

**ENHANCING THE GEOSPATIAL MATURITY OF SOCIETIES** 

Organized by





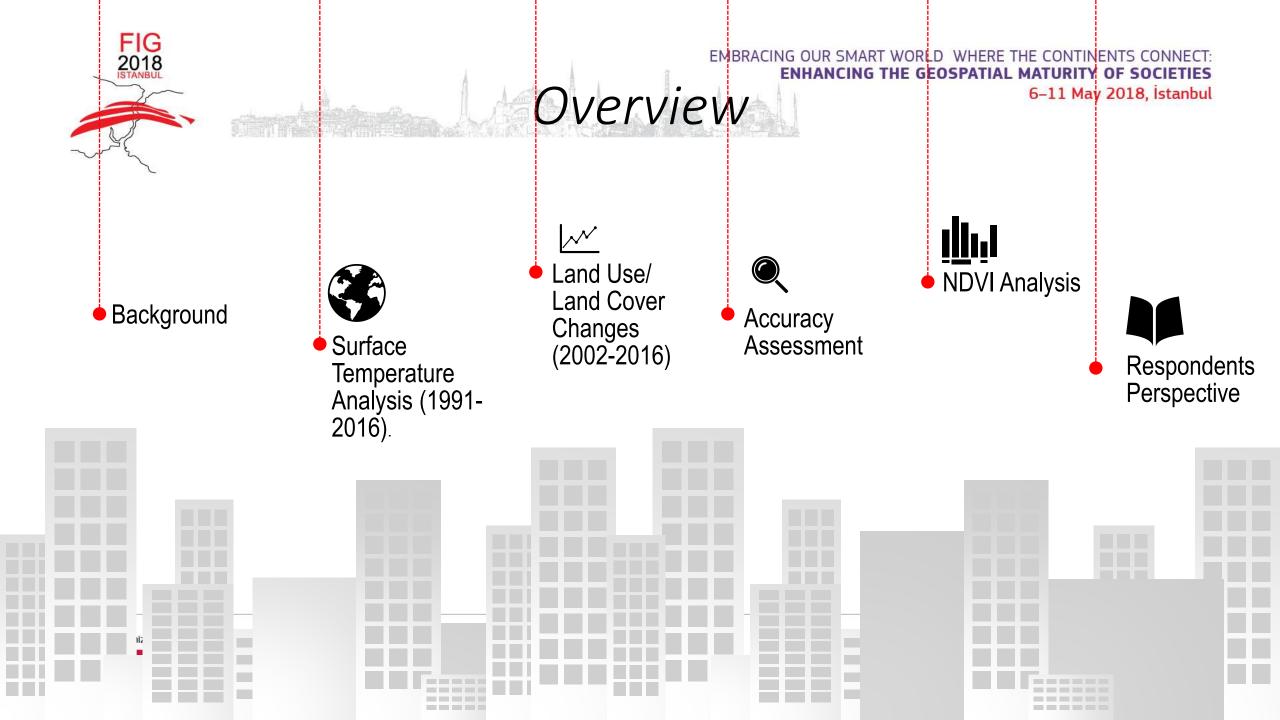
Main Supporters





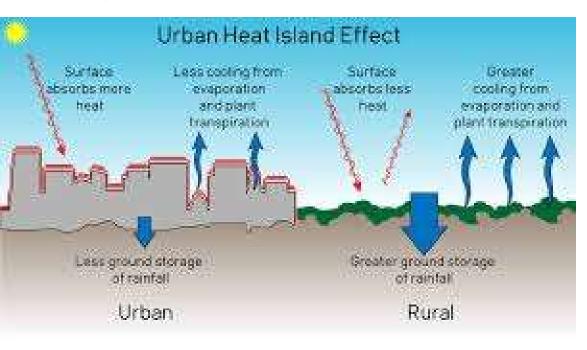


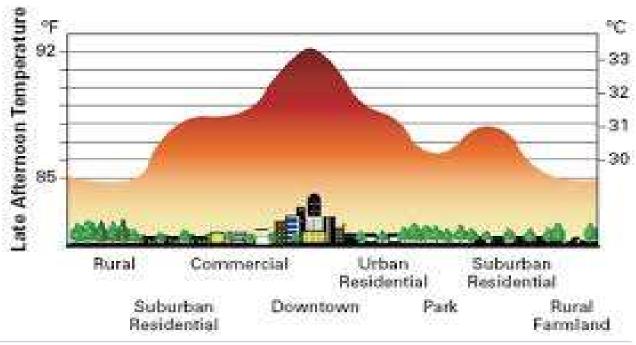




## Creation of Urban Heat Islands

Increased sub-surface, surface, or air temperatures observed in an urban environment compared to the undeveloped rural surroundings due to thermal energy build-up (Landsberg, 1981).







FIG

2018



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Our urban environment

Replacement of vegetative cover with impervious surfaces, increases sensible heat flux

FIG 2018 ISTANBUL

Higher concentrations of pollutants from anthropogenic factors The urban environment creates a massive harbor for carbon sequestration

Haven for ameliorate temperatures









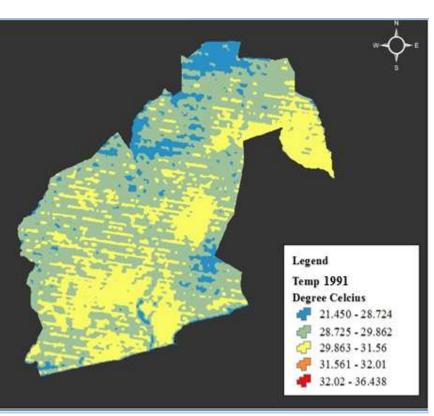


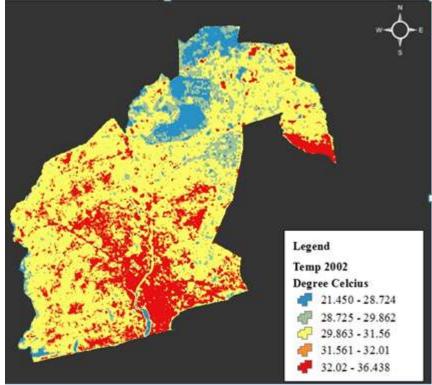


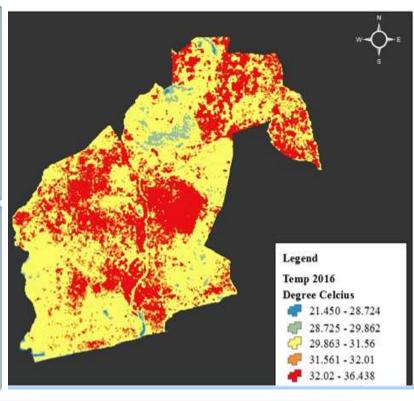


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### Surface Temperature Analysis of AMA











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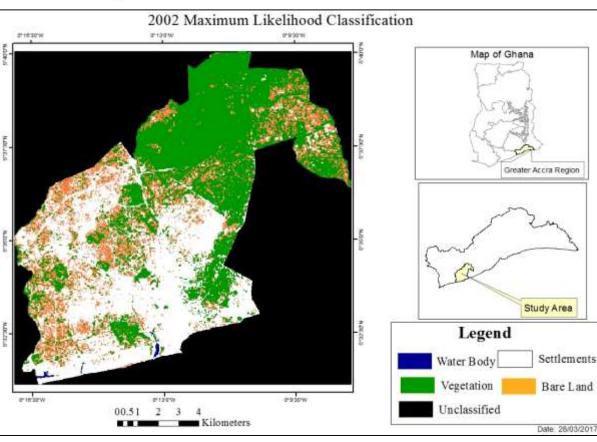


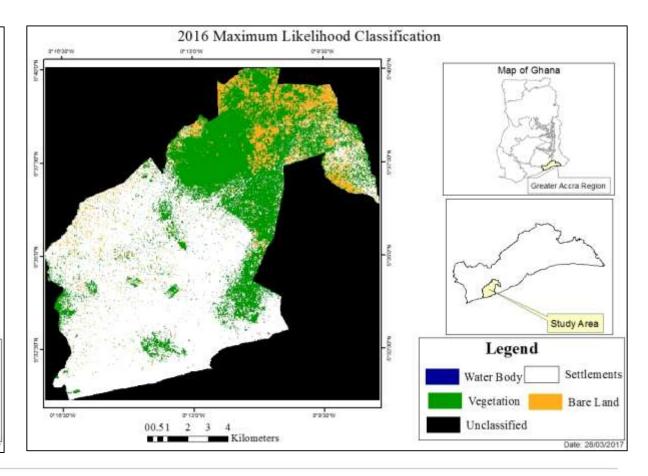


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# Supervised Classification









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### LAND USE/ LAND COVER CHANGE FROM 2002 TO 2016







1954

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T.C.
CEVAR VE SEHIRCILIK
BOXANLIG













## Data Analysis

Surface Temperature over the 25 year period has increased by 5°C within the ROI

54% of residents stipulated the loss 04 in vegetative cover as the main reason leading to increasing surface temperatures







Accurac Assessment Classified In showed Overall Accuracy of 94%

Majority of the residents stated the increase in electrical consumption and health implications as the effects of the phenomena

Platinum Sponsors

Trimble.



The analysis also showed a more than 50% decrease in vegetative cover which can be attributed to rapid urbanization

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Ensure a quarter of land is devoted to green spaces in every community

Bare Lands should be covered with vegetative cover to prevent dust particles from circulating in the atmosphere

Adopting practices such as planting on rooftops and the use of lighter colors for roofing

Enforcement of laws protecting forest reserves in the urban environment





















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**QUESTIONS?** 







