



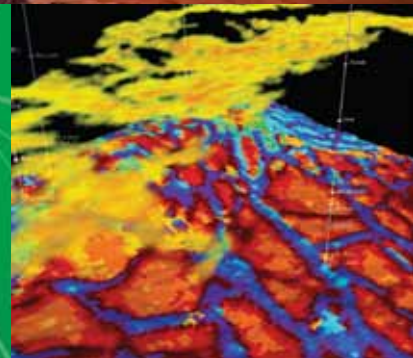
REDEFINING 

INTERPRETATION



Redefining Interpretation

To meet your challenges, now and in the future



Every few years, energy companies re-examine their commercial E&P technologies. They say they are looking for two things: Best-in-class technologies to help solve today's most daunting problems, and effective ways of integrating those tools into customized workflows that leverage the knowledge and skills of their geoscientists and engineers.

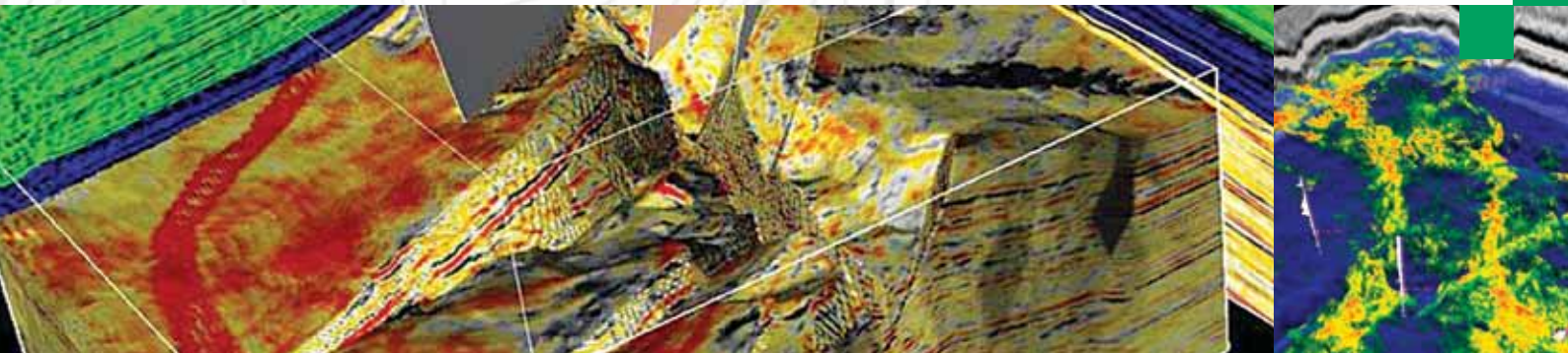
Paradigm delivers on both requests.

Based on many years of customer input and direction, our integrated offering covers all the needs of an asset team, from the processing of well data and seismic traces to the simulation-ready earth model, with interpretation available at all stages of the process.

What sets Paradigm apart? We focus on what we do best. We don't drill wells. We don't sell oilfield services. E&P software is not a sideline for us. It's our bottom line. For more than 25 years, software innovation has been our commitment to our customers. Scientifically, our technologies remain state-of-the-art .

If you are not familiar with our recent developments, why not take a closer look?

Paradigm's leadership in interpretation is the fruit of many years of design and development, including the implementation of a new framework to support iterative, multi-disciplinary workflows.



In the Paradigm solution set, interpretation takes place at all stages of geoscience workflows. Advanced processing and imaging technologies yield high-resolution data, formation evaluation is a match for the most complex environments, superior visualization capabilities reveal multiple levels of detail, automation accelerates turnaround, advanced analytical capabilities qualify and quantify rock and fluid properties, and the industry's most advanced modeling engine brings all the information together. The outcome is a verified and accurate earth model inclusive of all data.

A growing number of national and international energy companies are adopting Paradigm as their subsurface software provider of choice. Their main motivation is to obtain more information out of existing data, and more confidence in their understanding of their prospects and reservoirs. The outcome is measurable: Fewer and better wells are drilled.

In order to deliver such a radical improvement, software needs to be more than just technology and an elegant user interface. Paradigm's leadership in interpretation is the fruit of many years of design and development, including the implementation of a new framework to support iterative, multi-disciplinary workflows. Visualization, interpretation and verification are available at all stages of the process. Years of collaboration with some of the most respected thinkers in leading energy companies have resulted in a unique, powerful system that is engineered for your toughest challenges, today and in the future.

Relentless innovation

Science and software solutions that set the standard

THE RIGHT TOOLS

Paradigm has a simple philosophy when it comes to designing and improving our solutions: We listen to your suggestions, understand how you work, and build innovative answers to your most urgent problems. Our offering includes new technologies, a flexible approach to data management, and a new, homogenous user interface for improved ease of use.

The philosophy driving all of our research and development initiatives and strategic acquisitions has never changed. Many of our past innovations - Paradigm™ GeoDepth®, Geolog®, Stratimagic®, VoxelGeo® and GOCAD®, to name a few - have impacted the bottom lines of our customers for years. With over 20 recent patents dedicated to new and emerging technologies, we continue to lead in many disciplines. So our goal remains the same today: Deliver high-quality tools built on the best science. And do it on a powerful integration platform that allows all the capabilities of our solutions to work together.

IMPACT

Innovation has a purpose. We focus on delivering improved accuracy, greater productivity, more comprehensive insight into data and better visualization capabilities. An excellent example of these

qualities is embedded in Paradigm SKUA® (Subsurface Knowledge Unified Approach). SKUA recreates 3D pre-depositional models, while eliminating the fault approximations and grid cell deformations characteristic of legacy tools. It is both easy to use and fast - at least 10 times faster than other modeling solutions. When it comes to innovation, we are not resting on our laurels.

Paradigm is the first software company to offer an integrated suite of advanced E&P applications spanning geophysics, geology, petrophysics, reservoir engineering, well planning and drilling.



DATA MANAGEMENT AND INTEROPERABILITY

The Epos data management and interoperability framework provides users with a robust, scalable platform for the management of exploration and development data. Epos offers a common database, unified look and feel, and shared access to software.



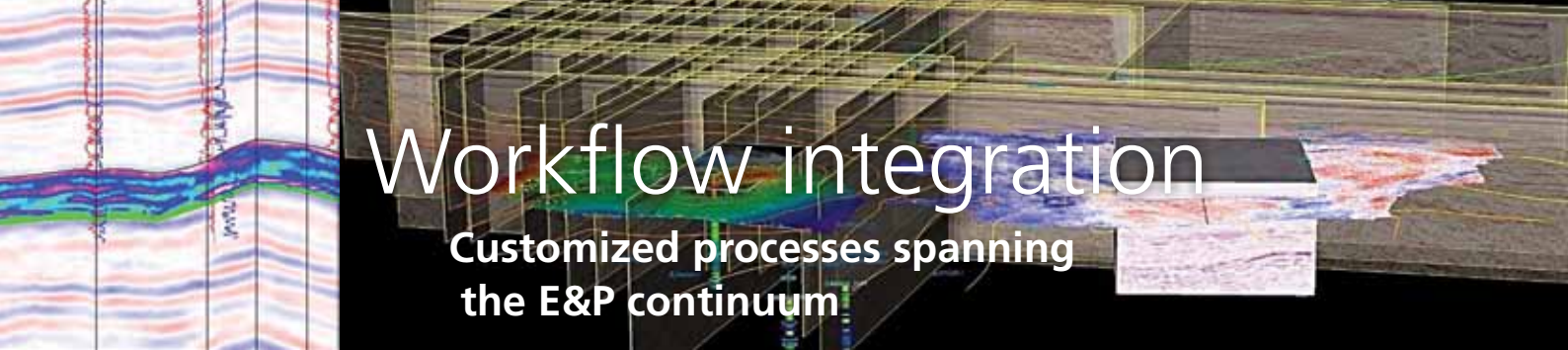
SEISMIC PROCESSING AND IMAGING

Paradigm technologies and methodologies provide a robust velocity analysis solution that can reduce positional uncertainty, improve reliability of all information derived from the seismic data, and integrate interpretation and modeling with the seismic imaging framework.



INTERPRETATION AND MODELING

Paradigm offers innovative tools to improve the productivity and accuracy of prospect maps by merging interpretation and modeling processes in a single application, and by providing automated and interactive tools that enable users to interpret and accurately model complex structures and identify stratigraphic features in a highly efficient manner.



Workflow integration

Customized processes spanning the E&P continuum

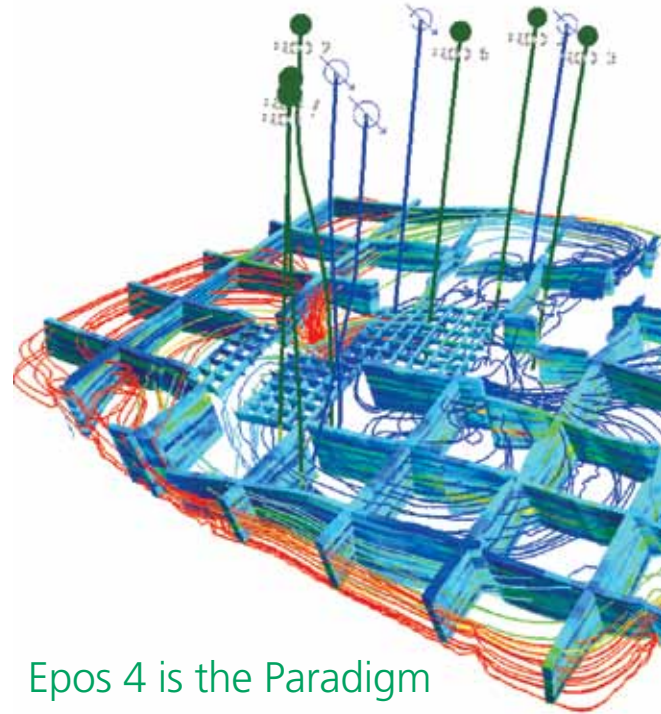
WORKFLOWS THAT ADAPT TO YOUR NEEDS

The complex workflows you are trying to carry out these days must scale from a single user to large multi-disciplinary teams, from regional objectives to prospect, from pre-stack to migrated data, and from petrophysical measurements to reservoir property models.

It is tempting to establish standard workflows for each task, to ensure that all projects of a specific nature are conducted in a uniform manner. But the reality is that each hydrocarbon play, formation and reservoir type has specific characteristics that need to be addressed. Excessive normalization of workflows can fall short in some cases.

Paradigm responds to this challenge by offering a powerful yet flexible infrastructure which securely connects many users applying diverse tools. This supports projects where a team works on multiple surveys with large amounts of data, without losing precious time or data along the way. That, in brief, is Epos® 4. It scales from a few users to your entire enterprise.

Our workflows are asset-focused and multi-domain, leveraging a uniform data integration platform and a homogeneous user interface. Examples include geosteering horizontal laterals through petrophysical models in naturally fractured shales; paleo-geochronologic modeling to guide seismic inversion in order to generate reservoir property models; and volume interpretation and modeling of turbidite systems. You get the idea.



Epos 4 is the Paradigm open, distributed data management and software integration framework. If you want custom, best-in-class E&P workflows, Epos 4 is the key.



RESERVOIR CHARACTERIZATION

Paradigm solutions enable users to transform wellbore data into answers for governing reservoir management programs and optimizing hydrocarbon recovery. Users can seamlessly connect geophysical and petrophysical data to locate and evaluate new prospects and maximize production in proven fields.



RESERVOIR ENGINEERING

Paradigm products enable users to perform pressure transient analysis, incorporate reservoir and production data analysis along with risk assessment, and then link data to reservoir simulators, to obtain high economic recovery for mature fields.



WELL PLANNING AND DRILLING

Paradigm offers a highly integrated portfolio of well planning and drilling technologies designed to help improve well planning accuracy, reduce drilling risk and optimize wellbore placement.

Paradigm is the first software provider to offer leading technology, adaptable workflows and distributed data integration, scalable to the largest organizations.



Enterprise solutions

Trade linear thinking for dynamic collaboration

Many of our current enterprise customers have come to know us through the use of one or more of our innovative technologies. Over time, they identified the Paradigm brand with technological excellence. By adopting our whole suite of geoscience tools and leveraging the flexibility of the Epos integration framework, our enterprise customers reap exceptional benefits from the most science-rich, technologically advanced geoscience solutions on the market.

Their decision was always the result of a careful evaluation process, and their choice vindicates the innovative ideas that Paradigm has pioneered, because these ideas deliver value to the bottom line: Better results, a thorough understanding of uncertainties, the ability to tackle the most complex situations, and gains in efficiency and productivity.

This is our company's sole purpose: To offer you an independent, enterprise-level alternative capable of solving your toughest problems. This means that you now have a viable option that will improve the performance of your E&P activity for years to come.

With Paradigm, you really can see more, share more, and ultimately produce more. For the first time, you have a serious alternative to the monolithic integrated suites developed by the big oilfield service companies.

Take a closer look at Paradigm.



Paradigm Training

Studies show that training provides a positive return on investment, sometimes as high as several hundred percent. Paradigm training programs are a value-added core component of your business strategy. They will enable your employees to learn how to use our products and state-of-the-art technologies to achieve your corporate objectives quickly and efficiently.

Paradigm courses are developed and taught by Paradigm-certified instructors who possess a high level of technical expertise, product knowledge and presentation skills. Download and review our course catalog at www.pdgm.com/training to identify available Paradigm courses in your region. For more information on our courses or to inquire about training at your location, contact us at Training_info@pdgm.com.

Paradigm Onsite Consulting

Paradigm software can be put to work quickly and effectively. As usage intensifies and the community of geoscientists faces new challenges, it pays handsome dividends to have onsite consultants who can guide and advise on best practices, explain optimal usage of advanced features, and provide other critical assistance.

Paradigm Implementation Support

Paradigm offers effective tools and comprehensive services to assist customers in transitioning from legacy vendors' data storage to Paradigm Epos repositories. Numerous customers have successfully transferred years of work and tens of terabytes of data, allowing them to switch off the prior vendor's licenses within a reasonable time frame.



Regional offices:

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A D V A N C E D S U B S U R F A C E S O L U T I O N S

Paradigm software enables customers to locate new oil and natural gas reservoirs, optimize production from new and existing reservoirs, and create dynamic digital models of the earth's subsurface. Paradigm software solutions include Seismic Processing and Imaging, Interpretation and Modeling, Reservoir Characterization, Reservoir Engineering, Well Planning and Drilling Engineering, and Data Management and Interoperability.

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