

EAGE

EUROPEAN
ASSOCIATION OF
GEOSCIENTISTS &
ENGINEERS

First EAGE Workshop on Optimizing Project Turnaround Performance

FINDING SOLUTIONS TO SIGNIFICANTLY ACCELERATE SUBSURFACE DATA DELIVERY

22-24 FEBRUARY 2021 • LONDON, UNITED KINGDOM & ONLINE

- **Workshop Brochure | Call for Abstracts**

WWW.EAGE.ORG

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ABOUT THE WORKSHOP

The First EAGE Workshop on Optimizing Project Turnaround Performance will be an event of interest to geoscientists, data scientists and computer scientists working in a variety of roles both commercially and in academia.

Reducing the turnaround time from seismic data acquisition to data analysis at the interpreter's workstation is a major focus of all businesses in our industry. This is becoming more challenging as data volumes grow and geophysical algorithms become more complex. Accelerated data delivery and analysis enables better decision making during evaluation, planning and development. Whilst exploration in frontier environments is slowing, diversity of data, whether geographical or geophysical, continues to increase.

Reverse engineering and augmentation of existing technologies, innovative algorithmic applications, artificial intelligence driven automation, data analytics, optimized approaches to computing and increases in computing capacity all offer ways to significantly accelerate turnaround.

This unique workshop will include three days of technical sessions highlighting and explaining applications and methodologies, both used and emerging within our industry, to accelerate the turnaround time for subsurface data delivery and analysis. This workshop will provide an ideal opportunity for networking with specialists from the geoscience, data science and computer science communities.

AIM OF THE WORKSHOP

The goal of seismic acquisition, processing, and reservoir characterization is to deliver reliable data for evaluating the subsurface over large areas. In recent years, new technologies have contributed to much-improved data quality; however, project duration has remained almost unchanged.

The objective of the workshop is to demonstrate and discuss examples of how the industry may significantly accelerate the time it takes for successful delivery of subsurface data. We will highlight the use of existing tools and algorithms alongside the deployment of emerging and evolving technologies from within and outside our industry.

This is the first EAGE meeting to focus on optimizing turnaround. We will address all time-consuming aspects of the subsurface data lifecycle, including the transfer of and access to data, seismic processing parameter testing, and complexity of workflows, quality control, and computer resource limitations. We will also discuss redundancies in existing seismic processing sequences, the optimal use of the data and the data redundancy in subsurface volumes, automation, and the consequences of not adapting to a changing market.

These objectives are to set the tone for serious discussion on existing applications including case studies with lessons learned, but also on how we anticipate the subsurface lifecycle will evolve as we optimize performance.



“The objective of the workshop is to demonstrate and discuss examples of how the industry can significantly accelerate the time it takes for successful delivery of subsurface data.”

TOPICS

The technical programme for this workshop will consist of oral and poster presentations covering a broad selection of topics. The committee invites abstracts on a wide range of subjects related to optimizing seismic data turnaround, including the following topics:

1. Novel Acquisition Solutions

- Can acquiring better data minimize processing efforts and decrease turnaround?
- Can optimized data lead to better decision processes and reduce the lifecycle time?
- What acquisition scenarios are achievable and cost effective, and what is their impact?

2. Data Hosting and Transfer

- What influence does the speed of receiving, accessing and sharing data have on decision making?
- What data quality is appropriate for seismic data processing?
- Is the role of compression important?

3. Parallelization and Integration of Tasks and Skills in the Project Lifecycle

- What is achievable?
- Are all processes dependent upon their preceding steps?
- Do bigger, multi-disciplinary teams speed up seismic delivery?

4. Advanced Imaging Algorithms and High-frequency Inversion Driven Model Building

- What is actually needed for field evaluation?
- Can we bypass signal processing?
- What considerations are there for cutting parts of a processing sequence?

5. Innovative Approaches to Automation in the Seismic Life Cycle

- How many processes can be fully automated?
- What approaches enable hands-off processing?
- How 'hands-off' can we, and do we want to be?

6. Pragmatic Approaches, and Transferable Technological Innovations, to Reducing Turnaround

- What can we learn from other industries?
- Are we making the most of being a data-rich industry?
- Are we all data scientists?

7. Optimized Computing Platforms and Access to Massive On-Demand Computer Resources

- What roles can they play?
- On-prem versus off-prem, which is more flexible?
- As algorithms evolve, what's the optimal computing engine?

8. The Business Perspective

- What are the main drivers?
- Where is the push coming from?



SUBMISSION GUIDELINES

The technical committee invites abstracts of two to four pages. Submissions will be accepted online via www.eage.org. Please review the guidelines on the event website before submitting your abstract.

IMPORTANT DATES

Abstracts Submission Deadline	20 November 2020
Early Registration Deadline	1 November 2020
Regular Registration Deadline	20 January 2021
First EAGE Workshop on Optimizing Project Turnaround Performance	22-24 February 2021

WORKSHOP OVERVIEW

22 February 2021	Technical Programme + Networking Reception
23 February 2021	Technical Programme + Workshop Dinner
24 February 2021	Technical Programme

LOCATION

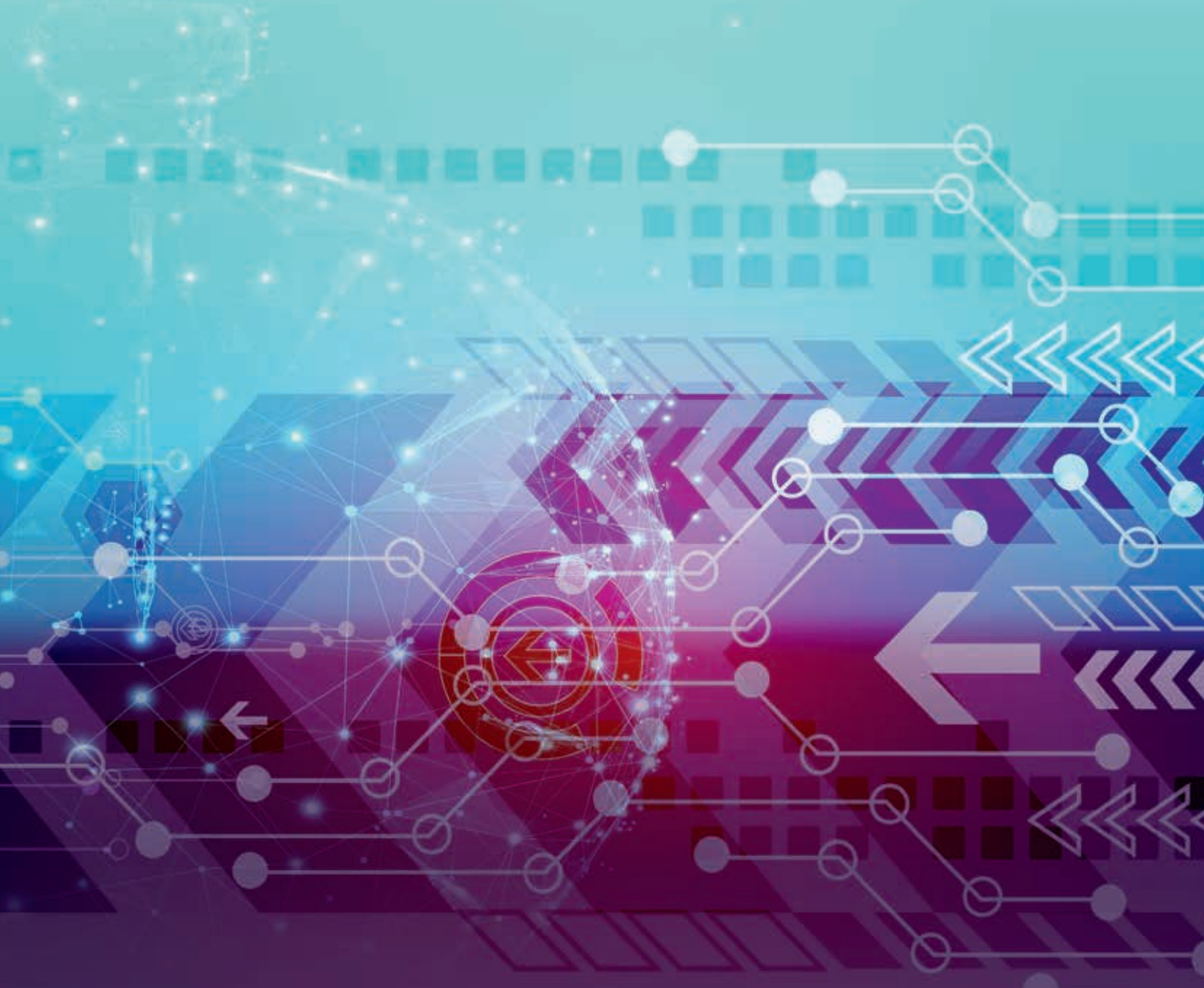
London, United Kingdom and Online.

SPONSORING

This workshop offers excellent sponsoring opportunities to create high visibility to your company. For more information about sponsoring, please visit the event website or contact us via eage.events@eage.org.

CONTACT

For any questions about the First EAGE Workshop on Optimizing Project Turnaround Performance, please visit the event website via events.eage.org or contact EAGE Europe Office at +31 88 995 5055 or send us an email via eage.events@eage.org.



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