



Data Capture and Analytics Solutions that Accelerate Innovation in Petroleum-related Product Development

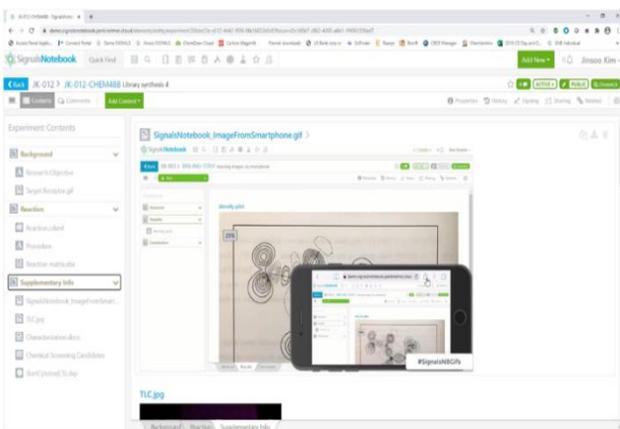


Figure 1. Store your research files in one platform for integrated access.

Better data drives better decisions, accelerating oil and gas innovation

R&D organizations involved in petroleum-related operations, including fuels and fuel additives, need access to the right data, the right way, and without delay. But making commercially viable products is time consuming if the way you handle data has not kept pace with the evolving demands of your business and marketplace.

PerkinElmer Informatics has solutions for data capture and analysis that can accelerate your product development by helping you understand the relationships between components and product performance, enabling you to make insightful decisions based on predictive modeling.

Develop products more efficiently, while reducing risk

Whether developing new formulations—or modifying existing ones—for novel lubricants or cleaner fuels, you must conduct tests and analyze results efficiently. You need to optimize your synthesis or formulation process to increase yield, decrease cost, and minimize time to market. Yet speed must be balanced by attention to quality and smart risk management, ensuring the resulting products perform precisely as planned.

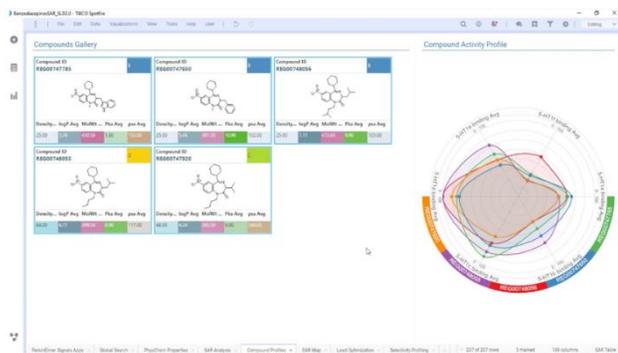


Figure 2. Visualization tools to compare formulations.

PerkinElmer Informatics' data capture and analytics solutions accelerate your R&D innovation throughout the Make-Test-Decide cycle to put your organization in the fast lane to market success.

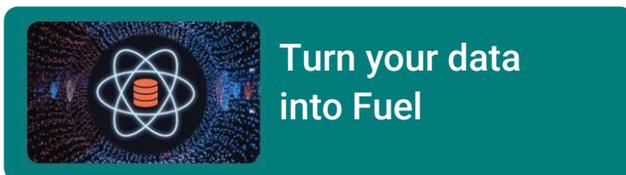
Our solutions enable you to:

- Increase efficiencies by recording experiments in a common digital platform.
- Implement leading data management techniques for real-time analysis.
- Transform data into insights with smart analytics.
- Enable multiple teams across the globe to collaborate effectively.

Power past common R&D roadblocks

As you work to develop innovative approaches to reduce emissions, maximize efficiency, and similar breakthroughs to give your company and customers a competitive edge, you must overcome six common challenges:

- 01 Cost and availability of materials 
- 02 Speed to market 
- 03 Process improvement 
- 04 Translating unmet market needs 
- 05 Intellectual property protection 
- 06 Obsolete and cumbersome software tools 



Get ahead. Stay ahead. And leave the competition behind.

In the race to market for energy innovation, you need to outperform the competition. Coming in second is simply not an option.

Join leading oil and gas companies using PerkinElmer Informatics' data capture and analytics solutions to ignite their innovation.

Take control of your data and rev up the ROI for your oil and gas sector R&D:

<https://perkinelmerinformatics.com/solutions/oil-and-gas>



Advance your projects and get your innovative petroleum and petroleum-alternative products to market ahead of the competition

Are you developing a new catalyst for a world-changing biofuel? Formulating novel lubricants for more efficient engines? Innovating low-carbon production of traditional energy products?

We understand the obstacles you face in your race to market. You need to ensure you're investing in the right formulations, collaborating effectively, and making the best decisions in the shortest amount of time with:

- A complete, consistent, and collaborative environment that meets the scientific and technical needs of your organization and users.
- Faster data capture, data processing, decision making, and material tracking.
- Significant reduction in non-value-add manual activities.
- Data analytics that enable greater flexibility to respond to market demands.
- Access to real-time raw material cost information to increase product margins
- Access to audit trails and other information related to security regulations for proof your systems and data are secure and compliant.
- Easy monitoring of who has accessed your systems, to protect your IP.
- Digitized and searchable laboratory records to assist patentability-related workflow.
- Improved business continuity, with efficient knowledge transfer in the event of job moves and attrition.

Each of PerkinElmer Informatics' oil and gas sector solutions gives you better control and use of your data so you can speed past specific information roadblocks that stand between you and your marketplace. Together, they offer an end-to-end ability to capture, manage, and analyze data so you're making the best choices at every milestone.

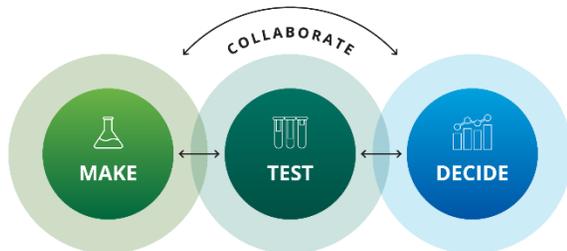


Figure 3. Make-Test-Decide innovation cycle used in product R&D.

Advance your projects and get your innovative petroleum and petroleum-alternative products to market ahead of the competition

In an industry where it is common to manage huge amounts of seemingly ambiguous data representing a diverse range of petroleum-related exploration, storage, transportation, refinement, and more – your ability to do so with a minimum of error is critical. Failure to process a single sample correctly could result in stranded investment or compliance penalties.

PerkinElmer Informatics' oil and gas sector solutions help you transform data into high-performance fuel for innovation with:

- Solutions that support the Make-Test-Decide workflows for end users.
- Integrated workflows to foster collaboration.
- Best-in-class visual/advanced analytics.
- Holistic insights from automatic data association.
- IP protection with capture of experimental narratives that are available for learning through the enterprise.
- Faster product development, with fewer failures, through collaboration and information sharing.
- Scalability from small operations to global enterprise companies.

Powerful, highly scalable, and purpose built

- A complete, consistent, and collaborative environment that meets the scientific and technical needs of the organization and users.
- Faster data capture, data processing, decision making, and material tracking.
- Data analytics that enable greater flexibility to respond to market demands.
- Access to audit trails and other information related to security regulations for proof your systems, data, and IP are secure and compliant.

Integrated solutions to keep your R&D team at peak performance

Each of PerkinElmer Informatics' data capture and analytics solutions give you the information and insights to invest in the right formulations, collaborate effectively, and make superior decisions.

Signals™ Notebook for frictionless collaboration

Improve productivity and data transparency through enhanced collaboration, improved workflows, and lab automation with the only future-proof ELN solution that covers a comprehensive set of scientific use cases, spanning chemistry, formulations, analytical testing, and more.

Signals™ Notebook manages materials use

Automate inventory management within Signals Notebook, easing user experience and accuracy as they look up, link to, and update materials required for their experiments.

Signals™ Inventa powers faster decisions

Quickly access and analyze all scientific results collected throughout the research and development lifecycle with our a next-generation data management system and fine tune your R&D performance.

TIBCO® Spotfire® fuels data-based insights

Make data-driven decisions in record time with everything you need to prioritize work in the lab, from enterprise-class visual analytics and discovery platform to predictive analytics.

ChemDraw® delivers high-performance management, reporting, and presentation

Perform quick structure searches across all chemical information and manage collections of molecules and/or reactions with their associated properties using the chemicals industry's gold standard for communicating chemistry research.

PerkinElmer Informatics
940 Winter Street
Waltham, MA 02451 USA
P: (800) 762-4000 or (+1) 203-925-4602

To contact us, visit www.perkinelmerinformatics.com/company/contact
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