



DATA ACCESS AND USAGE  
WORKING GROUP

# DATA EXCHANGE FOR MINE SOFTWARE: THE OPEN MINING FORMAT

The Open Mining Format will eliminate the time required for manual and convoluted data transfer across the mine site. It aims to enable

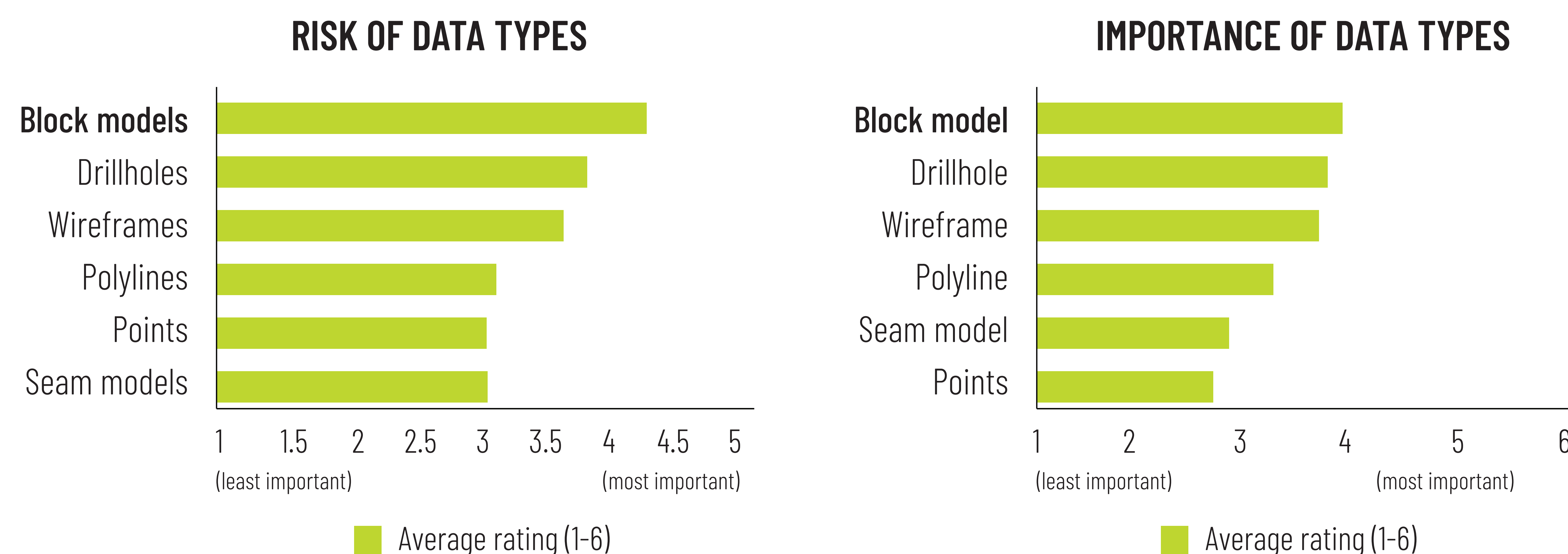
different information technology systems and software applications to connect, communicate, exchange and apply data across the mine.

OMF was developed to enable seamless and reliable transfer of data between mine software packages, which enables major efficiency gains by eliminating the time required for manual and convoluted data transfer across the mine site. Version 1 was developed last year to demonstrate the concept's validity. The Data Access and Usage Working Group conducted a survey in August that was designed to

collect input from mining companies and other stakeholders across the mine cycle to gain a thorough understanding of pain points and requirements and to direct the focus for Version 2.

**OMF Version 1.0 is available on GitHub.**  
**Version 2 development to be completed in 2019.**

## 2018 Users' Survey: Defining the OMF Priorities



## OMF Priorities

1. Supports Coordinate Reference Systems (CRS)
2. Allows the data to be structured by type/metadata
3. Maintains the attributes on graphical entities
4. Supports layers/groups
5. Offers units of measurement support
6. Maintains colour on graphical entities
7. Provides a range of supported styles
8. Maintains other figure properties
9. Improvement of texturized features support

## DEMOGRAPHICS

256 respondents | 70+% Mine Operators

**Mining companies use multiple applications to manage and manipulate their 3D models. The models need to move...**

- Between different users on the same team, using different applications for different purposes.
- Between different teams using different applications, suited to their specialty.
- Outside the company to consultants and vendors, and back again.

**The tools need to support the user, not the other way around.**

## NEXT STEPS

### Engagement

- Ensure priority vendors participate and implement, based on mining company requests.
- Continue development of partnerships with key industry organizations and to monitor for alternative solutions for data exchange across mine software.

### User story list

- Develop bank of use cases and case studies to demonstrate value and opportunities.

### Development

- In 2019, development of OMF Version 2.0 in GitHub, focusing on priority areas.

### Communication

- The success of this type of tool is based on industry momentum. A renewed communications strategy throughout 2019 will target clarity of purpose and factual information about the OMF for mining companies and other stakeholders.

## PARTICIPATING COMPANIES

ACQUIRE TECHNOLOGY SOLUTIONS, ALFORD MINING SYSTEMS, ANGLO AMERICAN, ANGGOLD ASHANTI, ARCELORMITTAL, AUSTMINE, AVEVA, BARRICK GOLD, BHP, CANADIAN NATURAL RESOURCES, CHECKMARK CONSULTING, DASSAULT SYSTEMES, DATA MINE SOFTWARE, DESWIK, EPIROC, FLANDERS ELECTRIC, FLOW PARTNERS, FREEPORT-MCMORAN, GEOMODELR, GEOSOFT, GLOBAL IO, GLOBAL MINING DESIGN, GOLDCORP, HEXAGON MINING, IBM, IGS (INTERNATIONAL GEOSCIENCE SERVICES), IMAGO, JVA, KINROSS GOLD, LOCKHEED MARTIN, MAPTEK, MASTERCONTROL, MINE VISION SYSTEMS, MINERA YANACOCHA, MINERP, MINING INFORMATION SYSTEMS, NEWMONT, OBJECTIVITY, ORICA, OSISOFT, PBE GROUP, PEABODY ENERGY, PRAIRIE MACHINE & PARTS, RIO TINTO, RPM GLOBAL, SEQUENT, SIBANYE-STILLWATER, SIEMENS, SSR MINING, SYMBIOTIC INNOVATIONS, TECK, TRACKVIA, TRIMBLE, UNIVERSITY OF QUEENSLAND, VALE, VERTEX BLAST, VUMA 3D, WIPRO