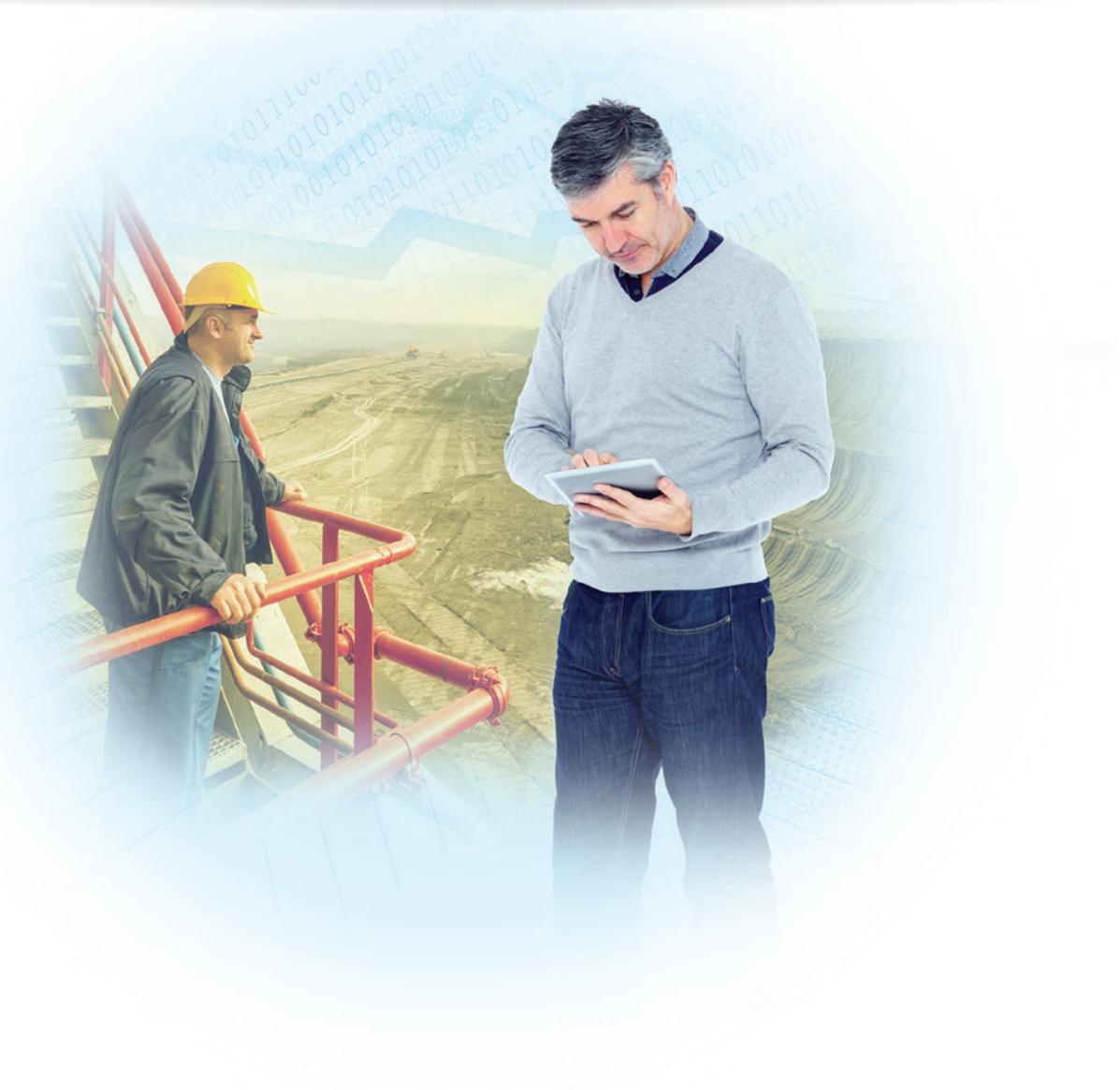




3DEXPERIENCE®

NATURAL RESOURCES **INTEGRATED MINE PLANNING**



EFFICIENTLY DEFINE YOUR RESERVES AND DELIVER INTEGRATED PLANS

In today's mining industry, you need to get the operating model right to hold the line on costs and increase productivity if you want to be confident that your return on investment (ROI) objectives will be met. But getting there requires that your planning process is accurate, economically aware and agile. With Dassault Systèmes' **Integrated Mine Planning** Industry Solution Experience, it can be.

Integrated Mine Planning integrates geological data discovery, planning and scheduling of mining activities. With it, you have the ability to iteratively produce up-to-date resource models and executable plans and schedules to deliver higher predictability and peak financial performance. **Integrated Mine Planning** enables you to realize expected ROI, keep production on track and reduce risk and uncertainty.

BENEFITS

- Develop accurate 3D geological models of mineral deposits
- Generate financially sound, high level practical plans which can be expanded into detailed mine designs that account for geomechanical constraints
- Optimize mine plans to maximize economic return
- Link strategic mine plans that seek to optimize economic return with real world production plans
- Schedule production plans for earth moving and extraction over multiple time horizons: years, months and days
- Run risk analysis and "What If" scenarios throughout the entire planning process to understand impacts of possible changes in demand and commodity prices
- Apply timely updates to production schedules based on updated geological models, production issues and demand

IMPROVED COLLABORATION

Integrated Mine Planning breaks down the barriers between corporate offices and remote locations, and between functional areas, such as geology and engineering. Truly collaborative decision making can now be achieved, powered by on-demand access to the right data. This saves significant time and allows more options to be examined as planning, analysis and optimization workflows are integrated and continuity of data is gained across all planning time horizons.

ENHANCED VISIBILITY

Integrated Mine Planning delivers rich data visualization of models, plans and schedules, providing a superior understanding of each process. Workflow standardization, including defined review and approval procedures, allows for consistent, repeatable processes to be defined. This increases confidence in the planning process and allows best practice knowledge to be captured and maintained.

INCREASED PRODUCTIVITY

Integrated Mine Planning provides an end-to-end feedback loop through horizontal integration across disciplines, making planning more accurate. With this, you can integrate data from multiple sources to develop your mine plans, incorporating insights from dynamic simulation modelling and other techniques to identify the ones that will generate the most value.

Integrated Mine Planning also brings agility to the planning process by allowing you to rapidly adapt to variable commodity prices and demand. Economic awareness through integration of Operations and Finance adds an additional layer of confidence that account for changes in operations and the real-time financial impact they have.

Finally, a unique level of agility is achieved with continuity from strategic planning to short-term scheduling, enabled through vertical integration across time. This enables you to deliver schedules that reduce variation and increase asset performance, adapting them to real-time feedback from operations data and live drilling results.

PROCESSES FOR INTEGRATED MINE PLANNING

Integrated Mine Planning Industry Solution Experience includes the following processes:

- Visual data discovery
- Resource Modeling
- Mine Design
- Mine Planning
- Mine Planning Simulation

Our 3DEXPERIENCE® platform powers our brand applications, serving 12 industries, and provides a rich portfolio of industry solution experiences.

Dassault Systèmes, the 3DEXPERIENCE® Company, provides business and people with virtual universes to imagine sustainable innovations. Its world-leading solutions transform the way products are designed, produced, and supported. Dassault Systèmes' collaborative solutions foster social innovation, expanding possibilities for the virtual world to improve the real world. The group brings value to over 210,000 customers of all sizes in all industries in more than 140 countries. For more information, visit www.3ds.com.

