

MAXAR

Access and Analytics, Unlocking Geospatial Information

DIGITALLY ENABLED DEVELOPMENT -VRDNIK, SERBIA
IAIN MACINNES

■ ■ ■

One Maxar

- We have officially integrated our business units into Maxar
- Our organization has more than 60 years of experience in **geospatial information and analytics**, **satellite technology**, and **space systems**.
- Aligning our rich expertise, innovative technologies, and legacy of serving customer missions allows us to better serve the complex needs of our customers and partners—all with a leaner, more agile business structure.



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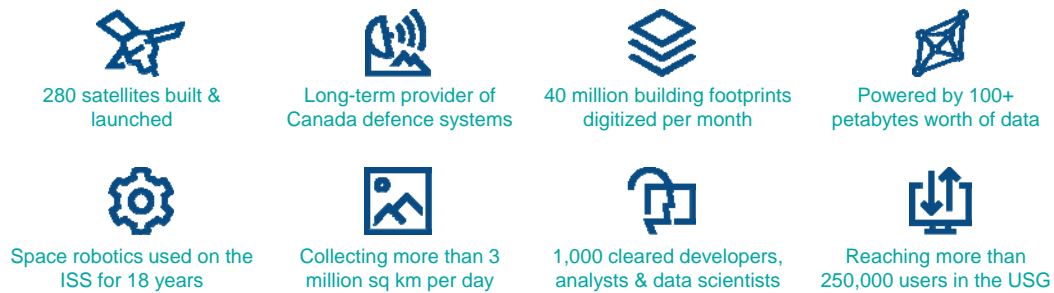
Integrated solutions for complex challenges

Maxar simplifies access to critical information about our changing planet, empowering customers to answer complex questions that impact environments, economies, and lives.



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Access: Satellite imagery

Optical and radar satellite imagery with diversity in temporal, spectral, and spatial resolution, plus unparalleled accuracy.

- Native 30 cm resolution for industry leading clarity and information density
- Advanced multispectral capabilities see beyond what's visible to the human eye
- Time-lapse data library dates back to 1999, creating a living digital inventory of change on the Earth's surface



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Direct & online access

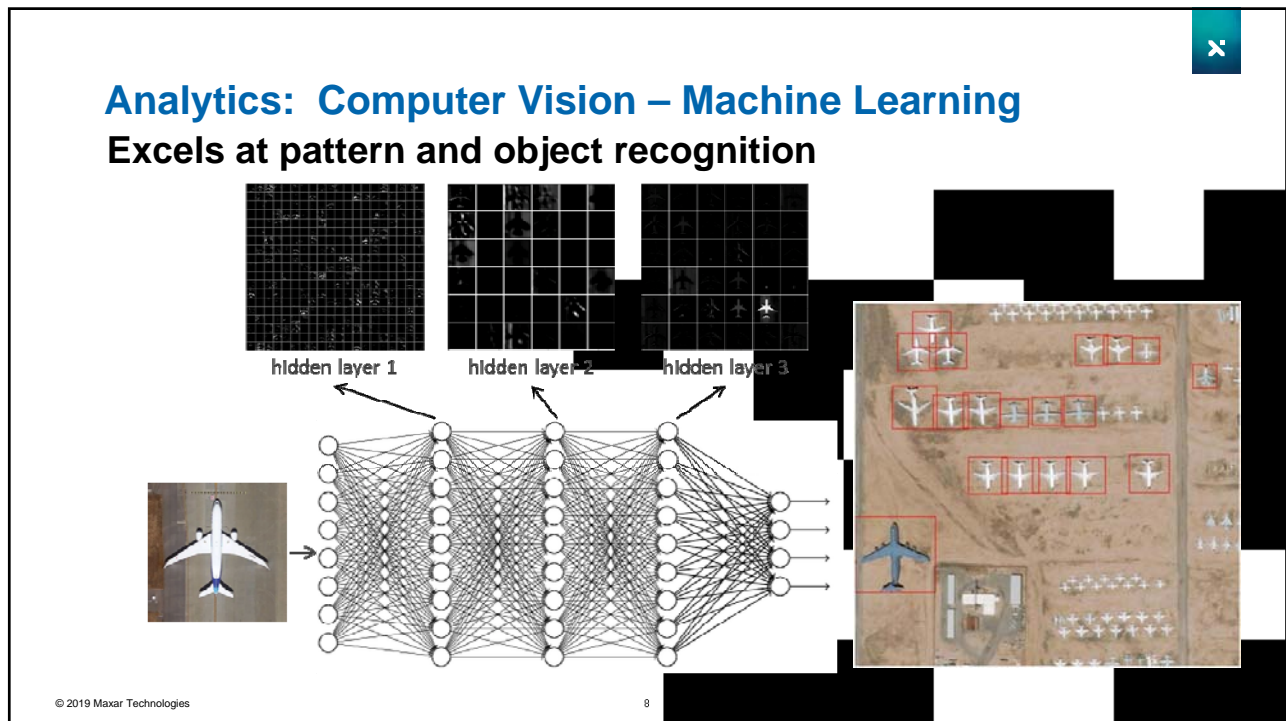
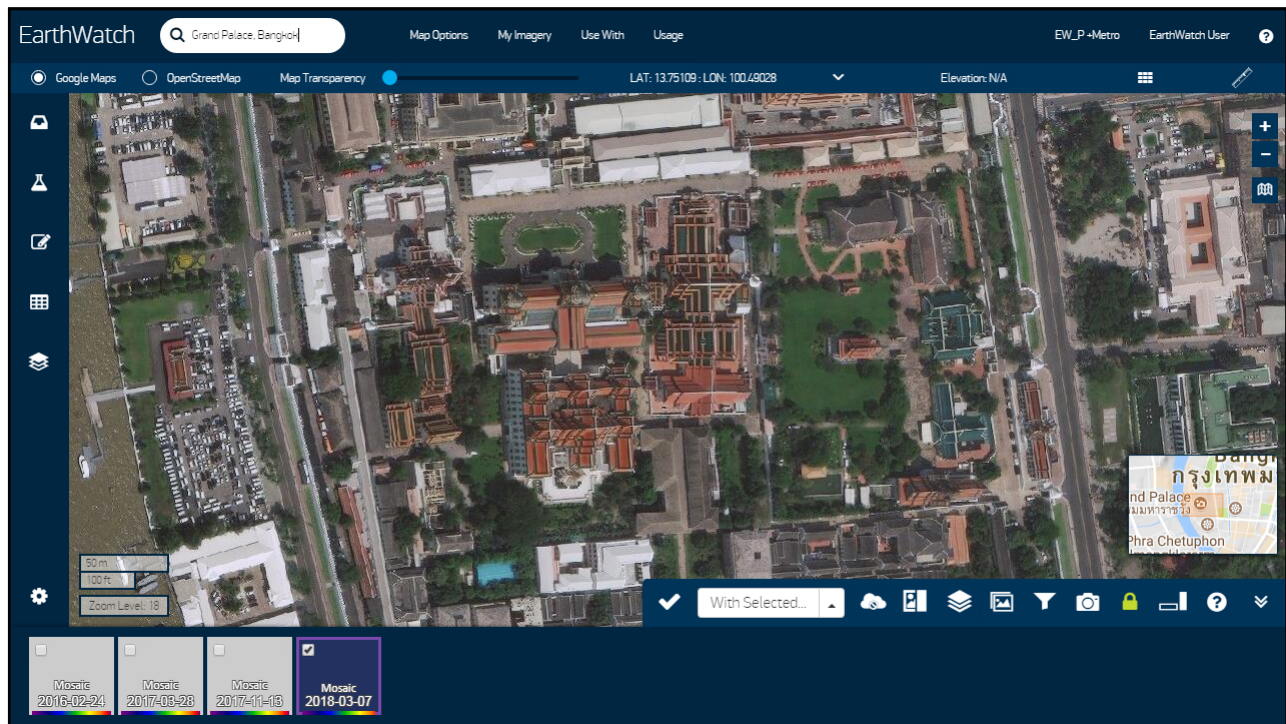
Our platforms streamline customer workflows by providing simplified access geospatial data in a single interface, or direct satellite access to collect imagery of specific areas with our constellation.

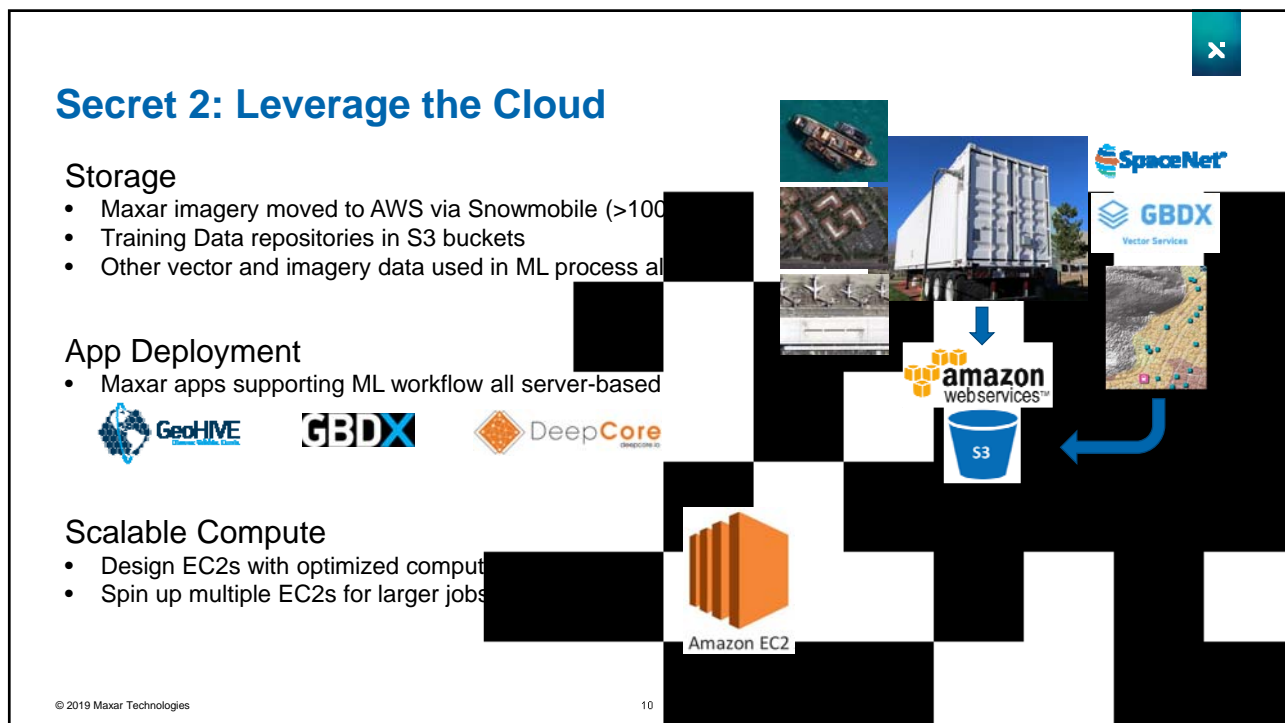
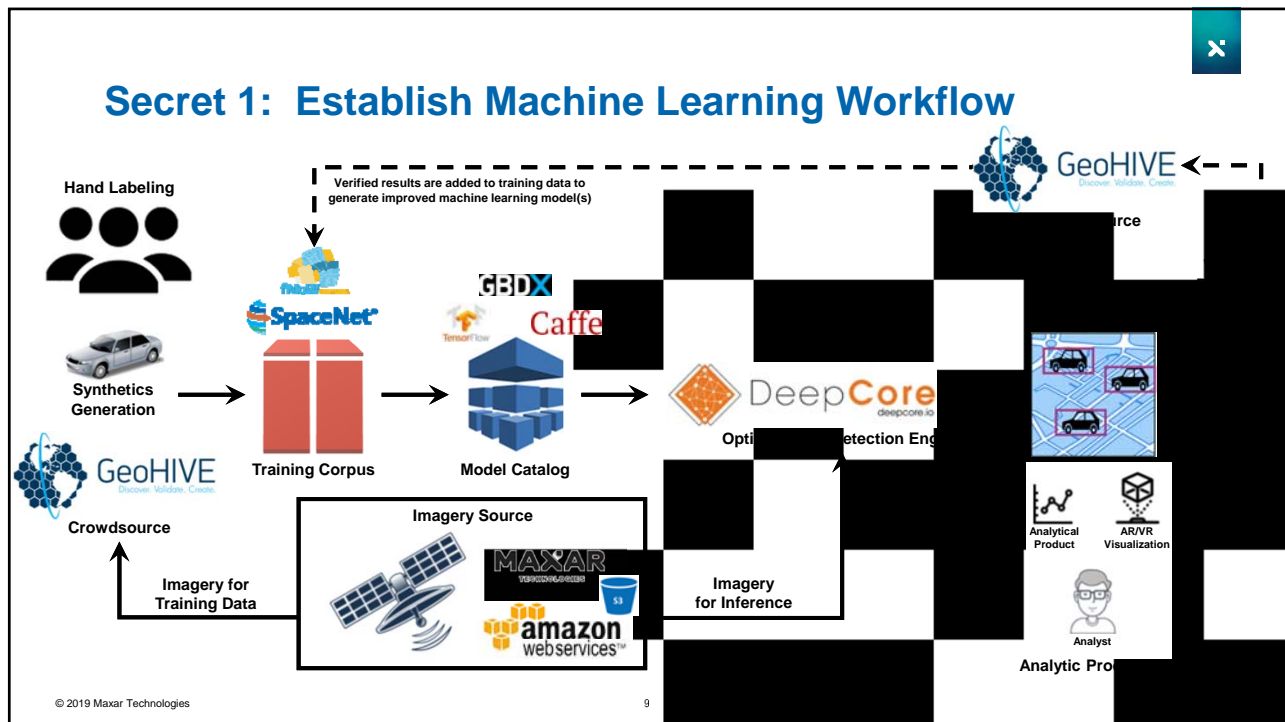


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Secret 3: Use the Crowd

Geospatial Human Imagery Verification Effort (GeoHIVE)

- Online capability using vetted crowd who view & tag imagery
- Users paid to perform a simple imagery analysis task
- Annotate image chips, verify and validate ML results
- Solving bulky imagery analysis problems rapidly at scale

Members from
75+
Universities

3,000+
Members of the Crowd

9.6 MILLION
Geographic Features

1.9 MILLION
Square Kilometers

700+
Campaigns



*GeoHIVE statistics as of June 2019

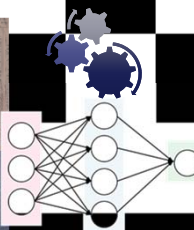
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Summary

Maxar heavily invested in AI/ML process

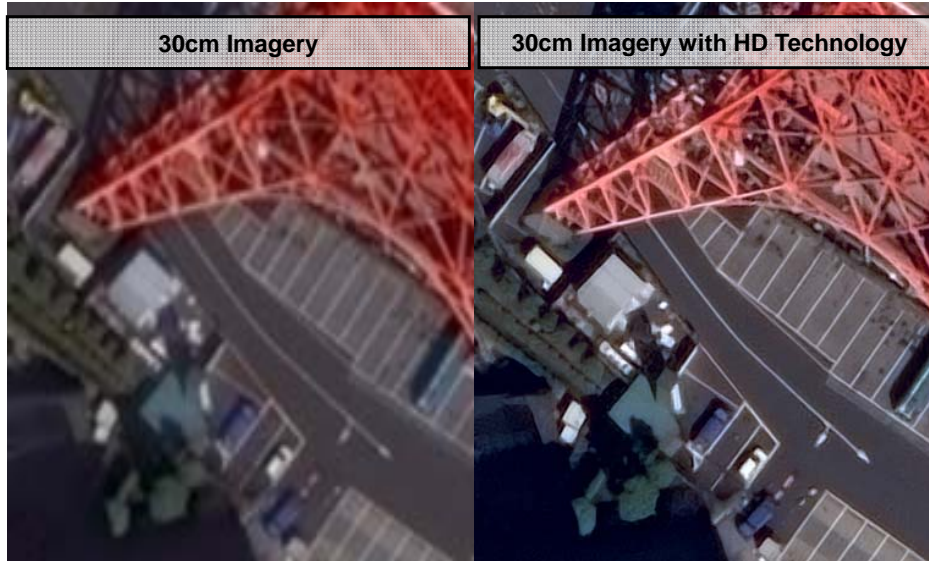
- Highest quality imagery source for training data and inferencing
- Maximize pattern/predictive analytics leveraging vast amount of historical imagery
- Key capabilities addressing each step of the process ensuring accuracy and cost efficiency
- Established industry partner relationships critical for value, efficiencies and scale
- Experience with a variety of solution offerings
 - Building out training corpus with agile crowd sourcing
 - Engineering support to improve algorithm performance
 - End-to-end service subscription
 - On-prem solution deployment



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INVESTING IN THE FOUNDATION – IMPROVED ACUITY



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INVESTING IN THE FOUNDATION – ANALYSIS READY CLARITY



Car counting example:
False positives/negatives
reduced by 33%!

Crowdsourcing example:
Light pole extraction error
reduced from 50% to 10%!

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BUT NOW YOUR MAPPING REQUIRES 3D INFORMATION



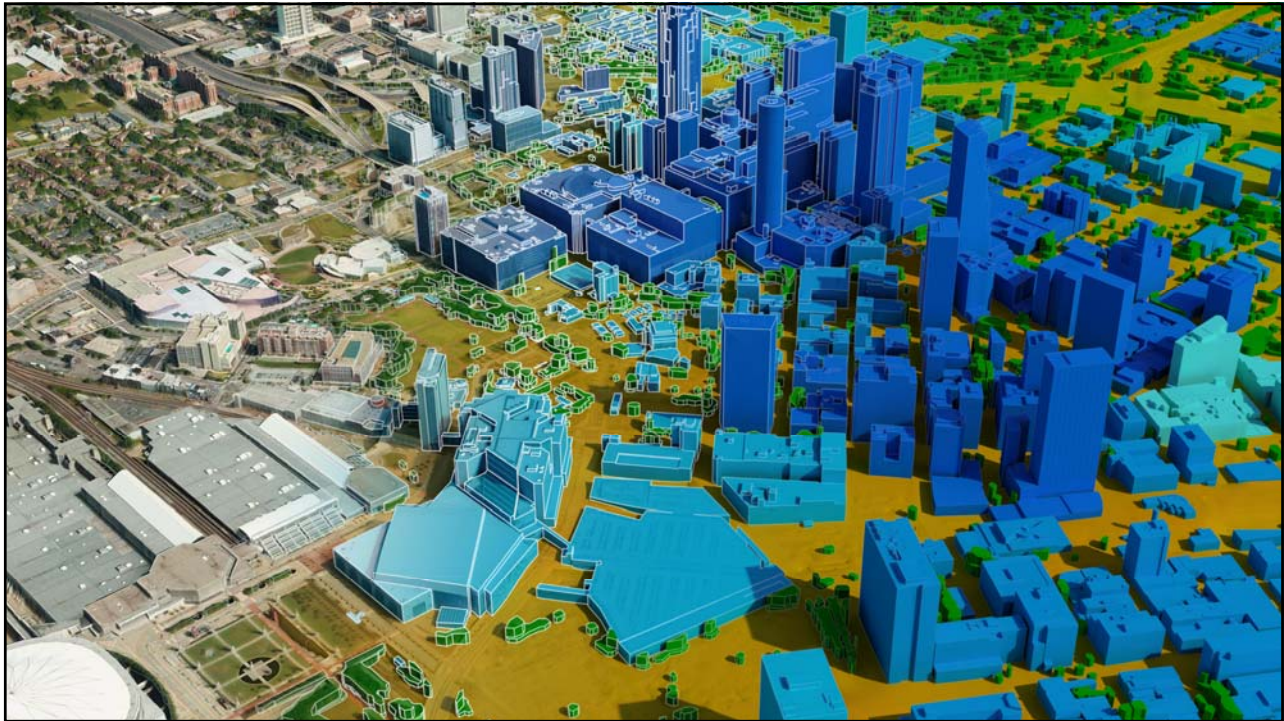
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Weymouth, UK

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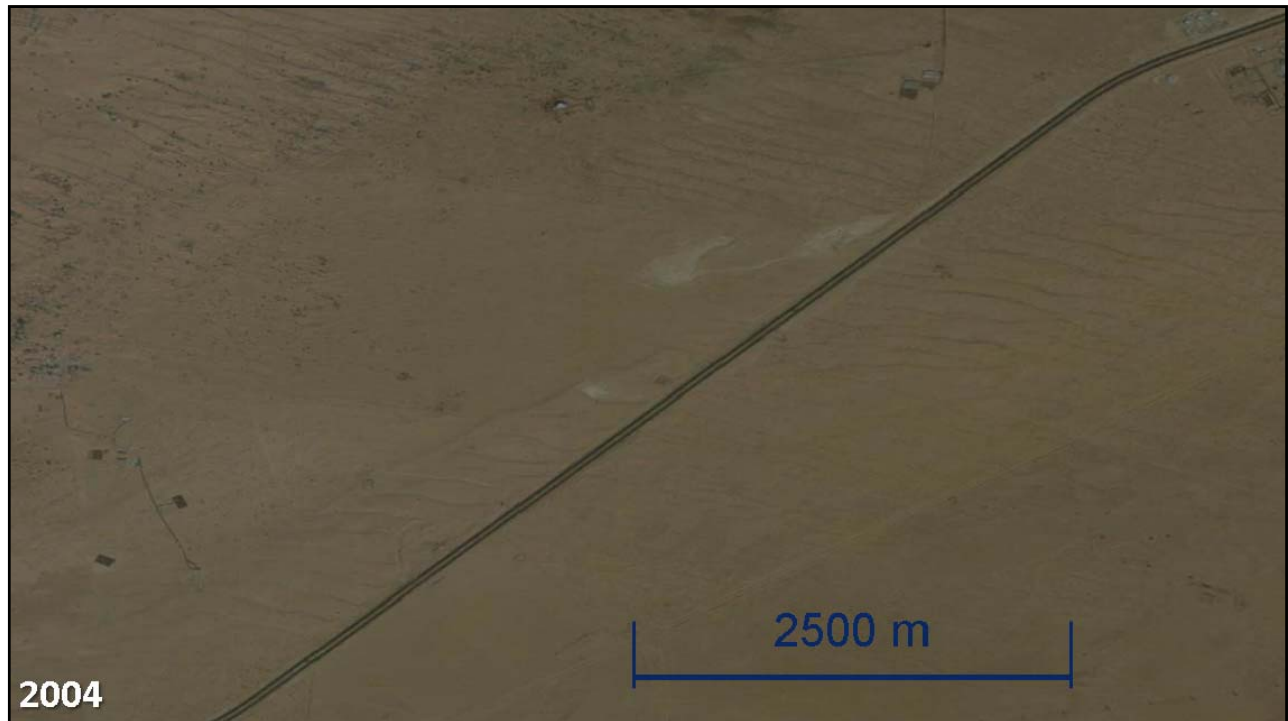
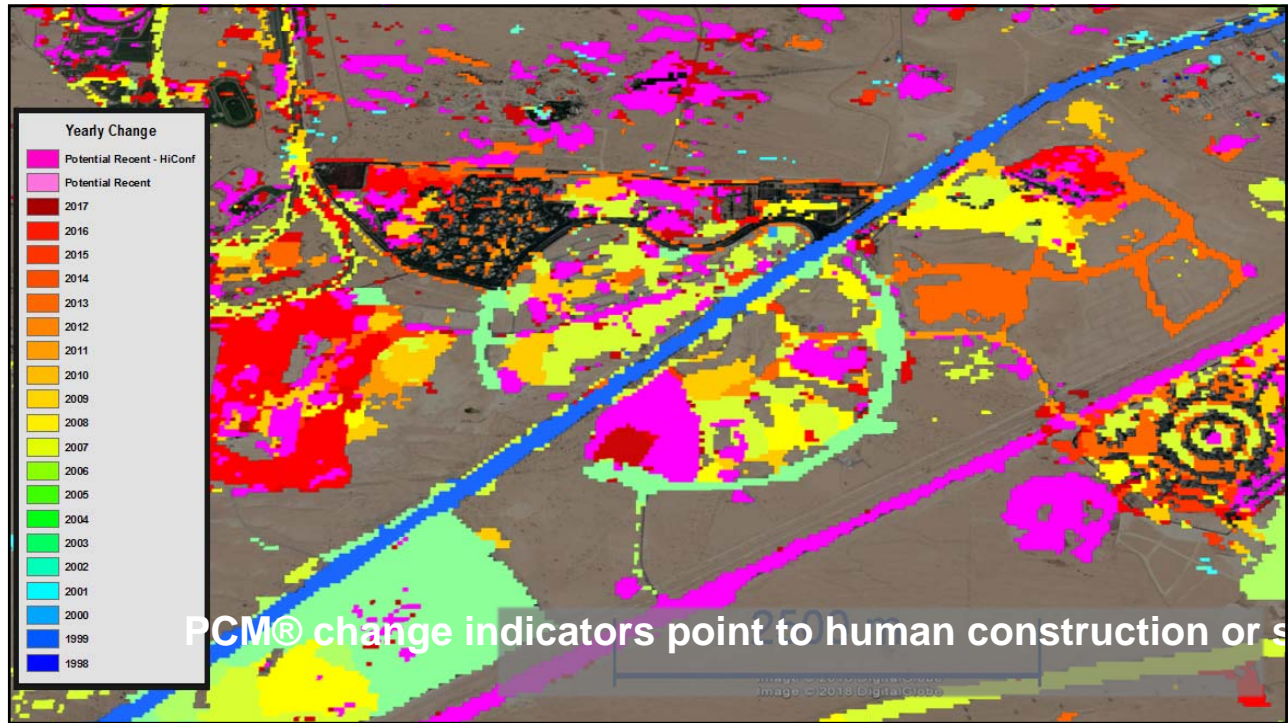


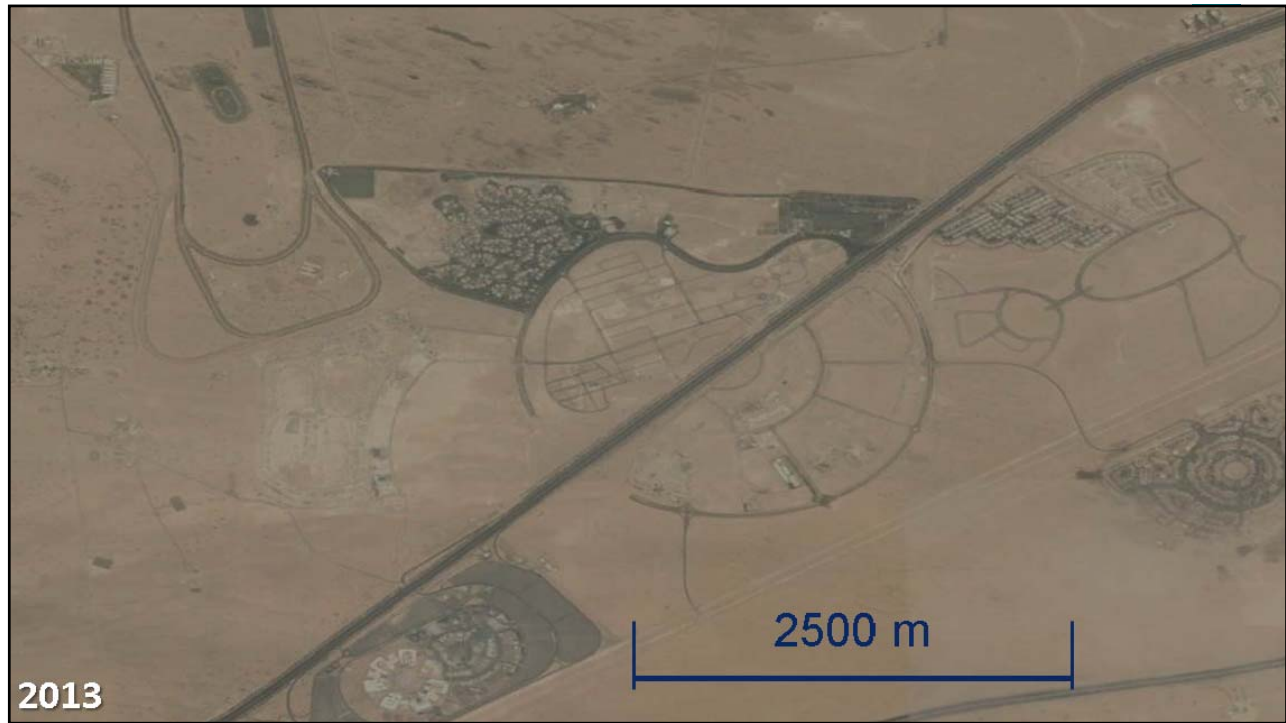
Identify priorities with change monitoring

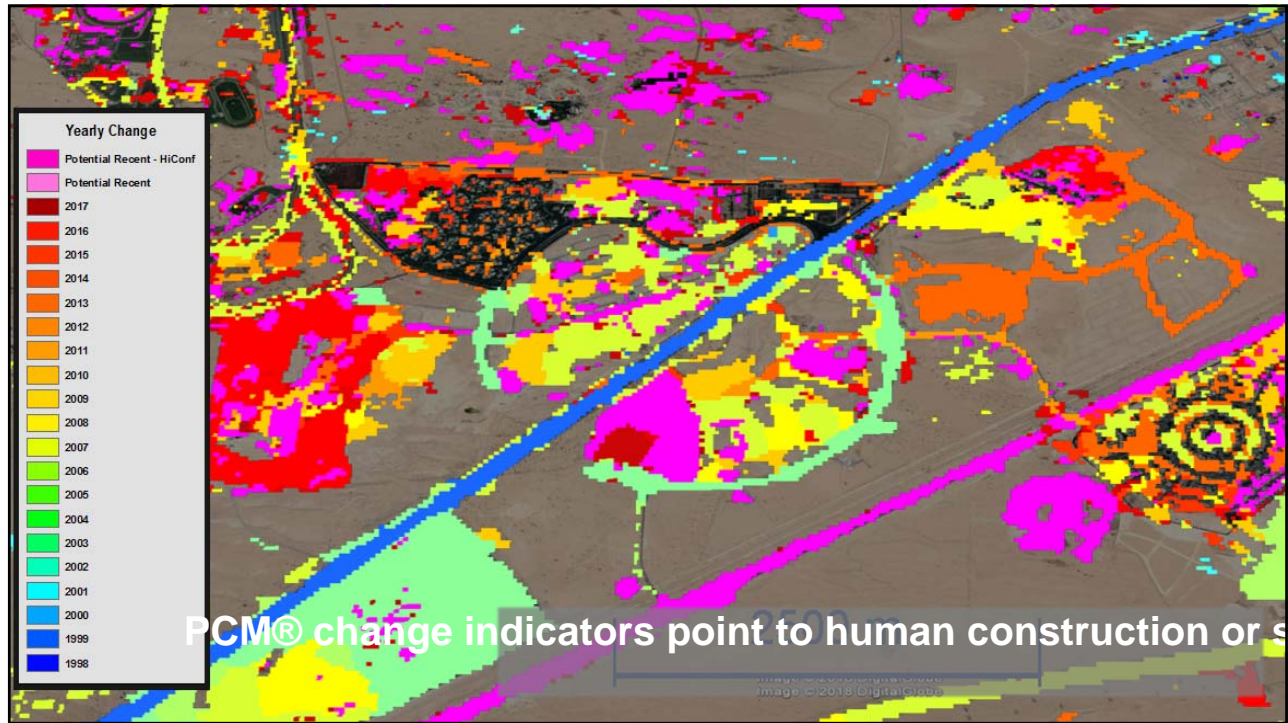


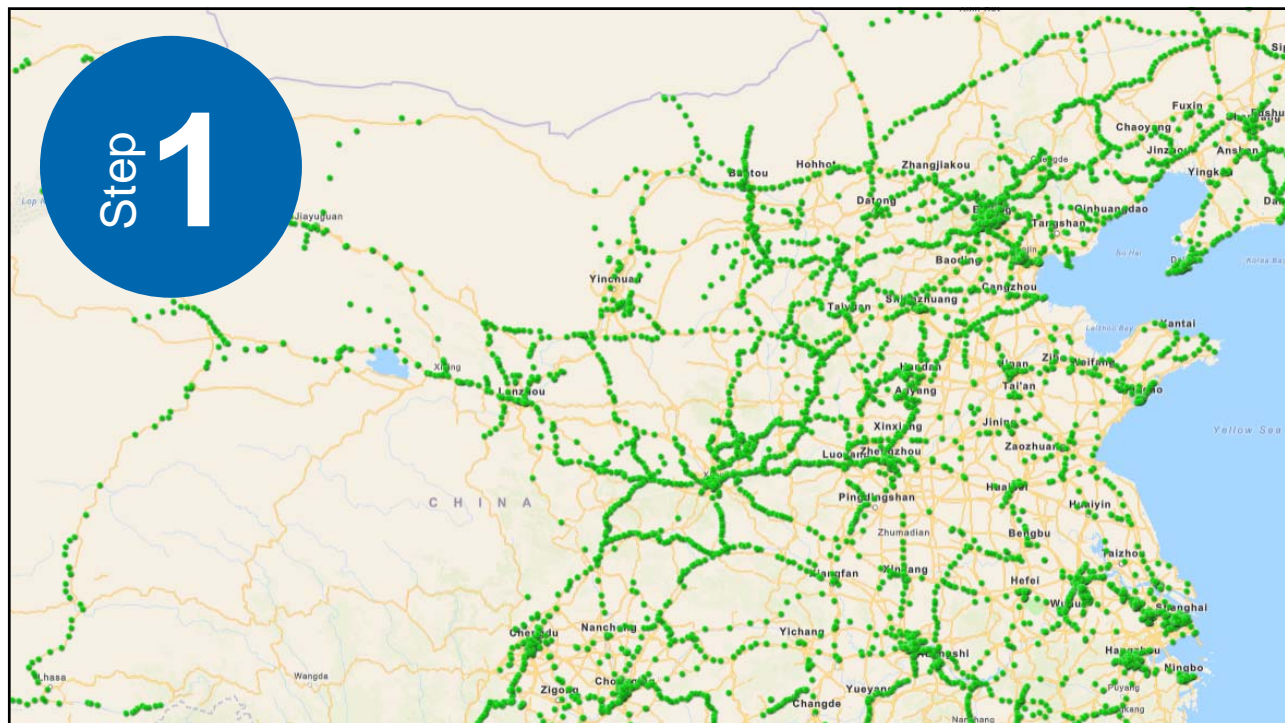
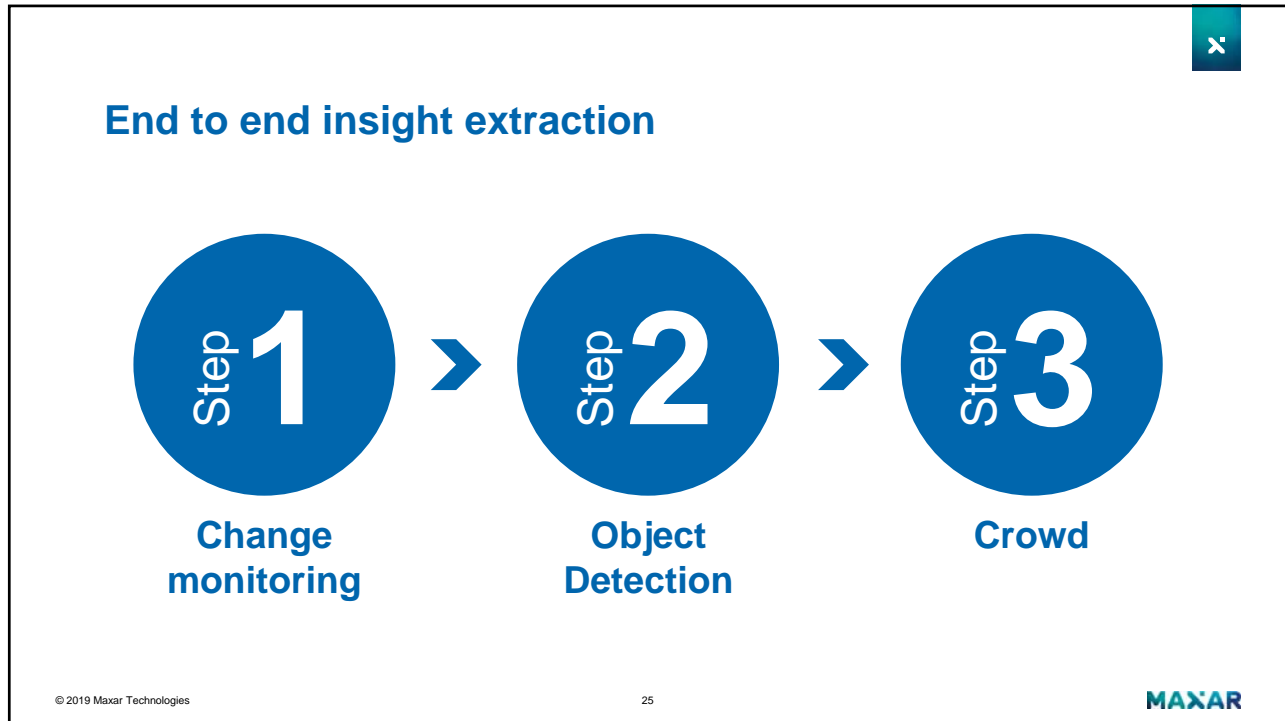
Choices to meet your needs

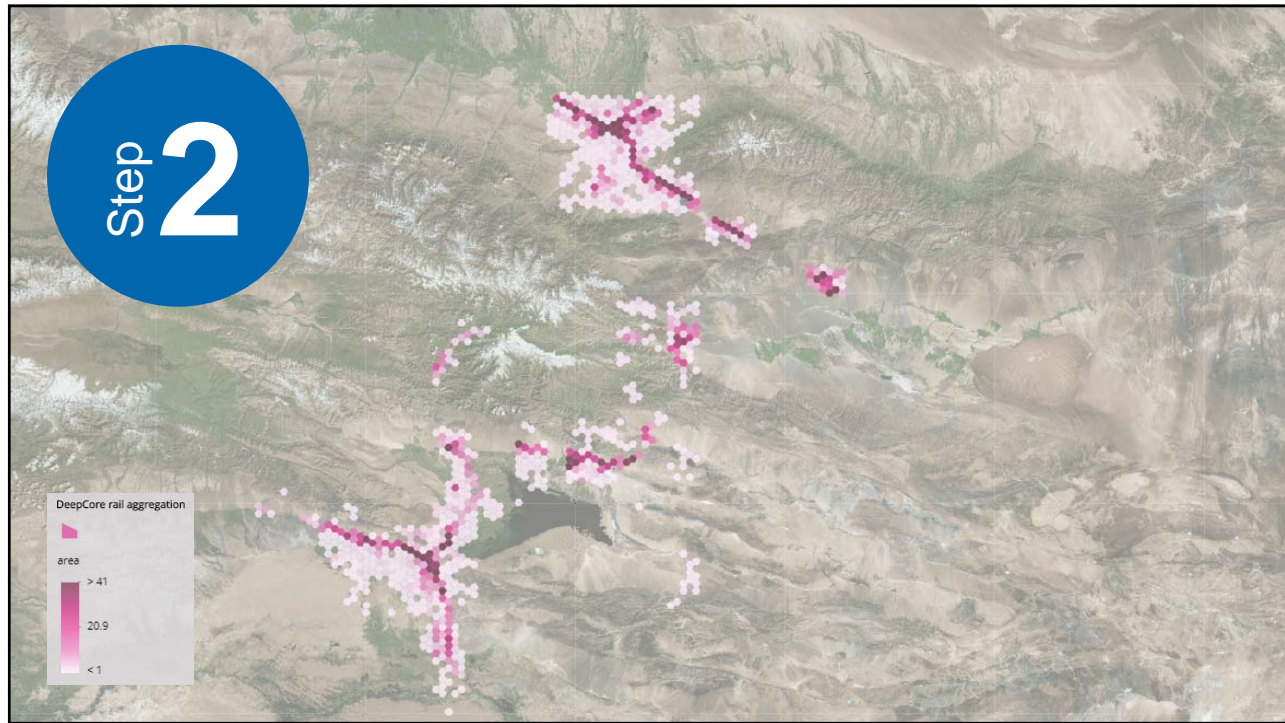
- Persistent Change Monitoring (PCM)
- Continuous Change Monitoring (CCM)













Discovery - Hurricane Michael Damage

Buildings Assessed: 7,167

- Destroyed: 830
- Damaged: 1,394
- No Damage: 4,917
- Not Tell/Imagery Error: 2

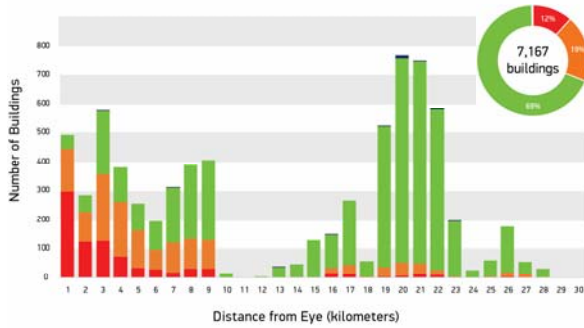
Time to Assessment: 3 h

Total Coverage: 53

Total Damage Assessment Coverage

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Discovery - Hurricane Michael Damage Cont.



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