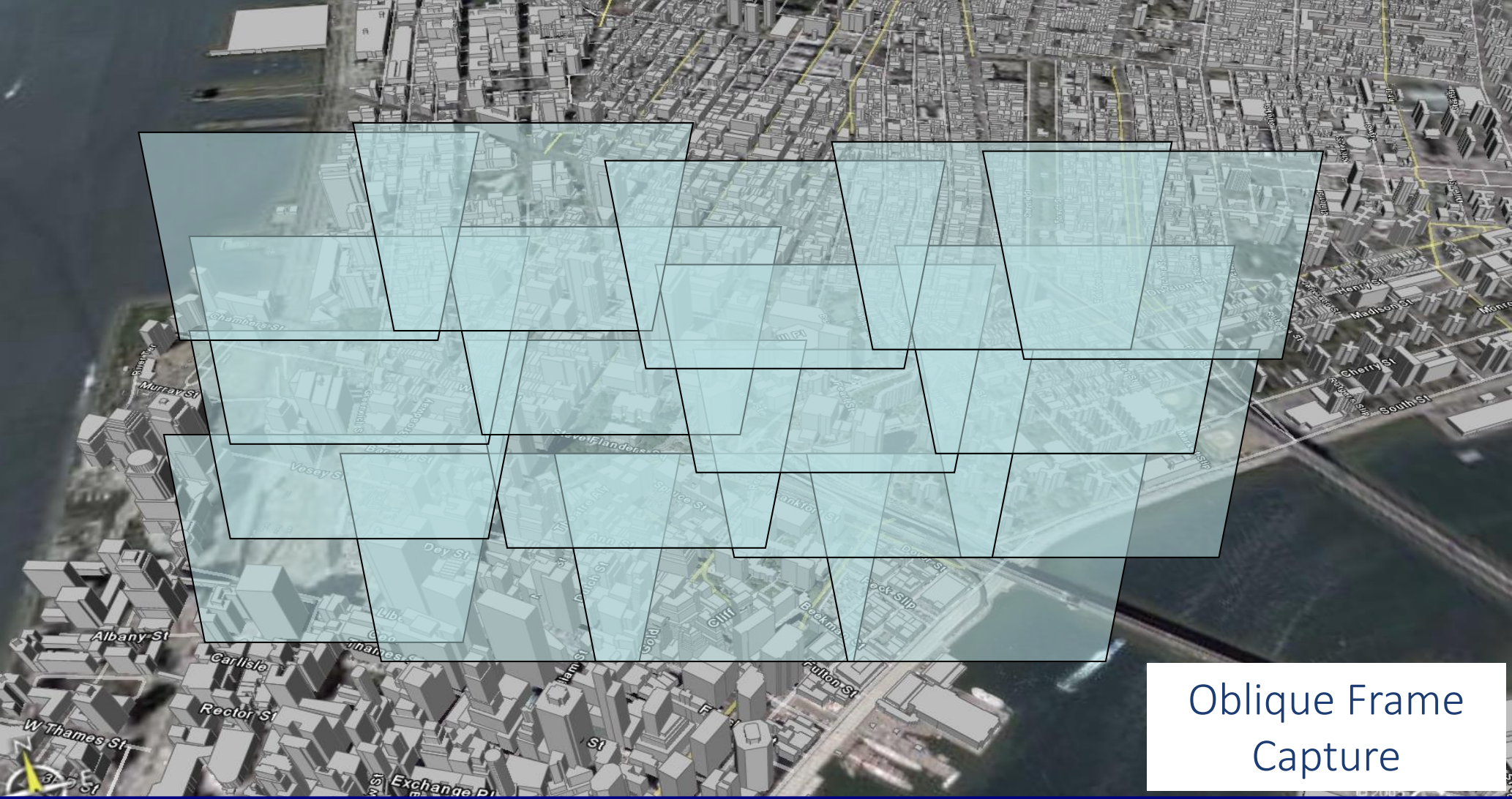
Wehrli/Geosystem



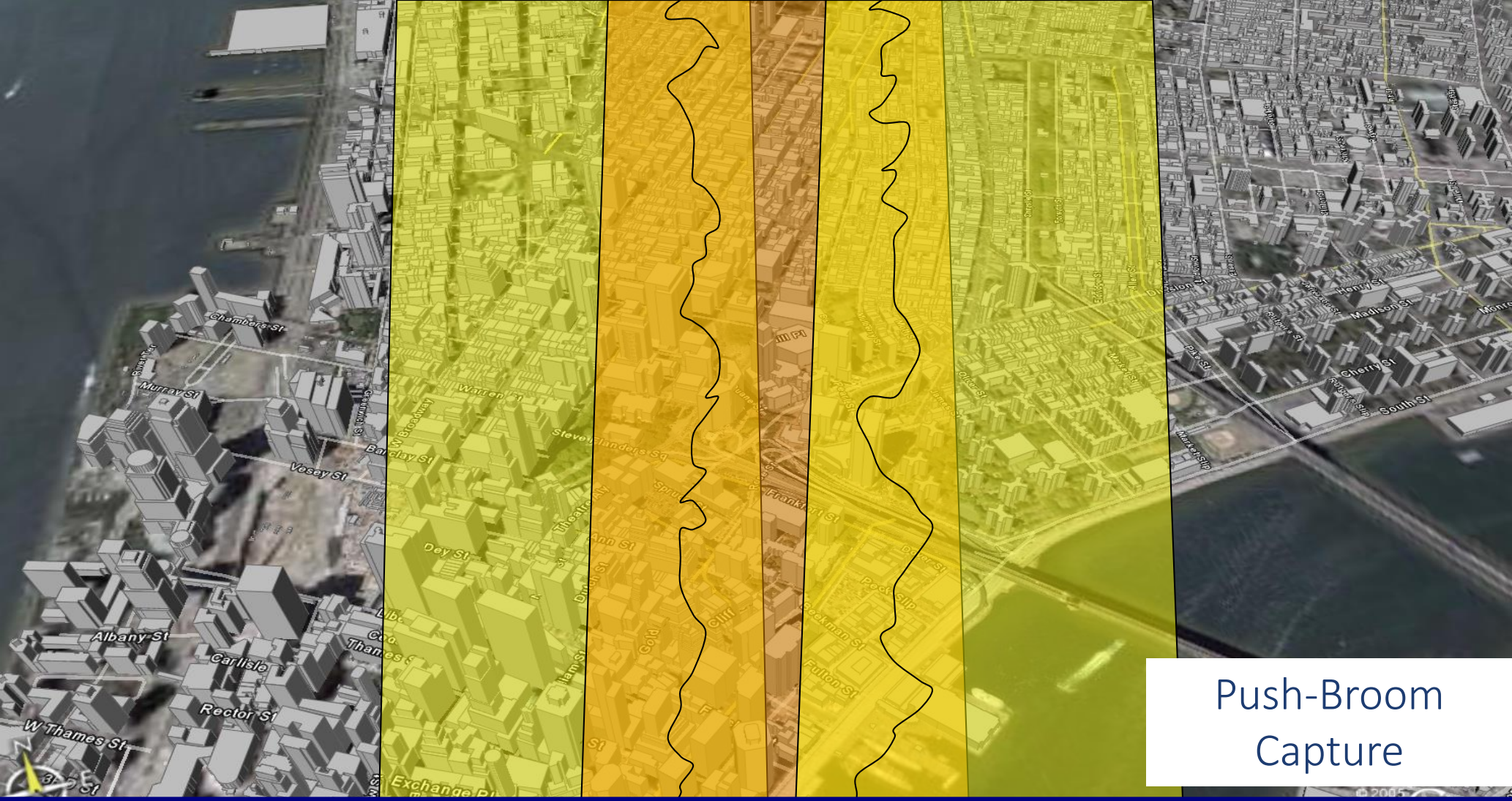
Parking Lot?



Garage



Oblique Frame Capture



Push-Broom Capture

Continuous Oblique Mosaic

ASP-4

Automatic Stabilizing Platform

Uses IMU data for stabilization
Automatic crab angle compensation
3 Independent servo drives

Stabilization Range:
ω±6° (pitch)
ϕ±6° (roll)
K±30°(yaw)
Accuracy:
±0.2° pitch/roll
±0.4° yaw

Adapters For Existing Platforms

Leica PAV-30

Zeiss T-AS