WORLDWIDE LEADER IN INNOVATIVE DATA-DRIVEN ANALYTICS

ISI’s vision is to be the world leader in providing the E&P industry with solutions based on Artificial Intelligence and Data Mining (AI&DM). ISI has pioneered the application of this technology in the oil and gas industry (since 1992) and will maintain its leadership through continuous development of new and innovative data-driven technologies and state-of-the-art training, consulting and software solutions.

ISI’s scholarly activities in data-driven analytics include more than 30 peer-reviewed journal articles, 80 technical papers published in conference proceedings, 1 book, 7 book chapters, and more than 100 invited lectures throughout the world.

CONSULTING SERVICES

Solving complex E&P related problems, using alternative and integrated techniques is our specialty. Intelligent Solutions, Inc. (ISI) provides project-based, turn-key consulting services. ISI has successfully completed numerous projects for IOCs, NOCs and independents.

TRAINING SERVICES

Intelligent Solutions, Inc. (ISI) is the sole provider of training courses that is focused on application of data-driven analytics, predictive analytics, and data-driven predictive modeling in the oil and gas industry. All ISI courses include theoretical background of data-driven technologies such as Artificial Intelligence & Data Mining (AI&DM) and case studies and field applications of these technologies.
MANAGING SHALE ASSETS

The current state of numerical modeling of shale leaves much to be desired. It uses “Soft Data” such as frac half length, width, height and conductivity, or Stimulated Reservoir Volume (SRV) to match production.

ISI introduces a new technology based on advanced data-driven analytics that incorporates only “Hard Data” (lateral and stage length, number of clusters, shot density, amount of fluid and proppant to be injected as well as injection rate and pressure) to build accurate predictive production models.

SMART FIELDS

Industry has massively invested in building the infrastructure for the smart fields for real-time data collection and transmission. However, our industry lacks the means for making effective reservoir management decisions, based on analysis and modeling in real-time.

ISI has developed technologies for data cleansing, data summarization, pattern recognition, adaptive online modeling and Real-Time Reservoir Management (RTRM).

SURFACE FACILITY MODELING

The importance of surface facility operations to a healthy production cannot be overemphasized. Today, we rely on empirical equations that have been developed from observations in the laboratories and field examples.

ISI has developed data-driven approach to model and de-bottleneck the surface facilities operations. This technology has been successfully applied to Prudhoe Bay to dynamically model the fluid flow through wellbores, pipes, gathering systems, and compressor stations.