









Mapping Urban Green Space in the City of Gweru, Zimbabwe

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"Geospatial Information for a Smarter Life and Environmental Resilience"

Population of about 300 000 inhabitants Municipal area covers over 20 000 Ha Great temperatures Moderate annual rainfall



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"Geospatial Information for a Smarter Life and Environmental Resilience"

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Smarter Life begins with a Smarter City Urban green spaces are the lungs of the every city

SDG 11 and urban green spaces

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Rational for this study

- **Collaboration** between Midlands State University and City of Gweru
- Introduction of a new approach to urban planning by integrating EO and GIS technologies
- Results aim to support
 - Master plan review and update
 - Enterprise GIS applications development (spin off)
 - Adoption of freely available datasets and processing tools







Datasets and processing tools

- Sentinel 2A
- SNAP
- QGIS

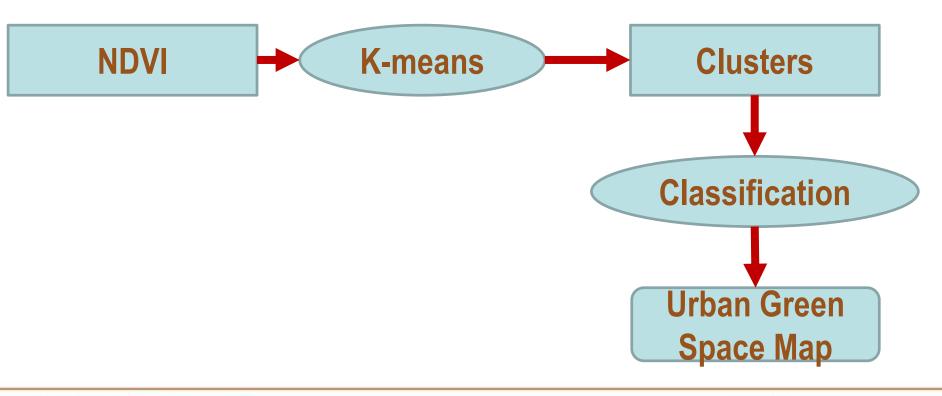








Unsupervised K-means classification based on NDVI





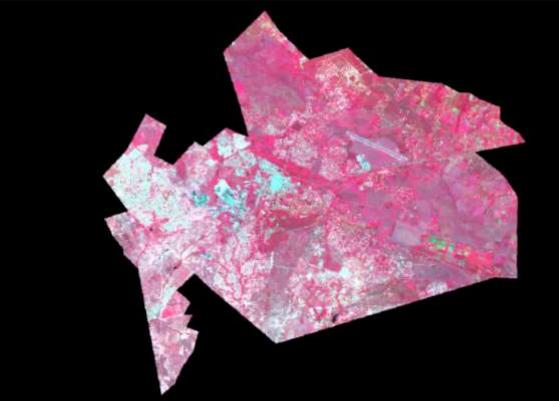
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False Colour Composite – Sentinel 2

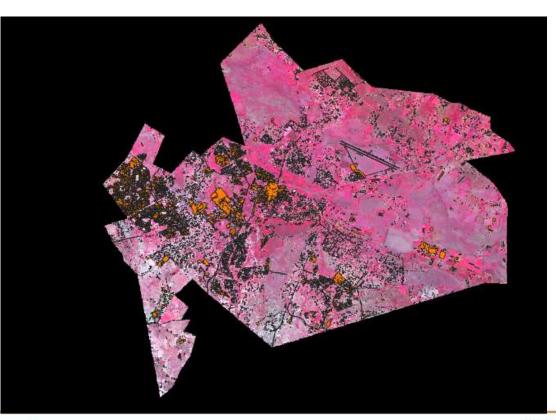






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Bare areas



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Cultivated areas



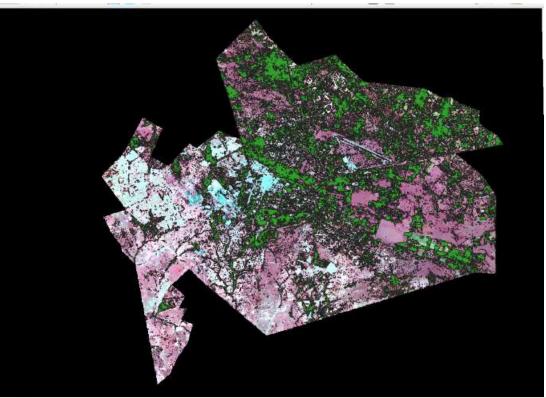








High vegetation urban green spaces





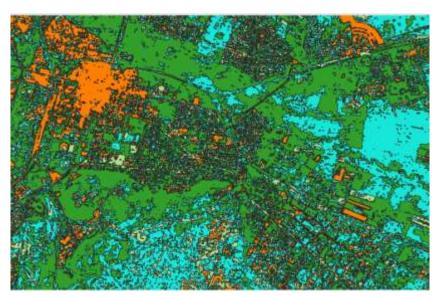






Urban green map













Outstanding work

- MCA yet to be developed
- City of Gweru is yet to come up with criteria for future citing of UGS







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Acknowledgements

Survey Institute of Zimbabwe

Midlands State University

City of Gweru City

CopernicusEU





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Thank You

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