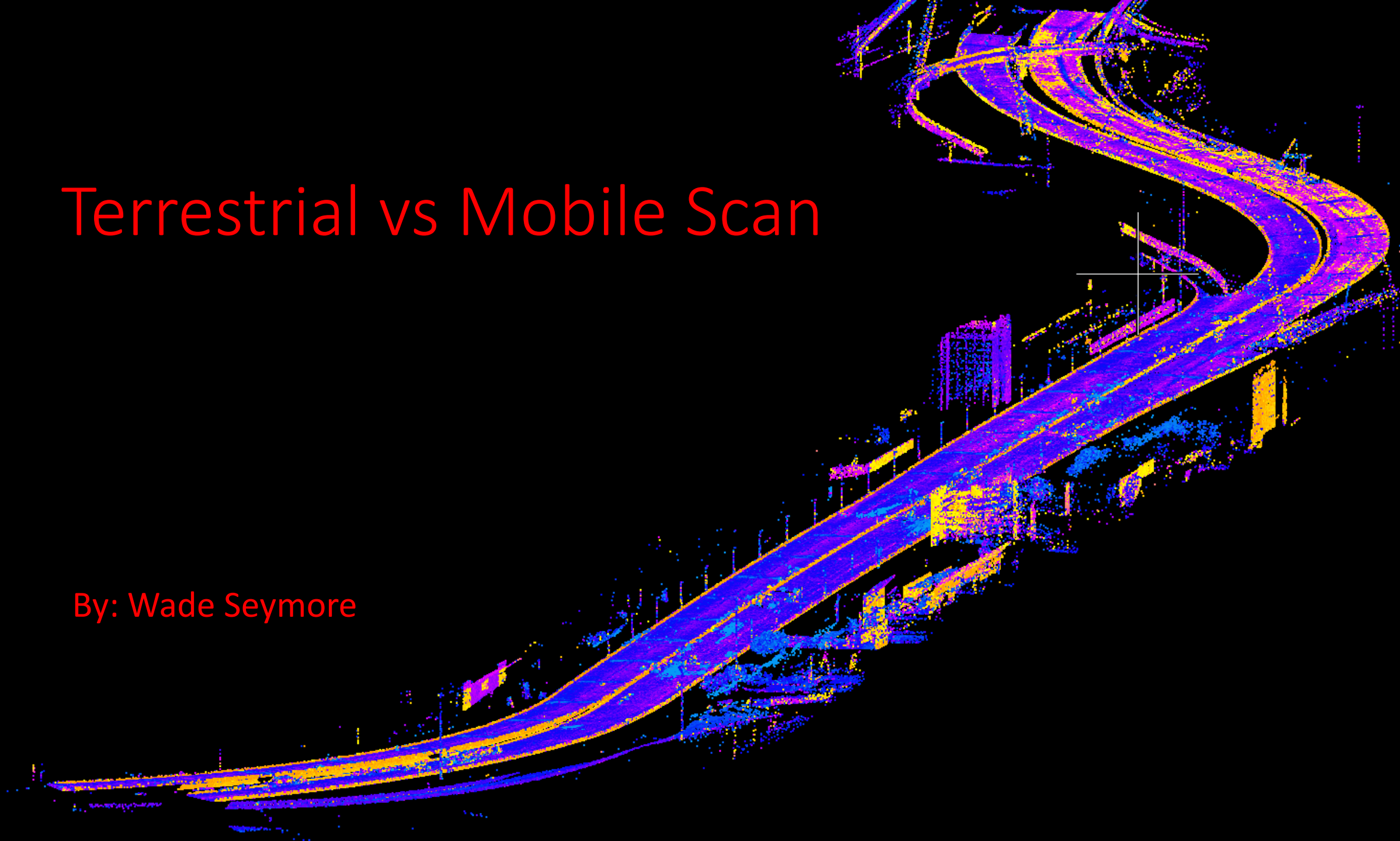
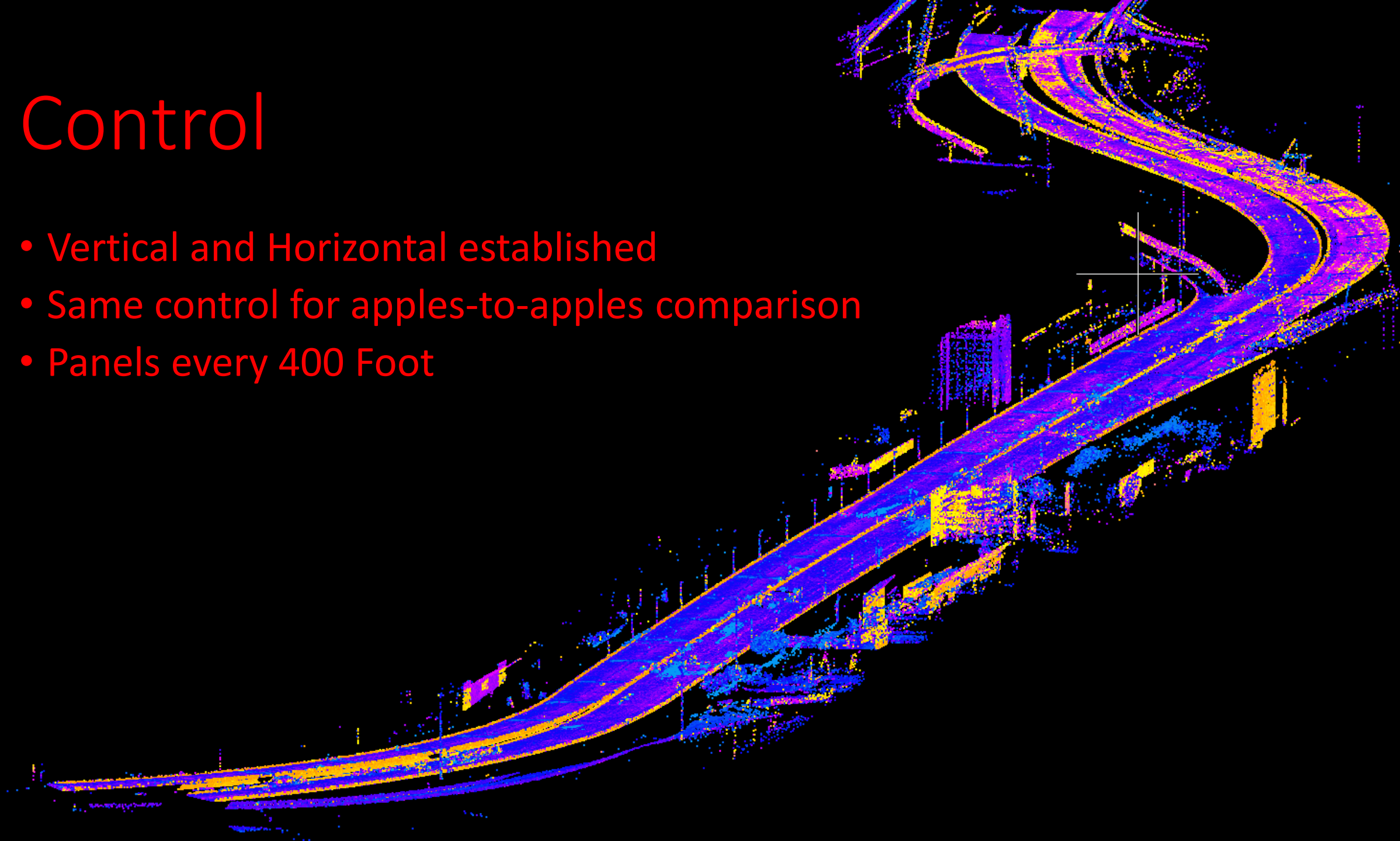
Terrestrial vs Mobile Scan



By: Wade Seymore

Control

- Vertical and Horizontal established
- Same control for apples-to-apples comparison
- Panels every 400 Foot



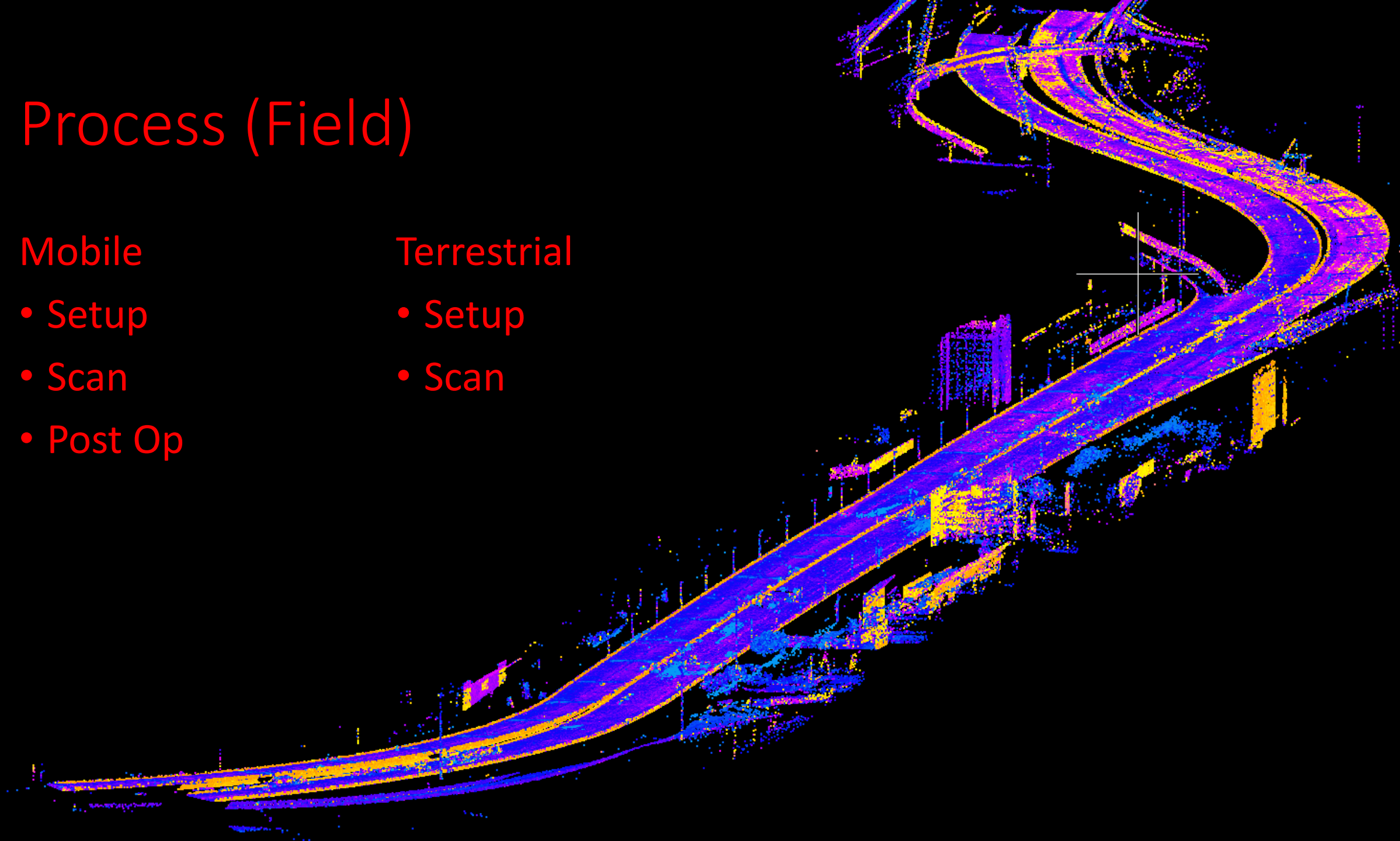
Process (Field)

Mobile

- Setup
- Scan
- Post Op

Terrestrial

- Setup
- Scan

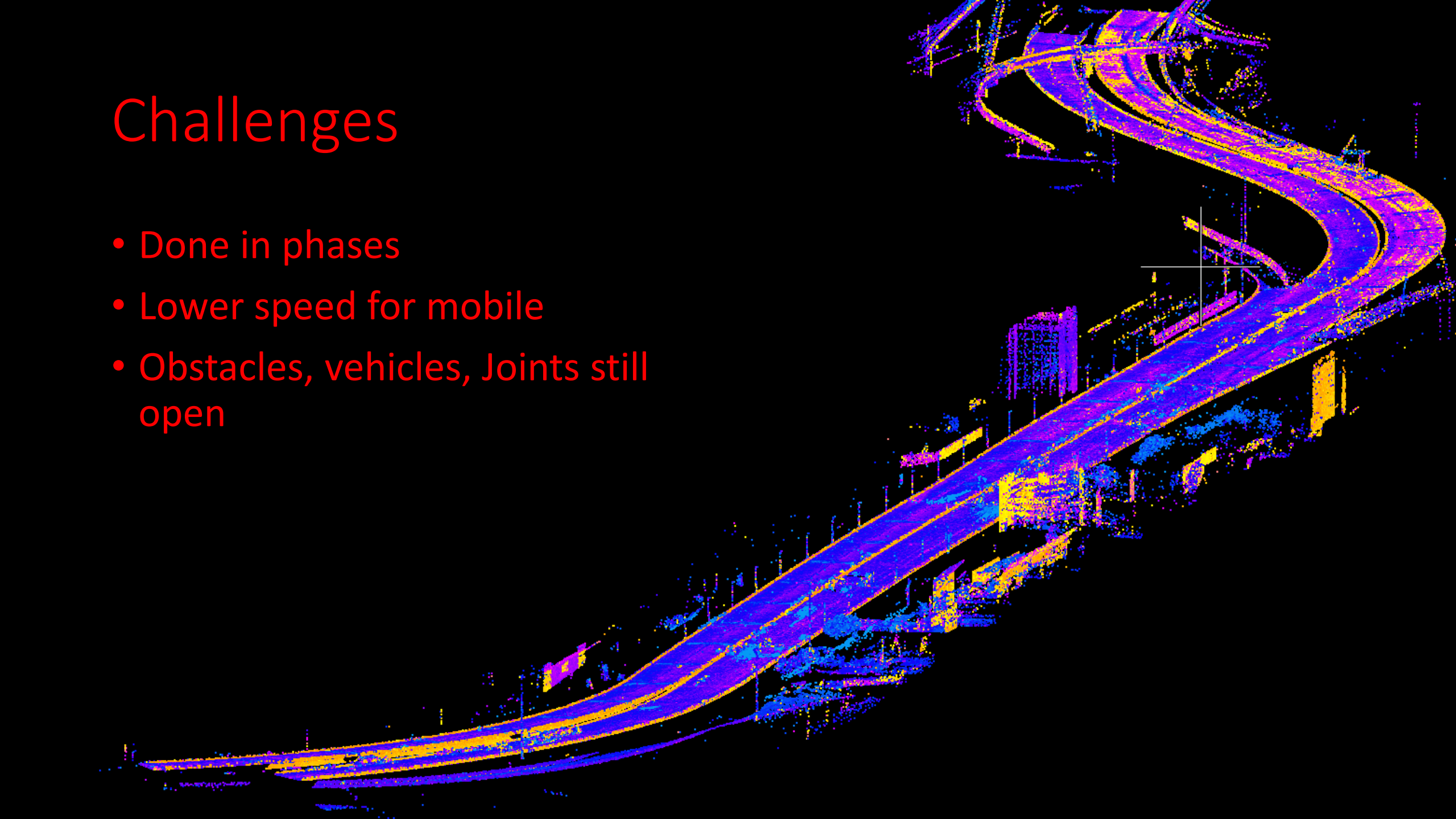


Process (Office)

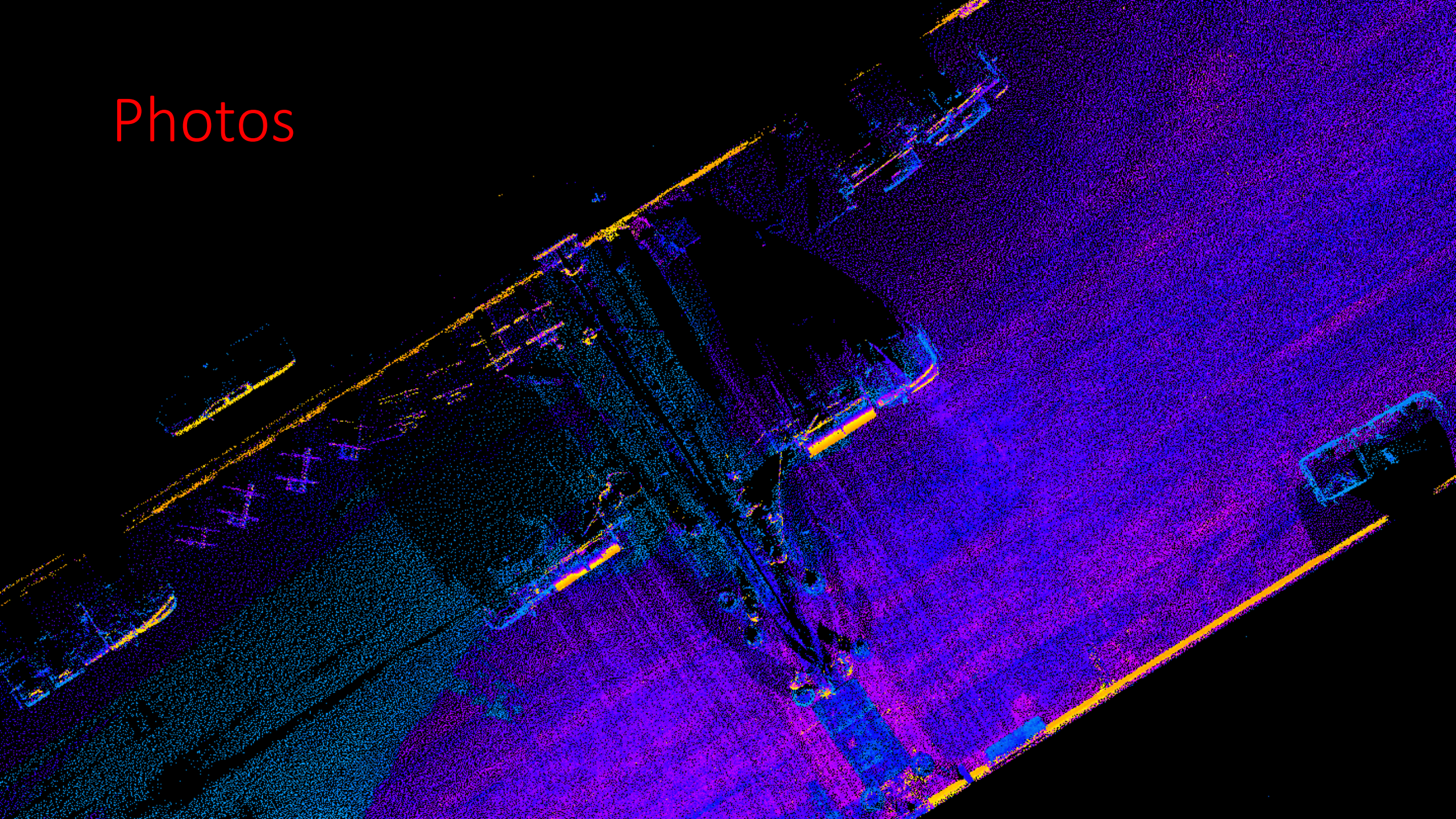
- Download data
- Tie the scan to control
- Eliminate noise
- Extract what data you want.

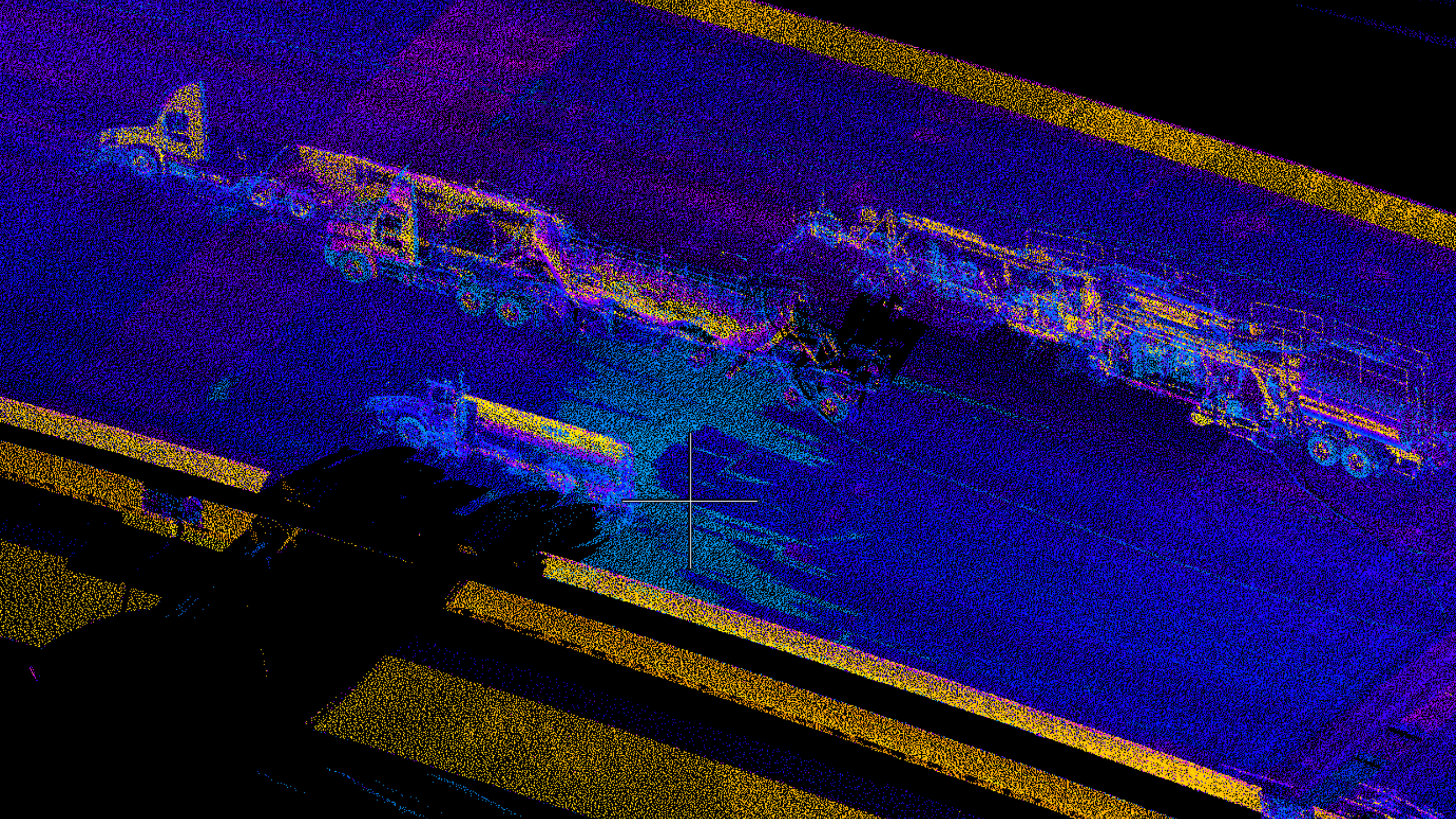
Challenges

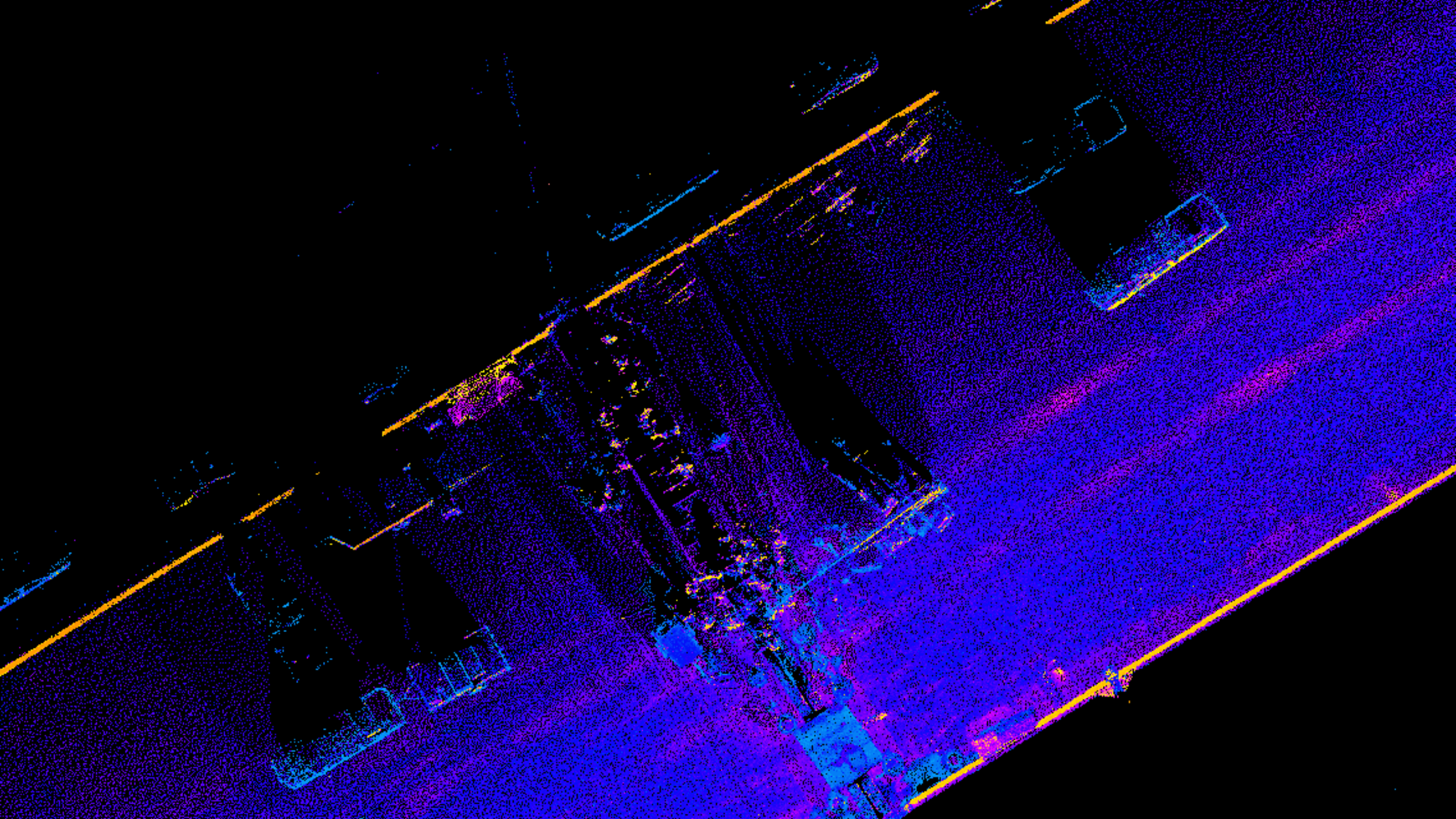
- Done in phases
- Lower speed for mobile
- Obstacles, vehicles, Joints still open

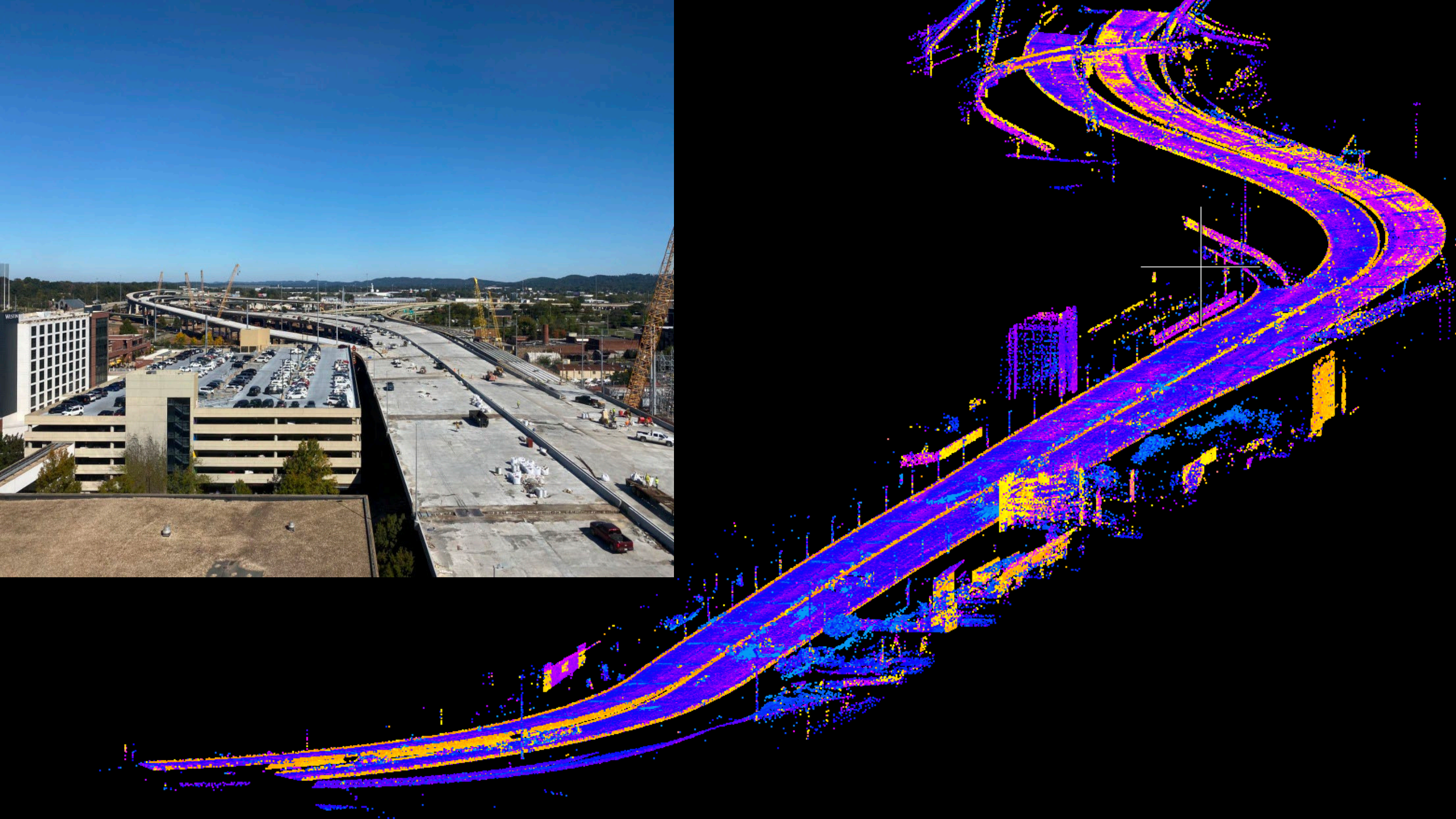


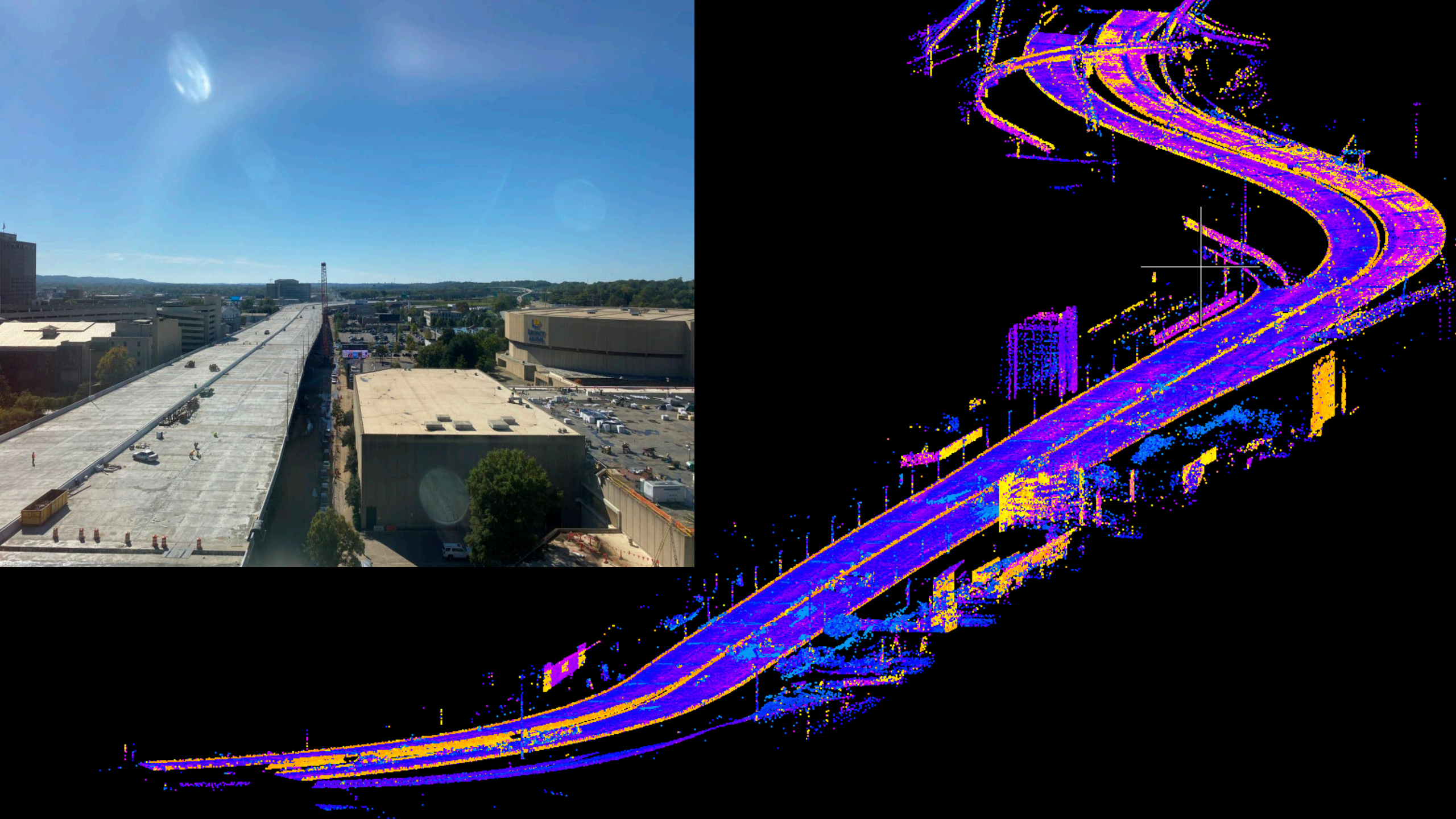
Photos







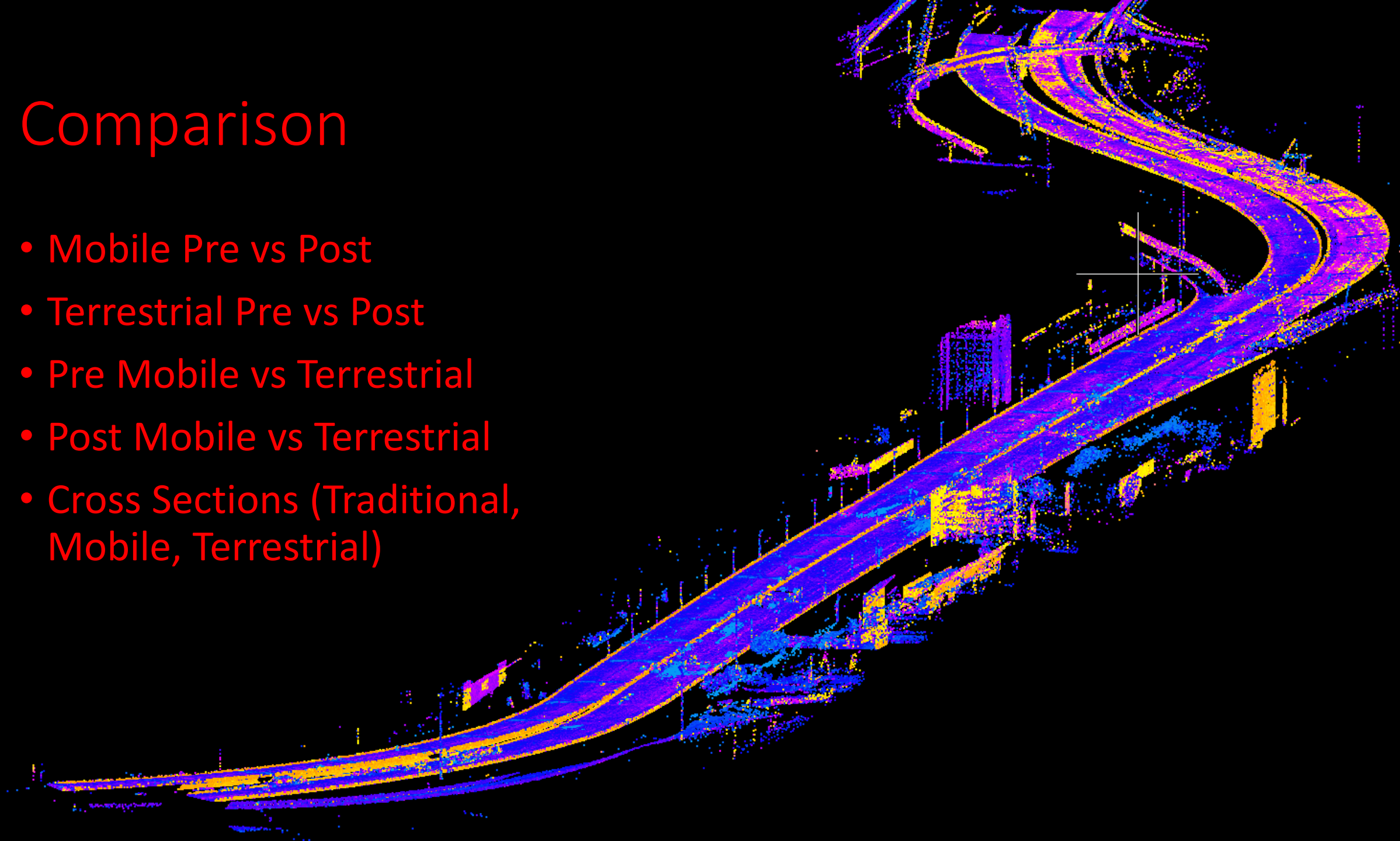




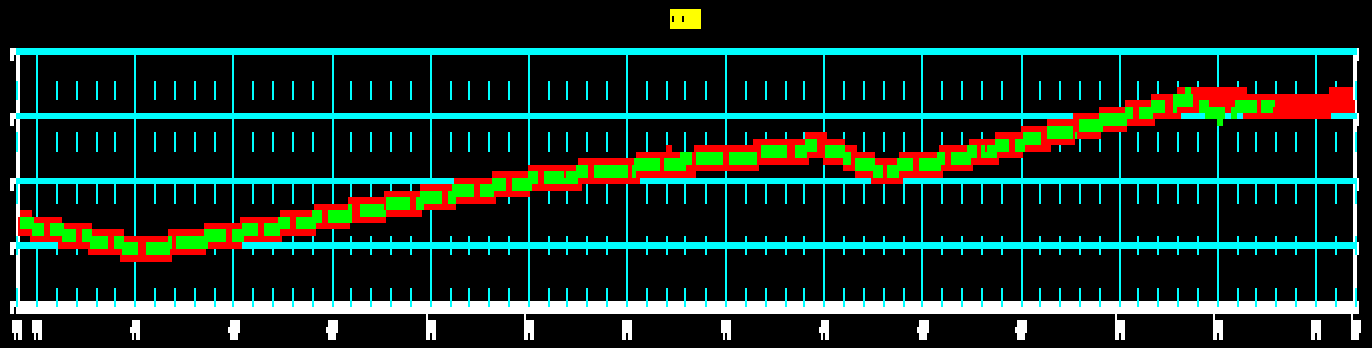
EXIT 126 B
31st ST N

Comparison

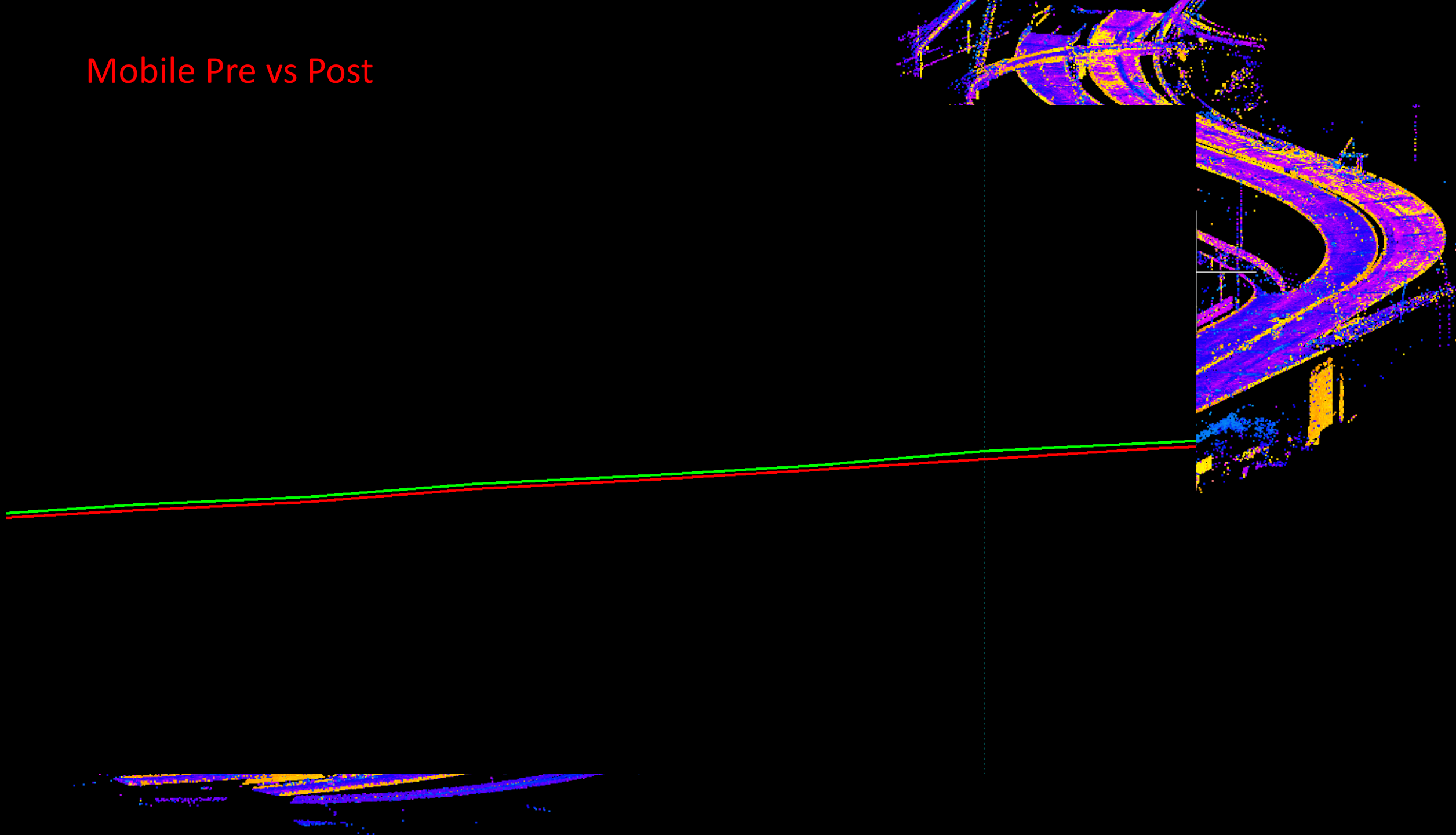
- Mobile Pre vs Post
- Terrestrial Pre vs Post
- Pre Mobile vs Terrestrial
- Post Mobile vs Terrestrial
- Cross Sections (Traditional, Mobile, Terrestrial)



Mobile Pre vs Post

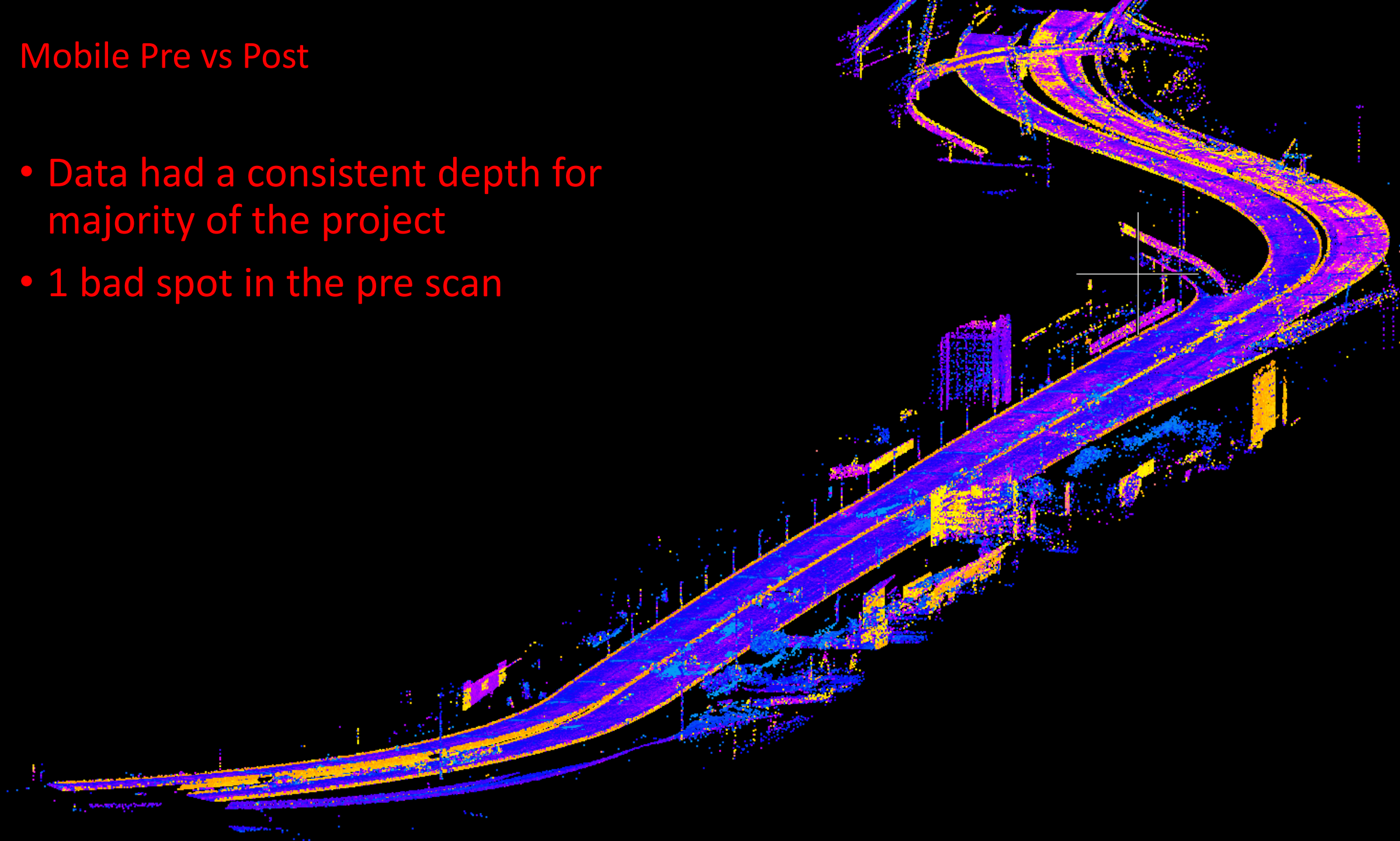


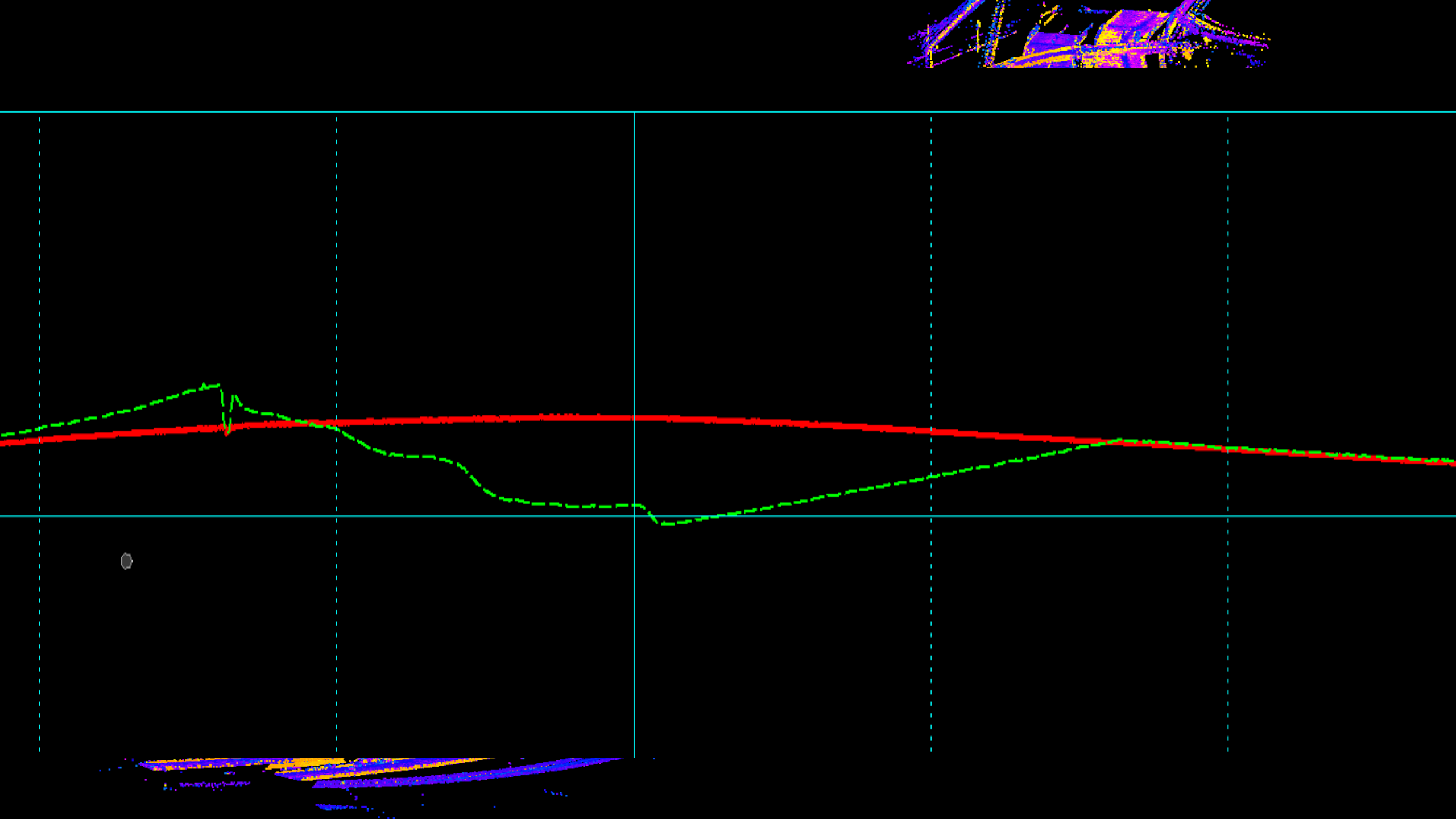
Mobile Pre vs Post

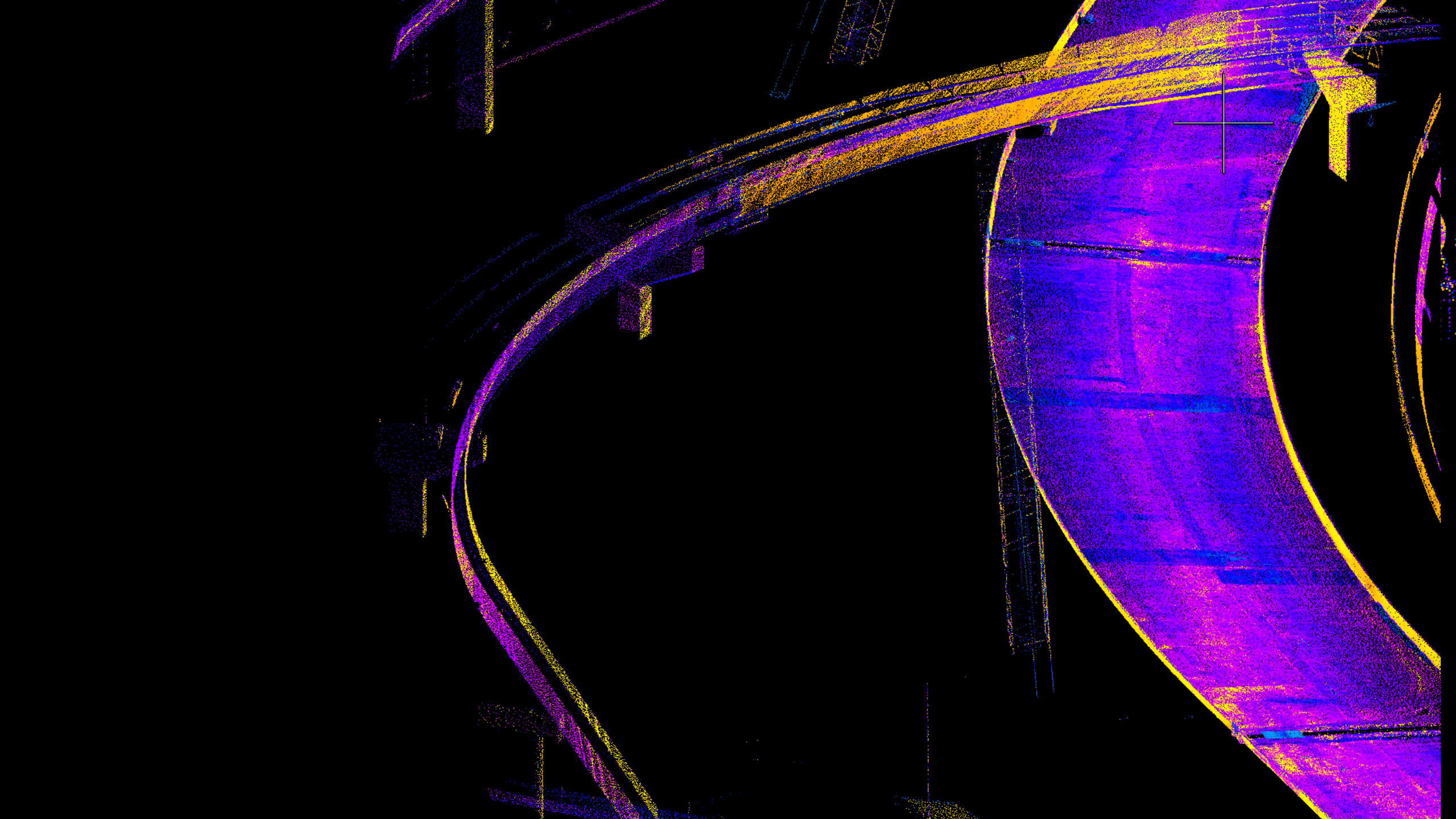


Mobile Pre vs Post

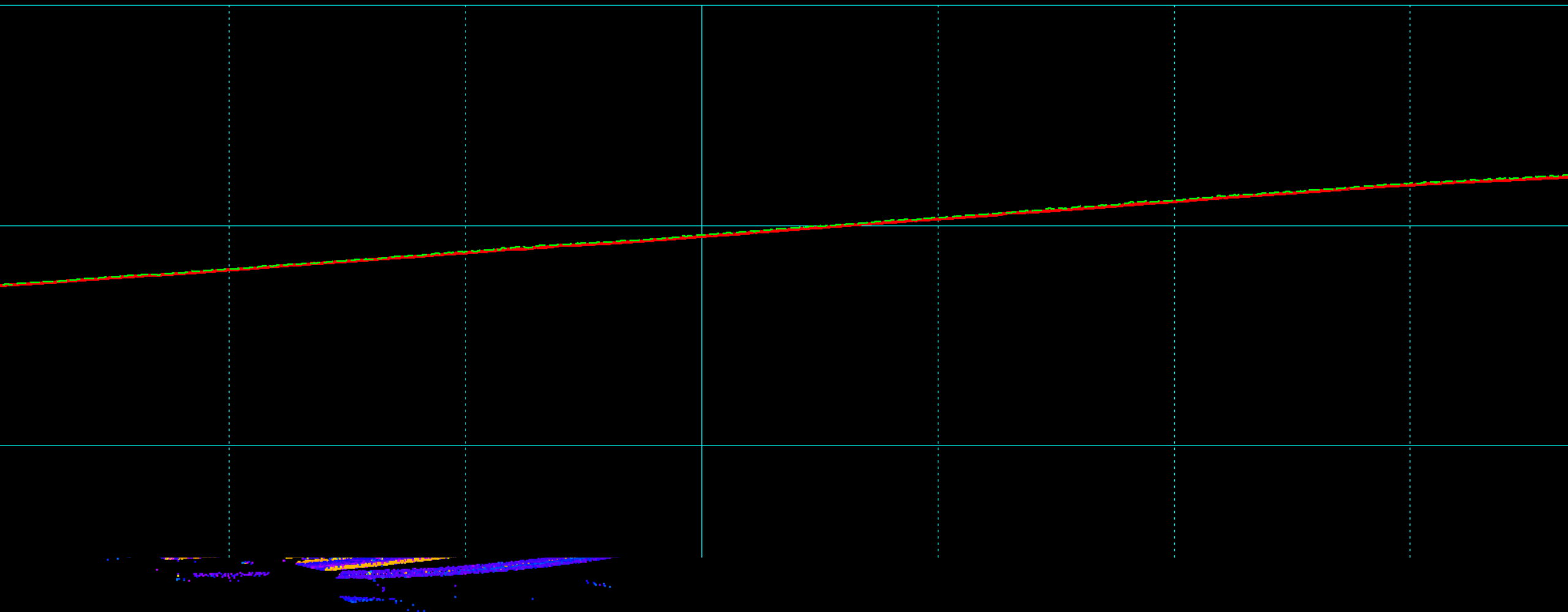
- Data had a consistent depth for majority of the project
- 1 bad spot in the pre scan

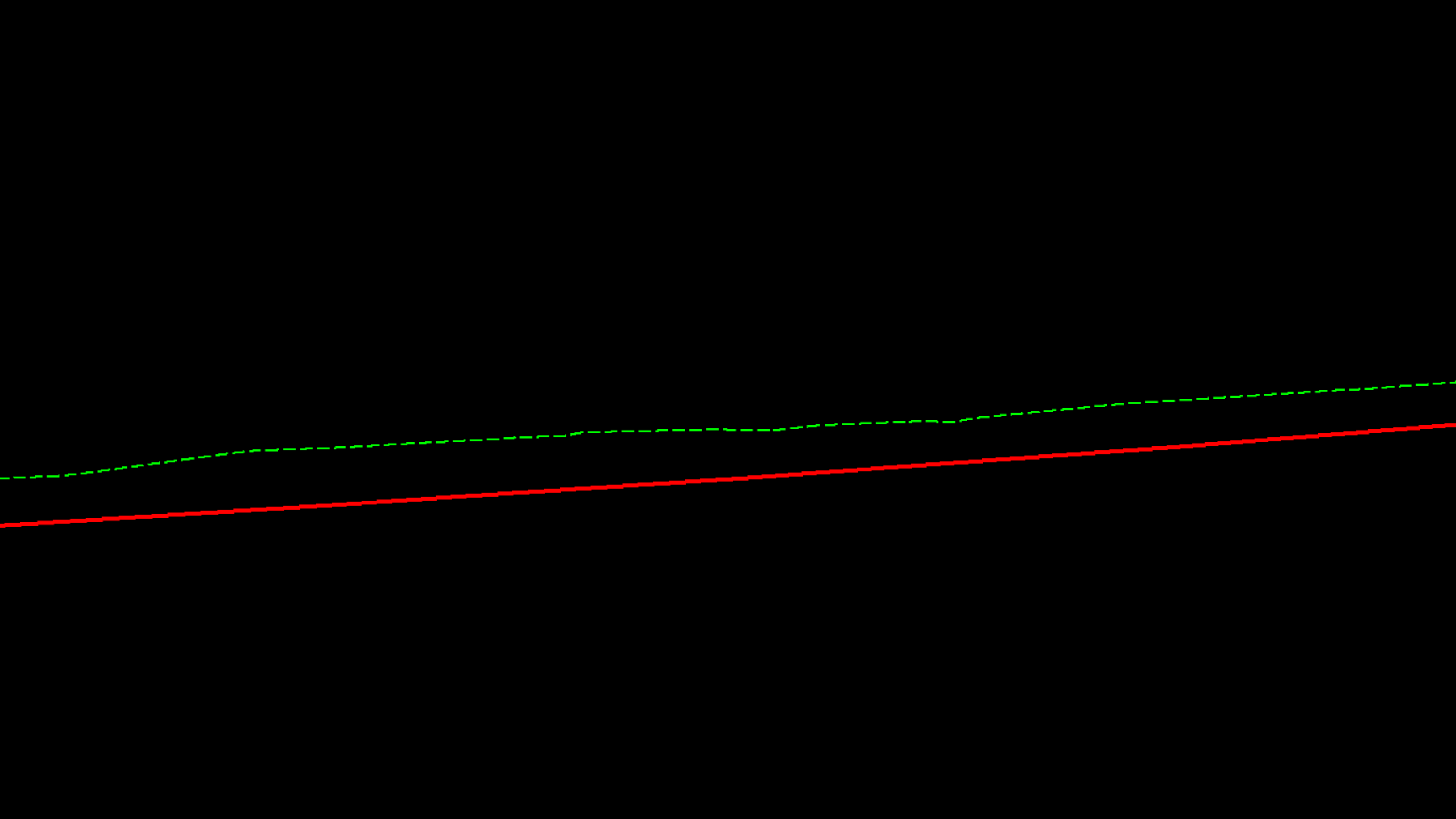






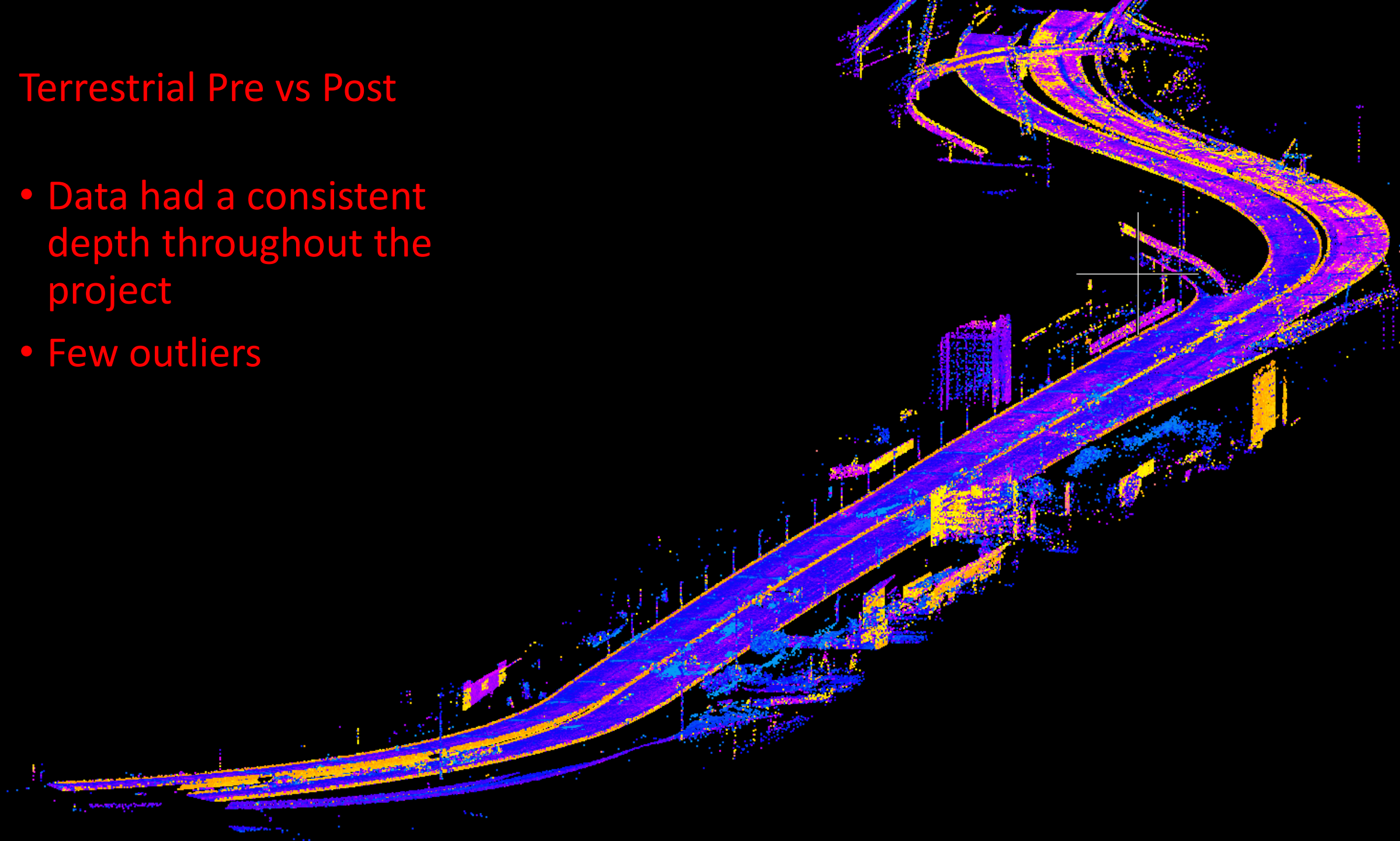
Terrestrial Pre vs Post





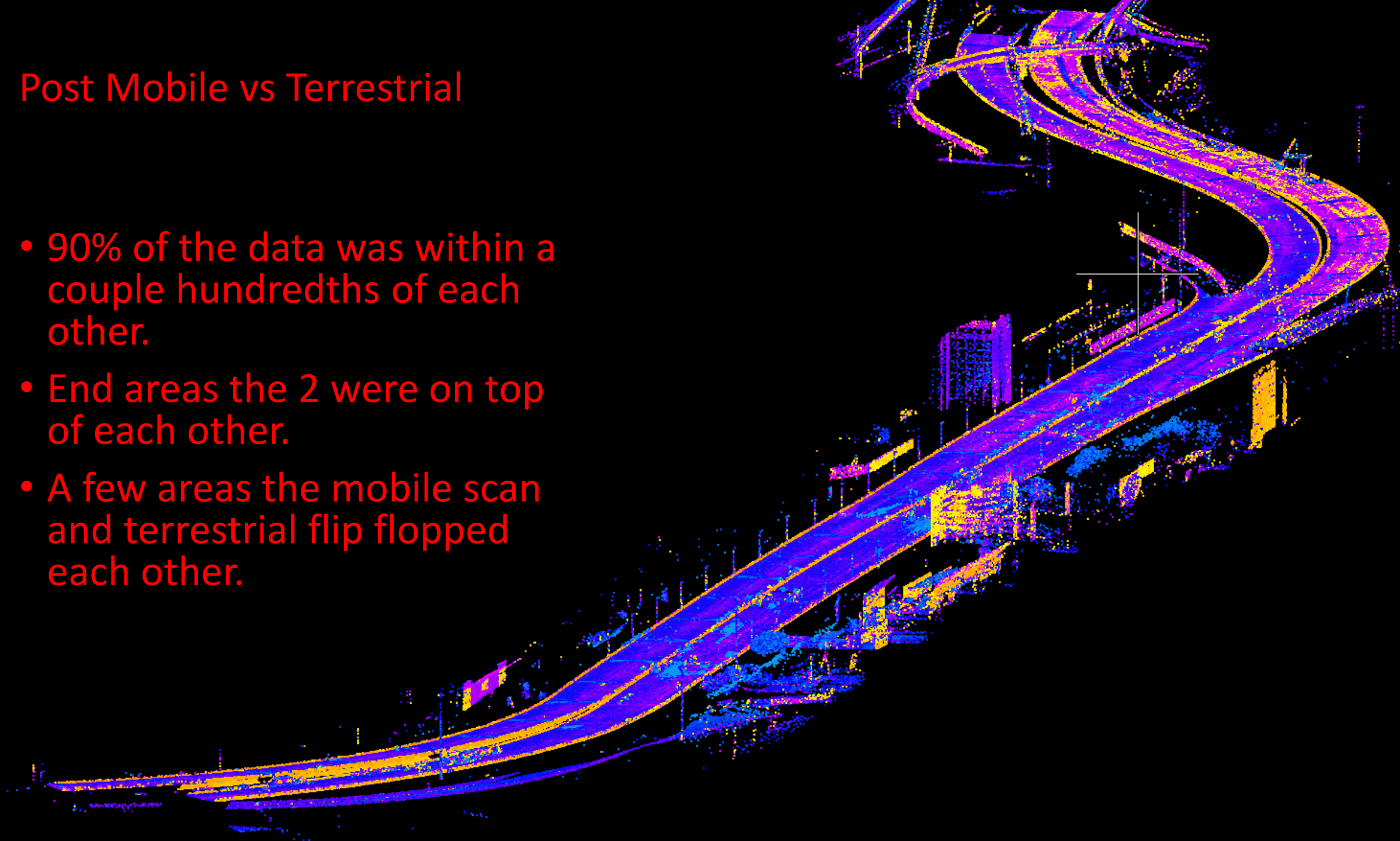
Terrestrial Pre vs Post

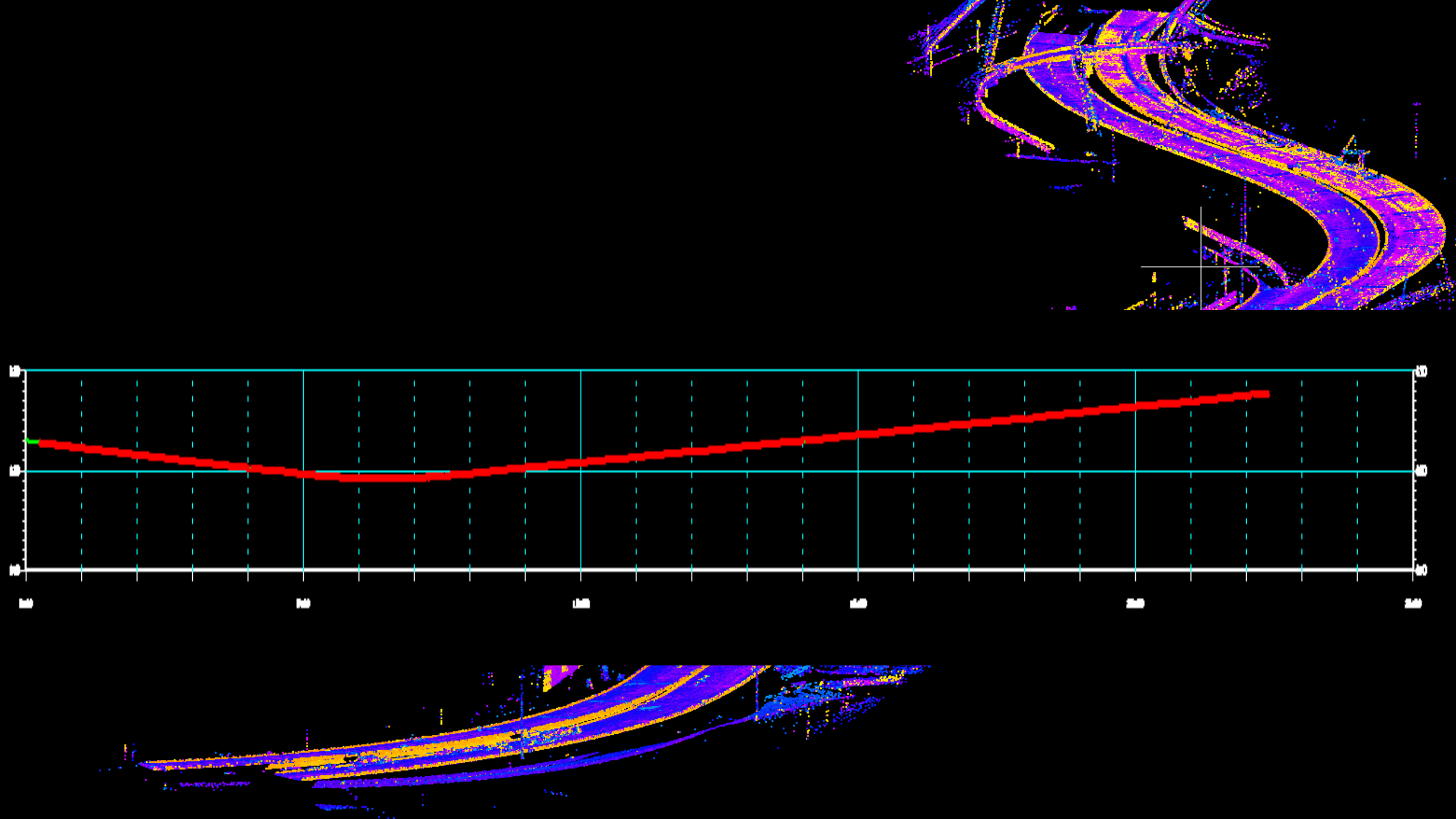
- Data had a consistent depth throughout the project
- Few outliers

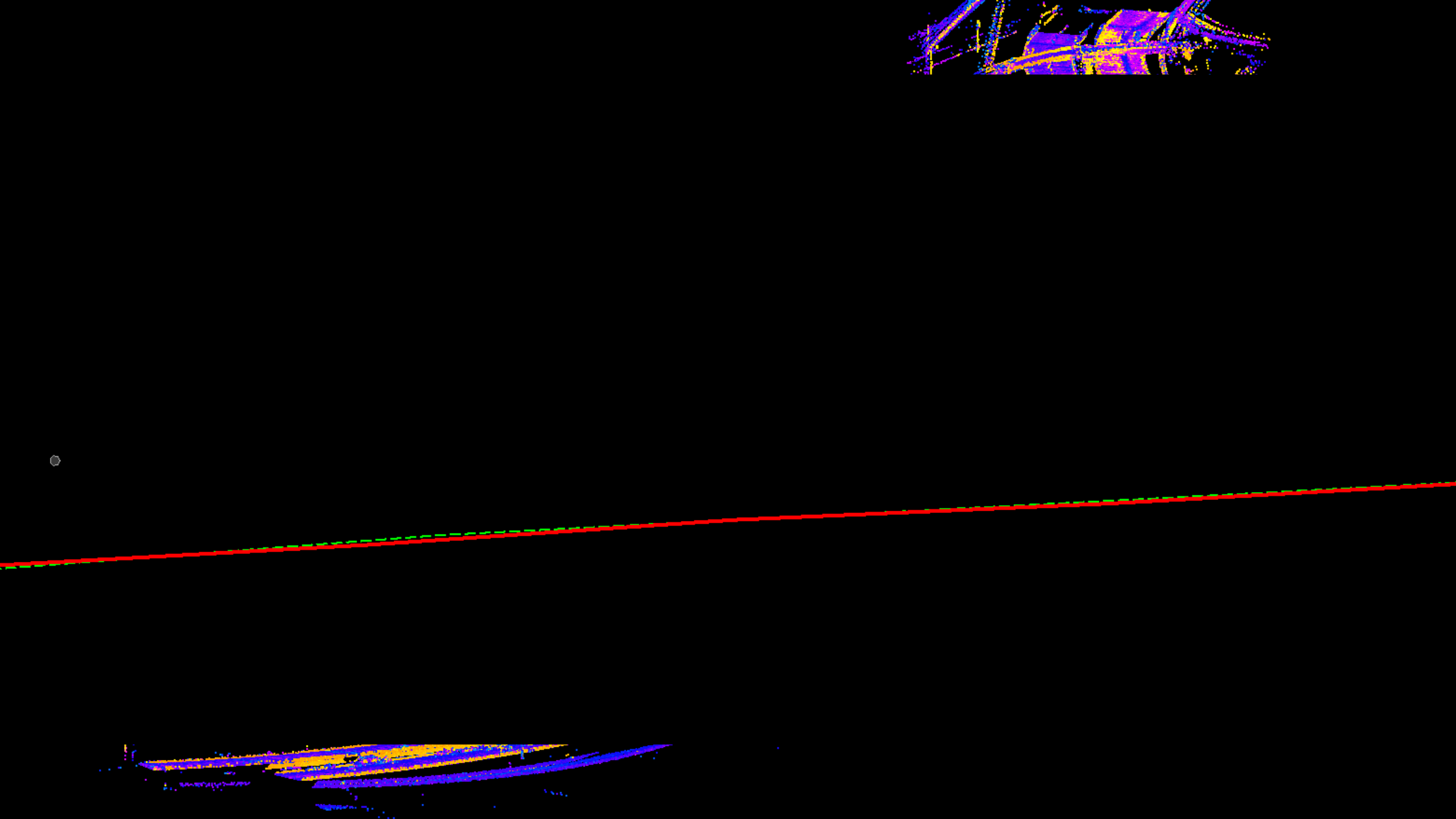


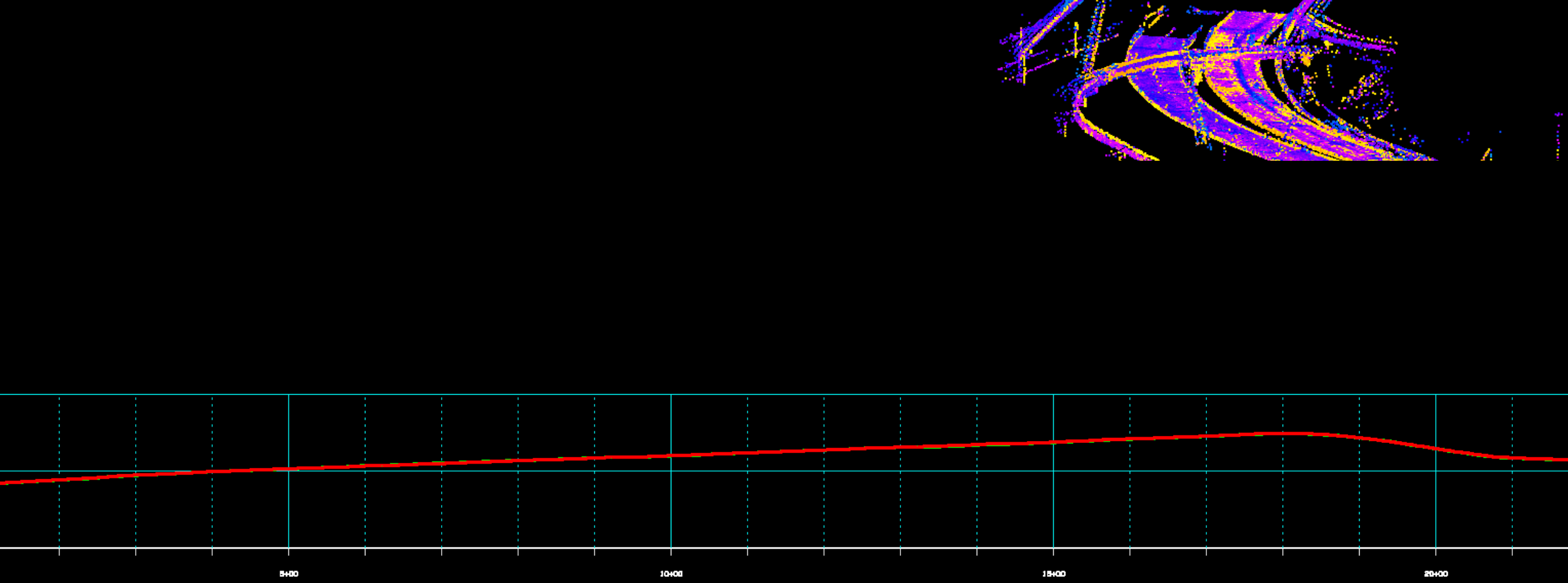
Post Mobile vs Terrestrial

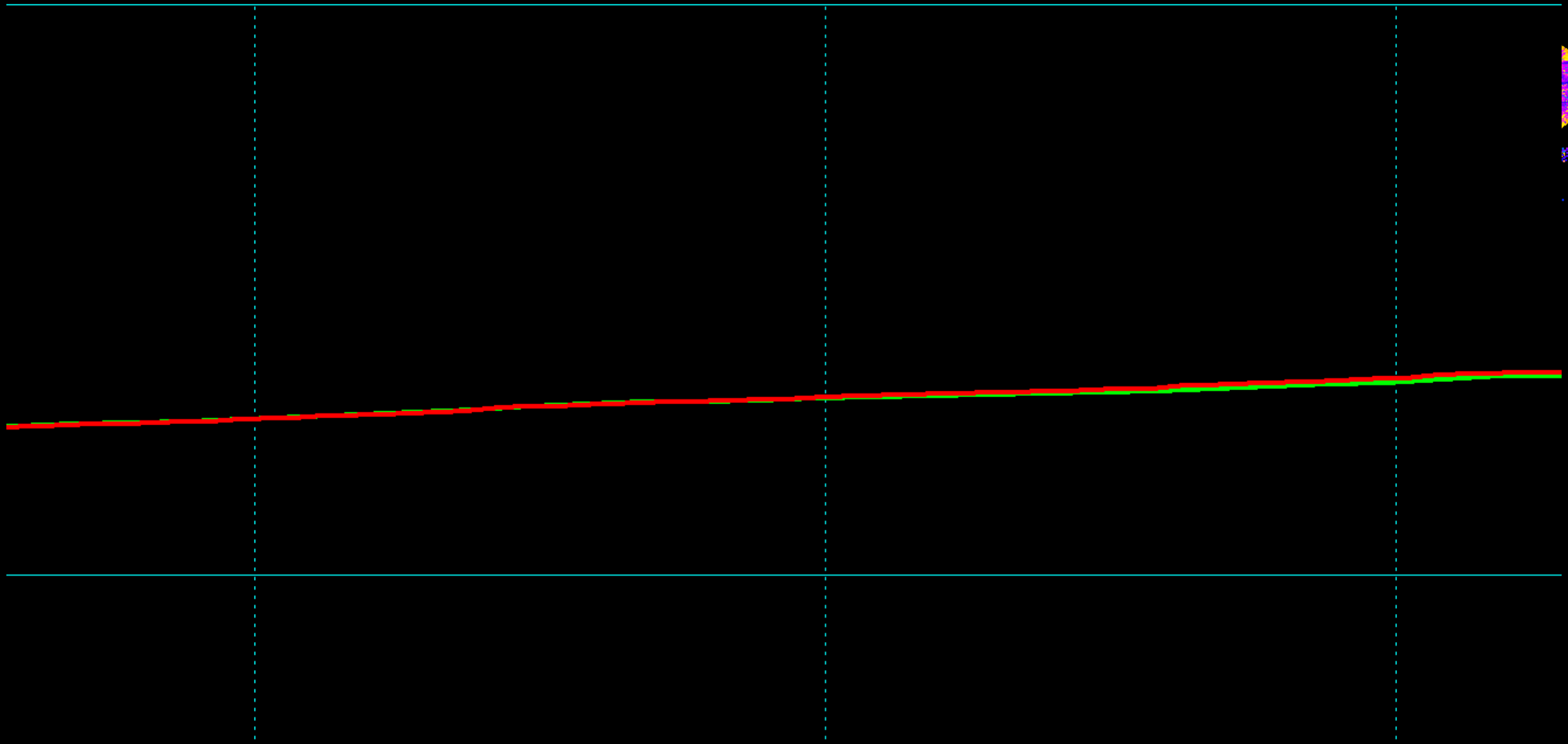
- 90% of the data was within a couple hundredths of each other.
- End areas the 2 were on top of each other.
- A few areas the mobile scan and terrestrial flip flopped each other.








5+00
10+00
15+00
20+00



Going Forward

- What did we get out of it?
- Can we trust it?
- Questions?