



Optimization and Simulation for the Mining Industry  
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OptiSim Mining Solutions

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## CAPABILITIES STATEMENT

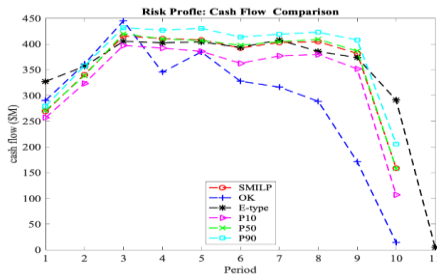
### ABOUT OPTISIM

OptiSim Mining Solutions provides training and consulting services in mining engineering to support existing and new mining operations in unlocking intrinsic resource potential. At OptiSim, we deploy fundamental and advanced techniques in risk-based mine optimization, simulation of mining systems and mine reconciliation to add value to your business. We work with you to provide technical support that helps you to make better business decisions for optimum resource exploitation and governance.

### CORE COMPETENCES

OptiSim has experienced and certified senior professionals in the mining industry, with over three decades of experience and are able to provide consultancy, training and research services in:

- Strategic Integrated Mine Planning and Waste Management Optimization;
- Mine Simulation Optimization;
- Mine Reconciliation Studies.



$$\text{Max} \frac{1}{S} \sum_{s=1}^S \sum_{t=1}^T \sum_{a=1}^A \sum_{u=1}^U \sum_{n=1}^N \left( \frac{V_{n,s} \times X_n - G_{n,s} \times V_n}{(1+r)^t} \right) - \left( \frac{p_{n,s}^{u,t} \times j_{n,t}^{u,t} + m_{n,s}^{u,t} \times c_{n,t}^{u,t} + h_{n,s}^{u,t} \times R_n^{u,t}}{(1+r)^t} \right) - \left( \frac{pc_{ot}^t \times odev_{z,+}^t + pc_{o-}^t \times odev_{z,-}^t}{(1+dgeo)^t} \right) - \left( \frac{pc_{g+}^t \times gdev_{z,+}^t + pc_{g-}^t \times gdev_{z,-}^t}{(1+dgeo)^t} \right)$$

### RECENT PAST PERFORMANCES

#### Professional Development Workshop – 2021

Clients: Gold Fields Ghana – Tarkwa and Damang Mines | Endeavour Mining – Riverstone Karma Mine | Newmont Ghana – Ahafo Mine | Perseus Mining – Edikan Mine | Dundee Precious Metals – Corporate Office  
Service: Mine Optimization Training

#### Professional Development Workshop – 2019

Clients: Gold Fields Ghana – Tarkwa and Damang Mines | Endeavour Mining – Agbaou Mine | AngloGold Ashanti – Iduapriem Mine | Perseus Mining – Edikan Mine.  
Service: Mine Optimization Training  
Software: GEOVIA Whittle, Excel Solver



### FEATURED CLIENTS

Over the years in providing mining solutions, we have worked with the following clients:

- Gold Fields Ghana
- Perseus Mining Limited
- Endeavour Mining

### PARTNER & ASSOCIATIONS

OptiSim Mining is an educational partner of Dassault Systemes and a corporate member of WAIMM



West African Institute of Mining, Metallurgy and Petroleum