



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

Best Practices for Adopting 3D Laser Scanning and Mobile Mapping

Krasimir MATEV and Raphael GOUDARD

Presenter: Craig HILL, VP of Marketing & Services Survey Solution, Leica Geosystems AG

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CHALLENGES

THE RAPID ADVANCE OF SURVEY TECHNOLOGY

- Sensor innovation
- Cloud computing
- Digitization
- Automation and AI

THE EVOLVING ROLE OF THE SURVEYORS

- Transformation of the role
- New skills required
- Creative and diverse discipline
- Project and data manager

THE SHORTAGE OF SKILLED SURVEYORS

- Adopt new technology
- “Do more with less”

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THE IMPACT ON BEST PRACTICES

Planning

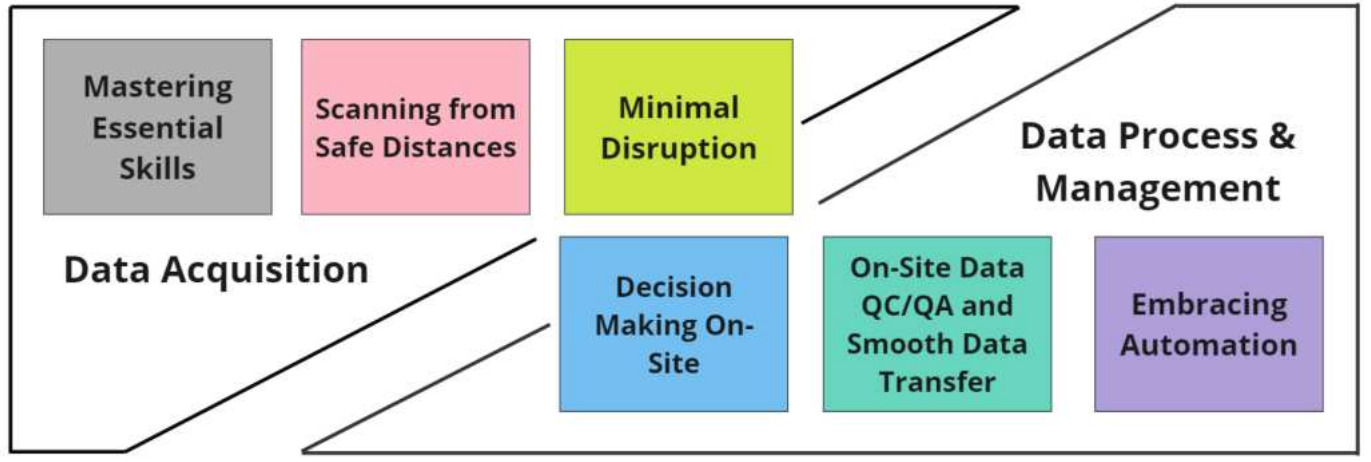
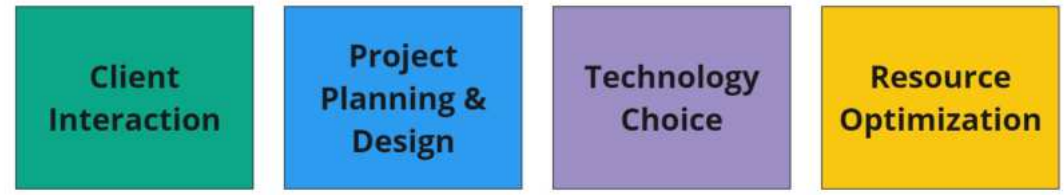




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THE IMPACT ON BEST PRACTICES – PLANNING

Planning

Client Interaction	Project Planning & Design	Technology Choice	Resource Optimization
Bridge Client-Provider Understanding	Define Clear Project Goals	Evaluate Hardware and Software	Address Skilled Professionals Shortage
Showcase Tech Capabilities Transparently	Develop Realistic Project Plans	Align with Project Requirements	Prioritize Technological Innovations
Offer Transparent & Educational Experience	Establish Effective Communication	Prioritize Cost-Efficiency	Stay Abreast of Advancements
Utilize Visualizations Effectively	Promote Collaborative Teamwork	Optimize Resource Consumption	Capture More Data with Fewer Personnel
Encourage Deeper Engagement	Implement Robust Data Sharing	Implement "Fit-to-Purpose" Solutions	Optimize Technology Deployment
Emphasize Problem-Solving Role	Incorporate New Reality Capture Workflows	Choose Sustainable Technology	Accelerate On-Site Quality Checks
Become Indispensable Tech Partners	Ensure Alignment with Objectives	Minimize Ecological Footprint	Transform Competitive Landscape



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THE IMPACT ON BEST PRACTICES – PLANNING

Planning

Client Interaction	Project Planning & Design	Technology Choice	Resource Optimization
Bridge Client Expectations Understanding	Define Clear Project Goals	Evaluate Hardware and Software	Address Skilled Professionals Shortage
Maximize Data Usability Transparency	Develop Realistic Project Plans	Align with Project Requirements	Prioritize Technological Innovations
Build Trust and Mutual Understanding	Establish Effective Communication	Prioritize Cost-Efficiency	Stay Abreast of Advancements
Reduce Misunderstandings Effectively	Promote Collaborative Teamwork	Optimize Resource Consumption	Capture More Data with Fewer Personnel
Streamline Project Approvals	Implement Robust Data Sharing	Implement "Fit-to-Purpose" Solutions	Optimize Technology Deployment
Engage Stakeholders Proactively	Incorporate New Reality Capture Workflows	Choose Sustainable Technology	Accelerate On-Site Quality Checks
Ensure Transparency and Accountability	Ensure Alignment with Objectives	Minimize Ecological Footprint	Transform Competitive Landscape

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THE IMPACT ON BEST PRACTICES – PLANNING

Planning

Client Interaction	Project Planning & Design	Technology Choice	Resource Optimization
Bridge Client-Provider Understanding	Define Clear Project Goals	Evaluate Hardware and Software	Address Skilled Professionals Shortage
Enhance Trust & Collaborative Transparency	Develop Realistic Project Plans	Align with Project Requirements	Prioritize Technological Innovations
Offer Transparency & Educational Experiences	Establish Effective Communication	Prioritize Cost-Efficiency	Stay Abreast of Advancements
Utilize Specialized Expertise	Promote Collaborative Teamwork	Optimize Resource Consumption	Capture More Data with Fewer Personnel
Maximize Client Engagement	Implement Robust Data Sharing	Implement "Fit-to-Purpose" Solutions	Optimize Technology Deployment
Empower Fieldwork & Data Collection	Incorporate New Reality Capture Workflows	Choose Sustainable Technology	Accelerate On-Site Quality Checks
Streamline and Automate Workflows	Ensure Alignment with Objectives	Minimize Ecological Footprint	Transform Competitive Landscape



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THE IMPACT ON BEST PRACTICES – PLANNING

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Client Interaction	Project Planning & Design	Technology Choice	Resource Optimization
Bridge Client Provider Understanding	Define Clear Project Goals	Evaluate Hardware and Software	Address Skilled Professionals Shortage
Showcase Tech Capabilities Transparency	Develop Realistic Project Plans	Align with Project Requirements	Prioritize Technological Innovations
Offer Transparency & Intellectual Capabilities	Establish Effective Communication	Prioritize Cost-Efficiency	Stay Abreast of Advancements
Define Sustainable Metrics	Promote Collaborative Teamwork	Optimize Resource Consumption	Capture More Data with Fewer Personnel
Encourage Client Engagement	Implement Robust Data Sharing	Implement "Fit-to-Purpose" Solutions	Optimize Technology Deployment
Develop a Comprehensive Plan	Incorporate New Quality Capture Workflows	Choose Sustainable Technology	Accelerate On-Site Quality Checks
Ensure Alignment with Client Objectives	Ensure Alignment with Objectives	Minimize Ecological Footprint	Transform Competitive Landscape



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THE IMPACT ON BEST PRACTICES – DATA ACQUISITION

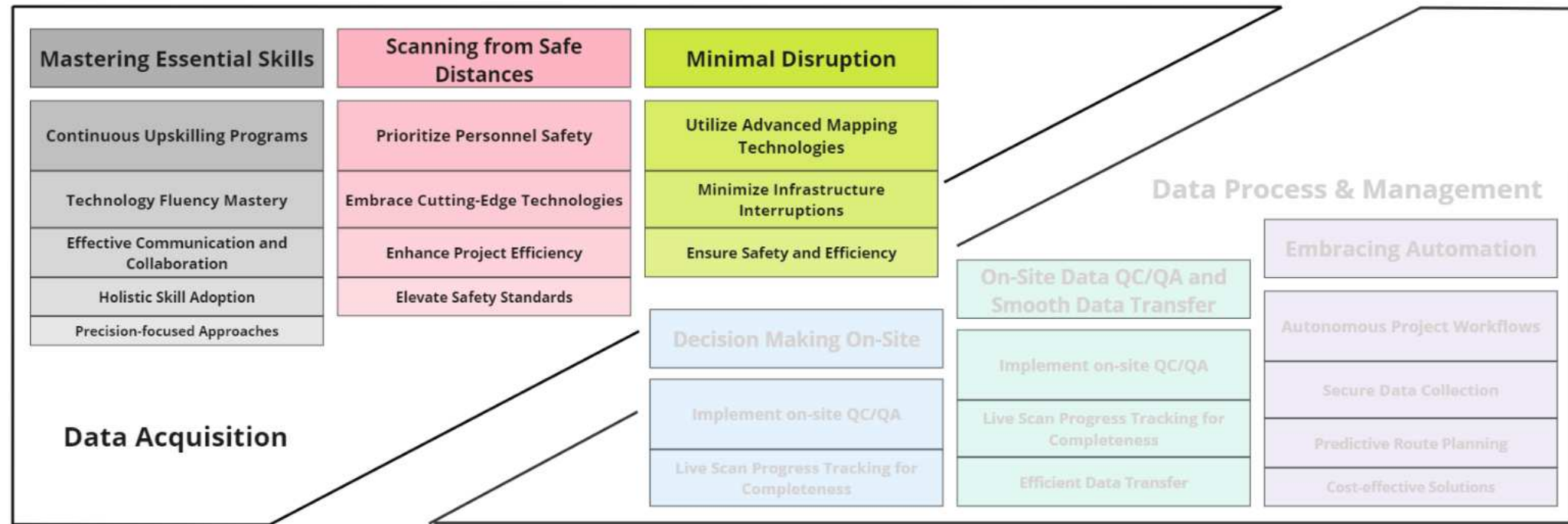




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THE IMPACT ON BEST PRACTICES – DATA PROCESS & MANAGEMENT

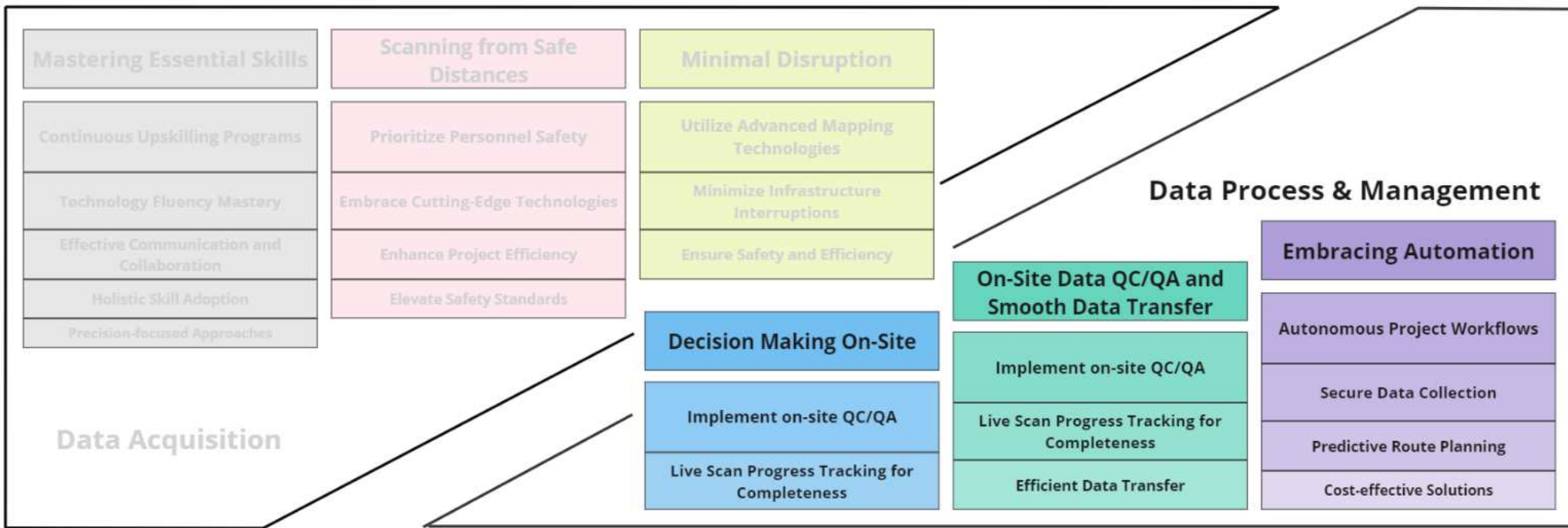




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CONCLUSION

The role of a skilled surveyor remains irreplaceable, given their unique expertise in **client interaction**, **data interpretation**, **decision-making**, and **problem-solving** in the context of spatial data management.

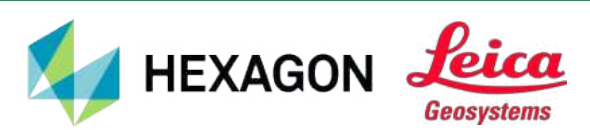




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SUSTAINABLE DEVELOPMENT GOALS | International Federation of Surveyors supports the Sustainable Development Goals

Commission 5 & 6

TS01F: Novel Cost-Effective Positioning & Engineering Systems and their Applications for Africa

Serving Society for the Benefit of People and Planet

