DIGITAL IA: ENHANCED ENVIRONMENTALLY INTEGRATED DESIGN ENABLED BY DIGITAL ADVANCES





@IAIAnetwork #iaiawebinar

Welcome!

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- **✓** Webinars on demand, available to all:
 - The IFC's MALENA: What might artificial intelligence offer to IA?
 - New Approaches to Challenges: Emerging technologies and analyses for biodiversity impact assessment
 - Think Big 2050 City Megagrowth: Assessing and addressing the impacts of urbanization and many more!
- ✓ **Upcoming events**, including the IAIA24 annual conference
- ✓ **Online training and mentorship** through the Professional Development Program
- ✓ Free downloadable publications, like Best Practice Principles, IA FasTips, and more

Find these resources and more at www.iaia.org

https://2024.iaia.org/



Housekeeping



- ✓ Recording?
- ✓ Questions?
- ✓ Slides available?

DIGITAL IA: ENHANCED ENVIRONMENTALLY INTEGRATED DESIGN ENABLED BY DIGITAL ADVANCES

Moderator: Josh Fothergill

Fothergill Training & Consulting

UK

Panelists:



Member of the SNC-Lavalin Group

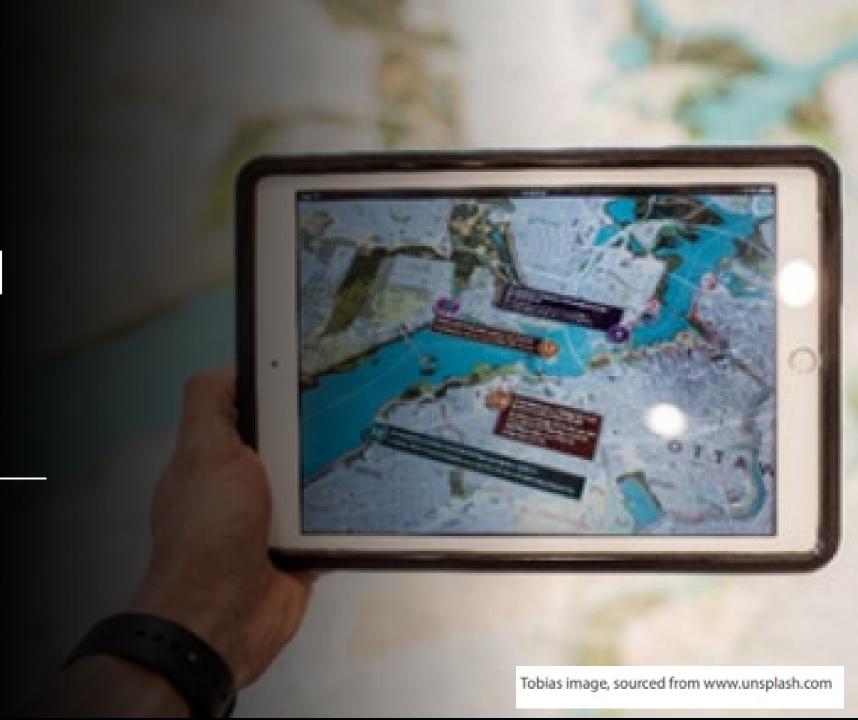
- Paul Morgalla
- Dan Parsons
- Pietro Rescia

The State of Digital IA Practice
Webinar Series

Webinar 4

Enhanced environmentally integrated design enabled by digital advances

What is Digital Impact Assessment?



Defining Digital IA...

- Not formally defined in national IA laws / financial institution standards.
- Lots of different views of what is / is not within the scope of Digital IA based on differing experiences and perspective on practice.
- IAIA Innovation Grant funded a project to help frame the subject, which led to the following broad definition:

"The use of advances in digital technologies and their applications in the pursuit of enabling more effective IA practice"

Fothergill & Murphy, 2021







The State of Digital Impact Assessment Practice

A global review of the uptake of digital technologies and approaches within impact assessment practice





The State of Digital IA Practice ReportDecember 2021:

https://www.fothergilltc.com/digital

Launch Webinar:

https://www.iaia.org/webinardetails.php?ID=38

Digital IA workspace webinar Mar'22:

https://www.iaia.org/webinar-details.php?ID=43





The State of Digital IA Practice identifies 10 Elements of Digital IA Practice

Digital Impa	act Assessment
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Digital Approaches & Technologies enabling progress in Digital IA

Inter-IA and online environmental and social management systems

Digital baseline data capture devices

Artificial intelligence (AI) in IA

IA and virtual, augmented & mixed realities

Online learning and capacity building

Digital Transformation within Aspects of the IA process

Digital screening tools

Digital IA platform / workspace

Digital stakeholder engagement

Digital EIS and web-based reporting

Digital follow-up: monitoring and auditing





Digital IA

Key Areas of Change Requiring Management

Data

Access, Integration and Trust

Quality & Costs

More effective practices / loss skilled humans in IA?

Engagement

Equity, Inclusion + Reach: *Digital Divide*

Safety,
Privacy +
Security





Transformations to Digital IA are progressing across global practice

North America:

- Canada, Environmental database management system
- IFC, Artificial Intelligence, and data innovation for social license

Europe

- Iceland, Early example of the potential of digital EIS
- Netherlands, Digital EIS, diagnostic tool country ESIA systems
- Serbia, Envigo digital IA platform

Asia

- China (Hong Kong), Virtual and hybrid reality systems
- Singapore, Autonomous vehicles + automated decision support systems
- Nepal, drones + digital air quality devices



South America

- Chile, Remote sensing and live database EIA follow-up
- Guyana, Imagery + GIS to map coastal ecosystem services, with in-field verification.

Africa

- Kenya, Drones surveys
- Nigeria, Developing digital EIA project + drone surveys
- South Africa, digital screening platform

Australasia

 Australia, digital EIA studies, reports and monitoring system.





The State of Digital IA Practice

Defined areas where more thought was needed as practice and technologies advance...

Can digital IA provide new ways to demonstrate ESG outcomes?

What role will AI play in the future delivery of the IA process?

Might digital move IA from plans/projects to geographies?

Will opensource data and tools enable democratization of IA?





Enhanced environmentally integrated design enabled by digital advances





Q&A - Discussion

Enhanced environmentally integrated design enabled by digital advances





Upcoming Webinars

Check out our upcoming webinars and register at https://iaia.org/webinars.php

19 July: Launching of the First Geoportal of Migratory Austral Geese An Online Tool

1 August: Think Big: 2050 City Megagrowth – 2nd part registration will open soon

Thank you!

Let's continue the discussion:

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