

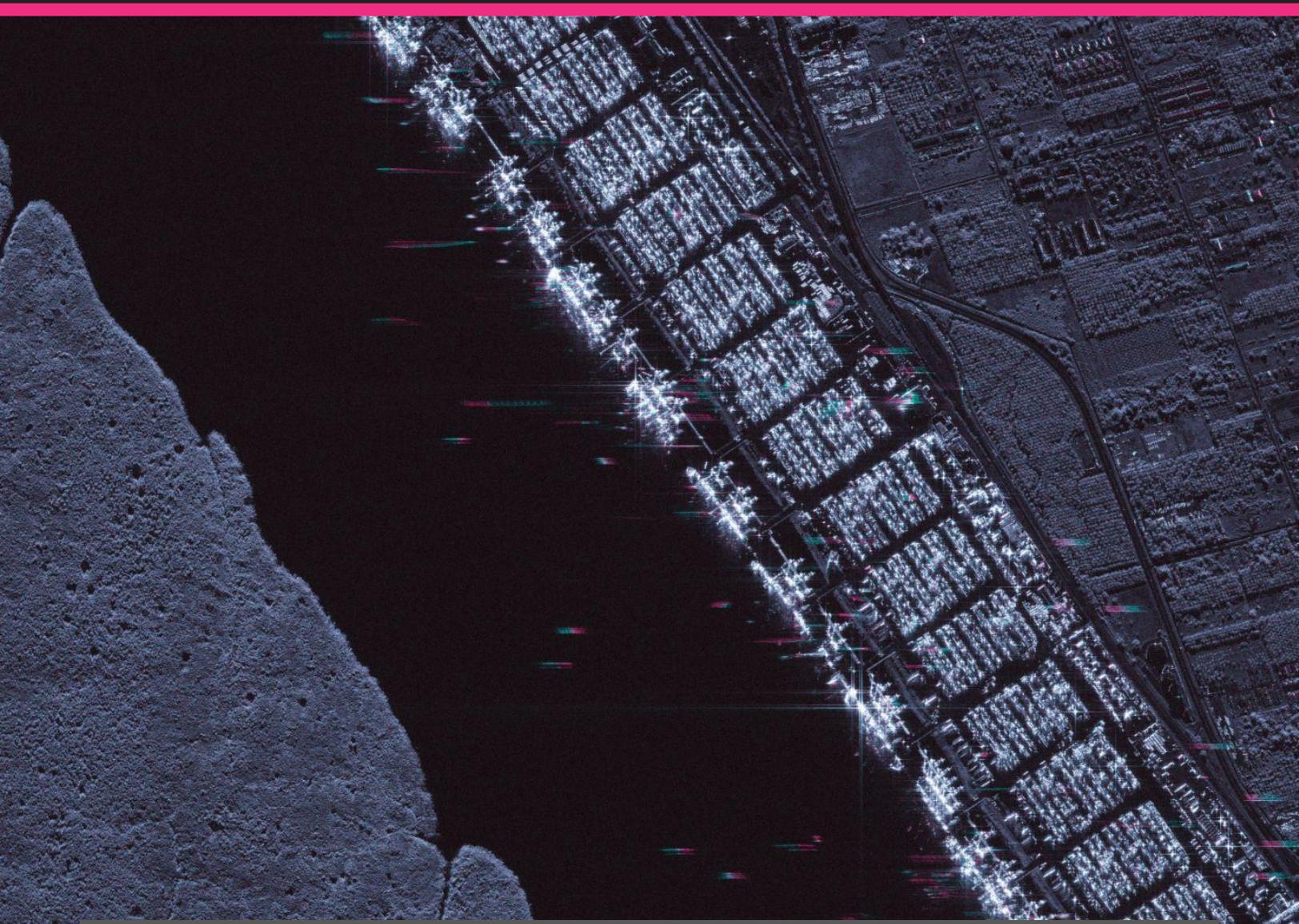
POWERED BY
UMBRA



boxMica | CASE STUDY

Q2 2023

SAR MOVING TARGET INDICATION



boxMica.com

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SAR MOVING TARGET INDICATION

Detect & Track Moving Assets Using Cost Effective,
Commercial SAR Constellations & Artificial Intelligence

ENHANCING SITUATIONAL AWARENESS

UMBRA'S BEST IN CLASS 25CM COMMERCIAL SAR TASKING PRESENTS AN OPPORTUNITY TO PROVIDE NEAR-REAL TIME INTELLIGENCE FOR A VARIETY OF MISSION APPLICATIONS.

REVOLUTIONIZING MTI COSTS

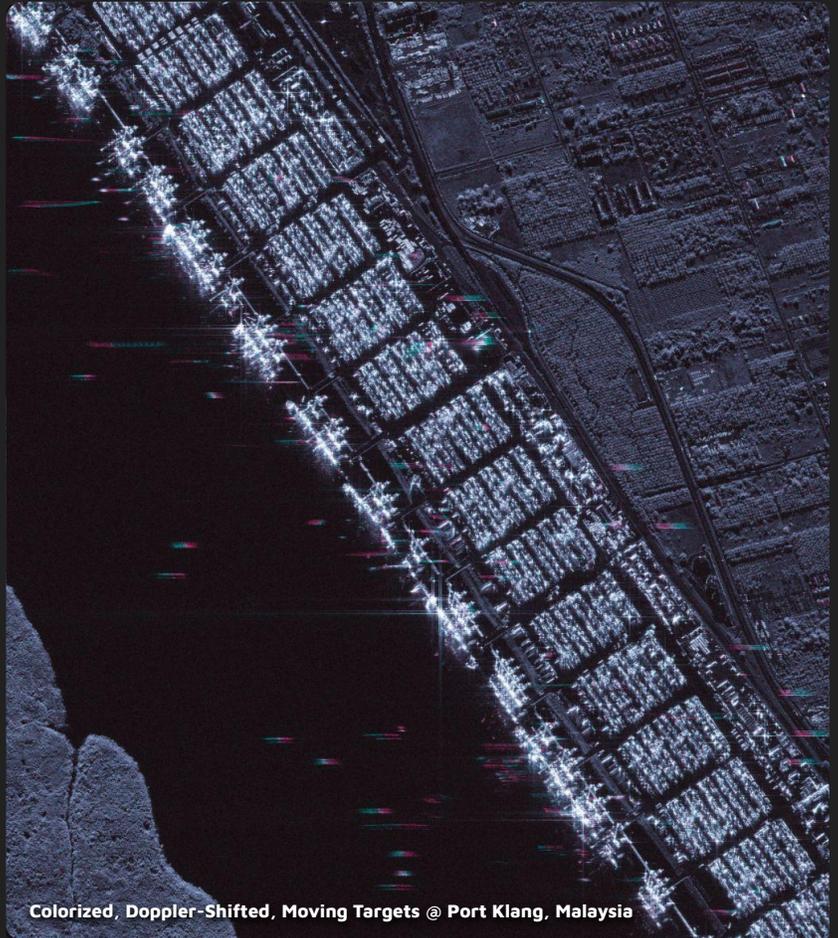
COMPARED TO CURRENT OVERWATCH COSTS, MOVING TARGET INDICATION (MTI) WITH UMBRA SAR & BOXMICA ANALYSIS REPRESENTS SEVERAL ORDERS OF MAGNITUDE REDUCTION IN COSTS.

REDEFINING STAND OFF RANGE

PROTECT LIVES & ASSETS WITH SAR MTI ANALYSIS FROM LOW EARTH ORBIT. COMMERCIAL SAR & ARTIFICIAL INTELLIGENCE MAKE NEW MODALITIES OF IDENTIFICATION & CLASSIFICATION POSSIBLE.

CUSTOMER MTI SAR MISSIONS

- INTELLIGENCE GATHERING
- SITE SECURITY & SURVEILLANCE
- BORDER & COASTAL SURVEILLANCE
- DISASTER RESPONSE
- INFRASTRUCTURE MONITORING



Colorized, Doppler-Shifted, Moving Targets @ Port Klang, Malaysia

LEARN MORE

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ZERO COMPROMISE SAR INTELLIGENCE

DAY & NIGHT, ALL WEATHER,
RAPID REVISIT SAR + MTI



CLEARER INSIGHTS, FASTER ACTION

25CM SAR & ANALYSIS FOR
TIME SENSITIVE MISSIONS



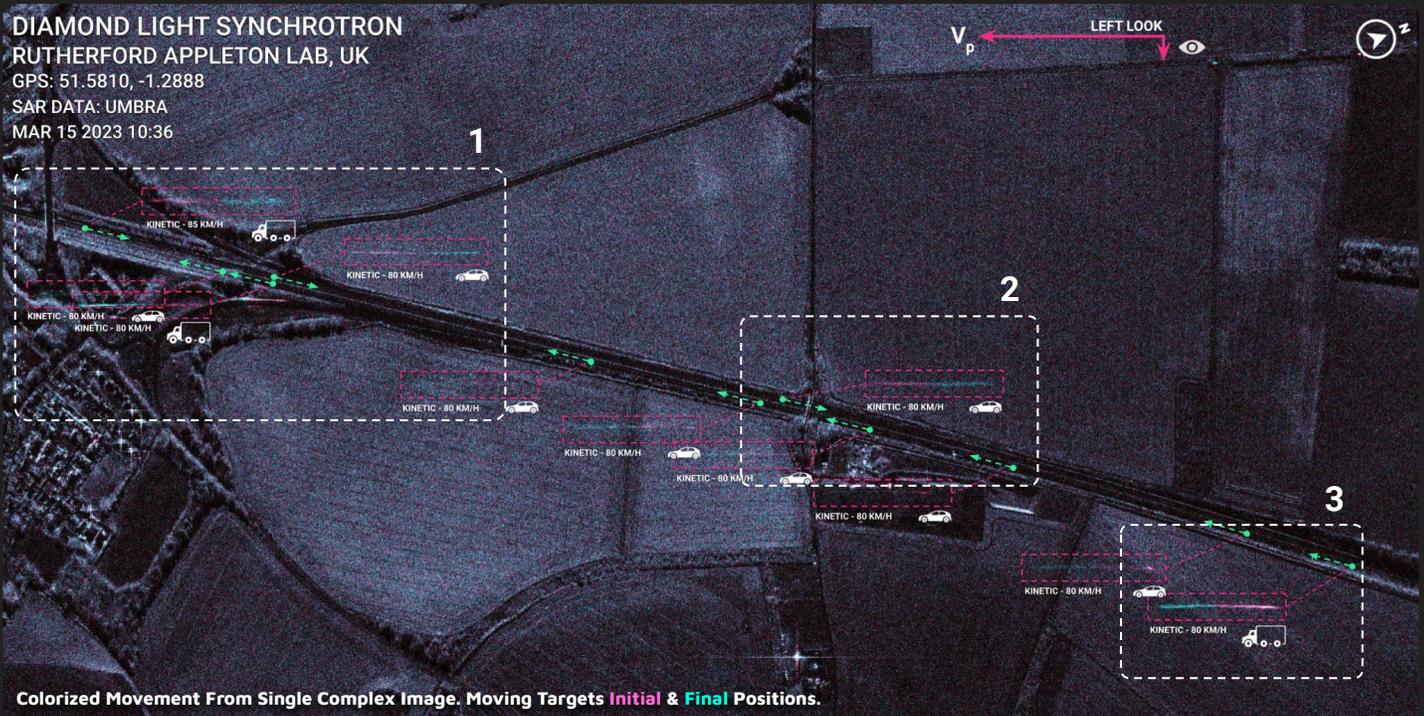
COST-EFFECTIVE MTI SOLUTIONS

LEVERAGE SAR + AI TO
CREATE ECONOMICAL MTI

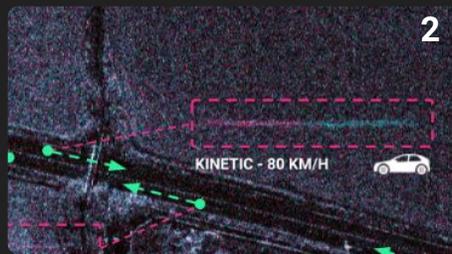
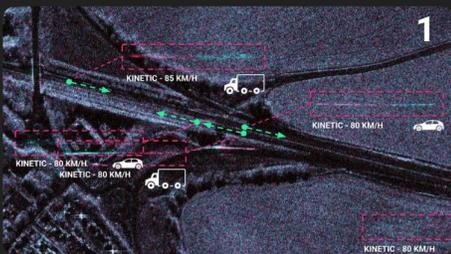
SAR MOVING TARGET INDICATION

Detect & Track Moving Assets Using Cost Effective, Commercial SAR Constellations & Artificial Intelligence

DIAMOND LIGHT SYNCHROTRON
RUTHERFORD APPLETON LAB, UK
GPS: 51.5810, -1.2888
SAR DATA: UMBRA
MAR 15 2023 10:36



Colorized Movement From Single Complex Image. Moving Targets Initial & Final Positions.



DETECT, TRACK, & CLASSIFY MULTIPLE TARGETS WITH SAR MTI

HI-RES COMMERCIAL SAR SATELLITES ENABLE NON-INVASIVE DETECTION, TRACKING & IDENTIFICATION WITH ENHANCED ACCURACY & SPEED.

SAR + AI: POWERING THE FUTURE OF SATELLITE INTELLIGENCE

SAR & AI POWERED ANALYSIS CREATE NEW & REFINED IDENTIFICATION CAPABILITIES, RAPIDLY DELIVERING TIME-SENSITIVE INTELLIGENCE.

REDEFINING STAND OFF RANGE, AT A FRACTION OF THE COST

UMBRA'S 25CM, BEST-IN-CLASS SAR IMAGERY ENABLES HIGH-ACCURACY MTI SOLUTIONS FROM LOW EARTH ORBIT (LEO) MICROSATELLITES.

