



# FIG Working Week 2024

19-24 May

Accra, Ghana

Your World, Our World:  
Resilient Environment  
and Sustainable  
Resource Management  
for All

Presented at the FIG Working Week 2024,  
19-24 May 2024 in Accra, Ghana

## Construction Economics - The Economic Impact of a Resident Geomatic Engineer (12581)

Authors:

Richmond Nii Otokunor Sackey (Geomatic Engineer)

Eric Kofi Kwaako (Geomatic Engineer)

Seyram Quist (Geomatic Engineer)

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## Introduction - (Past Practices)

Exclusion of Geomatic engineers out of project teams

Geomatic engineers with limited availability of surveying technologies

Periodic visitations to site instead of residence

Less understanding of the role and benefits of a Geomatic Engineer

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## Role of Geomatic Engineer

Topographic Surveys

Site Layout and Designs

Construction Surveys

Quality Control and Assurance

Utility Mapping

Geospatial Data Management

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## Role of Geomatic Engineer

Technology Integration

As-Built Surveys

Deformation Analysis

Environmental Impact Assessment

Stakeholder Communication





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## Economic Impact of a Resident Geomatic Engineer

Improved Accuracy and Efficiency

Cost Saving

Project Management

Mitigation of Risks

Technological Advancements

Long-term Benefits

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## Economic Impact of a Resident Geomatic Engineer



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## In Conclusion

- Get a Resident Geomatic Engineer and Manage Cost!

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**SUSTAINABLE DEVELOPMENT GOALS** | International Federation of Surveyors supports the Sustainable Development Goals

## Commission 5, TF SDG

**TS05F: The Growing Roles & Responsibilities of surveyors as Data Engineers and Resources Managers**

Serving Society for the Benefit of People and Planet

