

Mining 4.0 through Digital Solutions

Cutting-edge solutions

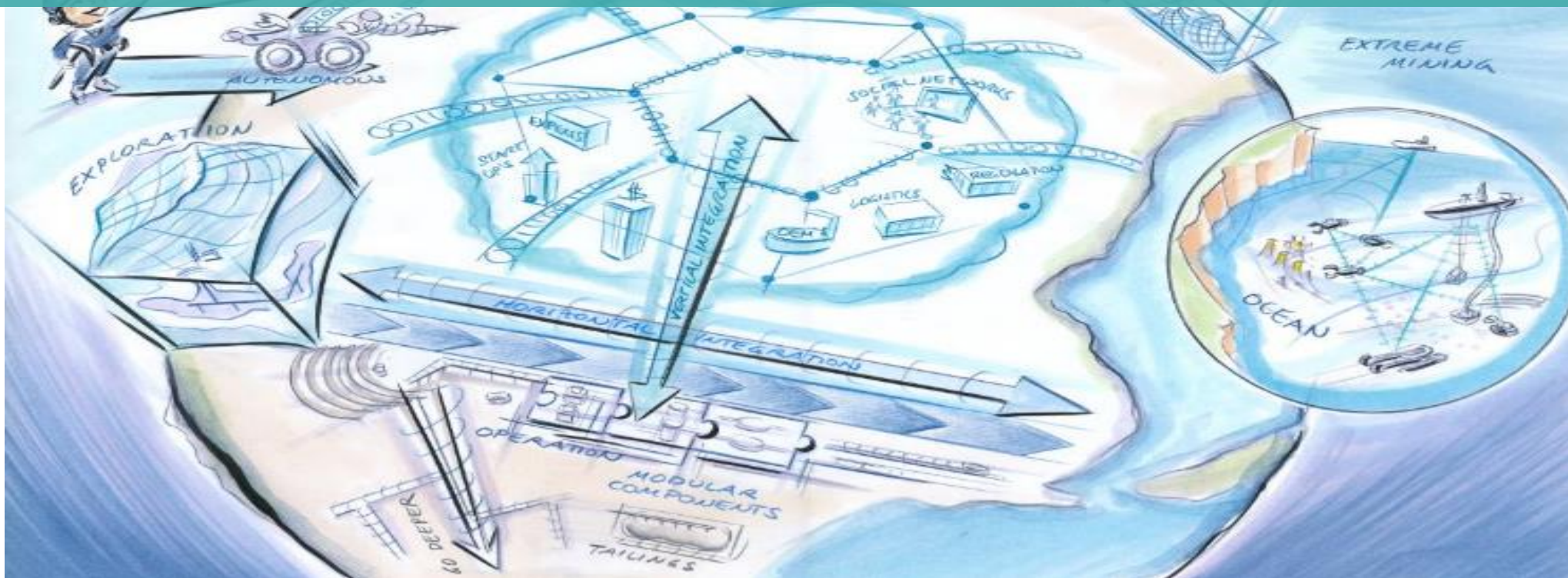
Mine of the Future

Major challenges and trends

SIEMENS

Ingenuity for life

Digitalization is the major key for increasing cost-efficiency and automation of operations and processes in the mining industry, especially in hazardous and hard to reach environments.

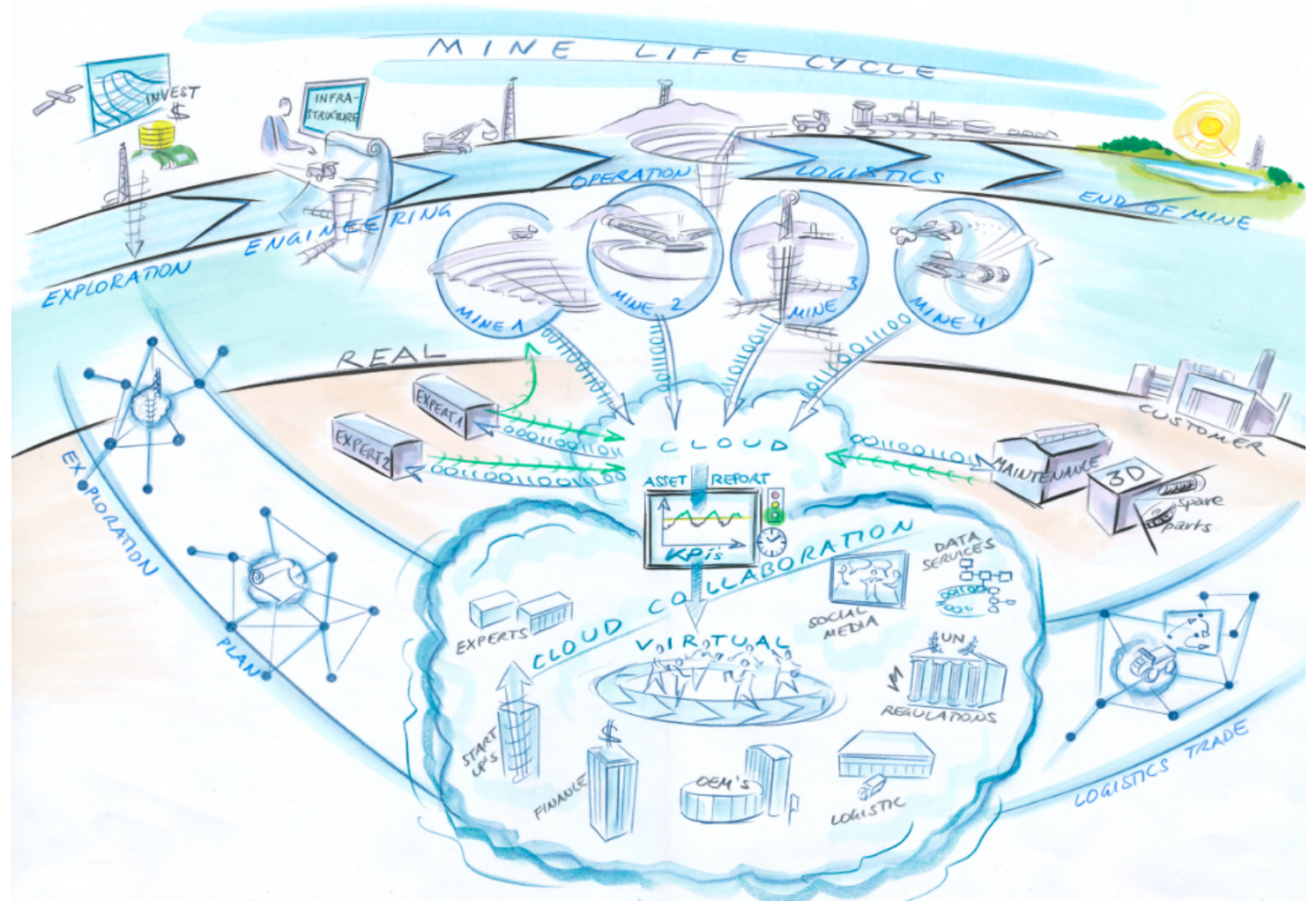


Pictures of the Future – Mining

Key topic | Value Mining Networks

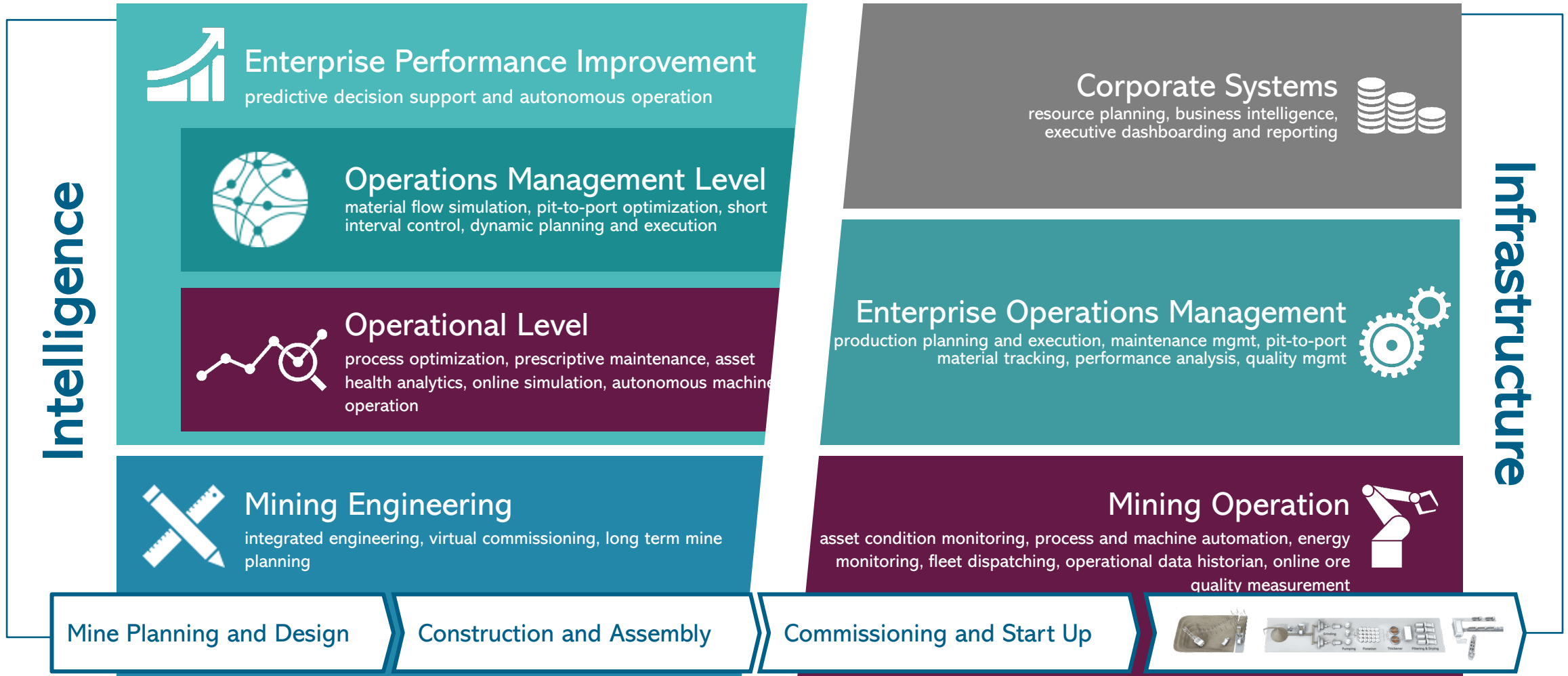
SUMMARY

- Seamless horizontal digital integration of suppliers and partners along the value chain.
- Open standards to integrate vendor-independent solutions and asset management services.
- OEMs, IT-players and startups offer new digital data, analytics and consulting services.
- Expert and centralized operation centers run multiple mines and offer specialized services.
- On-demand business models, marketplaces and trading platforms are established.
- Digital branding and transparency initiatives are major pillars of governmental and community stakeholder management.
- Mining companies engage in continuous digital monitoring and management.
- End of mine business keeps mines partially in operation.



Minerals Digital Architecture Concept

Relevant functionalities for mining industry on short and long terms

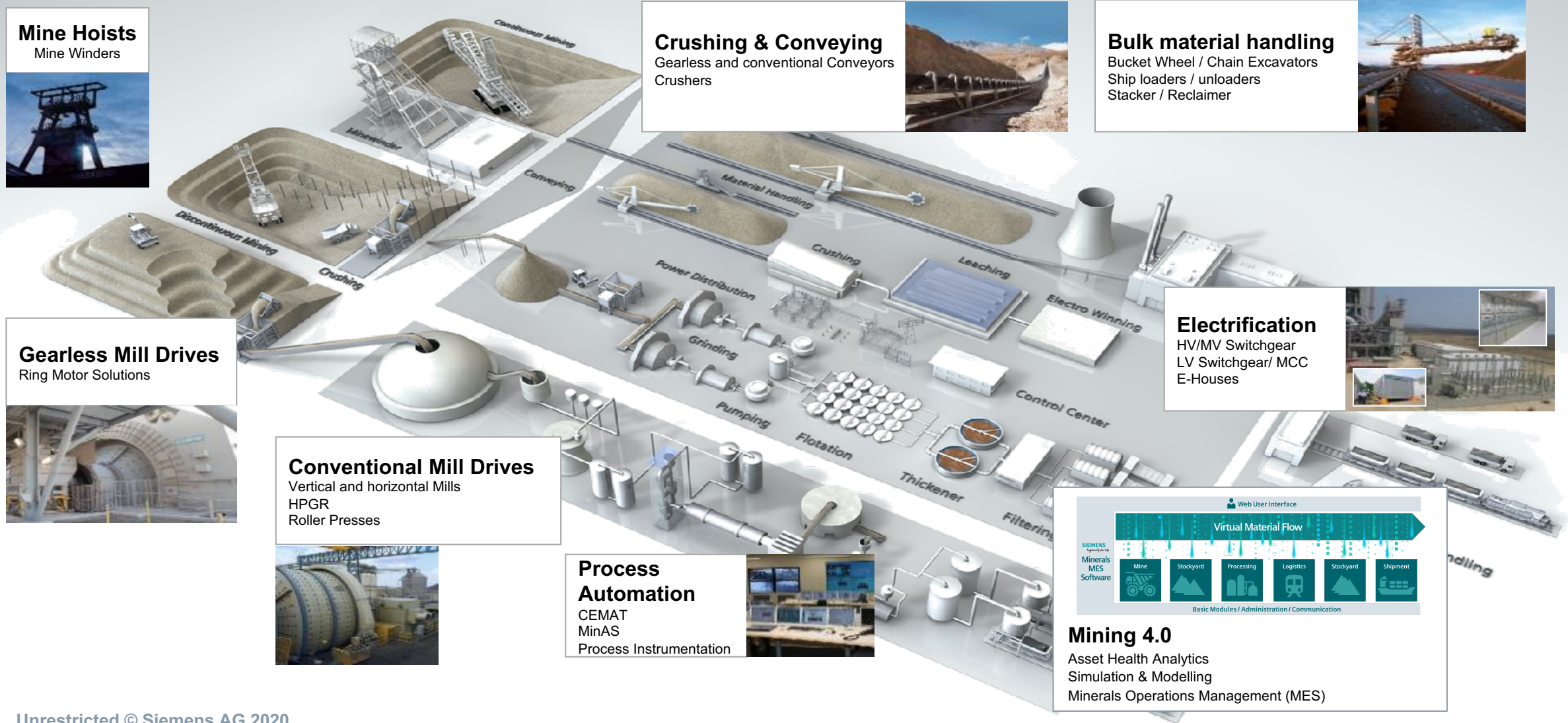


Siemens Minerals Portfolio

High-end and world-class solutions for the mining industry

SIEMENS

Ingenuity for life



Let's drive together the digital enterprise

SIEMENS
Ingenuity for life



Eloi Perez

Account Manager

Minerals & Metals

Siemens Infraestrutura e Industria LTDA

Mobile: +55 11 99818-3357

E-mail: eloi.perez@siemens.com