Infotech
Creating Business Impact

India Geospatial Forum 2014

3D Geospatial Technologies for Savings & Transparency in Mining

February 12, 2014

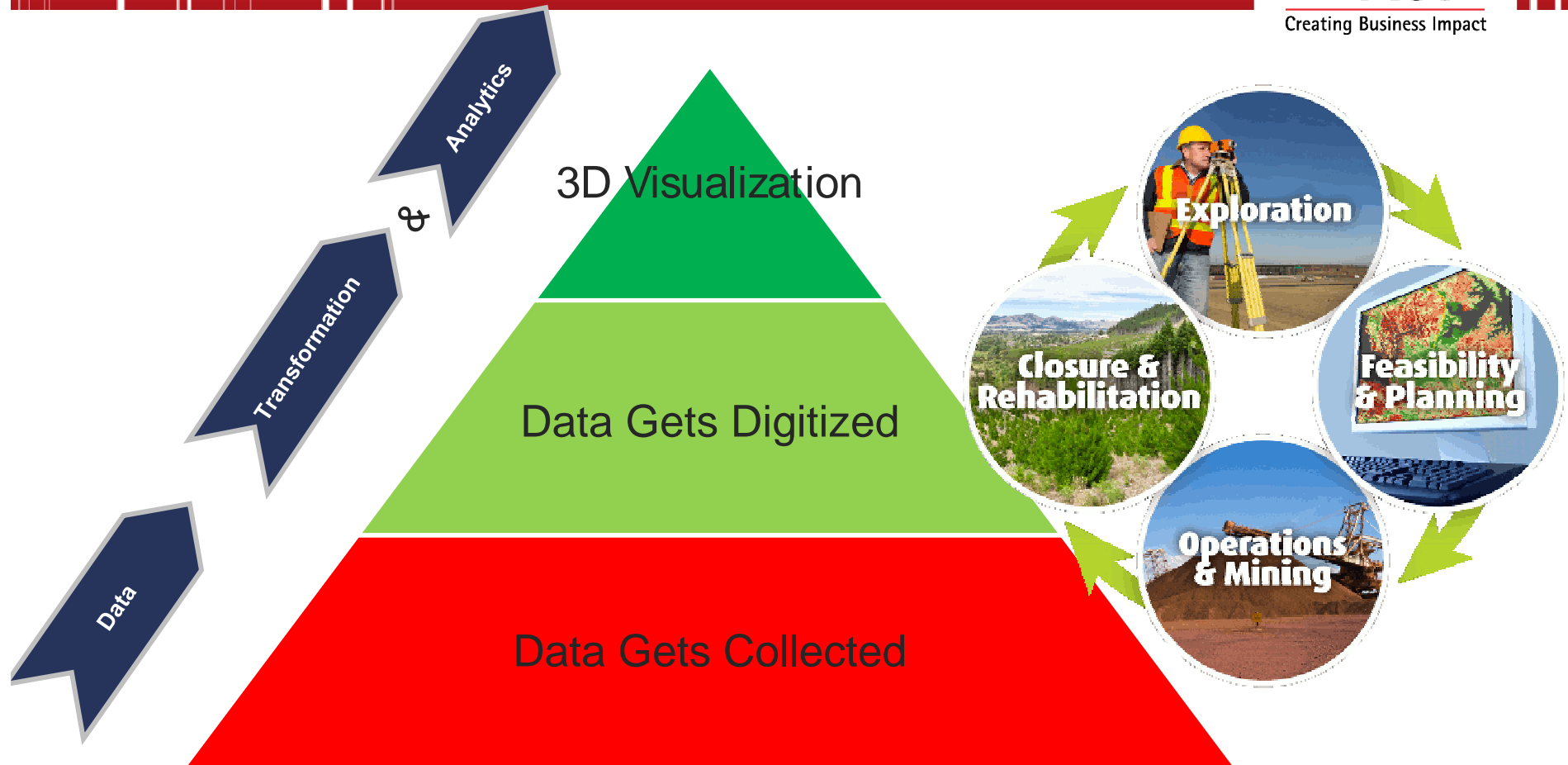**We deliver Global Engineering Solutions. Efficiently.**

Agenda

Purpose of this Presentation

<u>Objective</u> - Articulating that 3D technologies give commercial benefits & and promote transparency in Mining activities
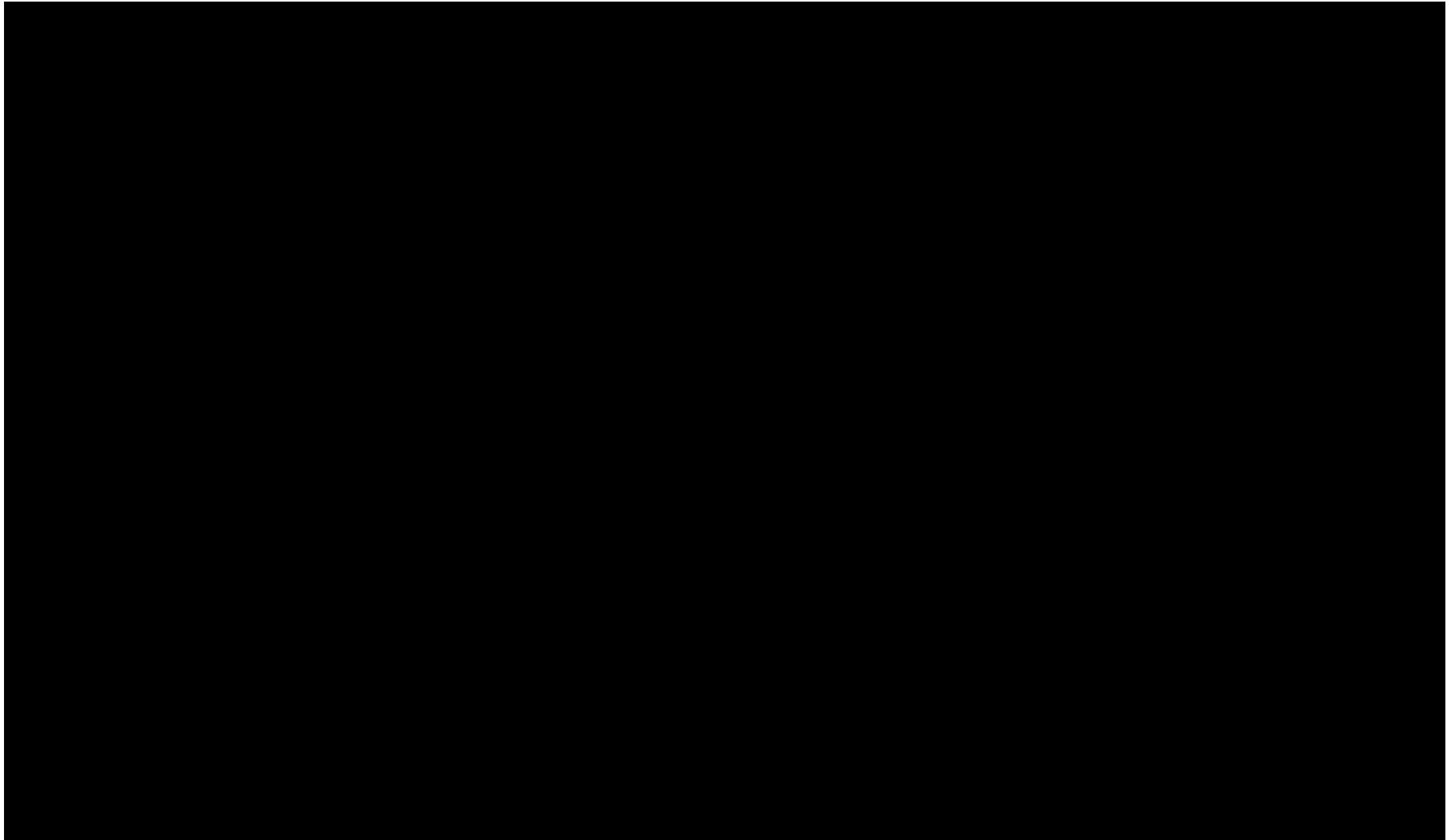
Pointers

- @10K feet level
- 10 Slides, 10 minutes. Interactive
- Will avoided technical Jargon to suite varied stakeholders

The Data Path towards 3D Visualization

Analytics

&

Transformation
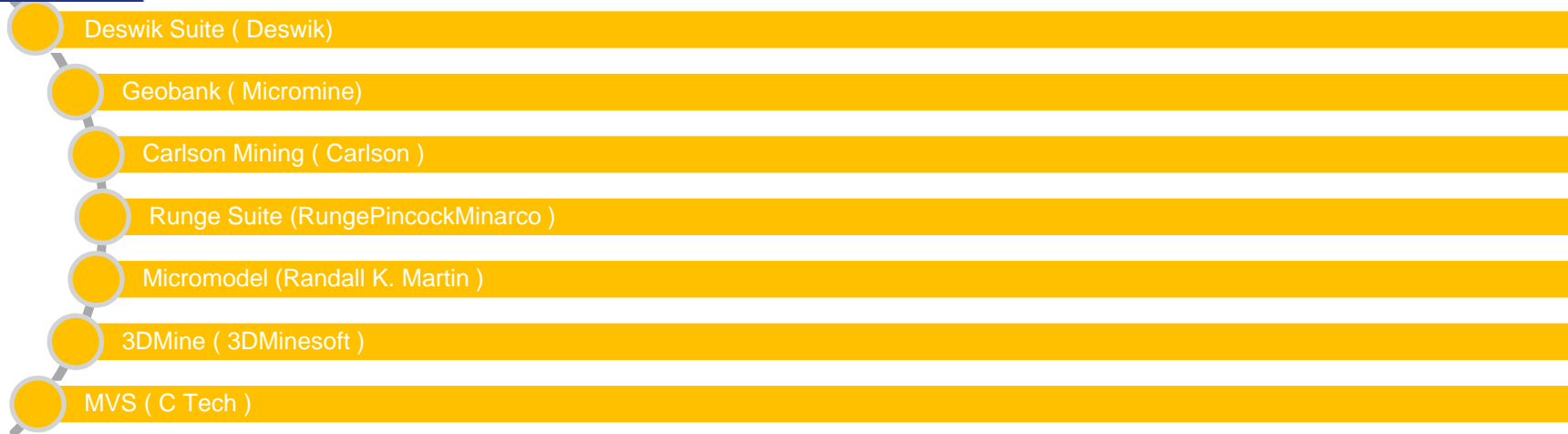
Data

3D Visualization

Data Gets Digitized

Data Gets Collected

Exploration

Feasibility & Planning

Closure & Rehabilitation

Operations & Mining

Infotech

Creating Business Impact

Short Video on 3D Visualization

3 Visualization & Analytics COTS Software Players

Infotech
Creating Business Impact

Leaders

- Geovia (Dassault)
- Datamine (CAE)
- Vulcan (Maptek)
- Mine Scape (Ventex /ABB)
- Minesight (Mintec)
- Flairbase (Autodesk)
- Leapfrog Mining (ARANZ Geo)

Laggards

- Deswik Suite (Deswik)
- Geobank (Micromine)
- Carlson Mining (Carlson)
- Runge Suite (RungePincockMinarco)
- Micromodel (Randall K. Martin)
- 3DMine (3DMinesoft)
- MVS (C Tech)

Consolidation underway

Infotech
Creating Business Impact

Leaders

Company	Status
Geovia (Dassault)	**Acquired**
Datamine (CAE)	**Acquired**
Vulcan (Maptek)	
Mine Scape (Ventex /ABB)	**Acquired**
Minesight (Mintec)	
Flairbase (Autodesk)	**Acquisition Underway**
Leapfrog Mining (ARANZ Geo)	

Pie chart values: 20, 15, 14, 12, 8, 4, 4, 4, 4, 3, 3, 3, 3, 2, 1

Legend:
- Geovia (Dassault)
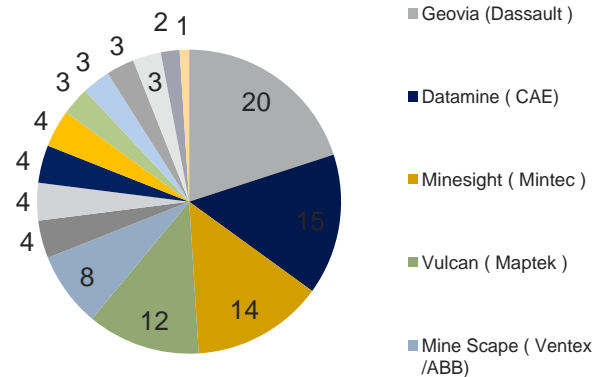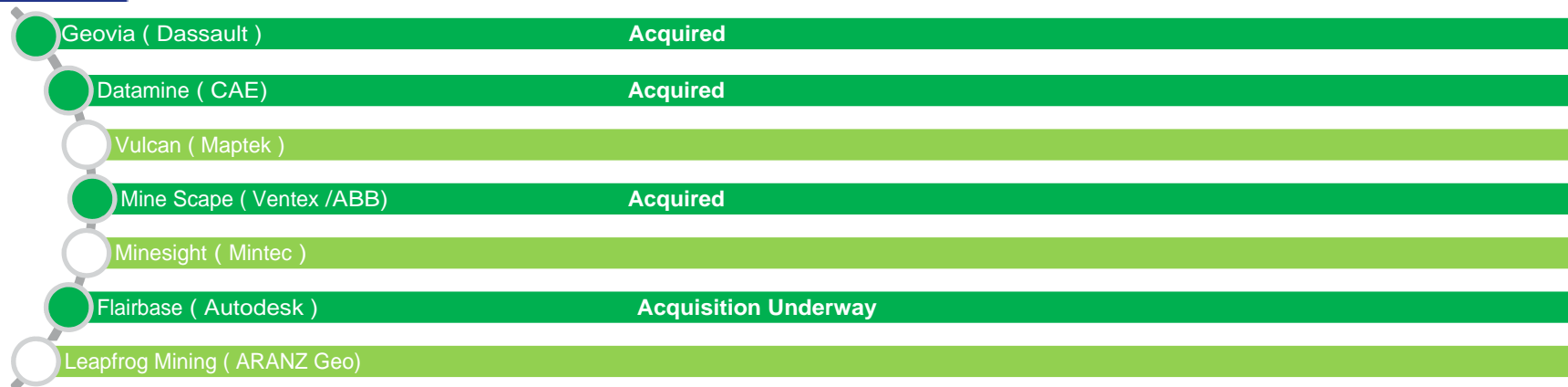- Datamine (CAE)
- Minesight (Mintec)
- Vulcan (Maptek)
- Mine Scape (Ventex /ABB)

Trends

- Consolidation underway
- Simulation Software majors are driving the consolidation
- Companies with high license base are first in integrating with the biggies.

Does these technologies save money ?

❖ Undoubtedly, percentage of savings depends on depth & breadth of its usage. What-if analysis are its strengths.

❖ Rio Tinto, BHP Billiton & Vale lead worldwide in usage of these technologies.

❖ In Indian Scenario, Mining PSU's lead the way.

Systemic Issues impending adoption of these technologies – Indian Context

- ❖ Lack of awareness. Mine owners & Regulatory agencies

- ❖ Technical Expertise, Gen X & Y Conundrum

- ❖ License cost, Interoperability & IT infrastructure

- ❖ Legislation & Enforcement

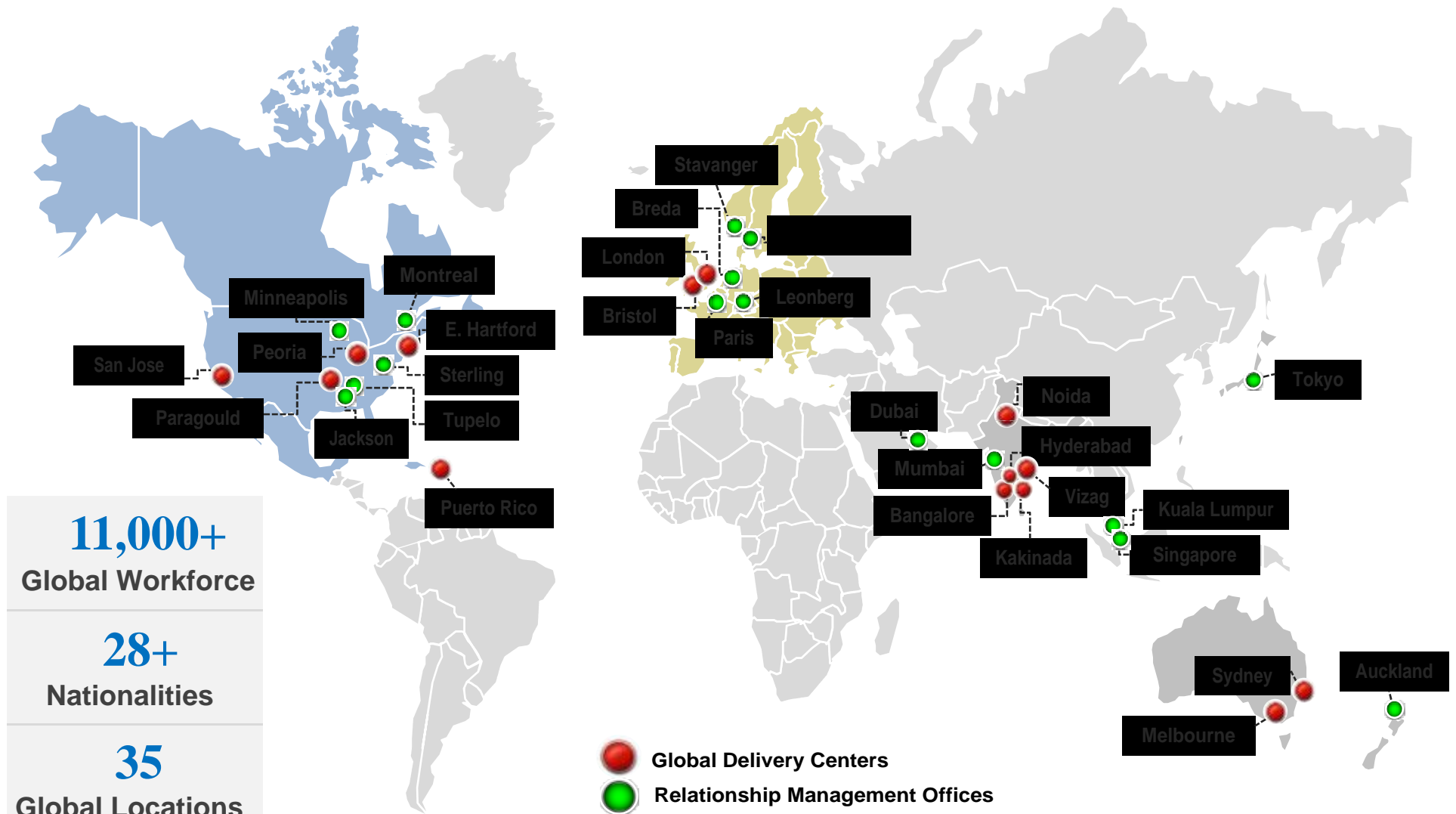# Does these technologies improve transparency ?

- ❖ Technology Improves Transparency. Period

- ❖ Improves the current trust deficiency in Mining Activity.

- ❖ Ability to address apprehensions of effected communities, legislature & courts with reliable and referable data on ground.

New's Item, Jan 2014 :

Odisha government imposed a Rs 72,000 crore (Rs 720 billion) fine on the mine owners for irregularities.

The loss to the exchequer is more than Rs 4 lakh crore (Rs 4 trillion)

Why Infotech

Infotech
Creating Business Impact

11,000+
Global Workforce

28+
Nationalities

35
Global Locations

Map locations:
- Stavanger
- Breda
- London
- Bristol
- Leonberg
- Paris
- Montreal
- Minneapolis
- E. Hartford
- Peoria
- San Jose
- Sterling
- Paragould
- Tupelo
- Jackson
- Puerto Rico
- Tokyo
- Dubai
- Noida
- Hyderabad
- Mumbai
- Vizag
- Bangalore
- Kuala Lumpur
- Kakinada
- Singapore
- Sydney
- Auckland
- Melbourne

● Global Delivery Centers
● Relationship Management Offices

Questions

Dinakar.devireddy@infotech-enterprises.com
+91 96186 33456

Thank You