### A Primer for the Lay Investor

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#### Juniors, Metals, and Projects:

The Good, The Bad, and the Butt-Ugly

#### The Good, The Bad, and the Butt-Ugly

Timeline

Cost of Production

Access to Capital

Exit Strategy

#### The Good:

Short Lead Time to Development

Low Capital Expenditures

Low Cost Producers

Multiple Exit Strategies

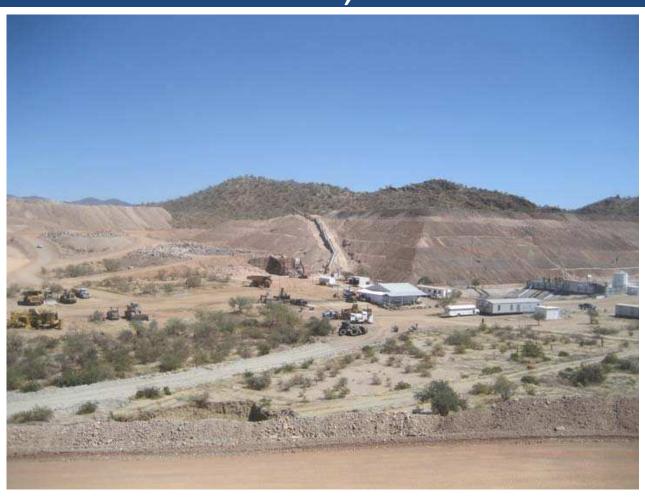
#### The Good:

Open pit heap leach oxide Au deposits

Open pit heap leach Cu Oxide deposits

ISR or heap leach U3O8 deposits

# The Good: Heap Leach Gold Deposit Dumps, Leach Pad, and Recovery Plant NW Sonora, Mexico



### The Good: Heap Leach Copper Deposit Mine, Leach Pad, Recovery Plant Region II, Northern Chile



# The Good: ISR Uranium Deposit In-Situ Leach Well-Field, South Texas



#### The Bad:

• Lead Time for Exploration, Development, Permitting

Mills and Smelters

High Capital Expenditures

Integrated Mining Company

One Exit Strategy

#### The Bad:

Polymetallic deposits

Porphyry Cu <u>+</u> Mo-Au-Ag deposits

Iron Oxide deposits

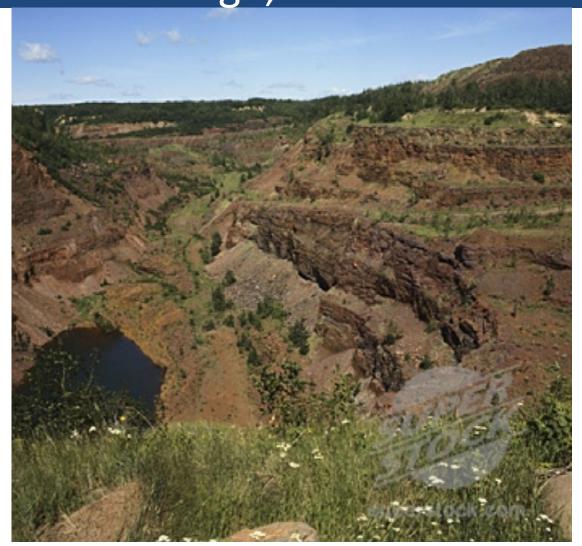
# The Bad: Polymetallic VMS Deposit Mine/Mill Complex, SE Alaska



### The Bad: Porphyry Cu-Au-Mo Deposit Open Pit Mine, North Central Utah



# The Bad: Iron Oxide Deposit Mesabi Range, NE Minnesota



#### The Butt-Ugly:

Commodity Supply and Demand

Sub-Economic Deposit Type

Monopolistic Control

#### The Butt-Ugly:

Molybdenum porphyries

"Unconventional deposits"

Specialty metals

# The Butt-Ugly: Mo Porphyry Deposit Mine/Mill Complex, Central Colorado



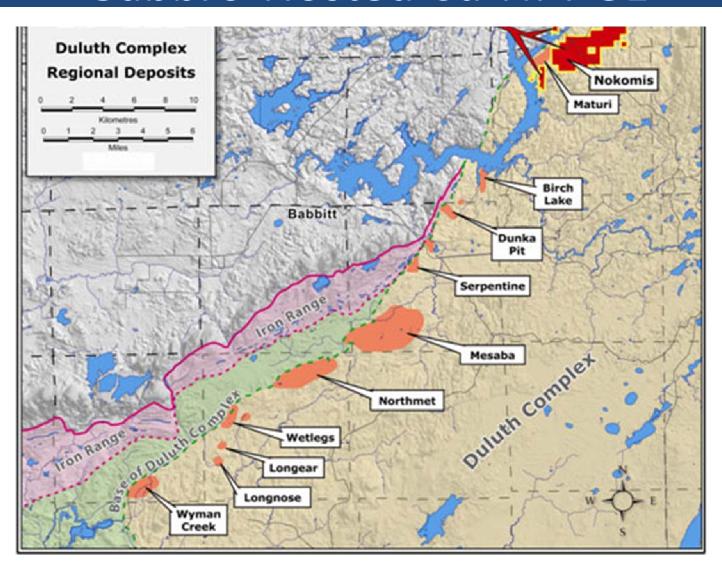
#### The Butt Ugly: Unconventional Deposits

USGS Research in 1970's - 1980's

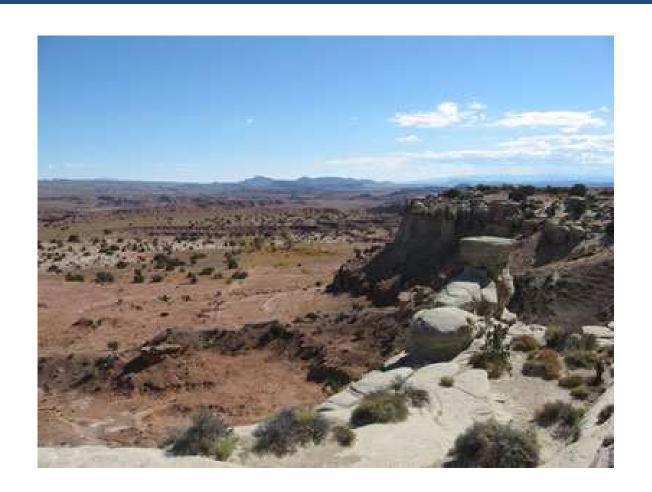
Unusual Geological Environments

Subeconomic: Past, Present, and Future

# Unconventional Deposit Gabbro-Hosted Cu-Ni-PGE



# Subeconomic Deposit Type Volcanic-Hosted Uranium Marysvale District, Utah



# The Butt-Ugly: Specialty Metals Spor Mountain Beryllium, Central Utah



### Rules of Thumb Exceptions

- Polymetallic Deposits
   Small Lead-Zinc-Silver Replacements near smelter complexes
- Porphyry Copper-Gold Deposits
   Near existing mine/mill/smelter complexes
- Specialty Metals
   A unique Heavy Rare Earth Element deposit

#### Juniors, Metals, and Projects

The Good

• The Bad

The Butt-Ugly

### Why, Why Not, and Why Never?

Timeline

Cost of Production

Access to Capital

Exit Strategy

### Monday Morning Musings from Mickey the Mercenary Geologist



### MercenaryGeologist.com

