

# Third EAGE Seabed Seismic Today Workshop

**SEABED SEISMIC: EVOLUTION THROUGH INNOVATION** 

24-26 NOVEMBER 2025 • MANAMA, BAHRAIN

### Programme

### TECHNICAL COMMITTEE

Ed Hager (Co-Chair)	Shearwater GeoServices
James Wallace (Co-Chair)	BGP CNPC
Chris Walker	BGP CNPC
Claudio Bagaini	SLB
Constantinos Tsingas	Aramco
Fabio Mancini	Blue Ocean Seismic Services
Gary Hampson	DUG
Marc Rocke	TGS
Mohammed Fawzi Boukhanfra	ADNOC
Nicolas Tellier	Sercel
Rodney Johnston	bp
Rosa Dario	ENI
Saif Ali Al Messabi	ADNOC
Xander Campman	Shell
Alessio Checconi	PXGEO
Olivier Lamerain	TotalEnergies
Anthony Mathieson	Aramco
Chris Green	Shearwater Geoservices
Tim Bunting	PXGEO
Adriana Citlali Ramirez	TGS

### **OVERVIEW**

The Third EAGE Seabed Seismic Workshop reflects on the evolution of acquisition and processing through technology over the past few years, which has seen seabed seismic sought after for imaging the subsurface for field exploration and development, evergreening legacy data through velocity model building and becoming the gold standard for 4D. The workshop will look at the innovations and step-changes in design and applications that will shape the future of marine seabed seismic.

From acquisition to processing, the workshop will cover all applications and technological advances, including sources, traditional and distributed acoustic sensing (DAS), deployment innovation, novel survey designs and case studies, applications for emerging markets such as carbon storage and new processing and imaging solutions enabled by high-quality multi-component seismic data.

We are excited to have the third edition being held in Manama!

### **TOPICS**

### 1. Advances in Seabed Acquisition

- On the source side
  - Source Technology Inc. New Source Technology, Low Frequency, Frequency Controlled, Marine Vibrators, Nonconventional/ Non-Pneumatic, Autonomous Technology, Source Steering/ Wide-Tow
  - Source Acquisition Designs Simultaneous Shooting, Hybrid / Mixed Sources, Blended Seismic
- On the receiver side
  - Receiver Technology Inc. New Receiver Technology, Receiver Handling, Autonomous Technology, Automation, IFQC/ML/AI for Data Harvesting and QC, Surface/Vertical DAS, SPNs (Semi-Perm), PRMs, Environmental Monitoring
  - Receiver Acquisition Designs Inc. Sparse Nodes,

- Innovative Geometries, Hybrid / Mixed Technology Designs, Compressive Sensing
- Case studies for Seabed Acquisition

## 2. Advances in Seabed Processing, FWI and Imaging

- Processing
  - Inc. Emerging Technology and Applications for Seabed Seismic Processing and Processing Mixed Datasets Inc. DAS and OBN, Streamer and OBN.
- FWI
  - -Inc. Advances in FWI, Multi-Parameter FWI, Sparse Nodes for VMB, FWI for 4D Applications and Elastic FWI, Full Waveform Impedance Inversion, FWI derived reflectivity
- Imaging
  - Inc. Migration (Inc. RTM and Least-Squares Migration), NFH Imaging, and Multiphysics Imaging
- Data
  - Inc. Al and ML in Processing and Imaging, Handling Big Data, Data Transmission and Reprocessing, Rejuvenating and Repurposing Legacy Seabed Datasets
- Case studies for Seabed Processing, Imaging and FWI

## 3. Cooperation and Collaboration between Acquisition and Processing/Imaging

- Acquisition
  - How are Advances in Seabed Acquisition influencing Seabed Processing, FWI and Imaging.
- Processing, FWI and Imaging
  - How are Advances in Seabed Processing, FWI and Imaging influencing Seabed Acquisition.

### 4. Seabed Seismic and The Future

- Panel Session
  - --The Path to Achieving Global Environmental Goals and Vision.
- Quick-Fire Techbyte
  - 5 minute Presentations on New / Crossover Technology
- Brainstorm Session
- Seabed Seismic and Applications in the CCS/CCUS lifecycle "Screening, Selection, Injection, Monitoring" and Wind Farm "Feasibility and Hazard Assessment".
- Innovation
  - Acquisition, Processing and Imaging Solutions for Alternative Markets Inc. Site Surveys, Offshore Wind, Marine Minerals, CCS/CCUS, TZ and ultra-shallow water, Co-located Fields.

### **SHORT COURSE**

### Sunday 23 November 2025

State of the Art in Full Waveform Inversion



Instructed by Ian Jones (Independent Consultant)

### About the instructor

lan received a joint honours BSc in Physics with Geology from the University of Manchester, UK, in 1977, an MSc in Seismology from the University of Western Ontario, Canada, and a PhD in Geophysical Signal Processing from the University of British Columbia, Canada.

After working for 'Inverse Theory & Applications' in Canada for two years, he joined CGG, where for 15 years he was involved in R&D in the London and Paris offices, latterly as manager of the depth imaging research group. In 2000 he joined ION GX Technology, as a Senior Geophysical Advisor in London, and in 2021 joined BrightSkies Geoscience as a Consultant Senior Geophysical Advisor.

His interests include velocity model building and migration, having written the text books: 'Velocities, Imaging, and Waveform Inversion: the evolution of characterising the Earth's subsurface' published by the EAGE in 2018; 'An Introduction to Velocity Model Building' published by the EAGE in 2010; and co-editing the SEG Geophysics Reprints series volumes 'Classics of Elastic Wave Theory' and also 'Pre-Stack Depth Migration and Velocity Model Building', as well as contributing the chapter on model building to the SEG online encyclopaedia. He has served as an associate editor for the journals 'Geophysics' and 'Geophysical Prospecting', and teaches the EAGE/SEG/GESGB continuing education course on 'Velocity Model Building and Migration' and was an external lecturer at the University of Leeds and Imperial College London.

Ian was awarded the EAGE's Anstey Medal in 2003 for "contributions to the depth imaging literature", made the SEG European Honorary Lecturer in 2012 for "contributions" to advancing the science and technology of geophysics", conducted the 2018-2019 EAGE International Education Tour, and was made an Honorary Life Member by the EAGE in 2018, and received the best paper award for his 2019 First Break tutorial on FWI.

### **Short Course Overview**

Over the past ten years, full waveform inversion (FWI) has emerged and developed to the point that it is now the main technique of choice for detailed model building and reflectivity estimation for complex geological environments. In this review, I will outline the underlying principles involved in FWI, detailing the use of RTM to estimate the location of subsurface parameter error, and introduce the many and varied 'flavors' of FWI, noting their limitations and benefits. Use of FWI for model estimation, reflectivity generation, and pre-sack attribute analysis (AVA) will be covered, and demonstrated with field data examples.

For the topics listed below, real data examples will be used to demonstrate the application and limitation of each technique.

- Why do we need a detailed velocity model?
- Migration using wavefield extrapolation methods (WEM, RTM, etc.)
- One-way versus two-way propagation
- Resolving short-scale-length velocity anomalies
- The mechanics of tomographic inversion with wavefield extrapolation theory (FWI)
- The scattering limit
- Refraction versus reflection
- Different 'norms' (dynamic versus kinematic: least-squares, travel time, phase, optimal transport)
- Examples of current industrial practice for various geological settings

### **KEYNOTE SPEAKERS**



Fuad Al-Somali Geophysicist, Aramco



**lan Jones** Independent Consultant



**Ted Manning** Senior Principal Innovation & Technology ,bp

### **PANEL SESSION**

How can Seabed Seismic Achieve Global **Environmental Goals and Vision** 

### Moderator



**Ross Compton** Director of Global Policy EnerGeo Alliance

**Panelist** 



Ted Manning Senior Principal Innovation & Technology



**Xander Campman** Principal Science Expert Shell Global Solutions International BV



**Chris Walker** Chief Geophysicist **BGP** Offshore



**Gary Hampson** Advisor Dug

### Oral Presentations | Sunday, 23 November 2025

AL R	IFAA BALLROOM
08:00	Registration & Welcome Coffee
08:55	HSSE From Hotel Intercontinental Bahrain
09:00	Session 1:
10:30	Morning Coffee Break
11:00	Session 2:
12:30	Lunch Break - Selection Restaurant (Seated Buffet Lunch)
13:30	Session 3:
15:00	End of Short Course

### Oral Presentations | Monday, 24 November

AL RIFAA BALLROOM

08:30 HSSE From Hotel  08:35 Welcome by Co-Chairs James W (Shearwater Geoservices)  08:45 Opening Address by BAPCO Representation Part I Session Chairs: Gary Hampson (E O9:00 Keynote 1 - Ian Jones  109:30 The Practical Impact of Effective Analysis on Ocean Bottom Seism R. Andrews¹, G. Pemberton¹*, B. We¹Sercel  109:55 3D OBN Seismic Acquisition with for Fold Coverage Data Optimizat R.W. Nurcahyo¹*, H. Asyˈari¹, D.E. Pu¹Elnusa  10:20 Morning Coffee Break	resentative r Seabed DUG) & TBC Data Visualization and aic Acquisition Operations - reshchuk¹ h Undershooting Method
(Shearwater Geoservices)  08:45 Opening Address by BAPCO Representation 1 - Case Studies for Acquisition Part I Session Chairs: Gary Hampson (E) 09:00 Keynote 1 - Ian Jones  09:30 The Practical Impact of Effective Analysis on Ocean Bottom Seism R. Andrews¹, G. Pemberton¹*, B. We¹Sercel  09:55 3D OBN Seismic Acquisition with for Fold Coverage Data Optimizat R.W. Nurcahyo¹*, H. Asy¹ari¹, D.E. Pu¹Elnusa	resentative r Seabed DUG) & TBC Data Visualization and aic Acquisition Operations - reshchuk¹ h Undershooting Method
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for Fold Coverage Data Optimizat R.W. Nurcahyo <sup>1*</sup> , H. Asy'ari <sup>1</sup> , D.E. Pu <sup>1</sup> Elnusa	
10:20 Morning Coffee Break	
10.20 Worlding Gollee Dreak	
10:50 Efficient OBN Surveys with a Sin C. Strand¹ ¹SHEARWATER	gle Vessel - E. Hager <sup>1*</sup> ,
11:15 Aramco GID Placeholder	
11:40 Discussion Session / Q&A	
11:55 Lunch Break - Selections Restau	rent (Seated Buffet Lunch)
Session 2 - Cooperation an between Acquisition and P Part I	
12:55 Keynote 2 - TBC	
13:25 Are Near Field Hydrophone Reco D. Zhang¹ ¹Saudi Aramco	rdings Useful - C. Tsingas <sup>1*</sup> ,
Addressing Geometry Aariations Bottom Seismic Surveys using FV Method - Y. Gholami1*, F. Golfre' An A. Cooke¹, S. Christopher Way², M. V E. Kristin Areklett²  ¹Slb; ²Equinor	<b>VI with Illumination Probing</b> Idreasi <sup>1</sup> , H. Damir <sup>1</sup> , A. Bullock <sup>1</sup> ,
14:15 How High is High Blending Fold?  ¹DUG Technology; ²New Wave Energ	
<b>14:40 OBN Data Reconstruction with P Networks</b> - F. Brandolin <sup>1*</sup> , A. Alfara <sup>1</sup> 1 King Abdullah University of Science <sup>2</sup> EXPEC Advanced Research Center, S	nj <sup>2</sup> , T. Alkhalifah <sup>1</sup> , C. Tsingas <sup>2</sup> ce and Technology (KAUST);
15:05 Bringing High Density Acquisition N. Goujon <sup>1*</sup>	n to Transition Zone -
¹STRYĎE	
15:30 Discussion Session / Q&A (Inclu Sessions 1 & 2)	des all presenters from



# Panel Discussion Topic: How can Seabed Seismic Achieve Global Environmental Goals and Vision Moderator: Ross Compton (EnerGeo Alliance)

16:30	Introduction to Panelists & Discussion - Moderator: Ross Compton (EnerGeo Alliance) - Panelists: Ted Manning (bp), Xander Campman (Shell), Chris Walker (BGP), Gary Hampson (DUG)
17:30	Closing Remarks by Co-Chairs
17:35	End of Day 2

### Oral Presentations | Tuesday, 25 November

AL R	IFAA BALLROOM
08:00	Registration & Welcome Coffee
08:30	Welcome by Co-Chairs James Wallace (BGP) & Ed Hager (Shearwater Geoservices)
Sess Part	ion 3 - Advances in Seabed Acquisition
Sessio	on Chairs: Tim Bunting (PXGEO) & Xander Oman (Shell)
08:40	Keynote 3 - TBC
09:10	The Next Level Of Automation For Ocean Bottom Node (OBN) Operations - M. Farine <sup>1*</sup> , R. Basili <sup>2</sup> , S. Taylor <sup>3</sup> ¹SAExploration; ²inApril AS; ³Ocean Infinity
09:35	Dual-Clock Timing Solution for Ocean Bottom Node Acquisition - B. Le Foulgoc¹*, T. GIRARD¹, D. BARBOT¹, F. BONNEAU¹, T. NORMAND¹, A. LARLET¹, A. DUBOUE¹, J. LAINE¹ ¹Sercel
10:00	<b>3C-DAS System Development and Field Test for SDAS Measurement</b> - G. Yu¹²*, Y. Rao³, Z. Ran², S. An², F. Tan², Q. Jing³, L. Meng³, J. Wang³ ¹BGP; ²Optical Science and Technology (Chengdu) Ltd.; ³University of Electronic Science and Technology of China
10:25	Morning Coffee Break
10:55	Comparing Sources and Receivers using Data from an Ocean Bottom Node Survey - S. Ronen¹, T. Allemand¹, J. Aznar¹, M. Benaniba¹, S. Darling¹, A. Duboué¹, T.K.R. Harnar Singh², P. Herrmann¹, S. Laroche¹, G. Malveau¹, J. Large¹*, N. Tellier¹, S. Shukri²¹Sercel; ²Petronas
11:20	Estimation and Application of Project-wide Coordinate, Clock-drift and Water Velocity Corrections for OBN Datab - I. Gregory <sup>1*</sup> , P. Scholtz <sup>1</sup> , R. Telling <sup>1</sup> , T. Nguyen <sup>1</sup> , J. Holden <sup>1</sup> <sup>1</sup> Shearwater Geoservices, Gatwick
11:45	Shearwater Placeholder
12:10	Discussion Session / Q&A
12:25	Lunch Break - Selections Restaurant (Seated Buffet Lunch)



### Oral Presentations | Tuesday, 25 November

Session	4 - Advan	ces in	Seabed	<b>Processing</b>	,
FWI and	Imaging	Part I			

13:25	Advancing Complex Subsalt Imaging Using Elastic FWI and Sparse Ocean-Bottom Node Acquisition - H. Xing¹*  ¹Tgs
13:50	Imaging Processing of 3D DAS-VSP Data Jointly acquired with a High-Density OBN Survey Offshore Abu Dhabi - G. Yu <sup>1*</sup> , S. Zhang <sup>1</sup> , H. Chen <sup>1</sup> , Y. Zhang <sup>1</sup> , H. Chen <sup>1</sup> , G. Cambois <sup>2</sup> , J. Cowell <sup>2</sup> , J. Mason <sup>2</sup> , M. Waqas <sup>2</sup> , X. Li <sup>2</sup> , L. Duan <sup>1</sup> , Y. Chen <sup>3</sup> , J. Wu <sup>3</sup> <sup>1</sup> BGP Inc. CNPC; <sup>2</sup> Upstream Department, Abu Dhabi National Oil Company; <sup>3</sup> Optical Science and Technology (Chengdu) Ltd.
14:15	Accelerated Beam Migration Imaging for Shallow OBN Data - A. Alzayer <sup>1</sup> , A. Alshangiti <sup>2</sup> , C. Tsingas <sup>1*</sup> , S. Zainaldin <sup>2</sup> , A. Alfaraj <sup>1</sup> ¹EXPEC Advanced Research Center; ²Saudi Aramco Geophysical Imaging Department

### 14:40 Discussion Session / Q&A

14:55 Afternoon Coffee Break

# Session 5 - Cooperation and Collaboration between Acquisition and Processing/Imaging

Part	II
15:25	<b>OBN Acquisition and FWI -</b> T. Rayment <sup>1*</sup> ¹DUG
15:50	Detailed Ultra-Shallow Seismic Imaging over a Very Large Area using High Resolution NFH Data - S. Babkina <sup>1*</sup> , O. Khakimov <sup>1</sup> , O. Andreeva <sup>1</sup> , M. Mahgoub <sup>2</sup> , G. Cambois <sup>2</sup> <sup>1</sup> Viridien; <sup>2</sup> ADNOC
16:15	The Effects of Marine Currents on Seismic Data - G. Hampson <sup>1*</sup> 1DUG
16:40	Discussion Session / Q&A
17:10	Closing Remarks by Chair/s
17:15	End of Day 3
19:00	Dinner Evening

### Oral Presentations | Wednesday, 26 November

AI D	IFAA BALLROOM
08:00	Registration & Welcome Coffee
08:30	Welcome by Co-Chairs James Wallace (BGP) & Ed Hager (Shearwater Geoservices)
	ion 6 - Advances in Seabed Acquisition
Part Session	II on Chairs: James Wallace (BGP Offshore) & TBC
08:40	Keynote 4 - What's Next for OBN/ Marine Seabed Seismic -
00.40	Ted Manning (bp)
09:10	"Deep Learning Approaches for Real-Time Quality Control in OBN Acquisition"be - R.K. Kumar <sup>1*</sup> <sup>1</sup> Rajiv Gandhi Institute Of Petroleum Technology
09:35	A Near Seafloor Modelling Study and a Multicomponent Vz Denoising Application - C. Tsingas¹* ¹Aramco
10:00	Morning Coffee Break
10:30	Innovative 4D Stategy Combining OBN Hybrid Vessel and On-Demand Philosophy - O. LAMERAIN <sup>1*</sup> ¹Totalenergies
10:55	Discussion Session / Q&A
Acqu	ion 7 - Case studies for Seabed uisitions Part II on Chairs: Ed Hager (Shearwater Geoservices) &
Acqu Session	uisitions Part II
Acqu Session TBC	uisitions Part II on Chairs: Ed Hager (Shearwater Geoservices) &  Quad Source in Middle East Shallow Waters Context - 0. LAMERAIN <sup>1*</sup>
Acqu Sessic TBC 11:25	uisitions Part II on Chairs: Ed Hager (Shearwater Geoservices) &  Ouad Source in Middle East Shallow Waters Context - 0. LAMERAIN <sup>1*</sup> 'Totalenergies  Recent Advancements in Caspian OBN Seismic - C. Cooper <sup>1*</sup> , L. Shaw <sup>1</sup> , P. Tillotson <sup>1</sup> , M. Soliman <sup>1</sup> , J. Northall <sup>1</sup> , V. Orujov <sup>1</sup> , T.A. Ibrahimzade <sup>1</sup>
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Acqu Session TBC 11:25	Quad Source in Middle East Shallow Waters Context - 0. LAMERAIN <sup>1*</sup> 'Totalenergies  Recent Advancements in Caspian OBN Seismic - C. Cooper <sup>1*</sup> , L. Shaw <sup>1</sup> , P. Tillotson <sup>1</sup> , M. Soliman <sup>1</sup> , J. Northall <sup>1</sup> , V. Orujov <sup>1</sup> , T.A. Ibrahimzade <sup>1</sup> 'bp  Lunch Break - Selections Restaurant (Seated Buffet Lunch)  Exploration OBN Survey Design - M. Cvetkovic <sup>1</sup> , M. Widmaier <sup>1</sup> , S. Baldock <sup>1*</sup> , G. Nash <sup>1</sup> , D. Brookes <sup>1</sup> , C. Udengaard <sup>1</sup> , C. Schneider <sup>1</sup> , M. Rocke <sup>1</sup> , R. Huang <sup>1</sup>
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Acquests Session TBC 11:25 11:50 12:15 13:40	Quad Source in Middle East Shallow Waters Context - 0. LAMERAIN <sup>1*</sup> 'Totalenergies  Recent Advancements in Caspian OBN Seismic - C. Cooper <sup>1*</sup> , L. Shaw', P. Tillotson <sup>1</sup> , M. Soliman <sup>1</sup> , J. Northall <sup>1</sup> , V. Orujov <sup>1</sup> , T.A. Ibrahimzade <sup>1</sup> 'bp  Lunch Break - Selections Restaurant (Seated Buffet Lunch)  Exploration OBN Survey Design - M. Cvetkovic <sup>1</sup> , M. Widmaier <sup>1</sup> , S. Baldock <sup>1*</sup> , G. Nash <sup>1</sup> , D. Brookes <sup>1</sup> , C. Udengaard <sup>1</sup> , C. Schneider <sup>1</sup> , M. Rocke <sup>1</sup> , R. Huang <sup>1</sup> 'TGS  Aramco GID Placeholder
Acques Session TBC 11:25 11:50 12:15 13:40 14:05	Quad Source in Middle East Shallow Waters Context - O. LAMERAIN!*  ¹Totalenergies  Recent Advancements in Caspian OBN Seismic - C. Cooper¹*, L. Shaw¹, P. Tillotson¹, M. Soliman¹, J. Northall¹, V. Orujov¹, T.A. Ibrahimzade¹  ¹bp  Lunch Break - Selections Restaurant (Seated Buffet Lunch)  Exploration OBN Survey Design - M. Cvetkovic¹, M. Widmaier¹, S. Baldock¹*, G. Nash¹, D. Brookes¹, C. Udengaard¹, C. Schneider¹, M. Rocke¹, R. Huang¹  ¹TGS  Aramco GID Placeholder  Afternoon Coffee Break
Acquests Session TBC 11:25 11:50 11:50 12:15 13:40 14:05 14:35	Quad Source in Middle East Shallow Waters Context - 0. LAMERAIN <sup>1*</sup> 1Totalenergies  Recent Advancements in Caspian OBN Seismic - C. Cooper <sup>1*</sup> , L. Shaw', P. Tillotson', M. Soliman', J. Northall', V. Orujov', T.A. Ibrahimzade <sup>1</sup> 1bp  Lunch Break - Selections Restaurant (Seated Buffet Lunch)  Exploration OBN Survey Design - M. Cvetkovic', M. Widmaier', S. Baldock'*, G. Nash', D. Brookes', C. Udengaard', C. Schneider', M. Rocke', R. Huang'  1TGS  Aramco GID Placeholder  Afternoon Coffee Break  Discussion Session / Q&A

### **REGISTRATION**

### (All registration rates are in USD)

Registration Fees: Workshop & Short Course



REGISTERED AND PAID	EARLY REGISTRATION 15/8/25 - 13/10/25	Regular Registration 14/10/25 - 04/11/25	Late Registration 05/11/25 - 28/11/25
EAGE Green Member <sup>1,5</sup>	1450	1700	1900
EAGE Bronze/Silver/Gold Member <sup>1,5</sup>	1290	1550	1750
EAGE Platinum Member <sup>1,5</sup>	1290	1290	1290
Non-member <sup>3</sup>	1550	1800	2000

Registration Fees: Short Course Only

REGISTERED AND PAID	EARLY REGISTRATION 15/8/25 - 13/10/25	Regular Registration 14/10/25 - 04/11/25	Late Registration 05/11/25 - 28/11/25
EAGE Green Member <sup>1,5</sup>	575	675	825
EAGE Bronze/Silver/Gold Member <sup>1,5</sup>	525	625	775
EAGE Platinum Member <sup>1,5</sup>	525	525	525
Non-member <sup>3</sup>	680	780	930

Registration Fees: Workshop Only

REGISTERED AND PAID	EARLY REGISTRATION 15/8/25 - 13/10/25	Regular Registration 14/10/25 - 04/11/25	Late Registration 05/11/25 - 28/11/25
EAGE Green Member <sup>1,5</sup>	1150	1400	1600
EAGE Bronze/Silver/Gold Member <sup>1,5</sup>	990	1250	1450
EAGE Platinum Member <sup>1,5</sup>	990	990	990
Non-member <sup>3</sup>	1250	1500	1700
EAGE Student Green Member <sup>1,2,5</sup>	375	425	475
EAGE Student Bronze/Silver/Gold Member <sup>1,2,5</sup>	300	350	400
Student Non-member <sup>2,3,4</sup>	400	450	500

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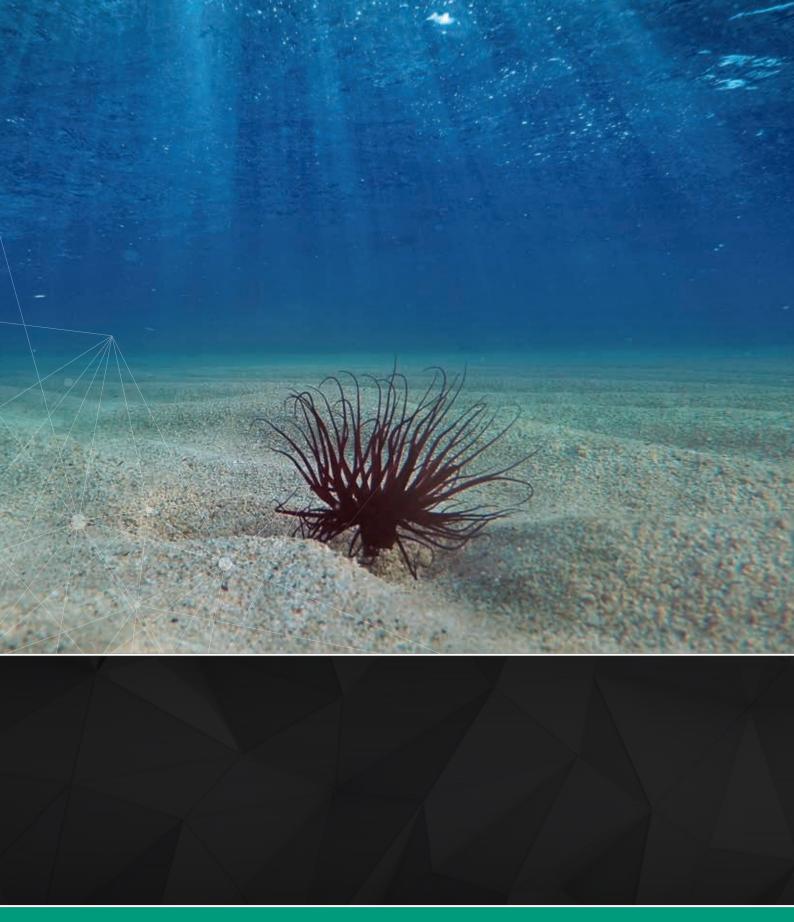


### **CONTACT**

For more information on the workshop, please get in touch with the EAGE MEA team via middle\_east@eage.org or +971 4 369 3897.



NOTES			



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