



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

Harnessing the Power of GeoAI through:

SEMANTIC SEGMENTATION- BASED STUDY OF SOLAR PANEL FOOTPRINTS IN HONG KONG

Nok-hang NG
Hong Kong SAR, China

Image Courtesy of Vencavolrab from Canva

ORGANISED BY



PLATINUM SPONSORS





FIG Working Week 2024

19-24 May

Accra, Ghana

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

From Policy to Implementation



Source: CNSD, BD, EMSD of HKSARG





FIG Working Week 2024

19-24 May

Accra, Ghana

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



Where is the Solar Panel in HK

ORGANISED BY



PLATINUM SPONSORS





FIG Working Week 2024

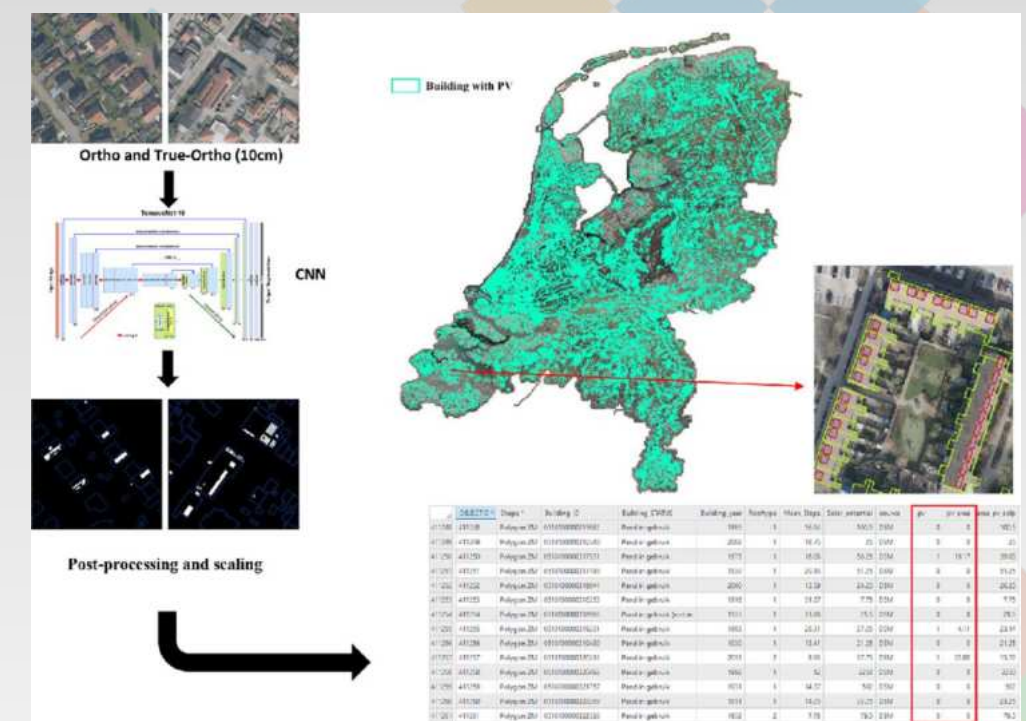
19-24 May

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

Worldwide Stories



Data from The Eco Experts & the Government of UK



National Mapping Agency of the Netherlands



FIG Working Week 2024

19-24 May

Accra, Ghana

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

How does it work?

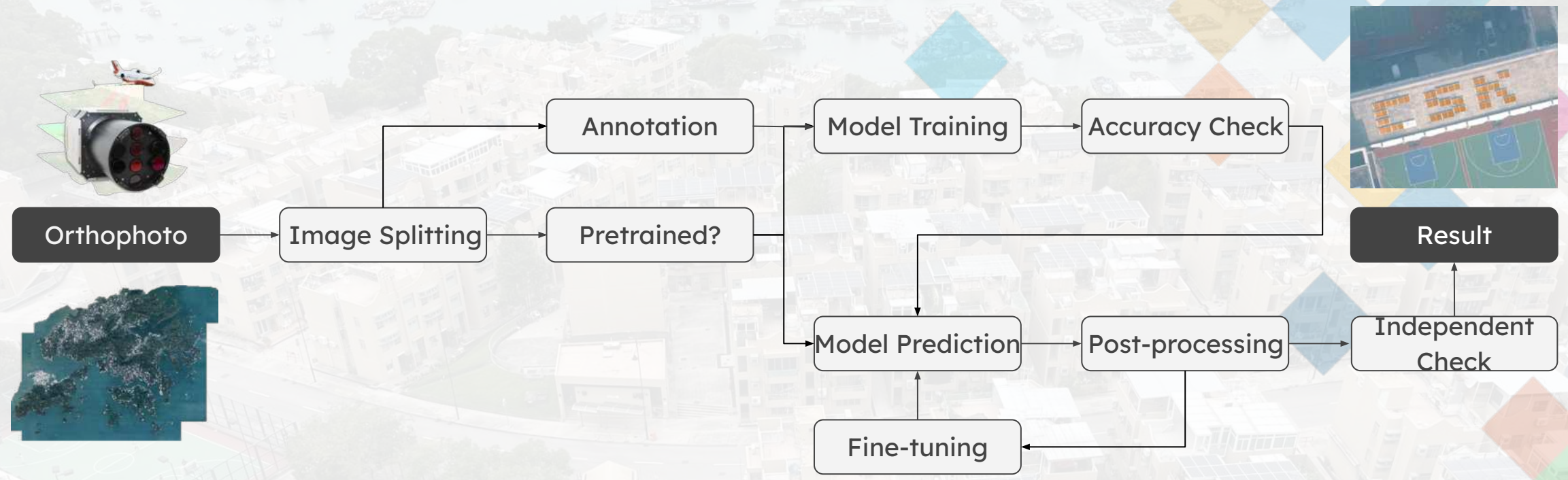




FIG Working Week 2024

19-24 May

Accra, Ghana

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

Findings

MMU: 1.6 sq. m

F1 score: 0.95

IoU: 0.90

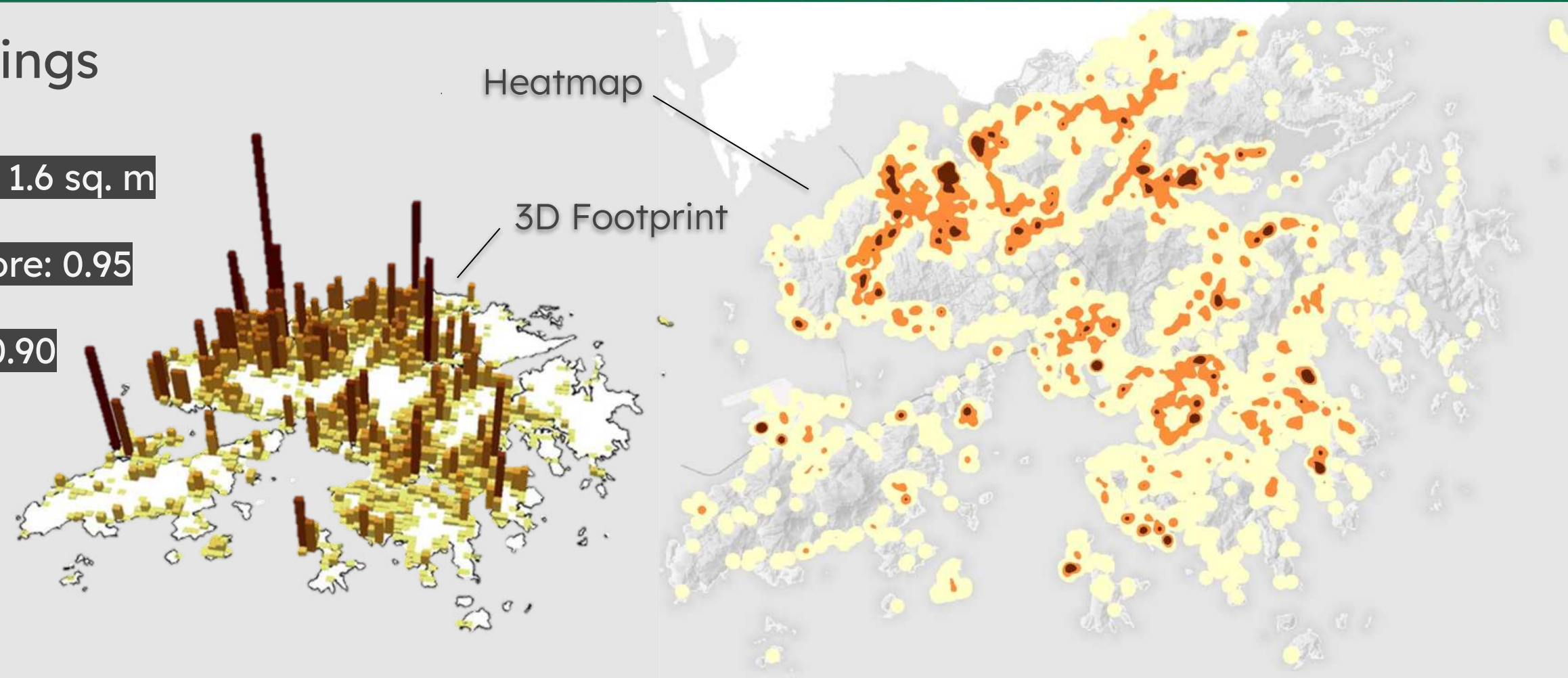




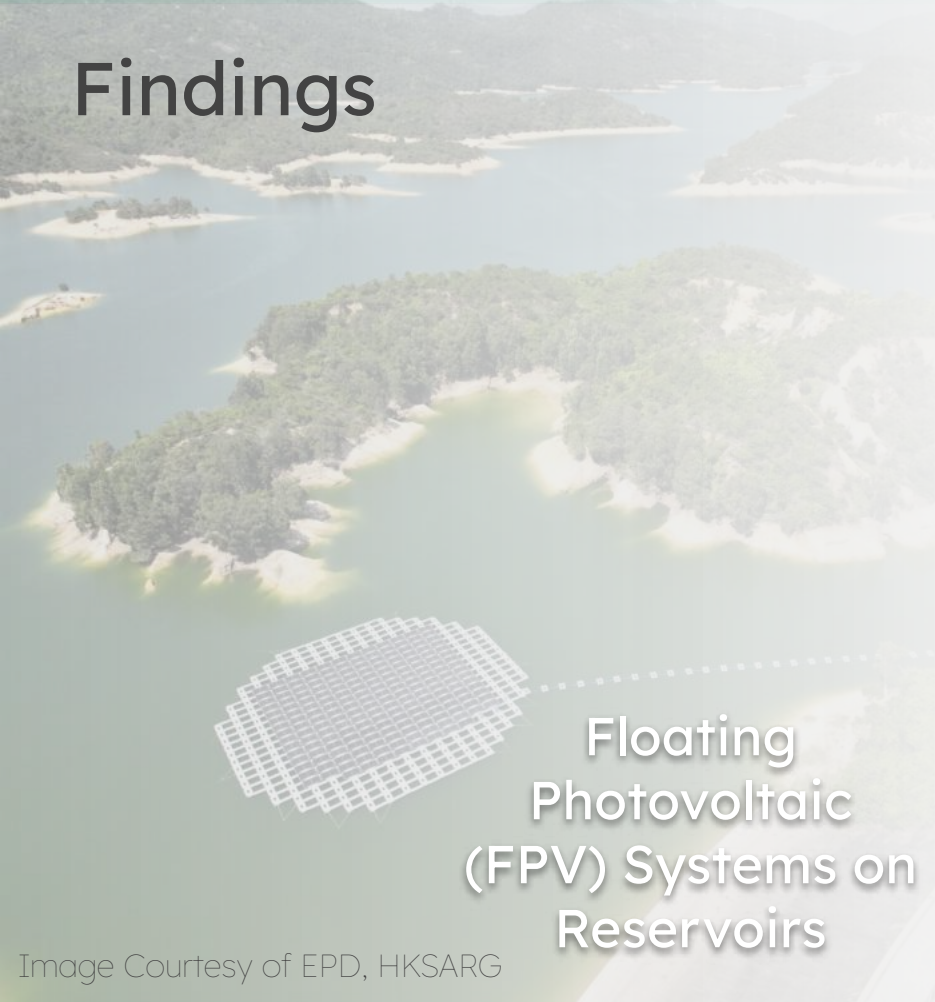
FIG Working Week 2024

19-24 May

Accra, Ghana

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

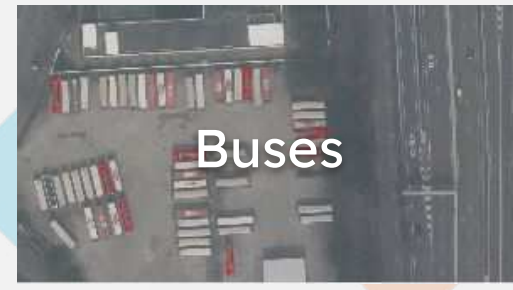
Findings



Floating
Photovoltaic
(FPV) Systems on
Reservoirs



Industrial
Buildings



Buses



Schools



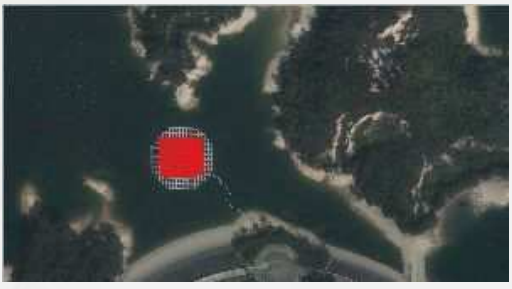
Village Houses



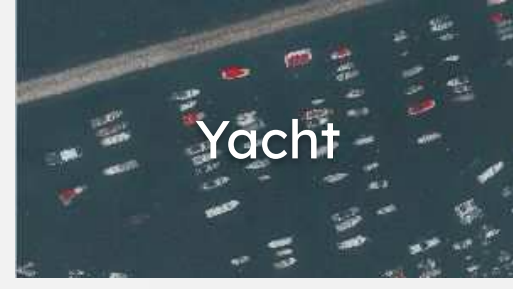
Residential
Buildings



Temp. Structure



Ponds



Yacht

Image Courtesy of EPD, HKSARG





FIG Working Week 2024

19-24 May

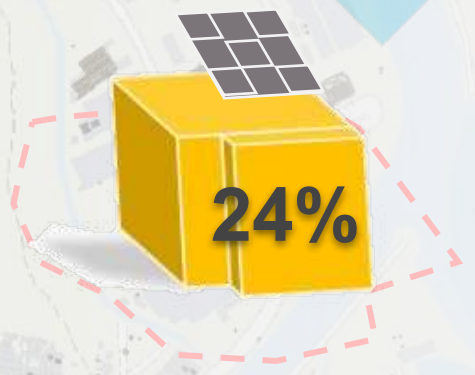
Accra, Ghana

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

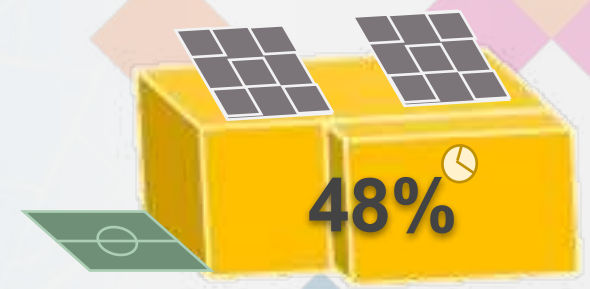
Findings



Building
(Sep 2023 ver. FSDT)



Building License



School



FIG Working Week 2024

19-24 May

Accra, Ghana

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

Potential Application



Land Cover Map

Change Detection

Land Management

Green Estimate & Forecast

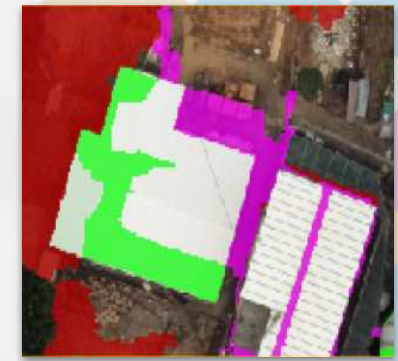




FIG Working Week 2024

19-24 May

Accra, Ghana

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

Points to Note

“

Harness the power of GeoAI solutions to accurately
calculate the solar panel footprint in a dense urban area

ORGANISED BY



PLATINUM SPONSORS





FIG Working Week 2024

19-24 May

Accra, Ghana

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

SUSTAINABLE DEVELOPMENT GOALS

International Federation of Surveyors supports the Sustainable Development Goals

Commission 7

Cadastre and Land Management

Serving Society for the Benefit of People and Planet

