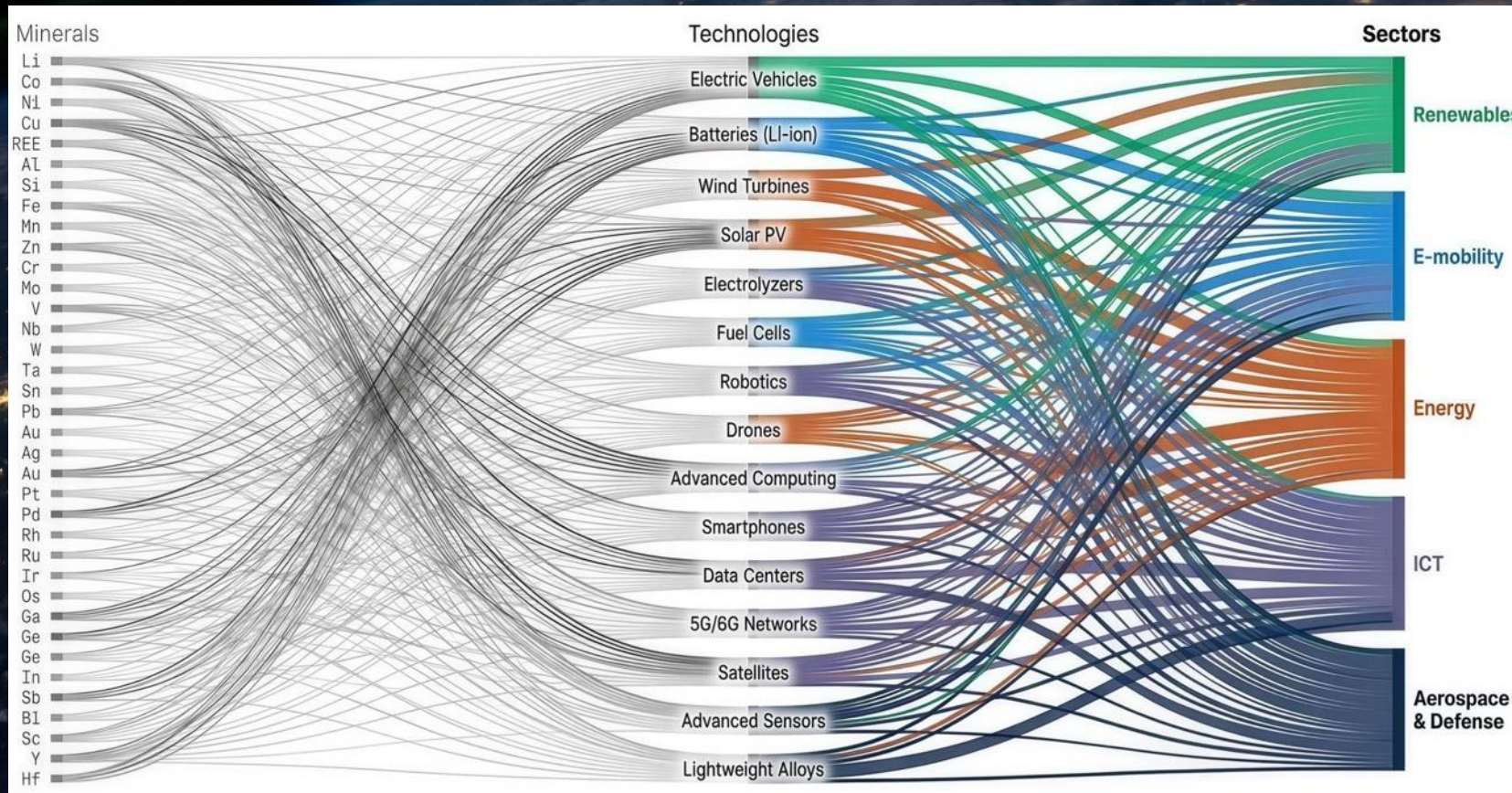


World Materials Forum · Paris · September 2026



i·PULSE
HighPowerSystems

Everything we need for the future requires critical minerals and we are looking for them with yesterday's instruments.



A satellite view of Earth from space, showing the curvature of the planet and city lights at night. The image captures the horizon of the Earth, with a thin blue line of the atmosphere separating the dark, star-filled space from the illuminated surface. The surface is a mosaic of dark blue oceans and bright yellow-orange city lights, which are concentrated in coastal areas and along major transportation routes. The text "The challenge is neither energy nor minerals. It is both." is overlaid in white, bold, sans-serif font in the center of the image.

**The challenge is neither energy nor
minerals. It is both.**

Every new terawatt-hour demands tonnes of metal. Every tonne of metal demands terawatt-hours.

ELECTRIFICATION · AI · DEFENCE · SPACE

drives material demand

EXPLORATION · EXTRACTION · GRINDING · PROCESSING

drives energy demand

What if the constraint is power delivery?

CONTINUOUS POWER

Energy delivered over seconds to hours

Power limited by thermal management

Heat spreads, material degrades

Kilowatts

PULSED POWER

Energy delivered in microseconds

Power limited only by stored energy

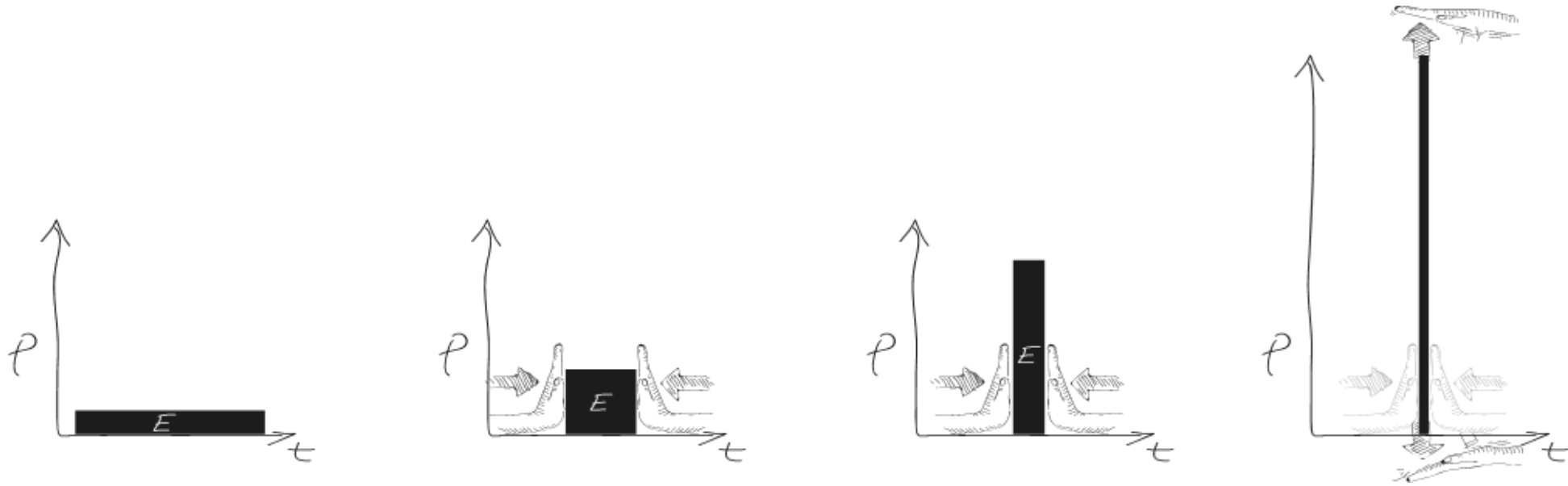
No time for heat to propagate

Gigawatts

Same energy. Compressed in time. Radically different physics.

Power is Key.

We know how to produce a tremendous amount of power with very little energy



Unlike steady DC or AC power, Pulsed Power is a revolutionary new way to use electricity

One Physics, multiple industries

Energy



Geothermal
Power Drilling



Geothermal
Wellbore
Remediation

Exploration



Geophysical
Exploration



Water
Exploration

Extraction



Continuous
Mining

Processing



Rock Crushing

Manufacturing



Crimping
Forming
Welding

Agriculture



Pulsed Power
Weeding

ENERGY

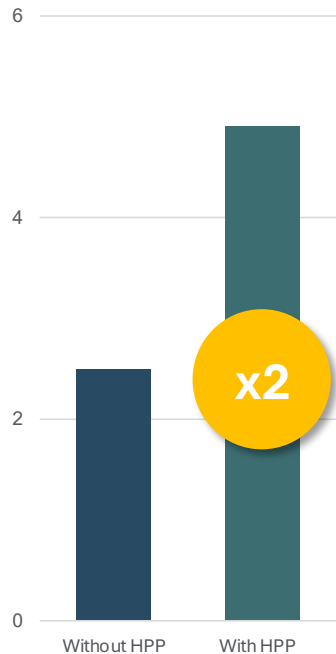
Pulse Power Drilling Tool For New Generation Of Deep Geothermal Power Plants



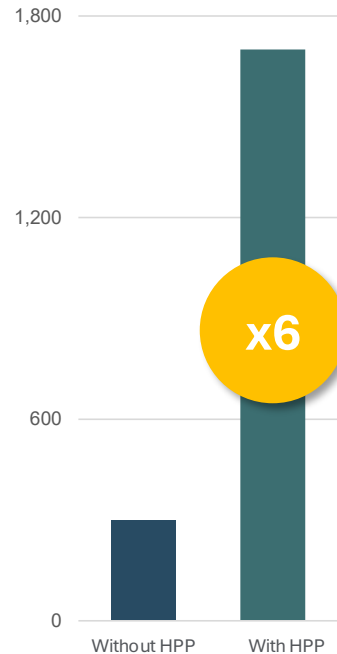
ENERGY

Pulse Power Drilling Tool For New Generation Of Deep Geothermal Power Plants

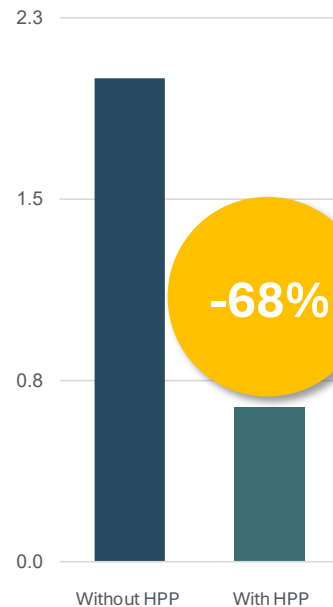
Rate of Penetration (m/h)



Extrapolated Lifetime (m)



Drilling Cost (\$M/km)



ENERGY

The power to renew, using only 6x the energy of a 60W lightbulb.



No chemicals



No explosives
explosives



No rig
rig



Hours, not days
days

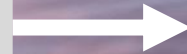
ENERGY

The power to renew, using only 6x the energy of a 60W lightbulb.

+296% production increase **+266%** injection rates

Achieved with typically 70-80% lower total cost of intervention.

**Our tech uses minimal energy and no
no harmful chemicals**



14.6% Emissions reduction
BlueSpark vs. onshore acid job

**Perfect safety record and winner of
multiple Safety Culture awards**



ZERO damage
to downhole or surface equipment

No chemicals



No explosives



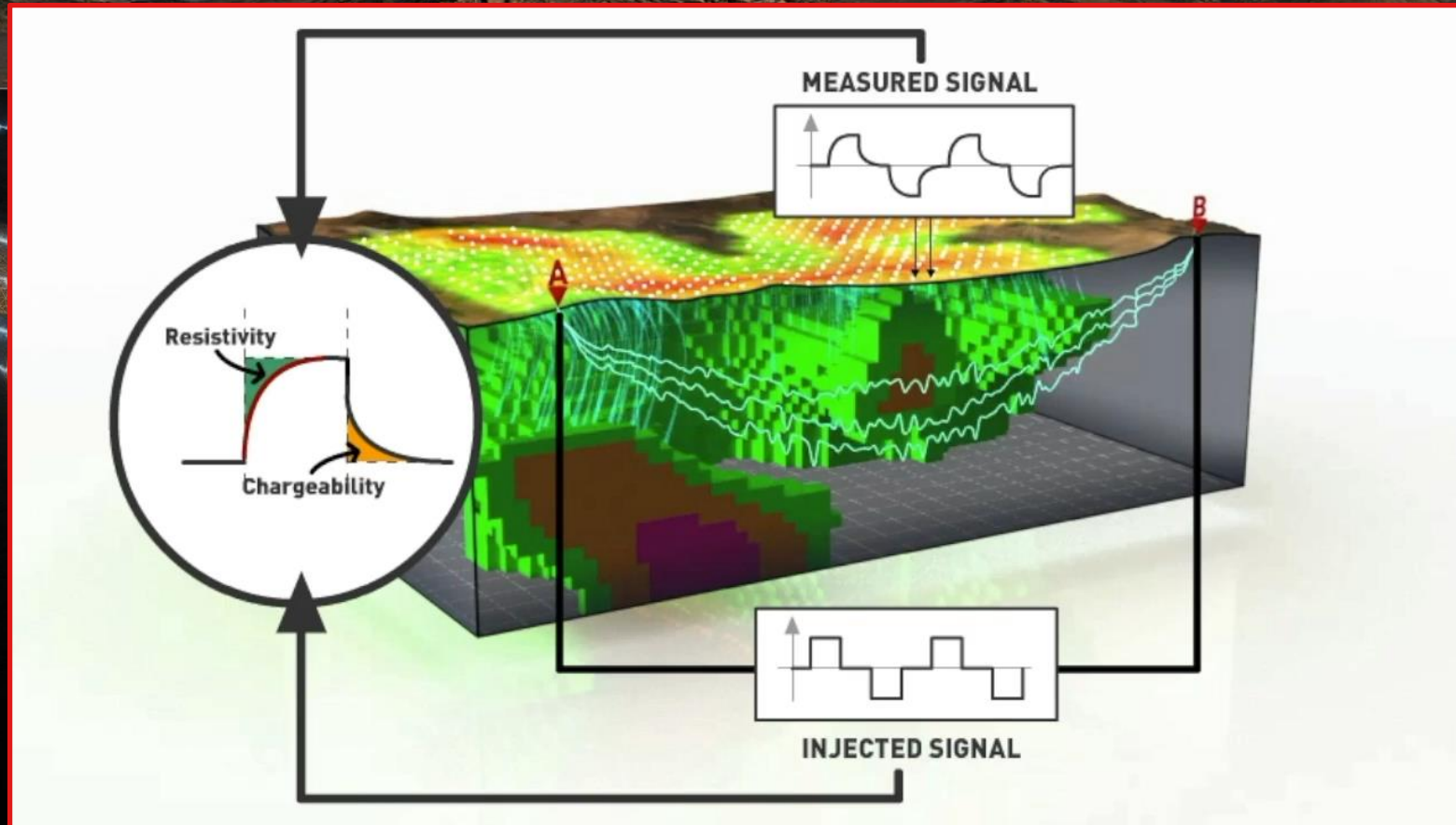
No rig



Hours, not days

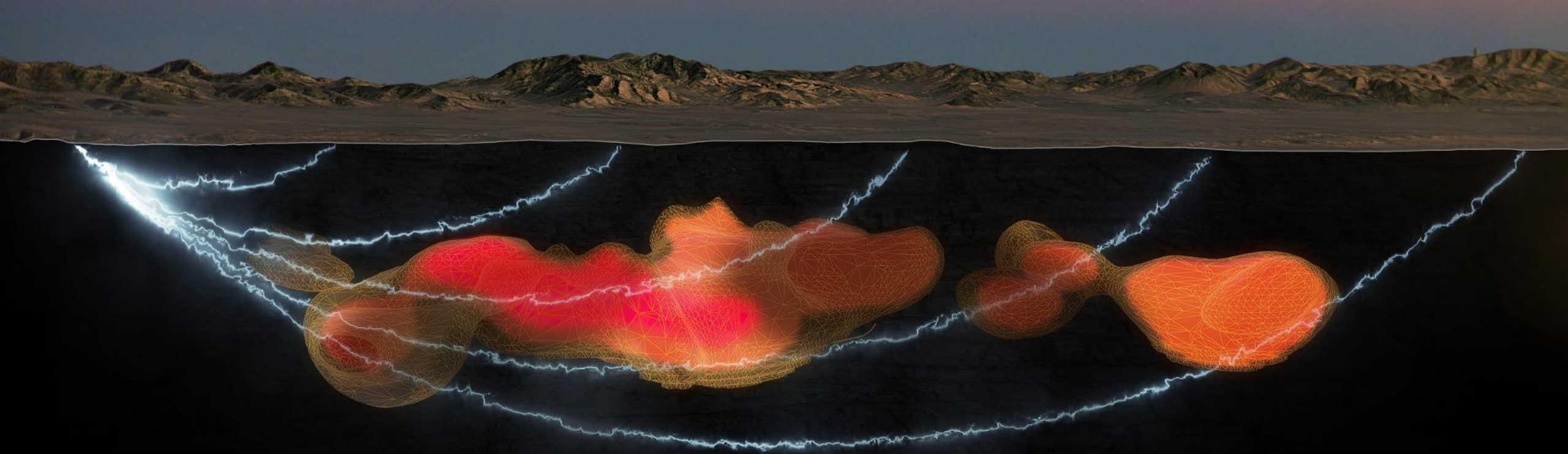
EXPLORATION AND DISCOVERY

Seeing deeper: pulsed power turns the subsurface transparent



EXPLORATION AND DISCOVERY

Seeing deeper: pulsed power turns the subsurface transparent

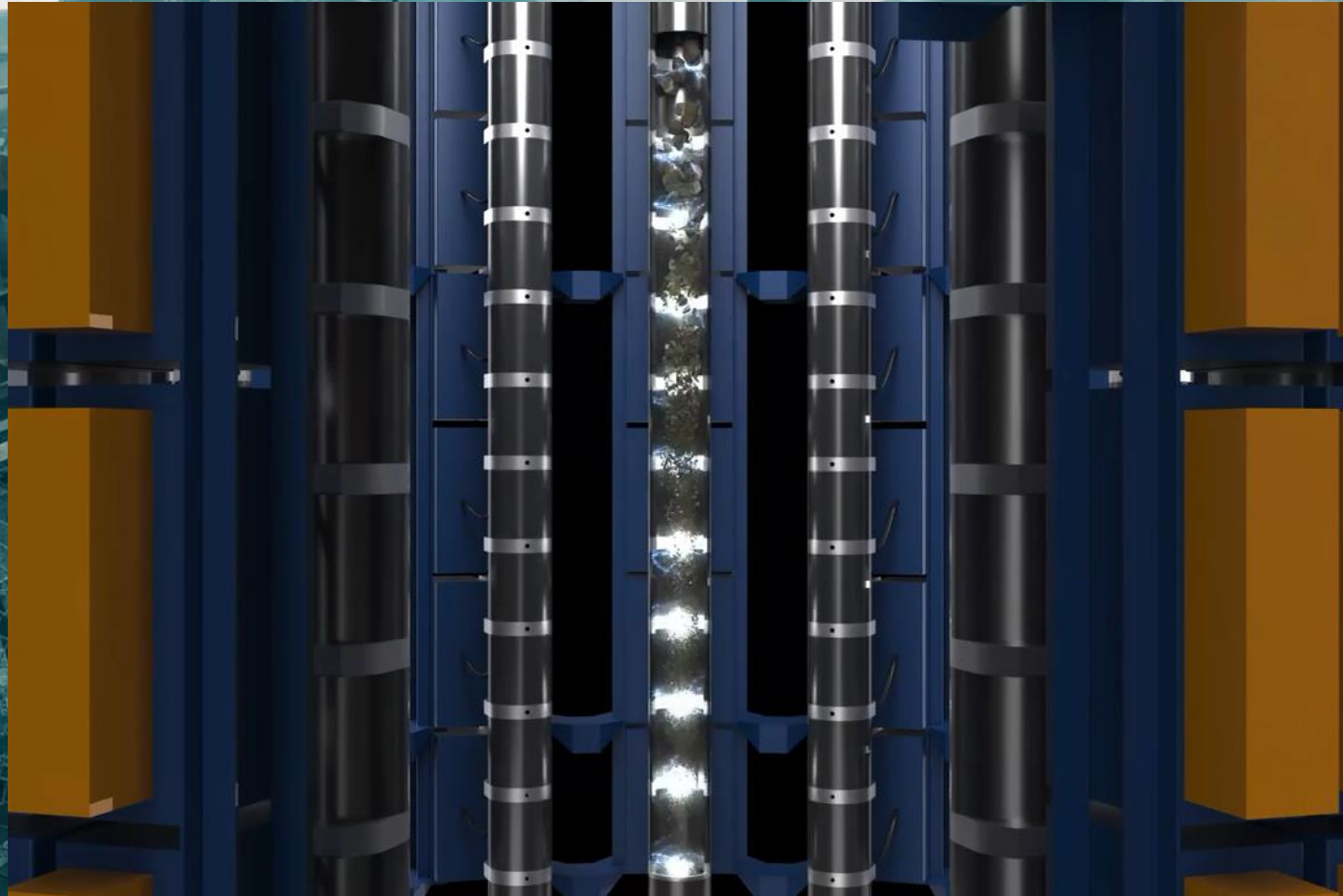


TYPHOON™ GEOPHYSICAL SURVEY TECHNOLOGY

- ⚡ High power and clean signal enables larger and deeper surveys
- ⚡ Able to detect the presence of sulfide mineralization to depths of over 1.5 kilometers
- ⚡ Effectively accelerates the exploration process

EXTRACTION AND PROCESSING

Breaking rock along mineral boundaries



EXTRACTION AND PROCESSING

Breaking rock along mineral boundaries



Energy
required



Consumable
used



Metal
recovered

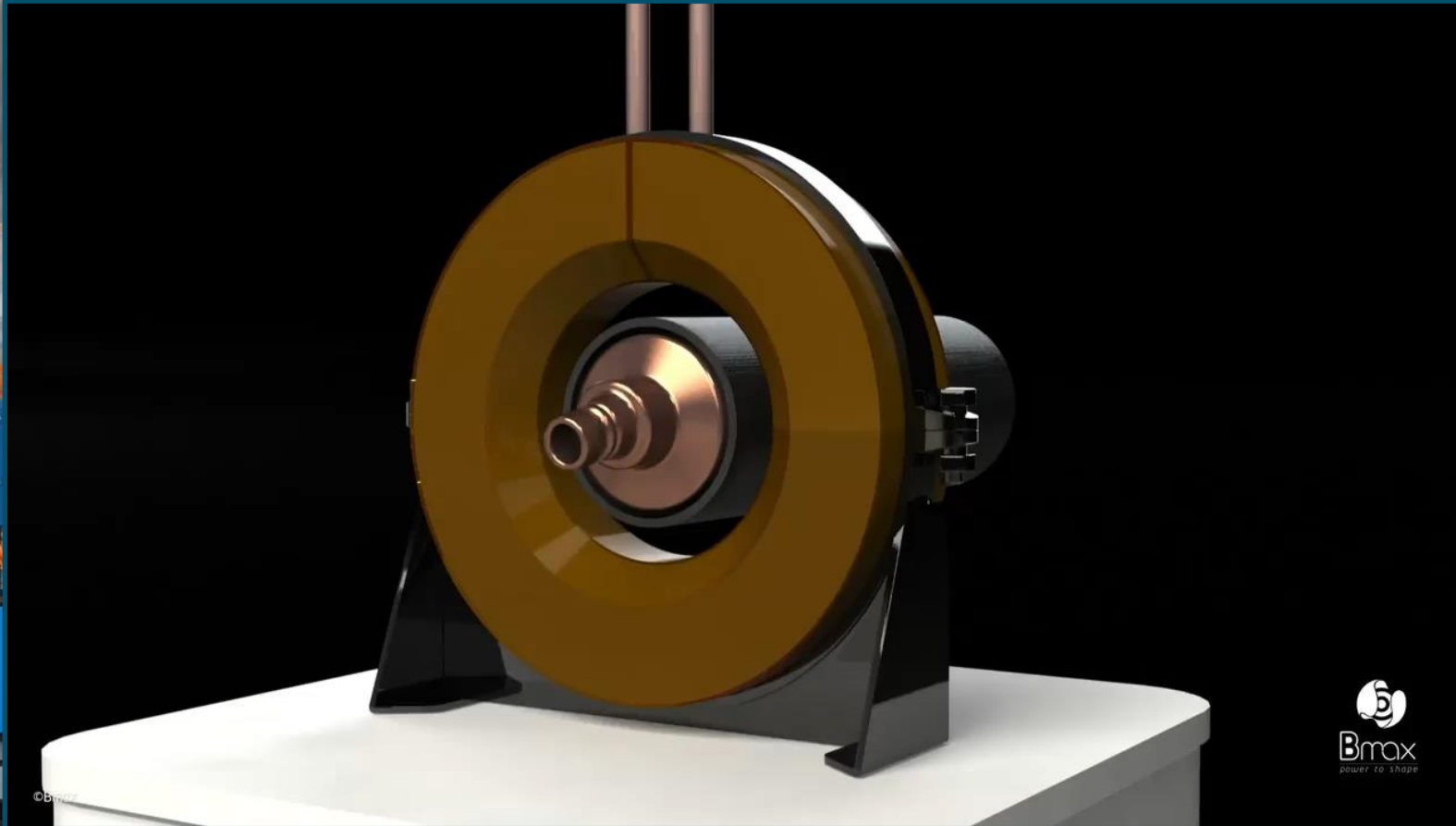


Lower GHG
emissions

Crushing and grinding rock uses >4% of the world's electrical energy and is **one of the most significant aspects of the typical mine's cost structure**

MANUFACTURING

The right material in the right place in microseconds



MANUFACTURING

The right material in the right place in microseconds



STABLE CORE TECHNOLOGY

High Repeatability

+



REDUCED SCRAP RATE

Process stability allows world class yield rates

+



GREEN & CLEAN

Low energy consumption
No Heat, No Sparks
No Smoke
No Oil

+



HIGHER PRODUCTION RATE

Process time is extremely short
Handling is the bottleneck

=



LOWER COST

The Future of Sustainable Agriculture



The Future of Sustainable Agriculture

Intact Soil Biology:

Unlike other methods, pulsed power leaves the soil's microbiome intact

Weed Control Efficiency:

Pulse Power kills weeds down to their roots. Weeds cannot become resistant

Speed

Pulse Power can cover more hectares per hour than any other current alternative (5ms dwell time)

Lower Initial Investment Cost:

Our technology offers a significantly lower initial investment cost than laser

weeding

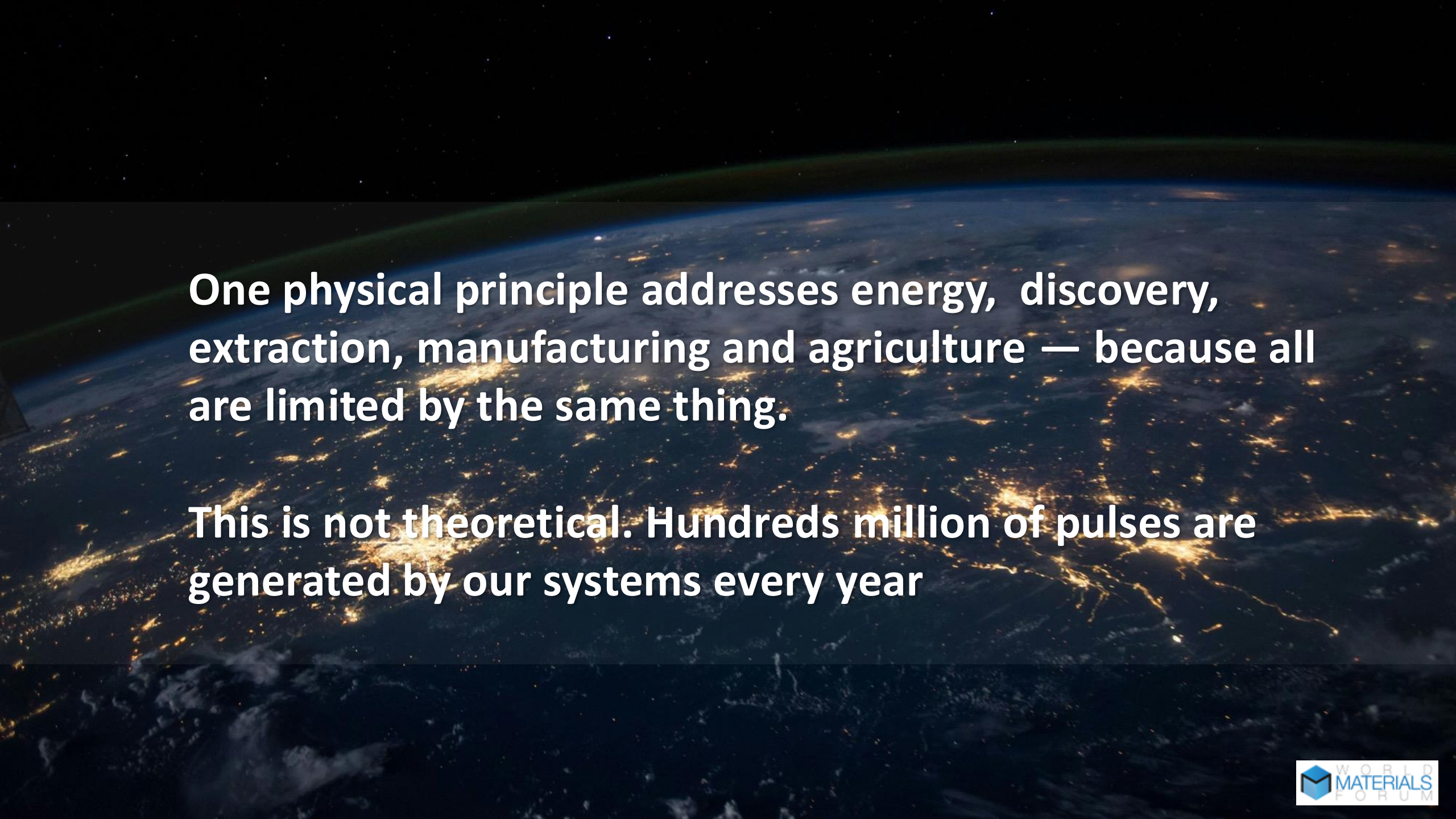
Increase in Yield by 25%:

Early trials indicate yield uplift potential of up to ~25%

Precision and AI:

Up to 95% precision in controlled field conditions





One physical principle addresses energy, discovery, extraction, manufacturing and agriculture — because all are limited by the same thing.

This is not theoretical. Hundreds million of pulses are generated by our systems every year

World Materials Forum · Paris · September 2026

Same physics, which industry should it transform next?

