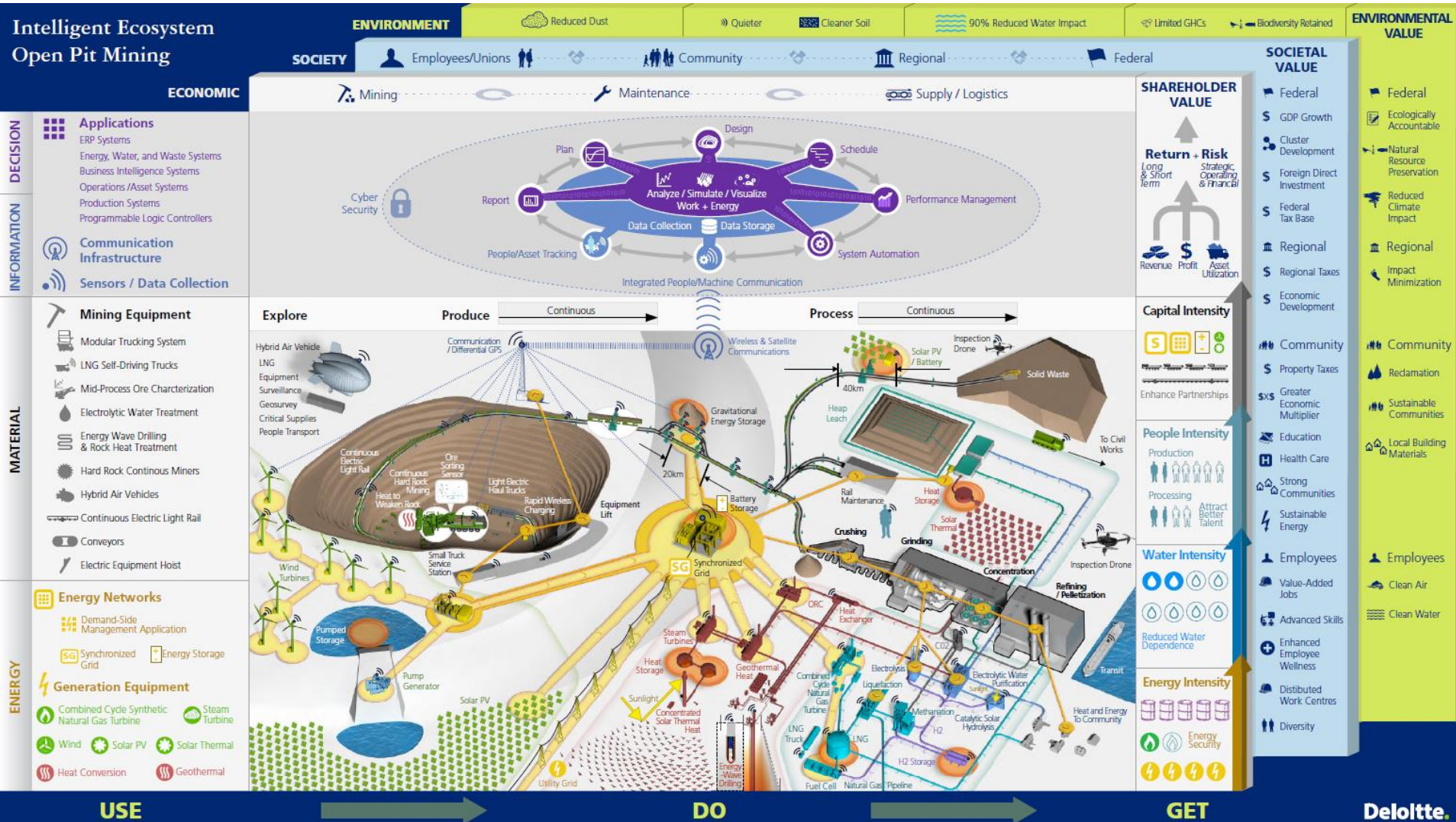




Fully automated synchronized ecosystem

100% RE ecosystem



Examples of renewables at mines

	Company	Description
Energy Security	 GOLD FIELDS Solar	<ul style="list-style-type: none"> Challenged by frequent power supply disruptions and anticipated price increases South African mining company Gold Fields undertook a regional energy security plan in cooperation with the Carbon War Room Sunshine for Mines Project. One of the first outcomes of this review is an RFP for a 40 MW solar PV project for its South Deep Mine.
Remote Locations	 SANDFIRE RESOURCES NL Solar	<ul style="list-style-type: none"> In response to its remote location and related high energy costs, Sandfire Resources is currently constructing a state-of-the art 10.6MW solar power station at its DeGrussa Copper-Gold Mine The solar power plant expected to be fully operation in 2016 and cost \$40M
GHG Emissions	Teck Wind	<ul style="list-style-type: none"> Teck Resources holds a 49% interest in The Wintering Hills Wind Power Facility, advancing its goals to reduce carbon emissions This provides an opportunity to develop an understanding of wind power generation and evaluate other opportunities
Reduce Fossil Fuels	RioTinto Solar & Wind	<ul style="list-style-type: none"> Rio Tinto's Diavik Diamond Mine installed a 9.2MW wind farm, was able to offset 4.9M Litres of fuel in 2014 and achieve operational availability of 97.5% Weipa Bauxite Mine in North Queensland Australia uses a 1.7MW solar array to augment it's power generation system. The company says they will continue to scale the project size up over the coming years

No Longer Just Pilots – Large-Scale Projects



Zwartkop Chrome Mine Cronimet Mining

- Application: **Chromium Ore Mine**
- Location: **South Africa, Limpopo Province**
- Renewable energy: **PV**
- Type: **PV-diesel-hybrid**
- RE-capacity: **1 MWp**
- Status: **Commissioned in 2012**
- Operated by: **Cronimet Mining Power Solutions SA**
- Installer / EPC: **Cronimet Mining Power Solutions SA**



Diavik Diamond Mine Rio Tinto + Dominion Diamond

- Application: **Diamond Mine**
- Location: **Canada, Lac de Gras, NW Territories**
- Renewable Energy: **Wind**
- Type: **off-grid, wind-diesel-hybrid**
- RE-capacity: **9.2 MW**
- Status: **Commissioned in 2012**
- Operated by: **Diavik Diamond Mines Inc.**
- Installer / EPC: **ENERCON Canada Inc.**

Large-Scale Projects



Los Pelambres Mine Antofagasta Minerals

Application: **Copper mine**

Country: **Chile**

Location: **Javiera, Atacama Region**

Renewable Energy: **PV**

Type: **On-grid with PPA from mine**

RE-capacity: **69.5 MW**

Status: **planned for 2015**

Operated by: **SunEdison**

Installer / EPC: **SunEdison**



CAP Group Amanacer Power Plant

Application: **Iron Ore Mine**

Location: **Chile, Copiapo, Atacama Desert**

Renewable energy: **PV**

Type: **On-grid with PPA from mine**

RE-capacity: **100 MWp**

Status: **Commissioned in 2014**

Operated by: **SunEdison with PPA from CAP Group**

Installer / EPC: **SunEdison**