Pannon Imaging

Where Data Turns Into Information

Corporate Overview

Pannon Imaging

About Pannon Imaging Ltd.

Our mission: Provide first-class, flexible and independent seismic imaging services to the energy industry.

Our promise: Offer impeccable service and seismic data processing expertise at an affordable rate.

Our reputation: Since 2015 we have passed tremendous savings onto our clients due to our agile Hungarian-based operations.

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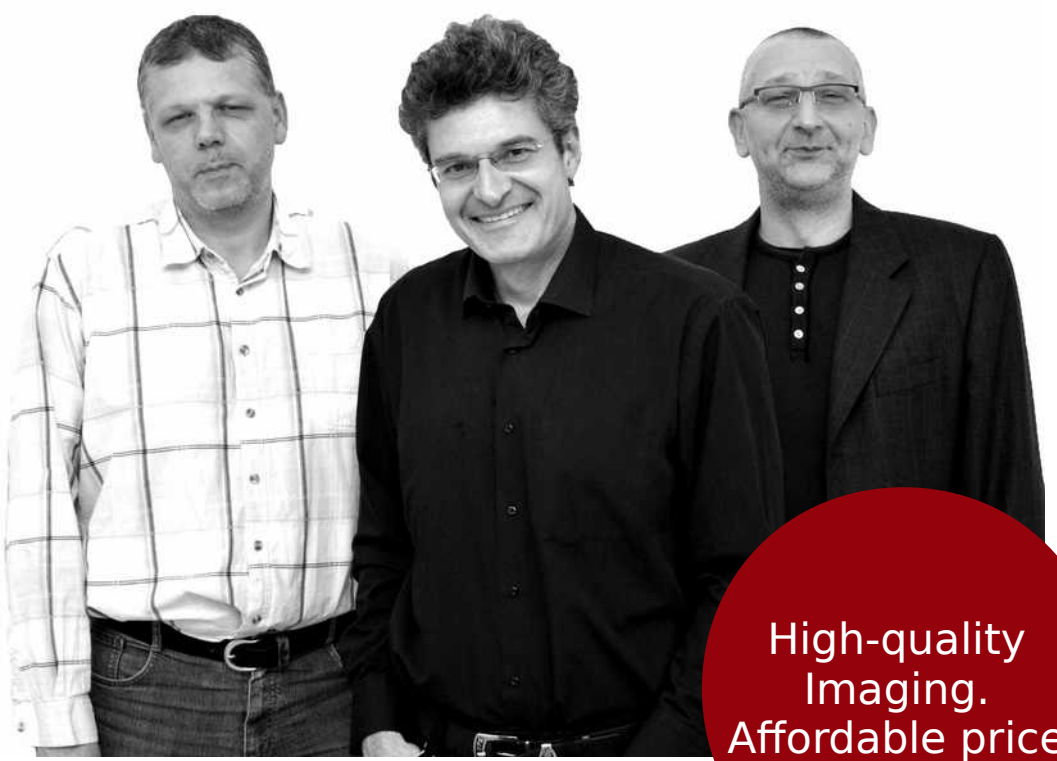
Agility: The Pannon Advantage



High-quality Imaging. Affordable price.

- Access to high-end technology
- Over 20 years of experience per geophysicist
- Exceptional quality & service

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Our Experience Since 2015

- Volume: 3,030 sq km 3D
- 730 km 2D
- 7 VSP & 1 WaVSP
- Imaging of Assets in: Hungary, Slovakia, Croatia, France, UK and Chad
- Clients Based in: US, Canada, UK, The Netherlands, France and Hungary
- Deliverables: PSTM, AVO, PSDM, and Corrupted Data Recovery

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Our Team

Dr. László Oszkó

Laszlo is our Managing Director. Before forming Pannon Imaging, he was involved in research, exploration, expeditions, education and management at various companies and institutes including Alfred Wegener Institute, Eötvös Lorand University and Geoinform Ltd. He has hands-on experience in the field just as well as in the world of computers. He is creative and determined.

László (Lacza) Németh

Lacza is our Chief Processing Officer. When it comes to seismic data processing, he is the expert in our region, but has worked on numerous projects spanning three continents with diverse leading processing software technologies during his twenty-five year career. He is reserved, hard working and meticulous.

Bence Szabó

Bence is our Chief Information Officer. He started his career as a research geophysicist at Eötvös Lorand Geophysical Institute, followed by 15 years in a wide range of IT roles such as software developer, system engineer and project manager. He combines excellent processing skills with efficient execution required for large scale projects.

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Our Services

Seismic Data Processing: We specialize in onshore 2D and 3D imaging.

Multi-client Library: Our database helps E&P teams discover new opportunities in the Pannonian Basin before the upcoming licensing round in May 2018.

Retained Services: When you are short on time, expertise or staff, we offer the flexibility to outsource your operations utilizing highly skilled explorationists in Hungary.

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The Tools of Our Trade

- Software: OMEGA2, OpendTect & QGIS
- Hardware: Dell Linux Cluster with duplicated RAID 1+0 and Linux workstations
- Overflow Capacity:
  - Cloud-based, on-demand processing capacity expansion
  - Ability to access all commercial modules

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Our Reputation

4 out of 5 clients are repeat customers

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Our Reputation

“My company, O&GD, has used Pannon Imaging for seismic reprocessing which entailed a pre-stack merge of five 3D surveys of varying vintages with a total area of **1400 sq km**. **The data are very good and drilling results have proven that amplitude preservation is excellent.** As proof positive of this, synthetic seismograms (including pre-stack) match nicely to the data. Imaging in the deeper part of the structurally complex basin is good even at 4.5 seconds two-way time, and the numerous faults are imaged crisply. I have referred to PI to colleagues from other companies and have heard equal satisfaction from them.”

Martin Olsen
Chief Geophysicist
Oil & Gas Development

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Our Reputation

“Vermillion Hungary used the services of PI in multiple projects in Croatia, Slovakia and Hungary. In Croatia, vintage 2D seismic data reprocessing and newly acquired 2D seismic data processing has been done by PI in a structurally complex area. **Reprocessing results showed clear improvement compared to previous processing versions.** In Slovakia, corrupted 2D seismic field data files have been restored before reprocessing, and it has been done professionally. The multi-client 3D seismic reprocessing idea helps interested companies evaluate upcoming concession blocks without having to invest large capital, but still have the benefit of modern technology reprocessing results.”

Bela Marton
Senior Geophysicist
Vermillion Energy

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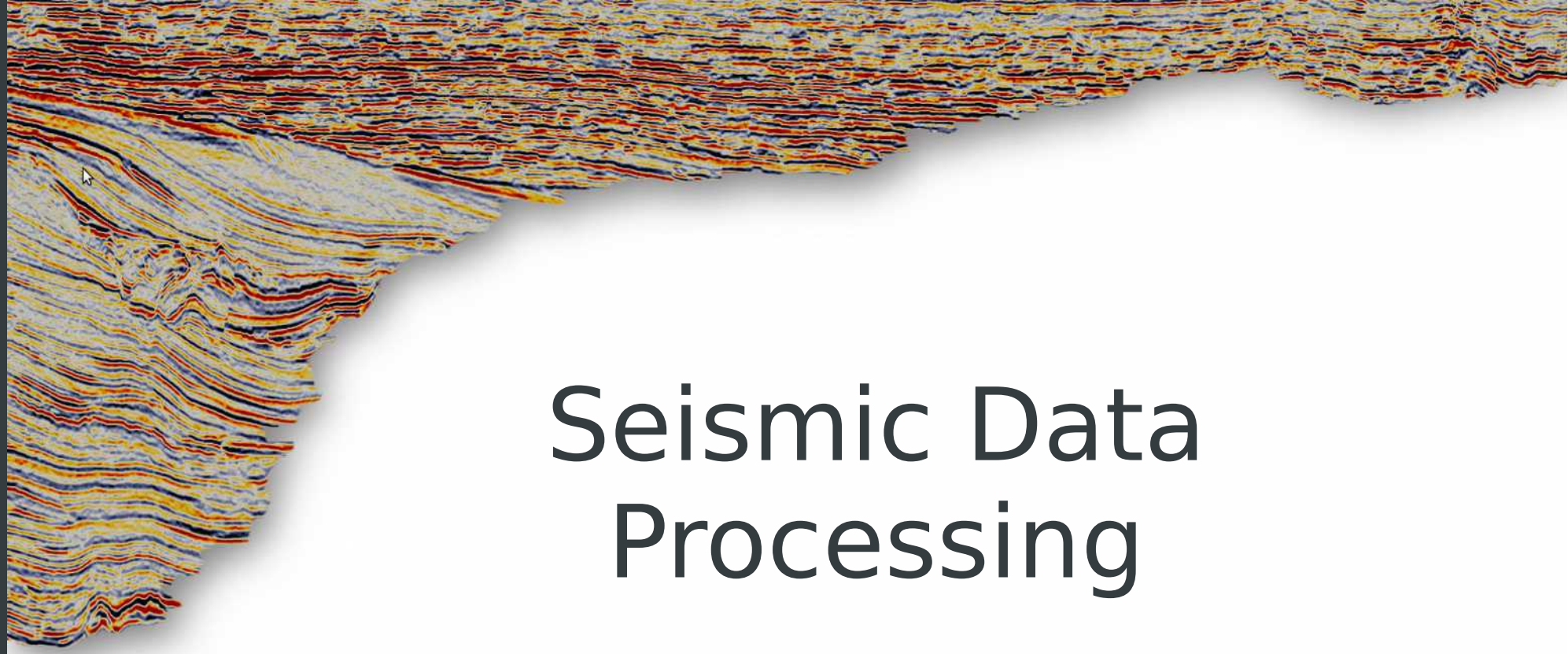

Seismic Data Processing

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Seismic Data Processing Services

- Data Input & Recovery
- Time Processing
- Depth Processing
- VSP & WaVSP
- Reprocessing

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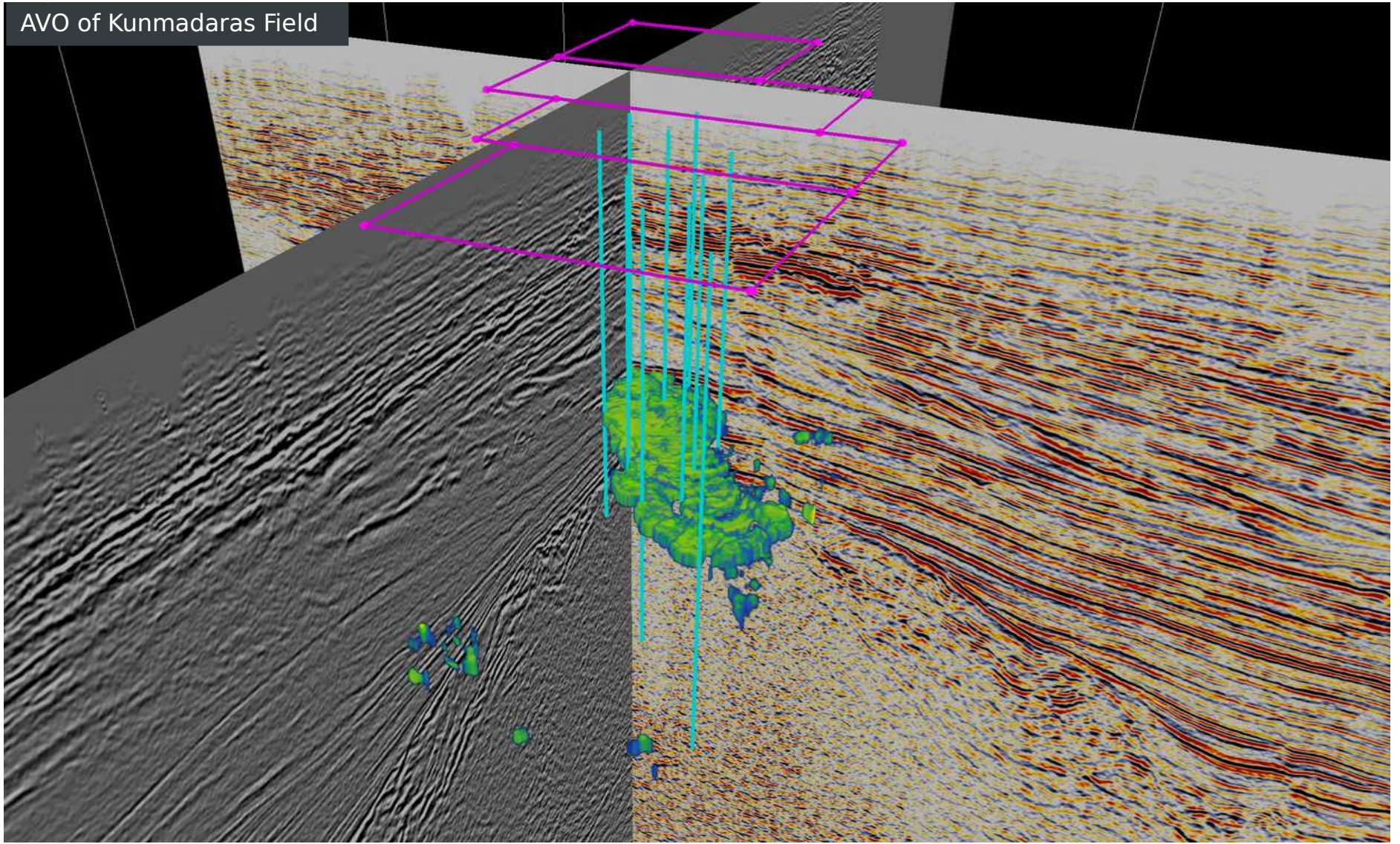
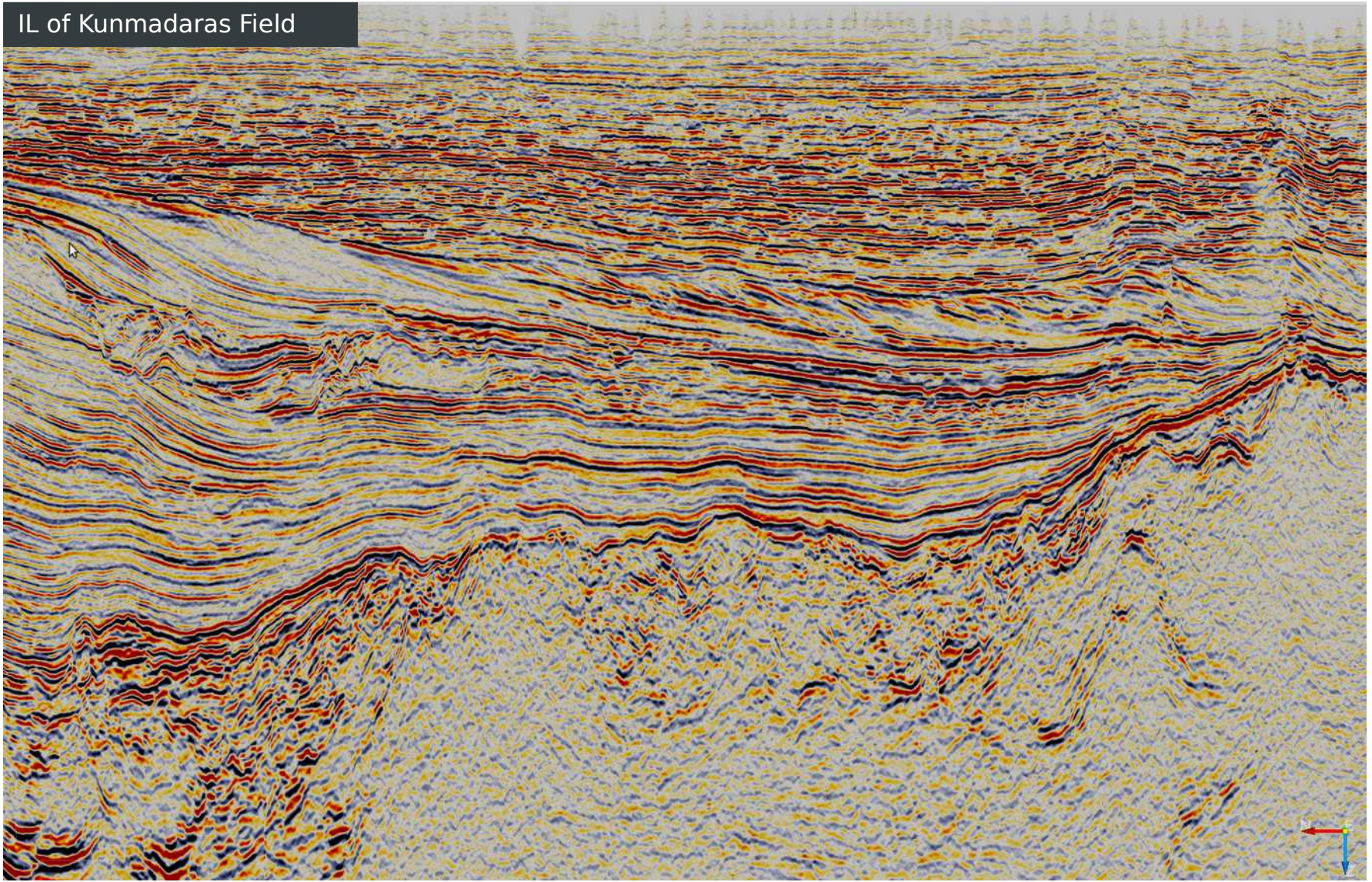
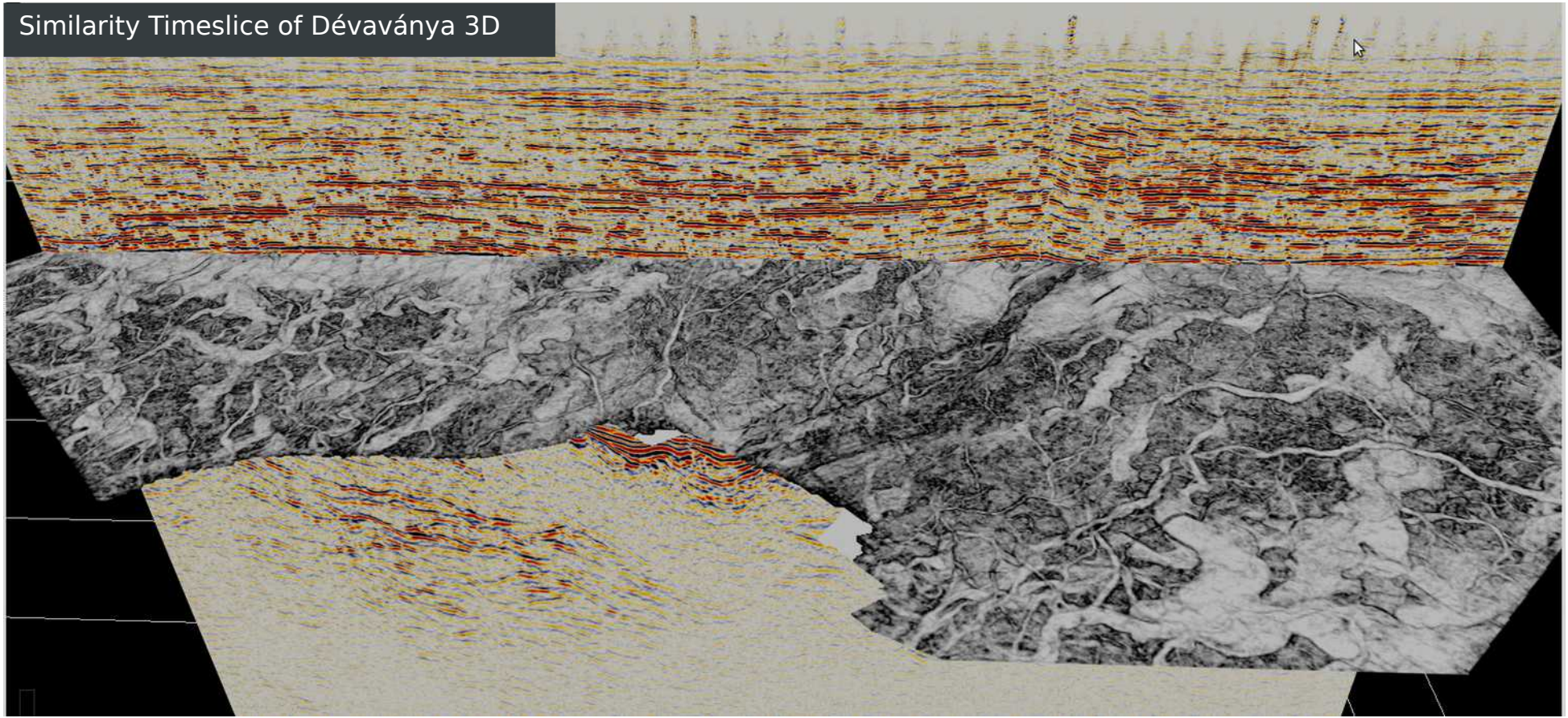

AVO of Kunmadaras Field

IL of Kunmadaras Field



Similarity Timeslice of Dévaványa 3D



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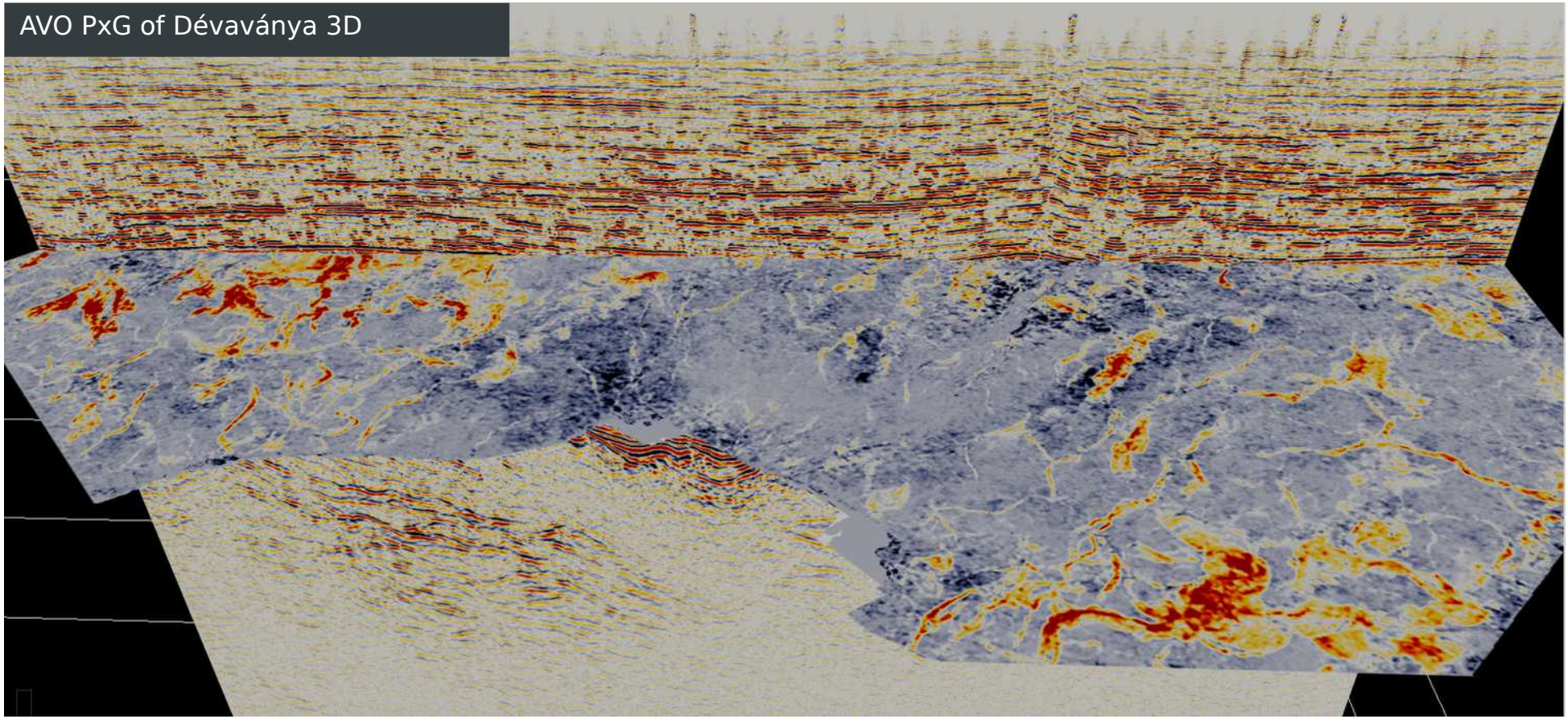
AVO PxG of Dévaványa 3D



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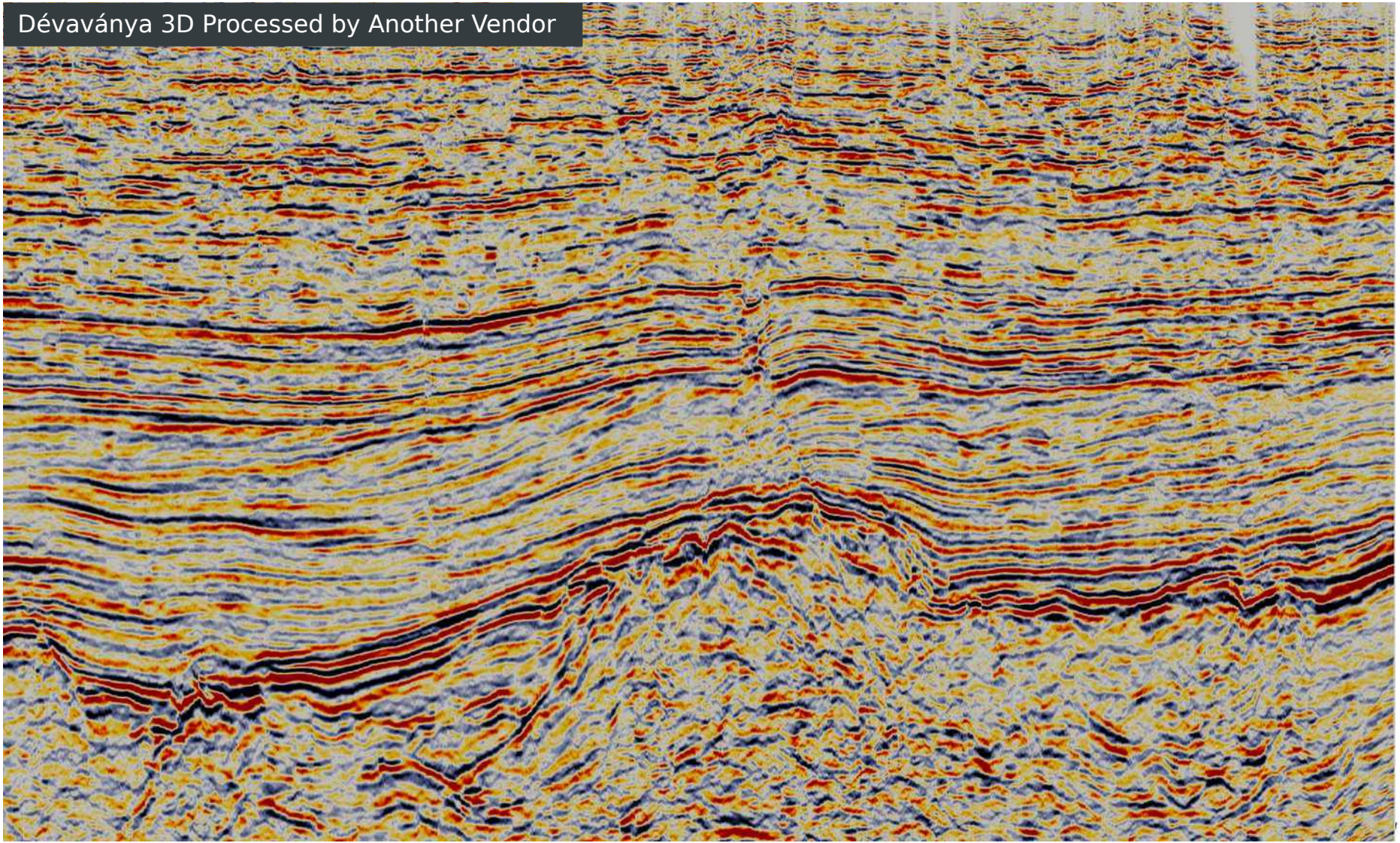
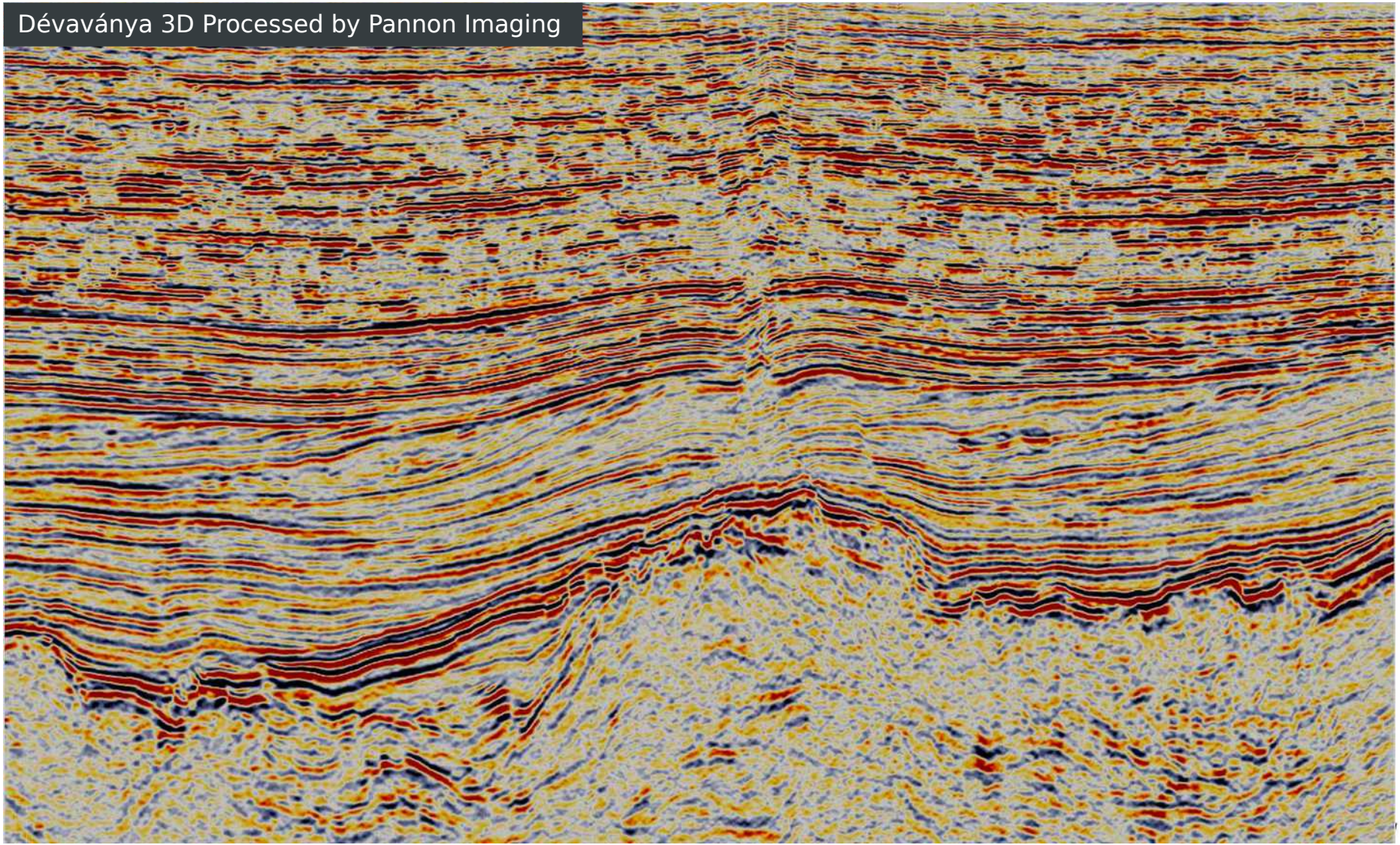

Dévaványa 3D Processed by Another Vendor


Dévaványa 3D Processed by Pannon Imaging

Multi-Client Data Processing

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Our Multi-Client Business Model

- Client Selects 3D data from our multi-client library

OR

- Client selects public domain 2D/3D seismic data
- Pannon Imaging purchases and reprocesses the data
- Data will remain the property of Pannon Imaging and will be licensed to the client

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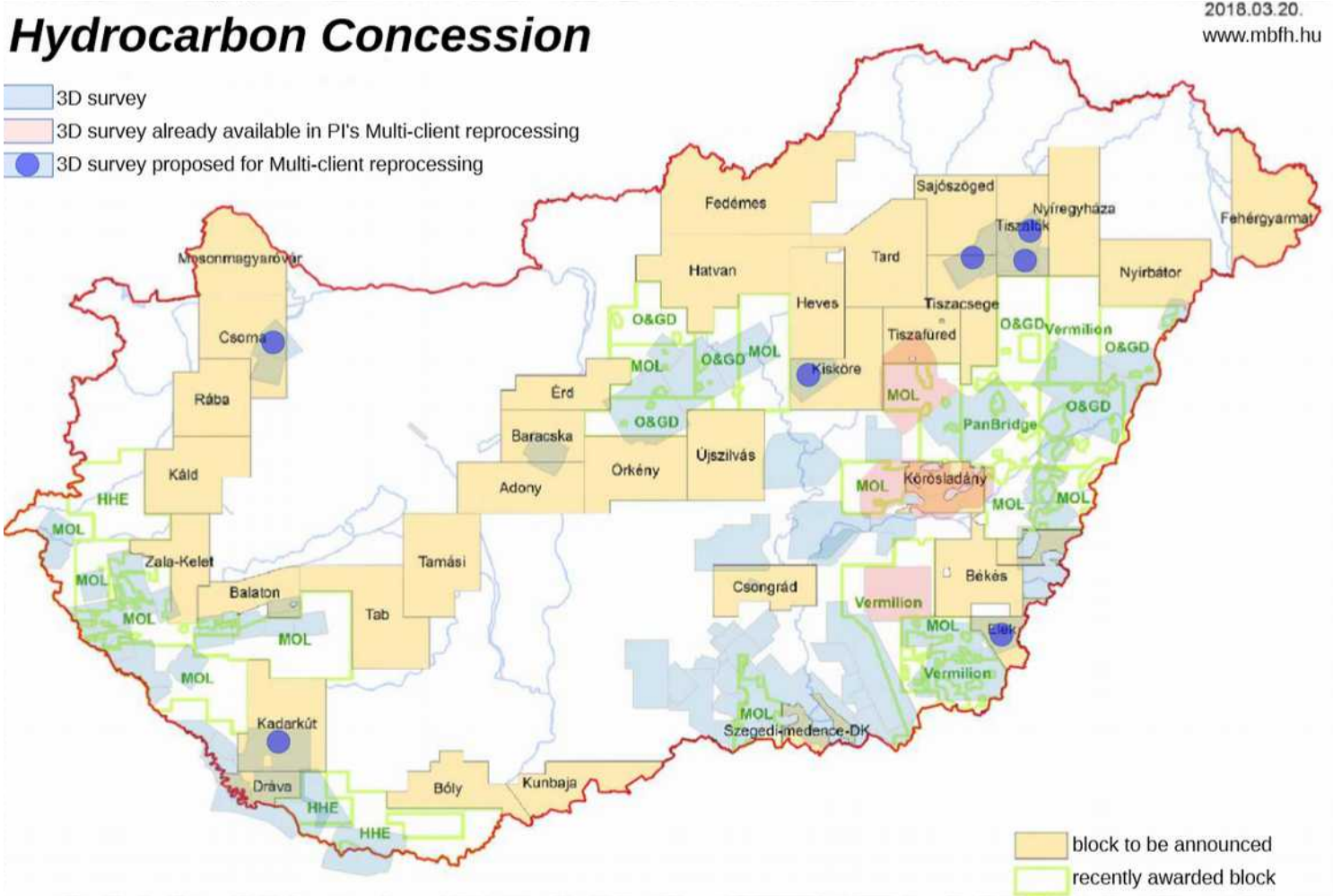
Multi-client Data Deliverables



Deliverables:

- PSTM Stack
- Gathers
- Velocities
- AVO

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Pannonian Basin Facts

- 9000+ Wells
- 120,000+ km 2D
- 100+ 3D seismic surveys; ~15,000 sq km of data
- Public domain G&G data
- Well-developed midstream infrastructure
- Stable economy & market
- Low production costs

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Pannonian Basin Exploration

- Bid rounds restarted in 2013 – upcoming will be announced May, 2018 and expected to close in September, 2018
- 2015 Mining Laws made a large portion of the seismic data publicly available
- Reprocessing the public data with the latest technology will help evaluate the block and bid more confidently

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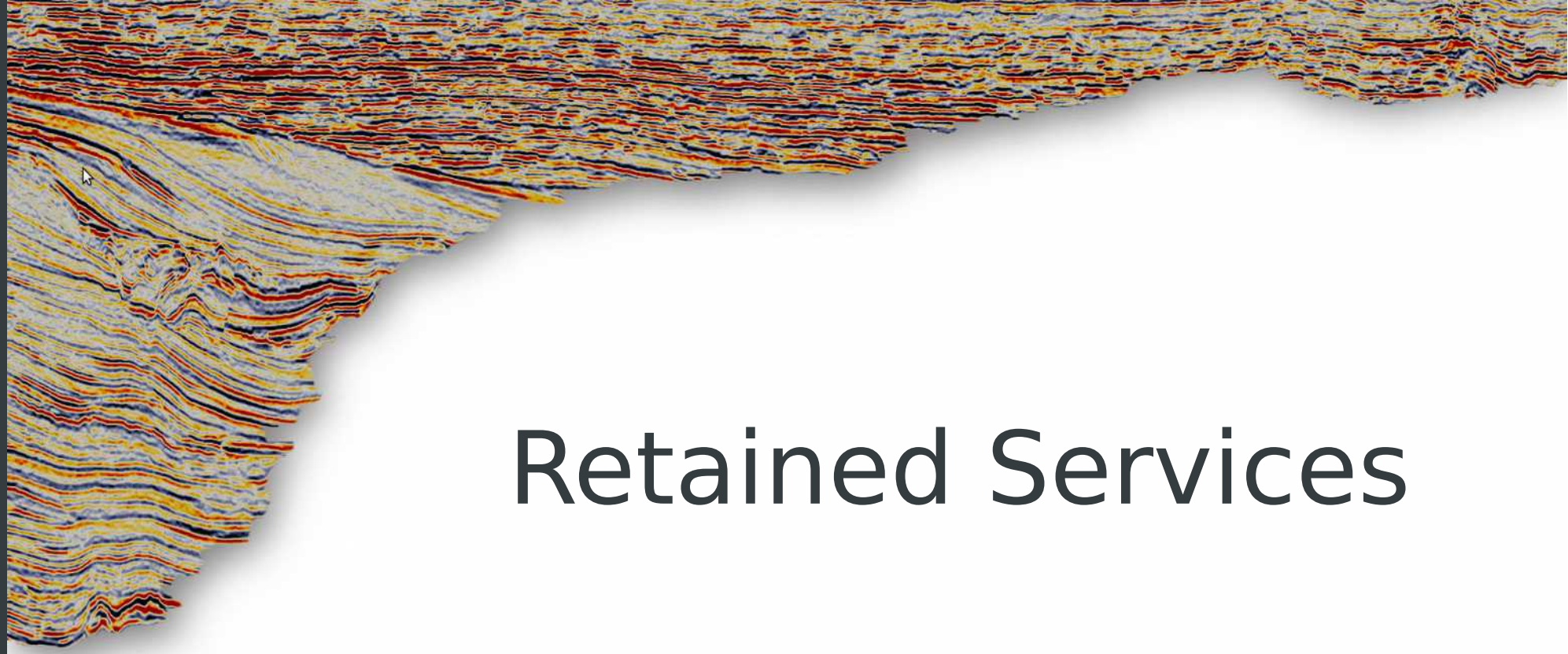

Retained Services

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Retained Services

Dedicated team of geophysicists located in Hungary working on your projects as an extension of your staff

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Retained Services Business Model

- We manage all personnel costs, employee benefits and wage administration
- We source talent from local Hungarian market
- We co-locate all geophysicists in our facilities in Hungary to reduce overhead

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Advantage to Our Clients

- Flat monthly fee
- Provides access to talent at a fraction of the cost
- Creates consistency in seismic data processing through well established workflows and stable team
- Reduces the overhead associated with managing multiple data processing vendors and tenders

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How It Works

Pannon Imaging will:

- Work with you to determine the geophysicist profiles for the the volume of projects and desired timeline
- Utilize our own or your workflows, technology and processes, depending on project requirements
- Oversee and manages the team co-located in our Budapest office on your behalf (no HR burden to client)
- If needed, establish a private, dedicated internal network and infrastructure that is independent from PI’s
- Manage the quality of the work and deliverables per your specifications and the agreement

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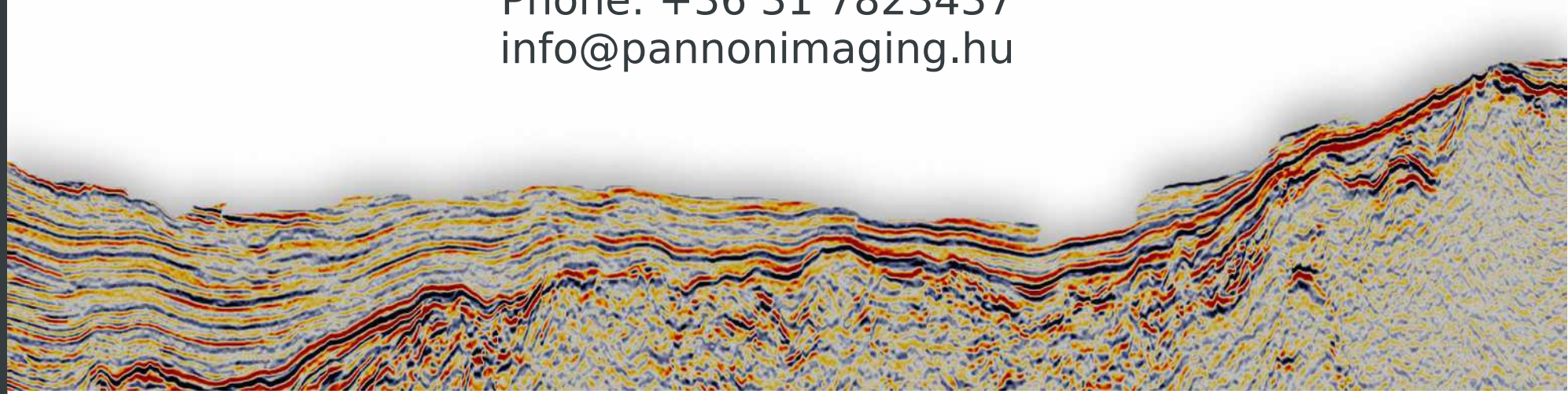
Would you like more information?

www.pannonimaging.com

Phone: +36 31 7823437
info@pannonimaging.hu



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