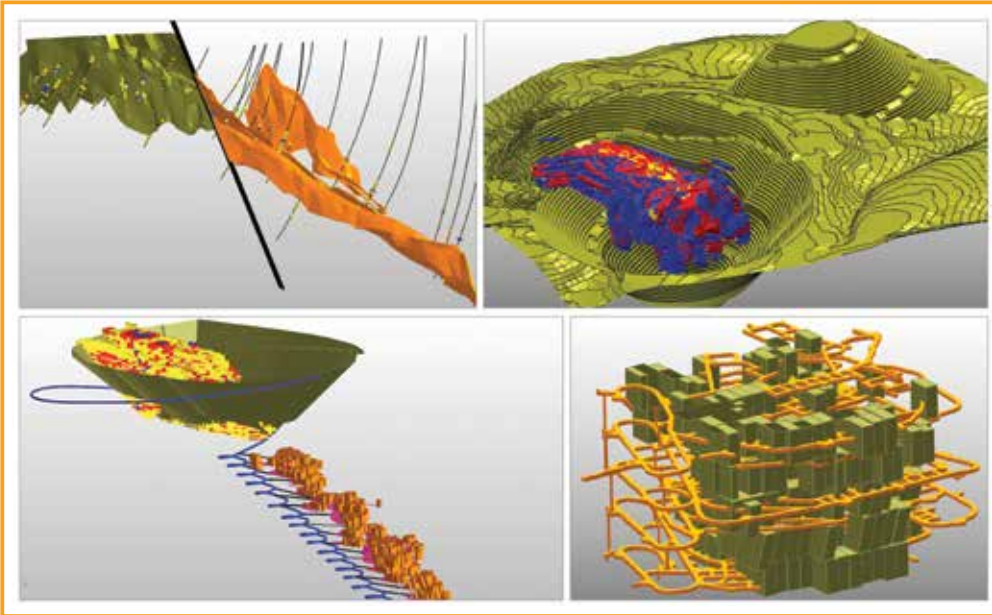## ABOUT THREEDIFY

ThreeDify Inc. offers next-generation high-performance mining software solutions to unlock the economic potential of our client's projects worldwide. Our mission is to empower our clients to turn data into insights, respond to project changes quickly, and improve efficiency, profitability and sustainability.

GeoMine™

EFFICIENCY   PROFITABILITY   SUSTAINABILITY

THREEDIFY

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THE ONLY ALL-IN-ONE PLATFORM

For Rapid Resource Evaluation, Reserve Optimization, Mine Planning And Simulation

High-Performance Tools To Handle Big Data Sets

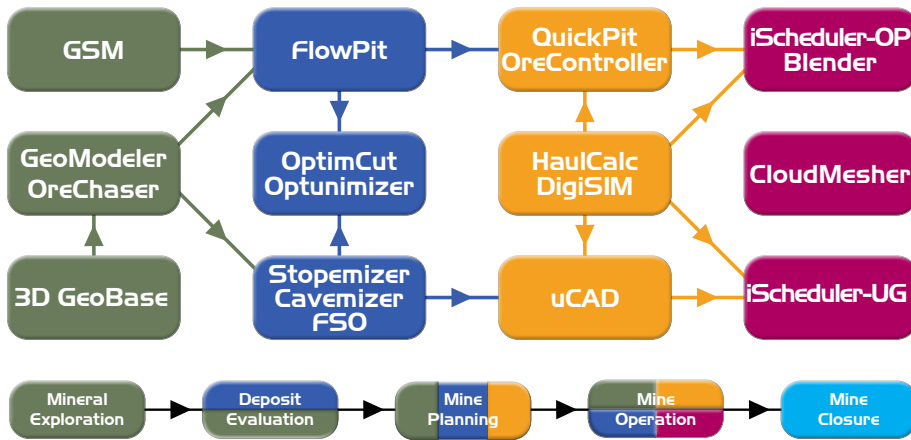# FOR MINES OF EVERY TYPE, METHOD AND COMMODITY

www.threedify.com

GEOMINE
Solutions for Open-Pit and Underground Mining

Workflow diagram:
- GSM → FlowPit → QuickPit OreController → iScheduler-OP Blender
- GeoModeler OreChaser → OptimCut Optunimizer → HaulCalc DigiSIM → CloudMesher
- 3D GeoBase → Stopemizer Cavemizer FSO → uCAD → iScheduler-UG

Process flow:
Mineral Exploration → Deposit Evaluation → Mine Planning → Mine Operation → Mine Closure

The Competitive Advantages of
GEOMINE

- **GeoMine** is the best in class in handling big datasets with speed and accuracy for robust "what-if" scenario analyses. GeoMine can create resource models in a universe with a record-breaking size that is **over 1000 times larger than the 1 billion blocks** offered by traditional mining software packages.

- **GeoModeler's** state-of-the-art surface based Dynamic Anisotropy interpolation system helps geologists improve accuracy of their resource estimates.

- **OreChaser** helps geologists plan drillholes and intelligently uplift resources with its AI-based infill drilling optimizer.

- **FlowPit** is much faster than other pit optimizers in the market and it can handle 100 million non-air blocks without use of super-blocking.

- **Stopemizer** and **FSO** feature a mineable shape optimizer (MSO) for underground deposits of all types that minimize dilution and ore loss while respecting the essential geometric and geotechnical constraints.

- **OreController** utilizes 3D blast movement modeling and sequencing to minimize dilution and ore losses for bench mining.

GEOMINE MODULES

- ‣ **GeoModeler** - powerful resource modelling & estimation tools
- ‣ **OreChaser** - drillhole planner & infill drilling plan optimizer
- ‣ **FlowPit** - high performance pit optimizer
- ‣ **QuickPit** - incremental and parametric pit designer
- ‣ **Stopemizer** - stope and mineable shape optimizer (MSO)
- ‣ **Cavemizer** - cave optimizer & parametric designer
- ‣ **FSO** - flat shape optimizer for room & pillar/bord mining
- ‣ **uCAD** - specialized 3D underground mine design toolbox
- ‣ **iScheduler** - strategic and tactical mine scheduler
- ‣ **OreController** - grade control with blast movement modeling
- ‣ **HaulCalc** - integrated haulage analysis & fleet budgeting
- ‣ **DigiSIM** - 3D haulage and supply chain simulation
- ‣ **Optunimizer** - open-pit to underground transition optimizer
- ‣ **OptimCut** - cut-off grade optimizer
- ‣ **Blender** - ore and stockpile blender
- ‣ **CloudMesher** - point cloud meshing toolbox
- ‣ **GSM** - modelling & design tools for stratified deposits

All-In-One Solution:
Avoids error-prone import/export and switching between multiple software packages.

Handle Big Data Sets:
Enables fast and accurate mine planning on large and disparate data.

Intuitive Workflow:
Easy to learn and use.

Formula Approach:
Flexible to handle all deposit types, commodities and mining methods.

ALL-IN-ONE SOLUTION
HANDLES BIG DATA SETS
INTUITIVE WORKFLOW
FORMULA APPROACH