

Leveraging Geospatial Technology to Monitor and Plastic Pollution Along the Coast

Presenter: Priscilla Djaba, Ghana



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Background The Global Plastic Pollution Crisis

- Plastic pollution along coastal areas has become a global environmental crisis, threatening marine ecosystems, livelihoods, and public health
- By 2050, there is a chance that plastic will outweigh all the fish in the sea at current rates.





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The Global Plastic Pollution Crisis

- Plastic pollution in simple terms can be described as the accumulation of synthetic materials in the environment.
- It is most noticeable in developing countries, where waste management systems are frequently inadequate or insufficient
- Sources of Plastic Pollution
 - Land Based
 - Sea Based
- Unfortunately, plastic is so durable that the EPA reports "every bit of plastic ever made still exists."
- Fuel for the growing menace? Single-use plastics





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Research Region







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Why is the issue more troubling in Ghana?

- 2.58 million metric tonnes of plastic is imported to Ghana annually of which 73% ends up as waste
- A typical family in Ghana uses about 30 single-use plastics per day for breakfast
- In a month, this family contributes to 900 pieces of single-use plastics into the environment
- A community of 1500 households means they add about 1.3 million of single use plastics to the sea every month
- Combined with inefficient waste management techniques, the cancer continues





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Research Approaches



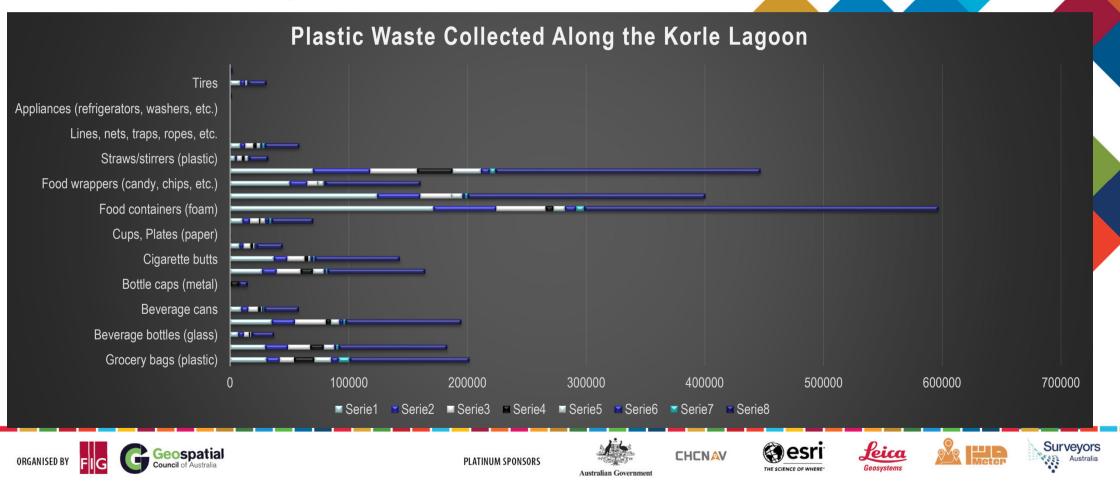






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Results- Field Survey, 2023





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Collaboration, Innovation and Resilience: Championing a Digital Generation



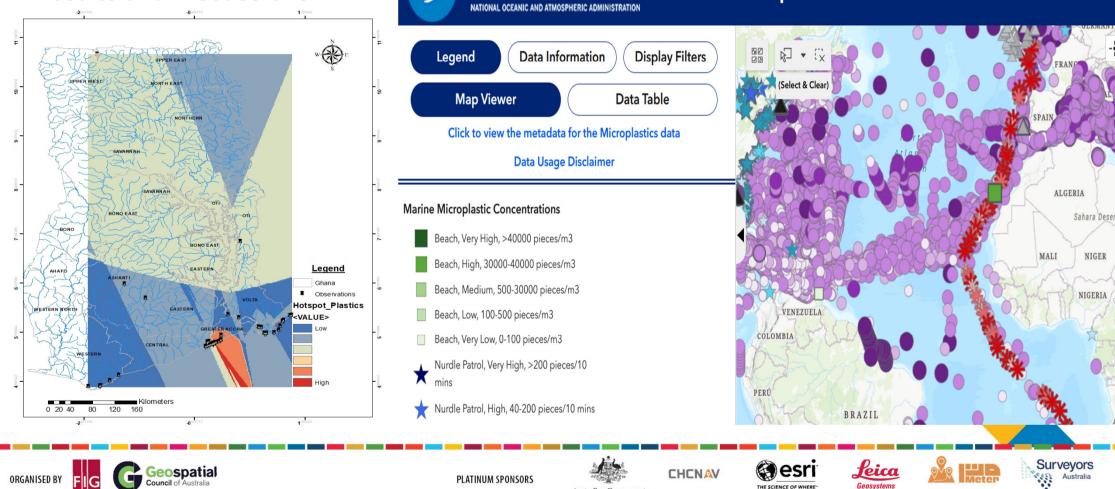
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Marine Microplastic Concentrations

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Results and Discussions



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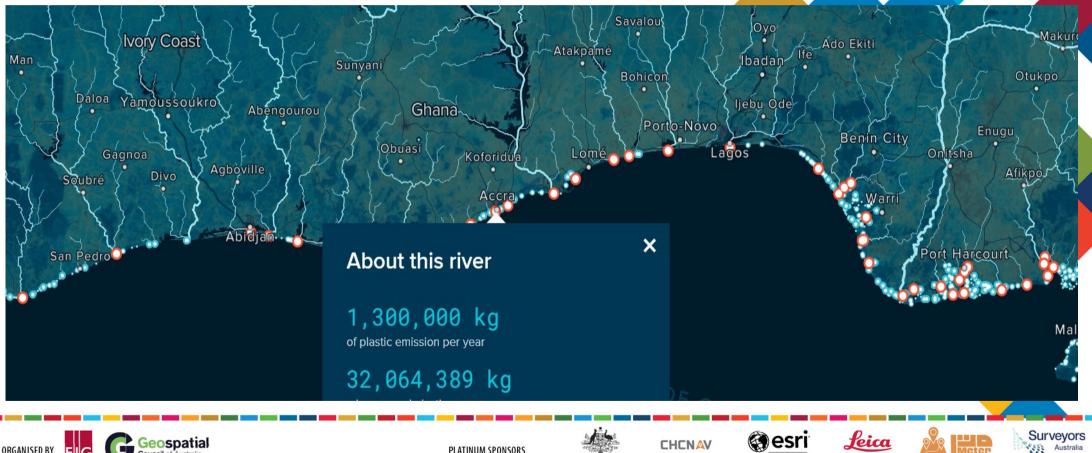






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Results and Discussions





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GIS is giving us the data, However what next?

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The call to action is now!!!!

WORKING

WEEK 2025

Ban single- use plastics

AND

- Producer Pay Policy
- Make the Campaign Louder
- Recycling Concept
- Research Driven Policies



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