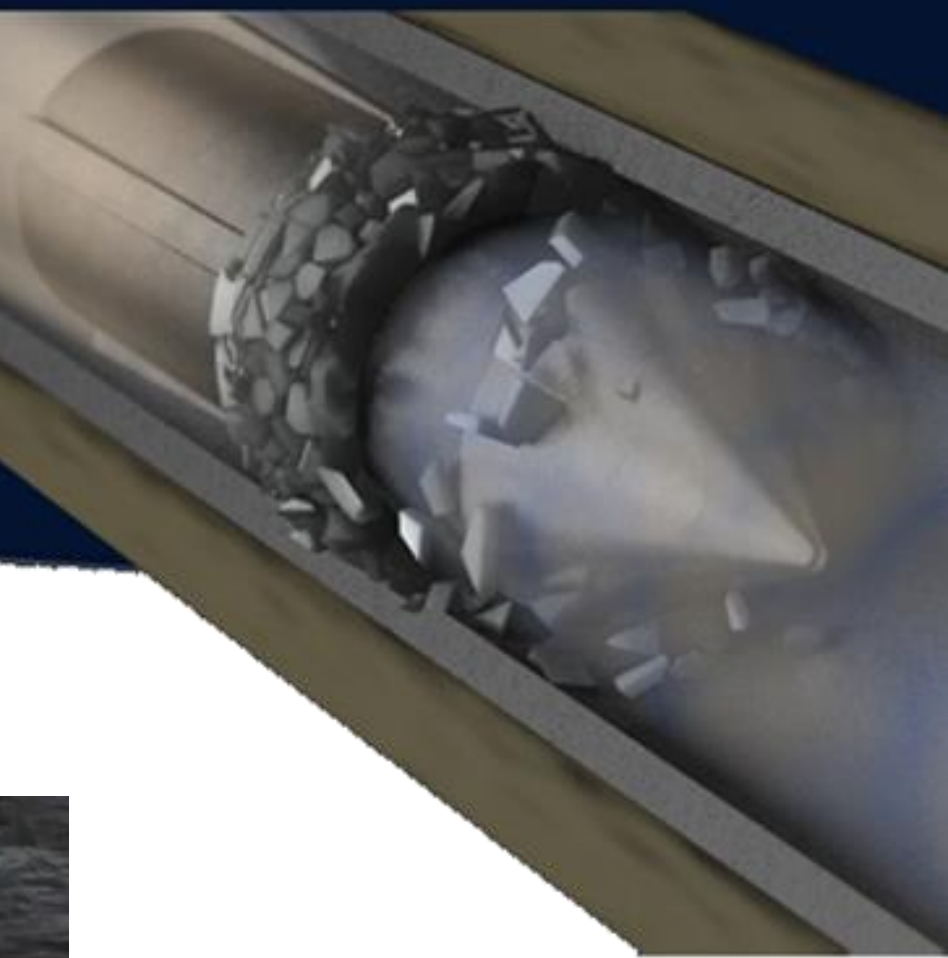
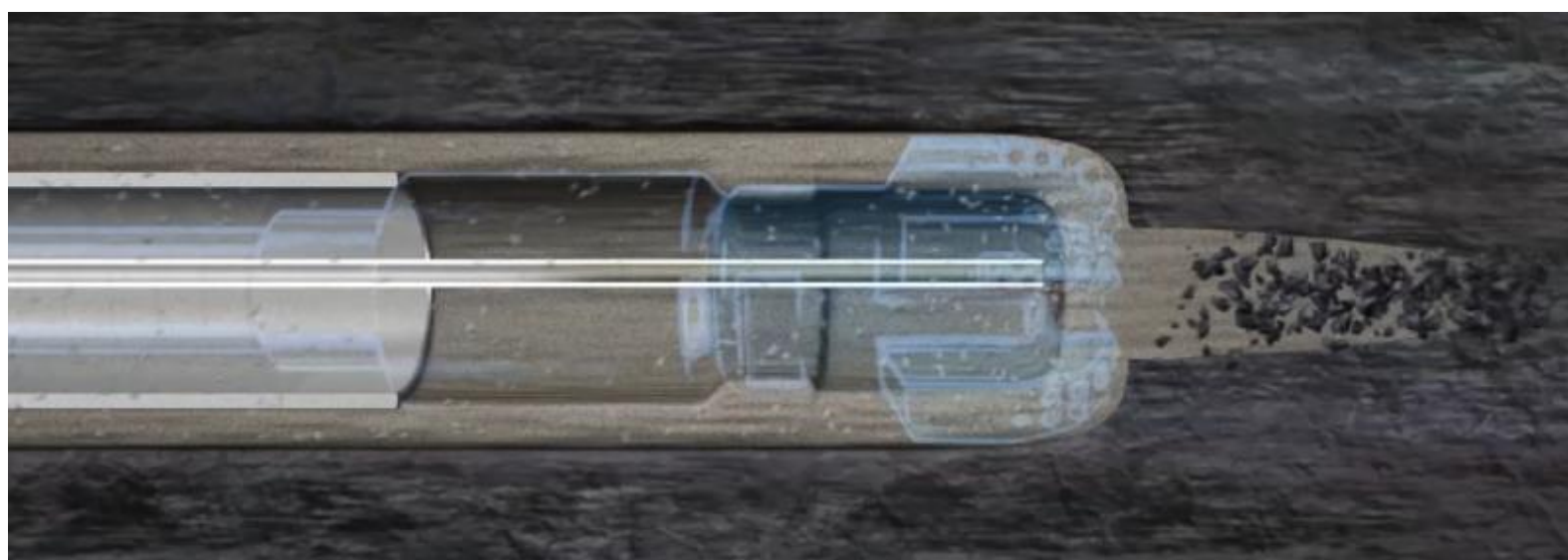




Harnessing the Power of Extreme Velocity

Hyperdrill Summary Presentation



Nov 15, 2017
IADC
GE-Baker Hughes
Houston Texas¹

mark@hypersciences.com

www.hypersciences.com

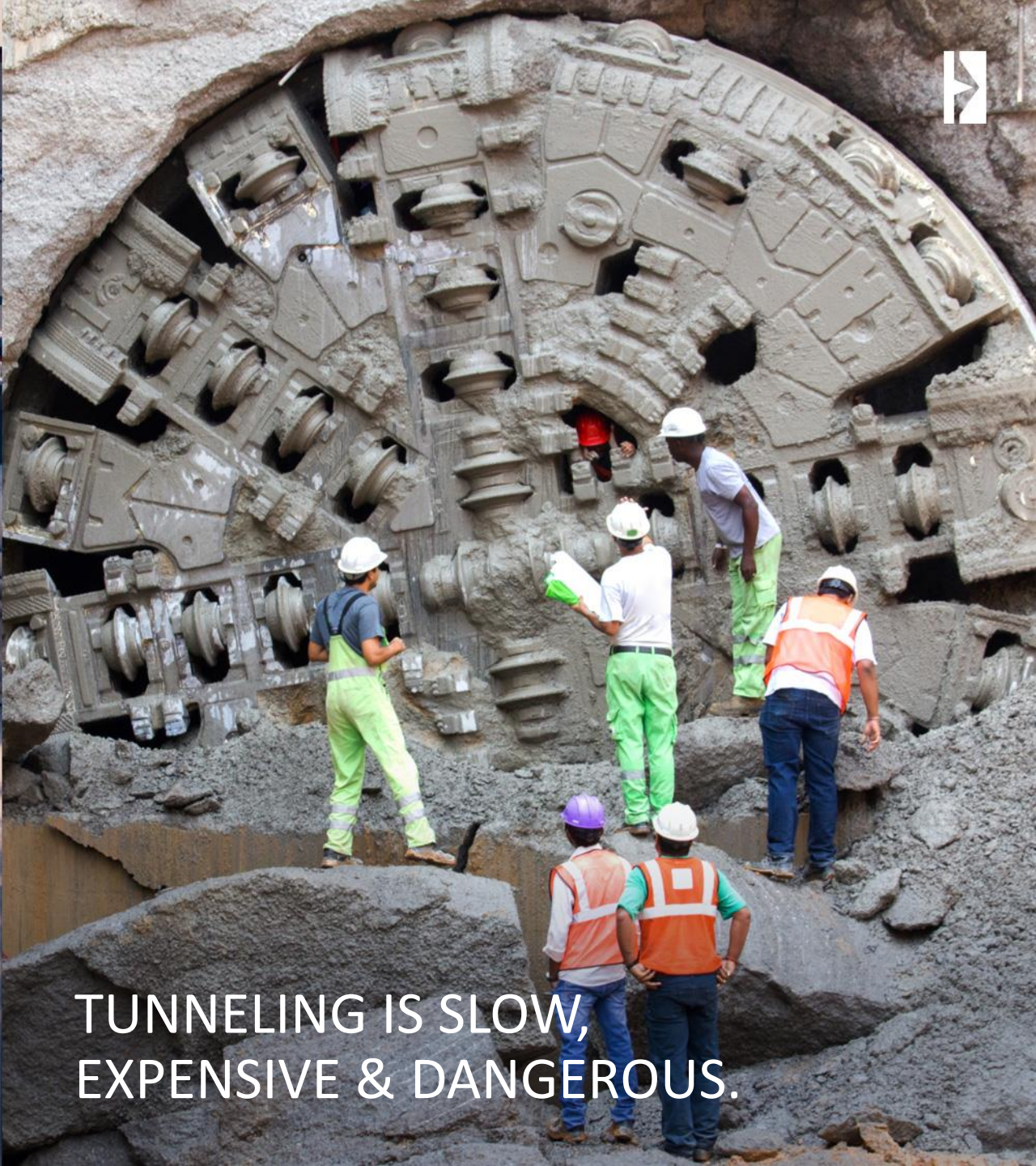


RENEWABLE ENERGY IS INTERMITTENT.
It is also expensive.





TRAFFIC IS BAD.



TUNNELING IS SLOW,
EXPENSIVE & DANGEROUS.





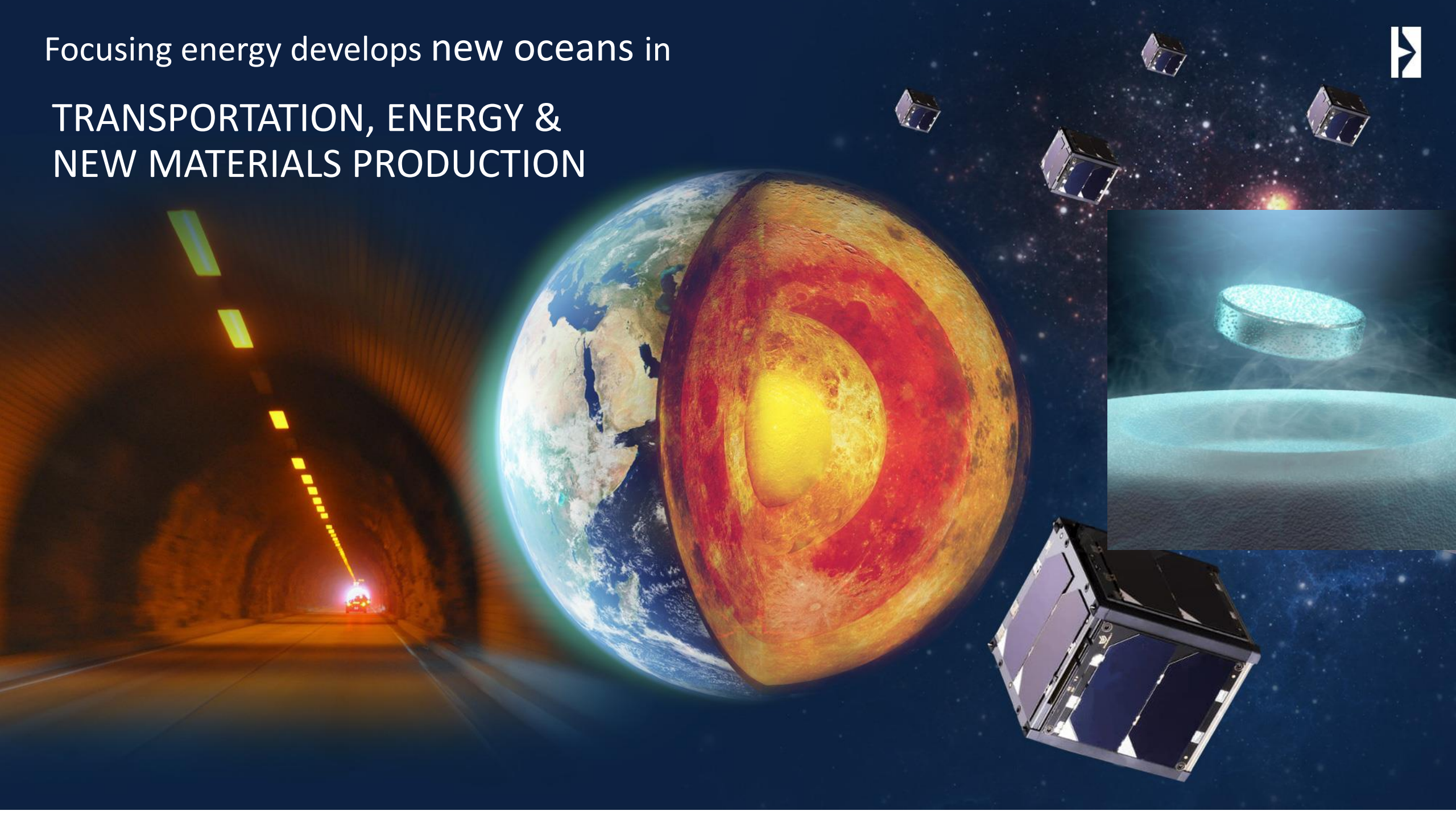
CONVENTIONAL
DRILLING
IS SLOW & EXPENSIVE.

BOTTLENECKS

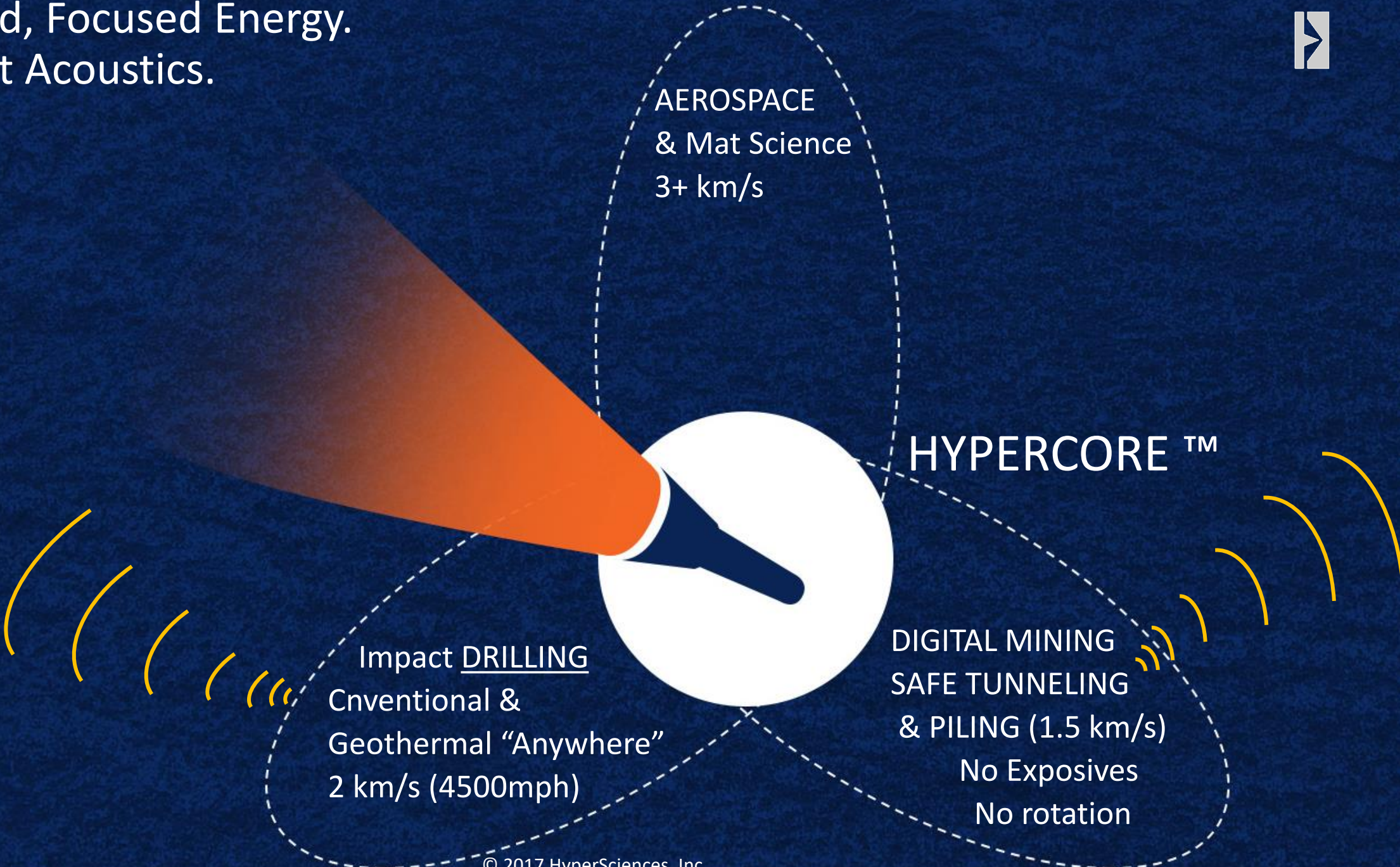
- 1.) DRILLING
- 2.) COMPLETIONS

Focusing energy develops new oceans in

TRANSPORTATION, ENERGY &
NEW MATERIALS PRODUCTION



Packetized, Focused Energy.
Intelligent Acoustics.



AEROSPACE
& Mat Science
3+ km/s

HYPERCORE™

Impact DRILLING
Conventional &
Geothermal "Anywhere"
2 km/s (4500mph)

DIGITAL MINING
SAFE TUNNELING
& PILING (1.5 km/s)
No Exposives
No rotation

WE PUT
HYPERVELOCITY
TO WORK.



Simple Chemical Energy -> Kinetic Energy -> Work

Industrial. Scalable.
Hyper-projectile technologies.

Energy Drilling



Industry /Market Problems:
Low commodity prices. Hard rock.

Deep & expensive resources.

Market priority: Efficiency & Cost

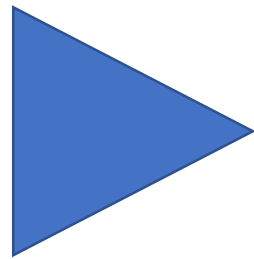
Infrastructure

Underground Mining

Tunneling



Short Movie



See Video at : www.HyperSciences.com

Energy Drilling



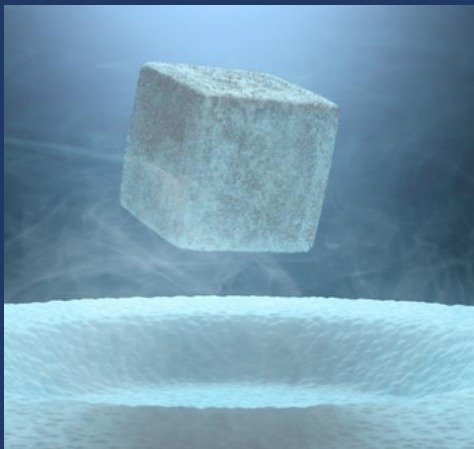
Infrastructure

Industry /Market Problems:
Low commodity prices. Hard rock.

Deep & expensive resources.

Market priority: Efficiency & Cost

Materials Production (Mining & MatSci)



Tunneling



A New Engine. High Impact Platform Technology

Breaking thru Rock with the
Power of HyperVelocity



HyperCore™



Piling



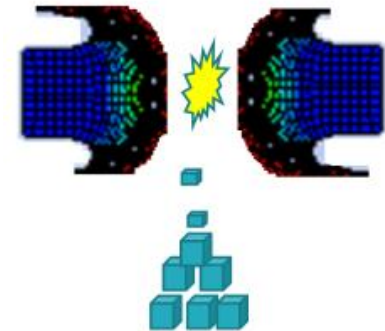
Mining



Energy Drilling



Tunneling



New Materials
(Abrasives &
Super Conductors)

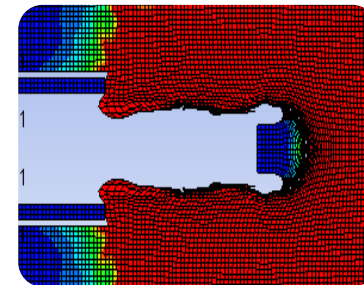
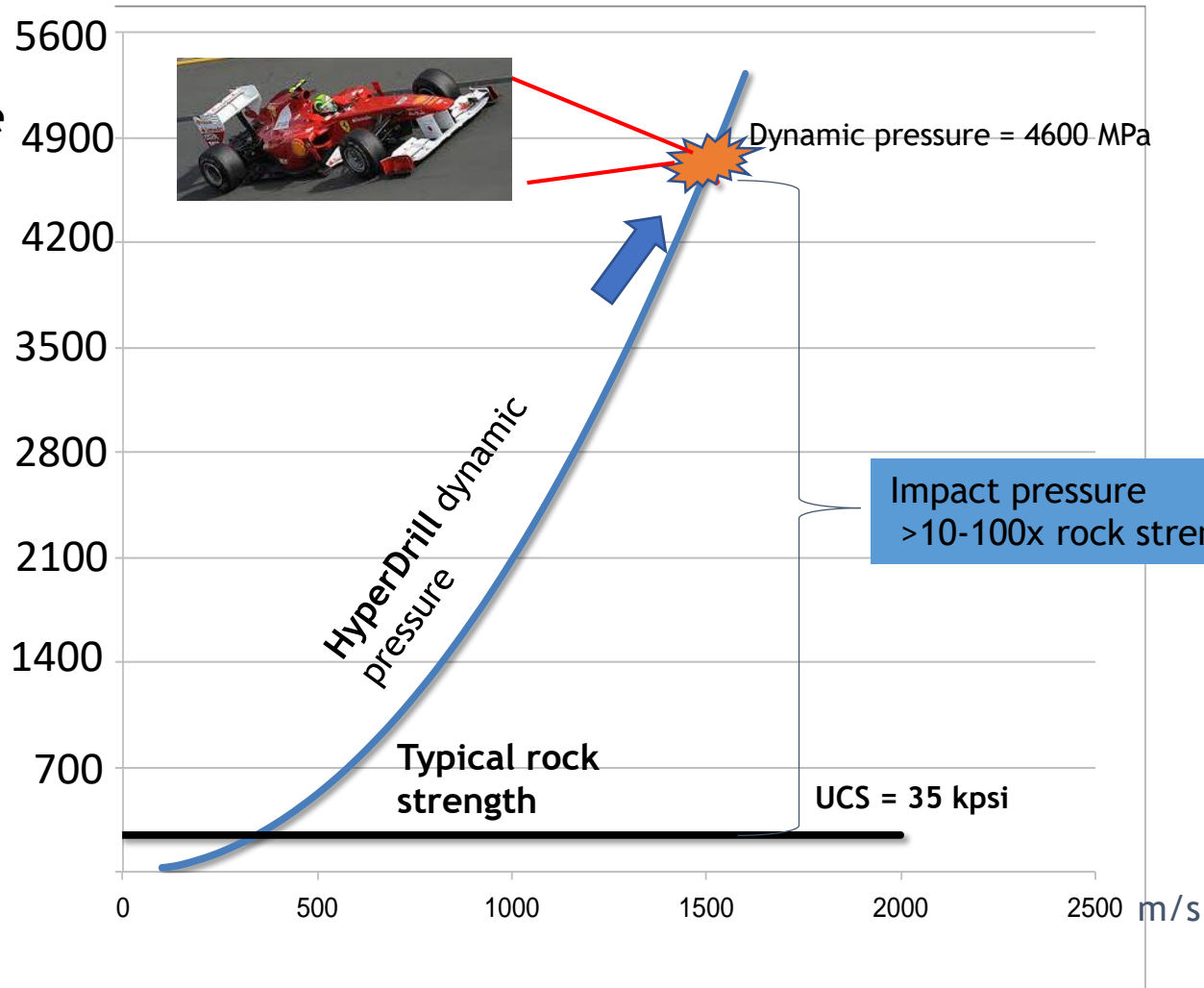
“GAS-POWERED RAILGUNS” TUNNELING, PILING, DRILLING DEEP GEOTHERMAL, MATERIAL SCIENCE



HOW: Focused Energy: Short, Extreme Pressure Impacts

10-100x rock strength = New way to break rock

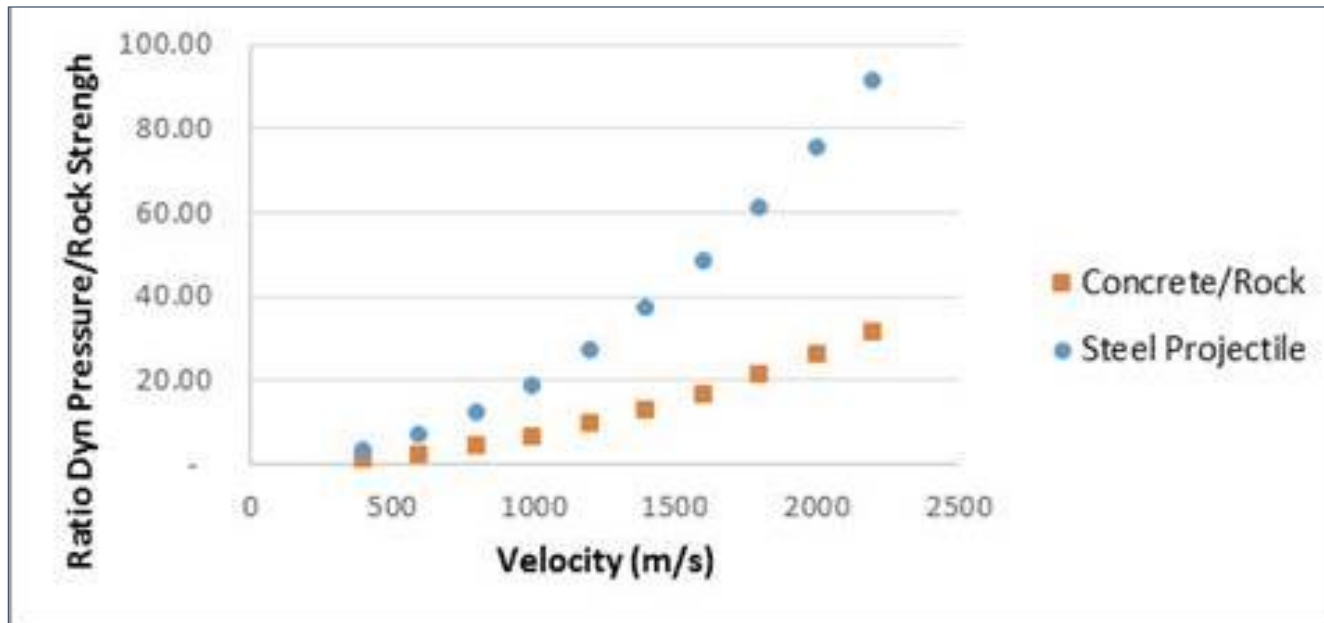
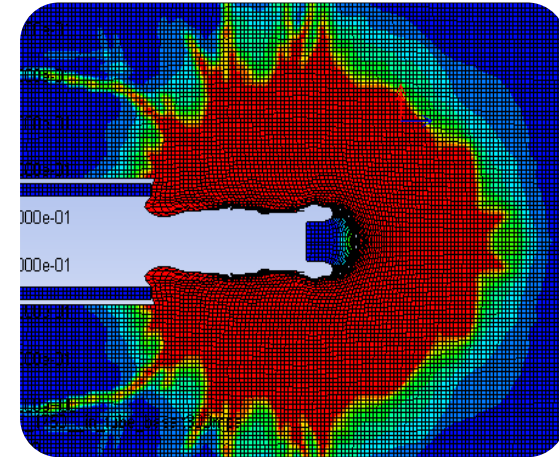
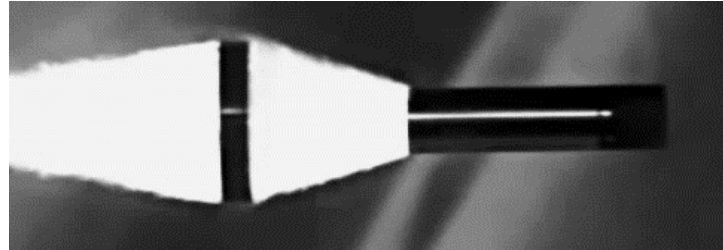
Generate pressures that are order of magnitude greater than rock strength



World's fastest commercial projectile technology: Mach 4.5+

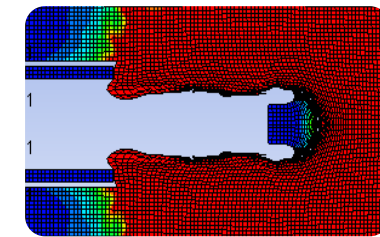
Rock Breaking Efficiency: Hydro-Elastic Impact

Short-Impact Pressure 10 – 100 x material strength



The Physics of Hyper Impact

- **Energy:** $E = \frac{1}{2}MV^2$ (Joules)
~1MJ: 700 grams @ 1650m/s
- **Power:** $P=E/dt$ (Watt)
~350 MW (.003 sec)
- **Impact Pressure** = $\frac{1}{2}\rho V^2$ (Pa) [psi]
~4000 MPa
~ 500 Tonne-Force
- **Break Rock:**
Variable: Mass, Velocity
5X-10 X Faster, 30-80% lower cost



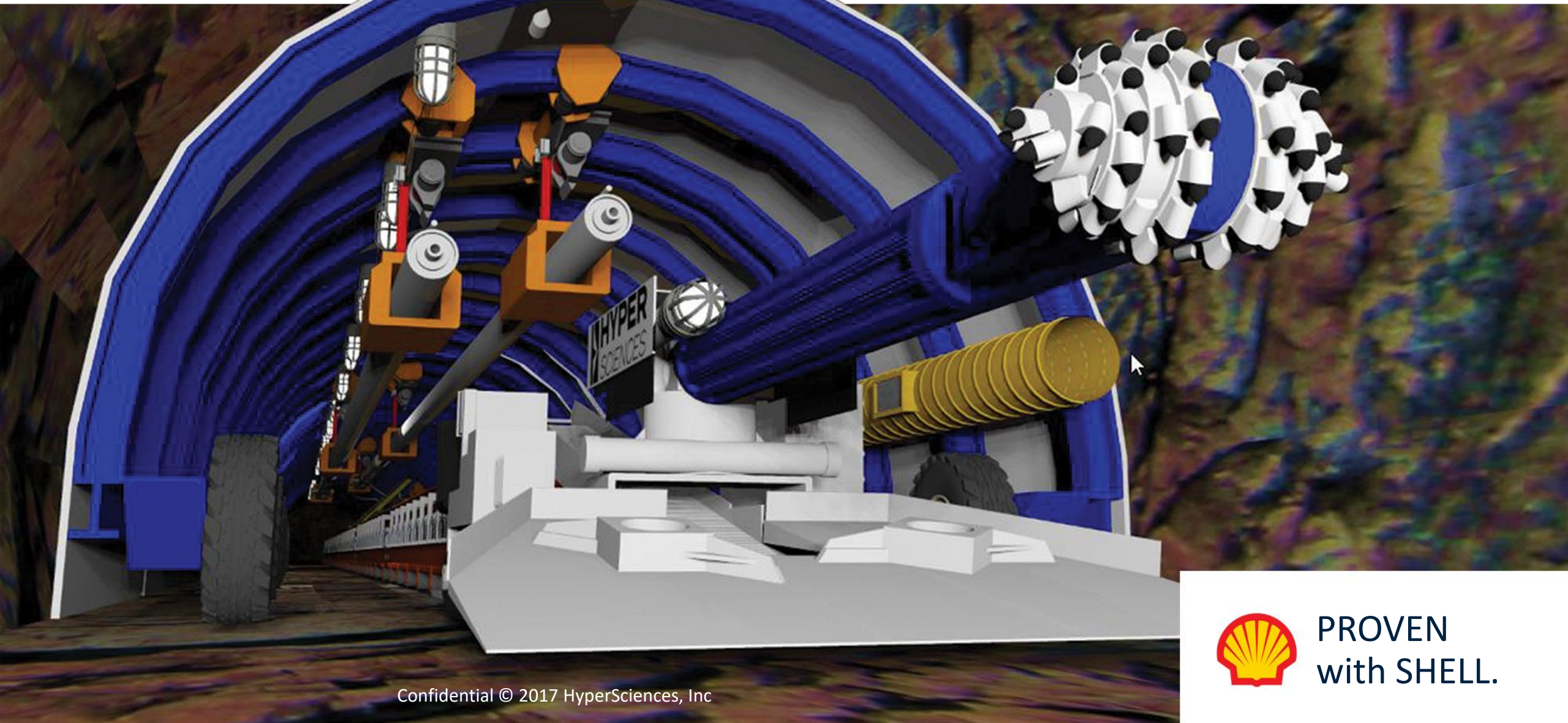
Pile Driving & Foundations

- 10 X Faster Pile Driving / Foundations



TUNNEL 5X FASTER.
30% LOWER COST.

DRILL 10X FASTER & DEEPER.
EXTREME LOW COST



Confidential © 2017 HyperSciences, Inc

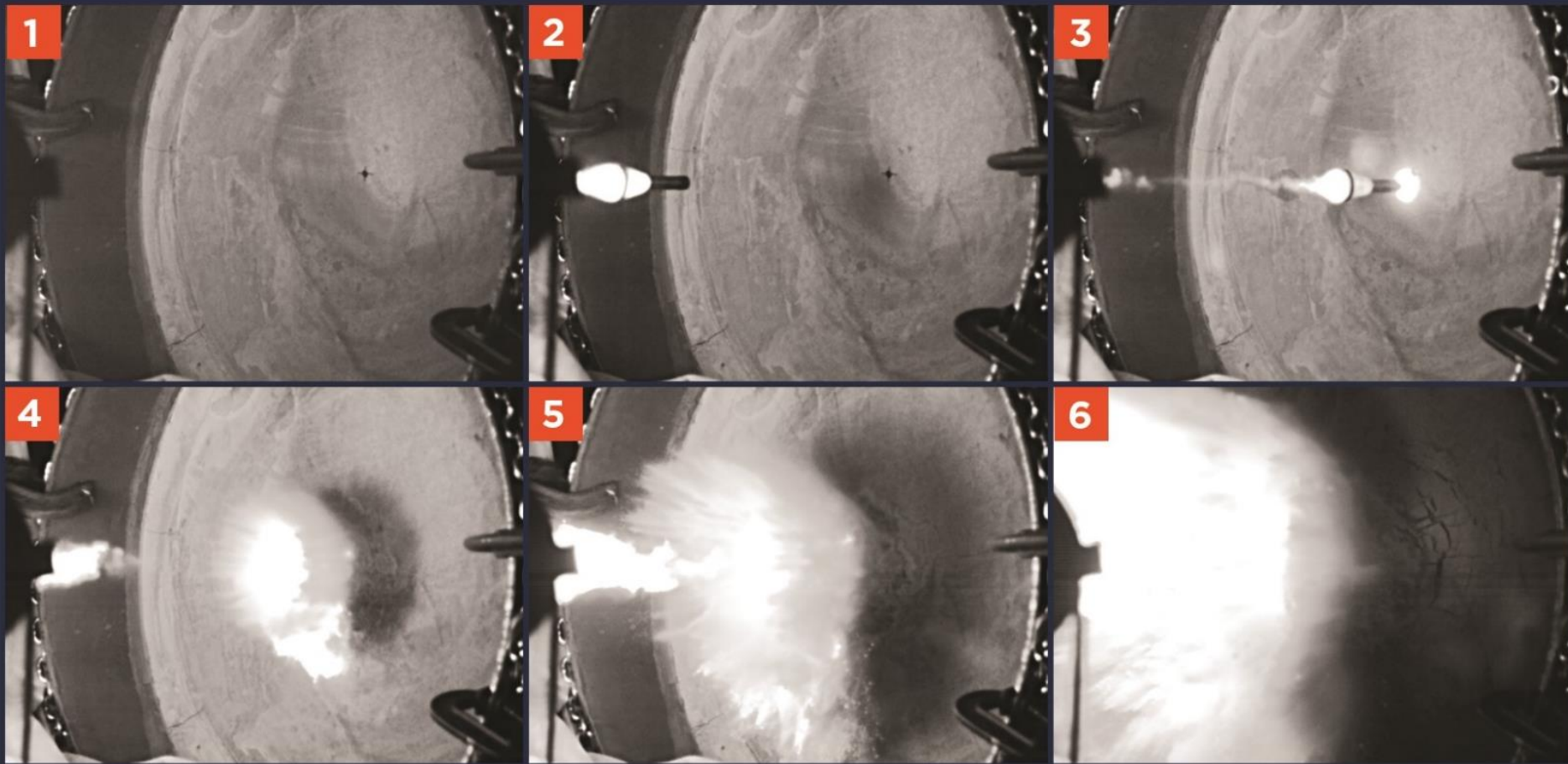


PROVEN
with SHELL.

HOW: Hydro-Impact Projectile

Near-Surface impact Mach 6 (2 km/s)

PROJECTILE BLAST SEQUENCE

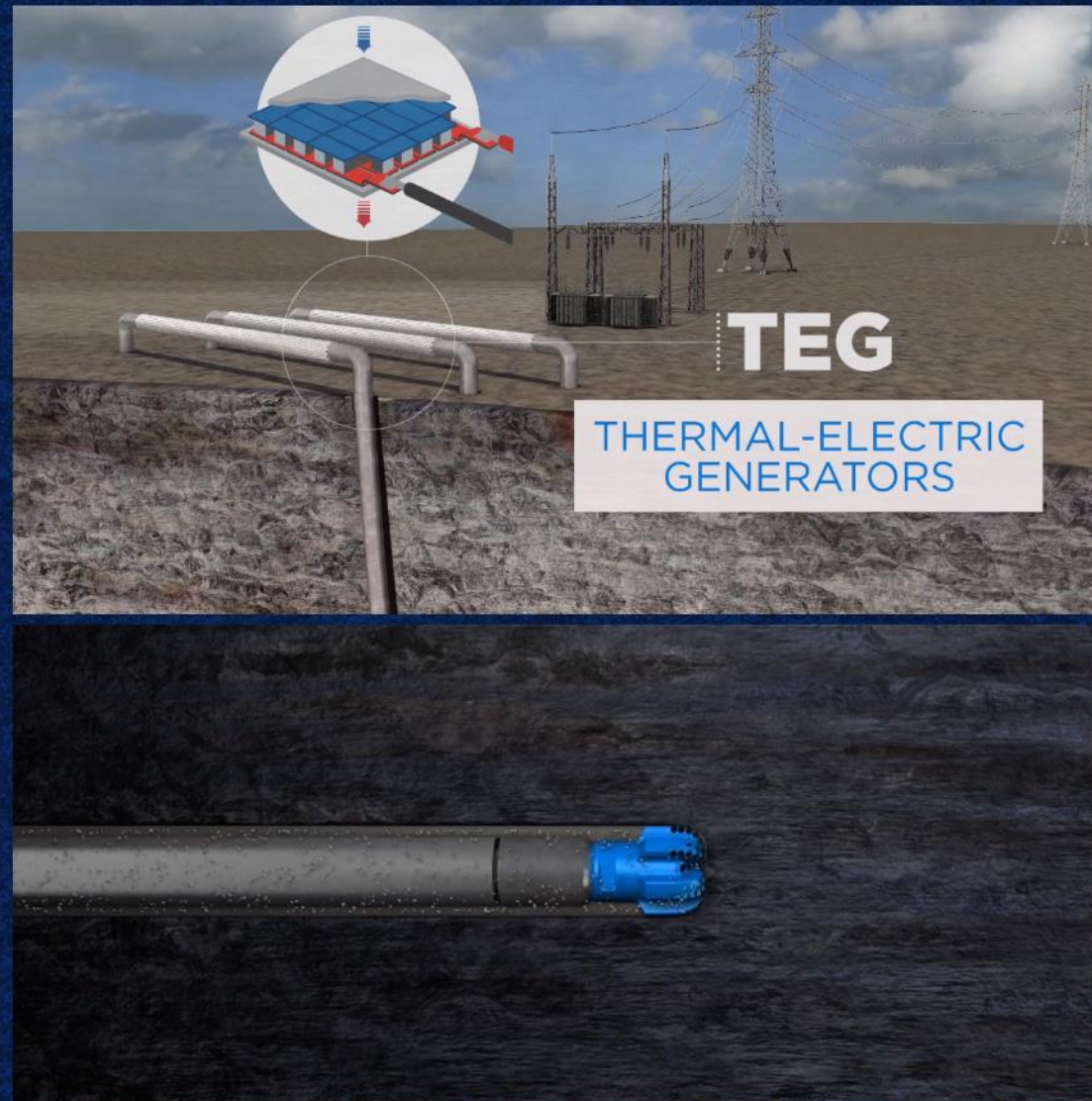




HYPERDRILL™ ENABLES ENERGY ANYWHERE™

Our Patent-Pending Silicon TEG Plant is Moore's Law for Geothermal.

- *NEW ENERGY*
 - *\$2.5M / MW INSTALLED*
 - *\$.05 / KW-HOUR*
- PLANT SIMPLY SCALES*



Graduate

Our Geothermal and HyperDrill™ technologies were sponsored & funded in-part with Shell Game Changers™ Program

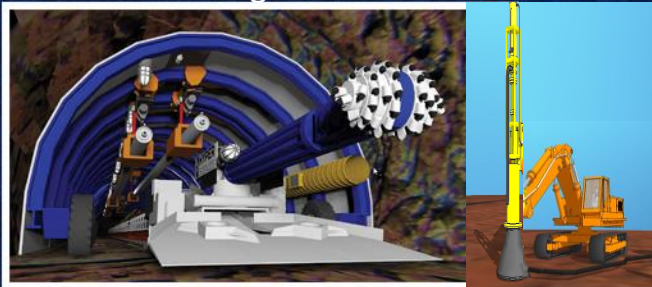


COMMERCIALIZATION PATH:

Hyper-Drilling and Tunneling

2017

Tunneling & Piling-
Conductor Casing



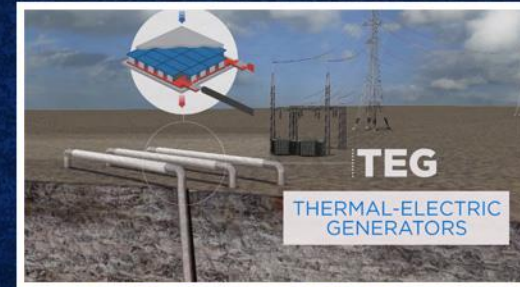
2018

HyperDrill™ Field Trials



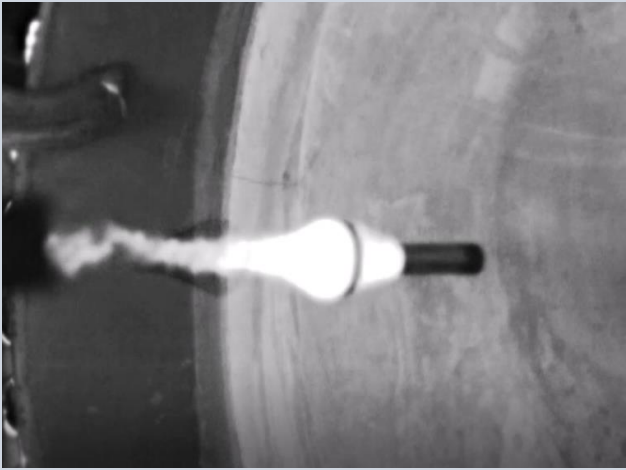
2020

Energy Anywhere™ Geothermal



Platform Technology: Aerospace and Natural Resources

Low Cost Projectiles at Hypersonic velocities break and pulverize rock



Market priority: Efficiency & Cost

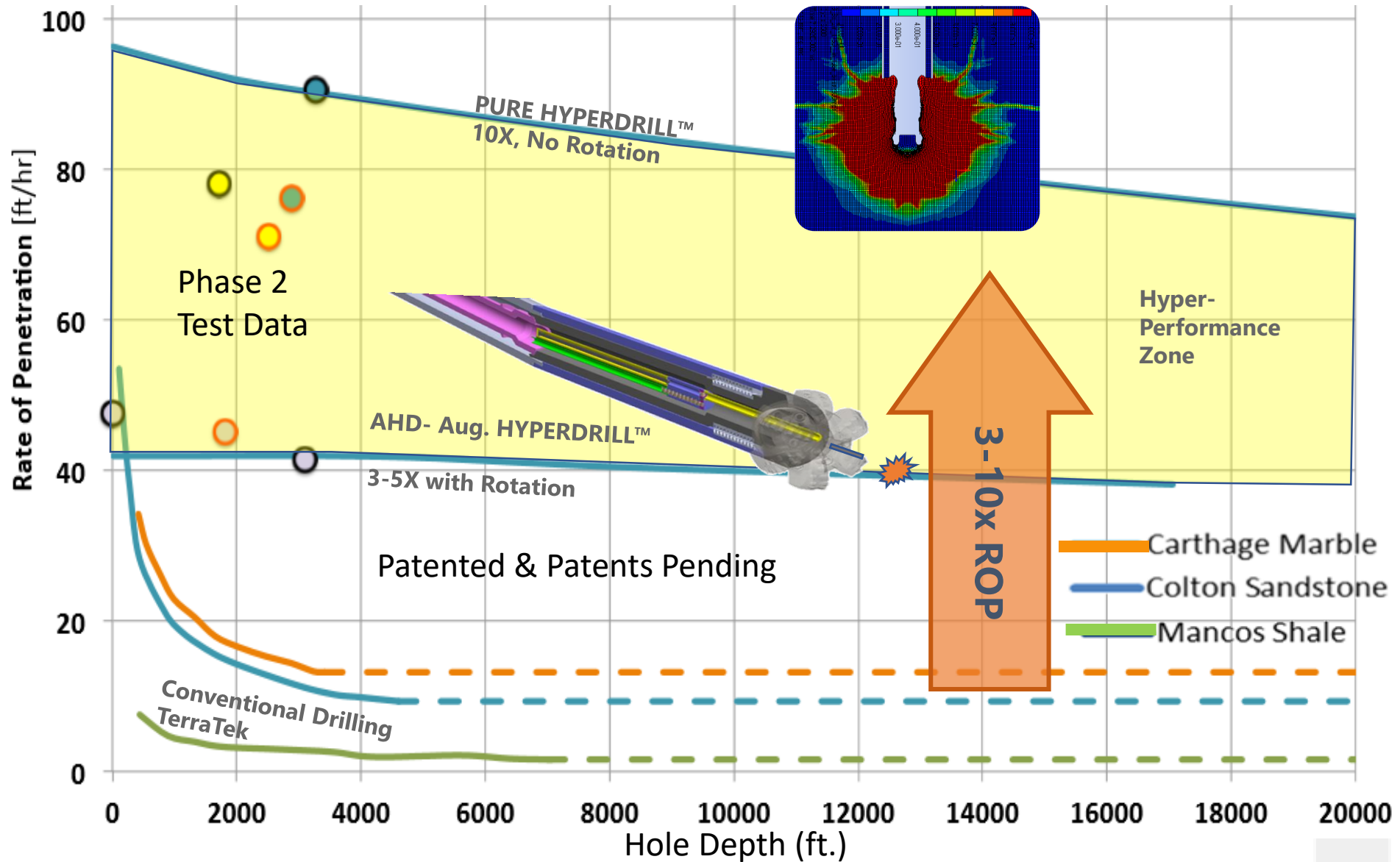
- Low commodity prices. Hard rock.
- Deep & expensive resources.

HyperSciences Solution:

- Mature industrial-aerospace technology.
- V^2 Power of extreme velocity to break and pulverize rock
- Radically changes the economics of breaking & Pulverizing Rock.



HyperDrill™: Quantum Leap in Depth, Time & Cost.



Proven.

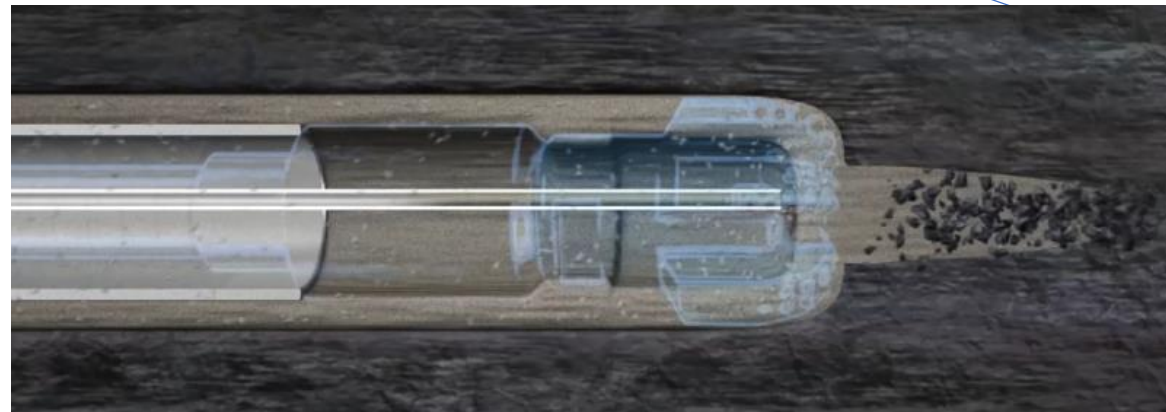
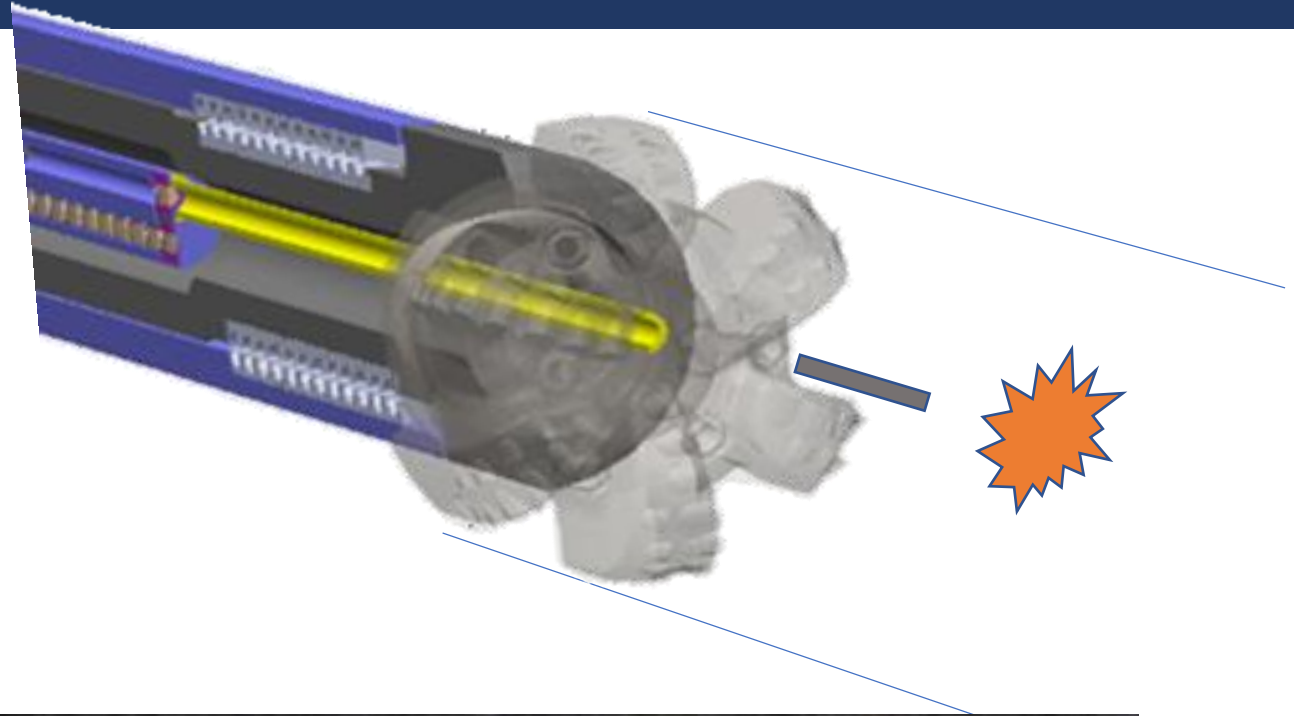
Augmented HyperDrill™: Guaranteed performance

Key Advantages:

- Lower Bit Count & Trips
- Save up to 50% Rig Days/Cost
- Complete compatibility
- Fast !

Key Use Cases:

- Chert & Variable rock
- Deep
- Hard Rock



PURE HyperDrill™ = No rotation required ! 10X+ ROP

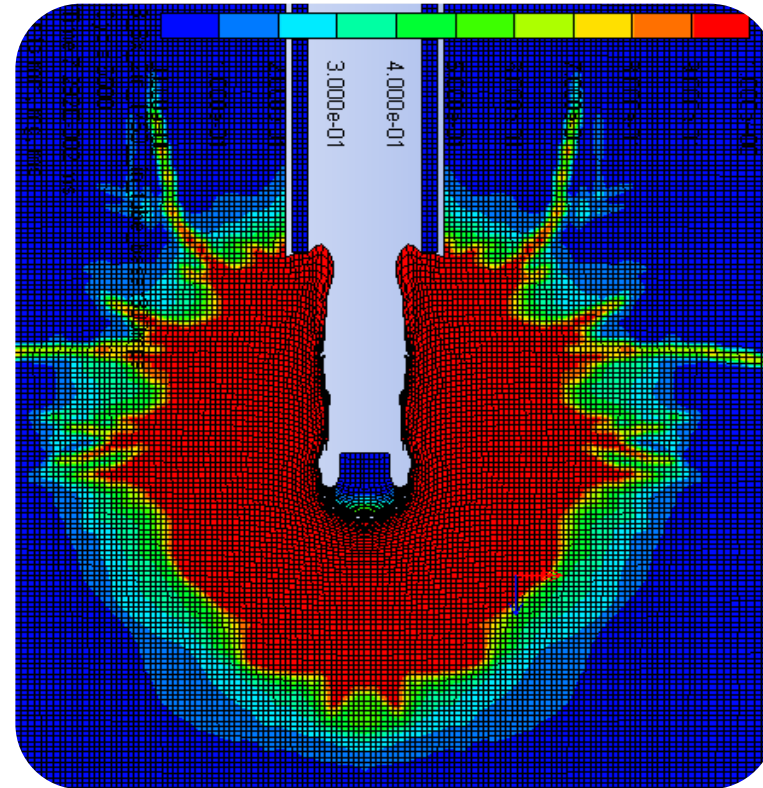
Key Advantages:

Hyper-projectile does all the work

- Eliminate Bit Count & Trips
- MonoBore to TD if desired
- Save 80% Rig Days/Cost
- Rig compatibility
- Steerable

Key Use Cases:

- Granite/Basalt
- Chert & Variable rock
- Deep
- Hard Rock
- Geothermal



Patented & Patents Pending

The logo features a stylized white icon on the left, resembling a right-pointing arrow or a chevron with a vertical bar on its left side. To the right of this icon, the word "HYPER" is written in a bold, uppercase, sans-serif font. Below "HYPER", the word "SCIENCES" is written in a smaller, uppercase, serif font.

HYPER
SCIENCES

Harnessing the Power of Extreme Velocity

- Shell Game Changer



2.5 yr Funded

- Proven Technology

High Pressure Demo Tests

100's tunneling field tests

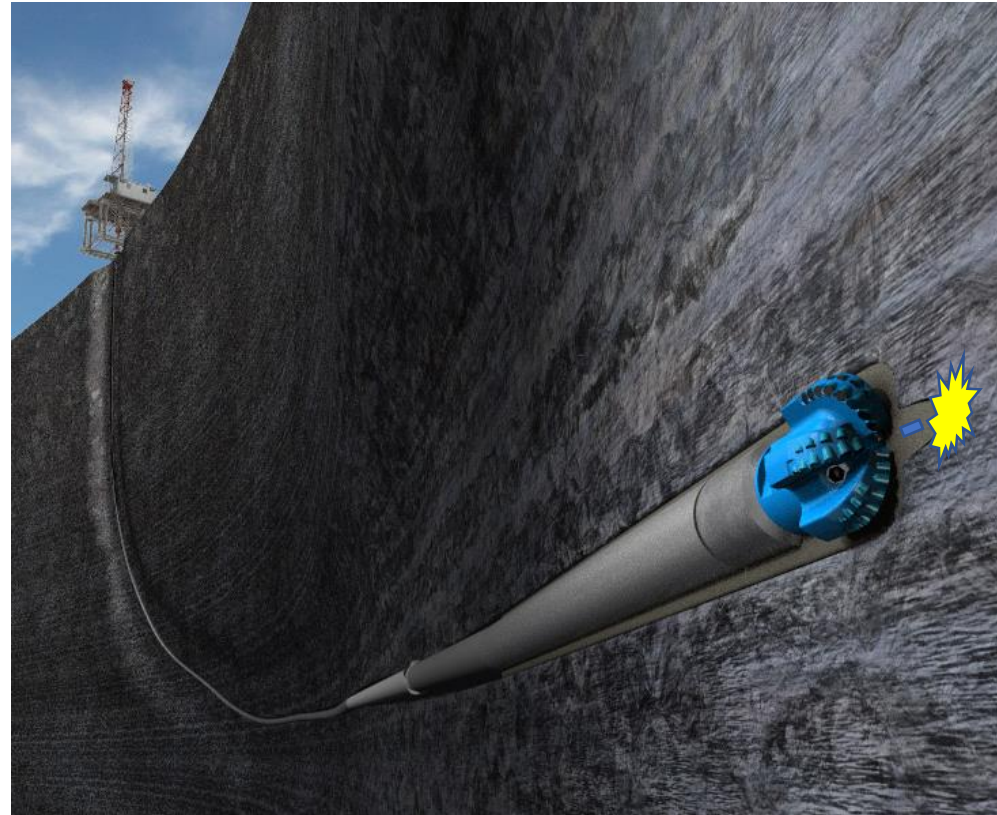


- Independent econ analysis:

\$15.5 Billion dollar value in drilling

\$100's M + annual revenues

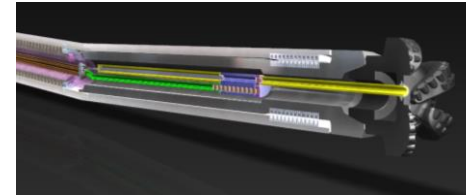
- Field trials now -> 12 months
 - Steerable. 3-10x ROP



Aug. HyperDrill Technology Overview

Driver Tech

Diesel/air HyperCore is integrated in the BHA, Similar propellants as diesel engine



Driven Tech

Composite projectile is designed for high density to maximize dynamic pressure but will erode at impact.



Performance

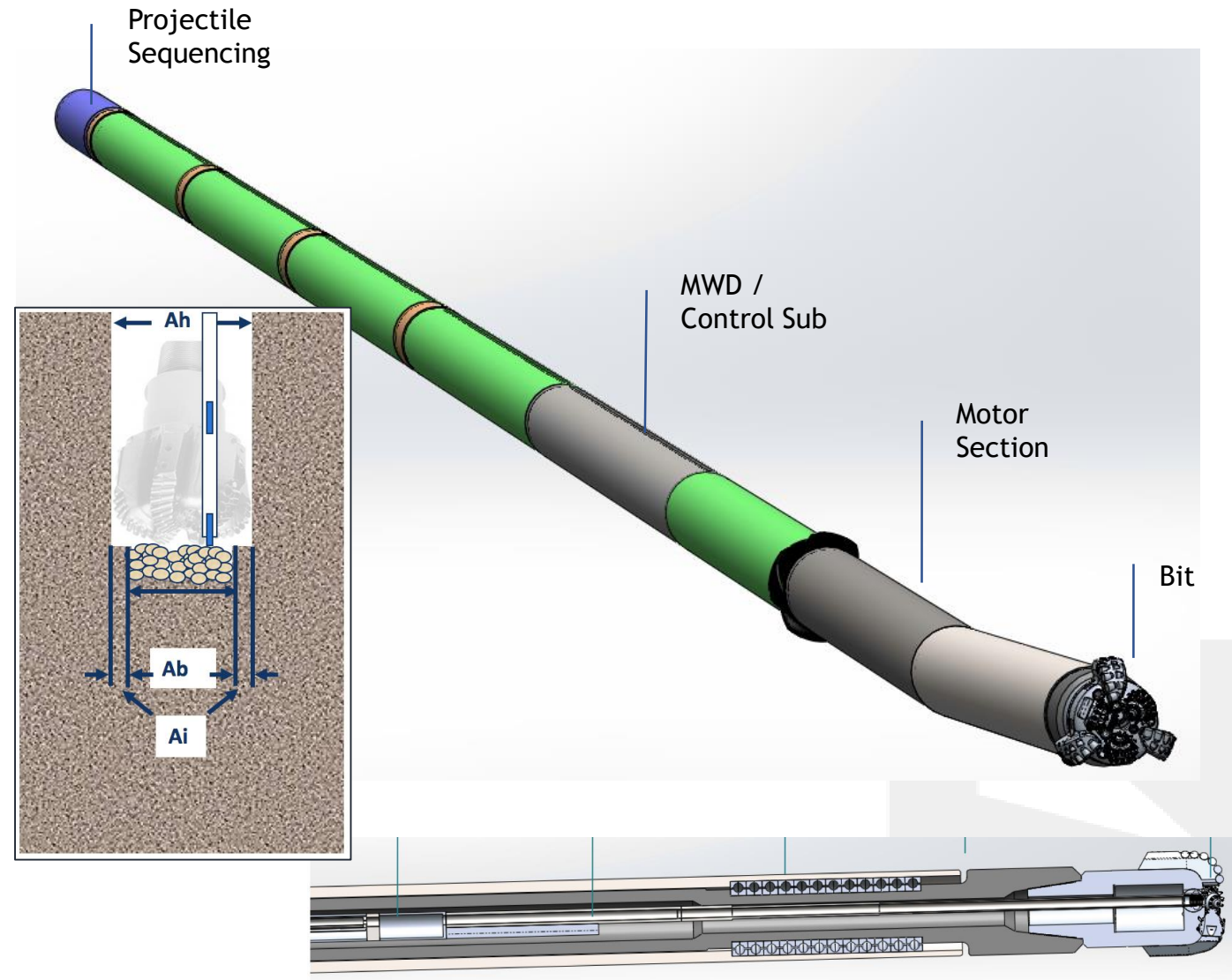
Projectile impact creates crater, weakens rock, and creates fractures, improving ROP by 5-10x especially in hard rock and high pressure conditions



Minimum Viable Product Downhole Tool Design

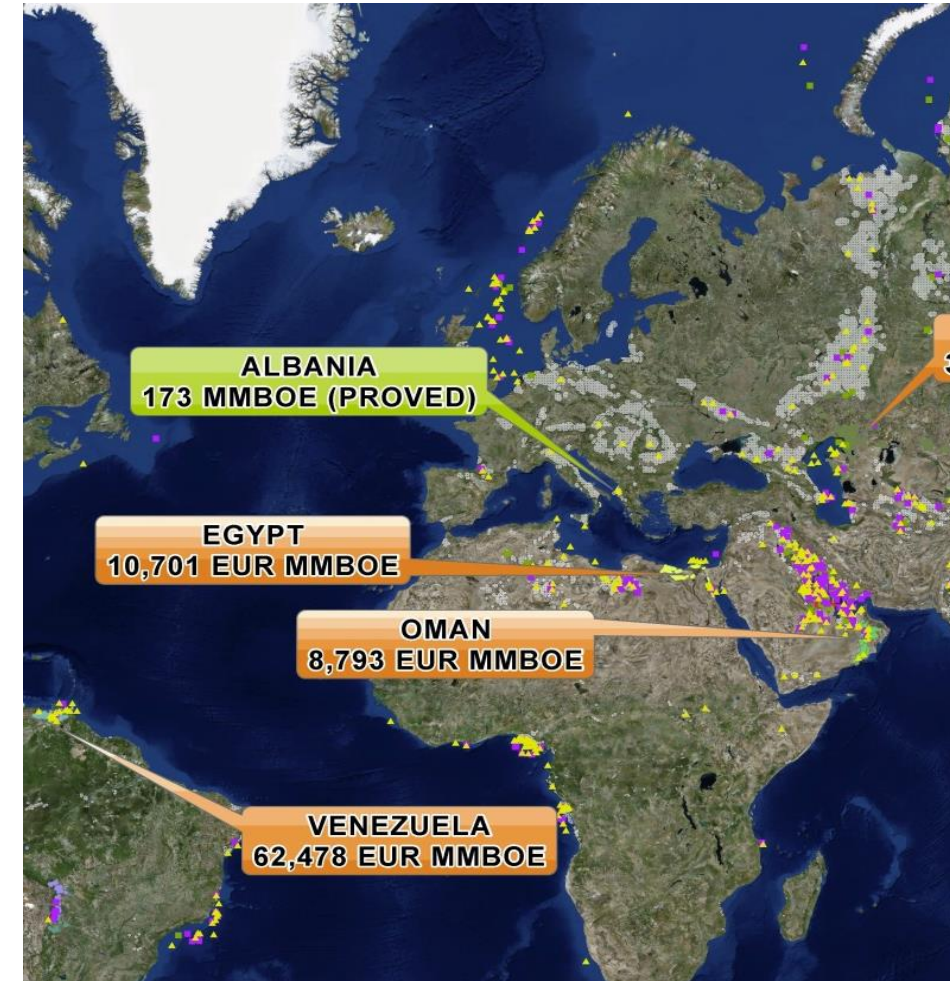
Tool Features:

- 3-5x ROP Improvement
- Drop-in compatible with existing drilling technology
- Augmented HyperDrill – HyperCore gun integrated into rotating drill bit
- BHA features
 - Bent sub steering to 15 deg/100 ft



O&G Drill a Well on Paper Summary: \$1- \$4M per well net saved w/ Aug HyperDrill

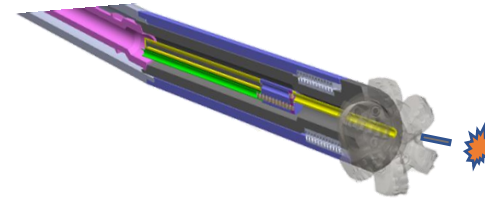
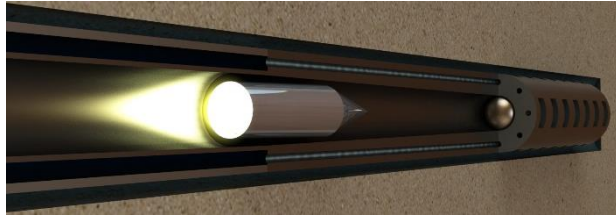
- Europe: **\$4.6MM (38%** of Combined Sections Drilling Costs) per well **net** savings to operator
 - Expected 10-12 well program = \$50MM savings
- Oman: **\$1.35MM (47%** of Combined Section Drilling Costs) per well **net** savings to operator
 - Expected 60-100 well program = \$105MM savings
- **Performed economic analysis for another Major IOC company – confirms our results.**



Shell Contract / Path



GameChanger



PHASE 1	Complete	PHASE 2	Complete	PHASE 3	Complete
"Feas. Study: Drill Hole On Paper" report (DWOP)		Drill actual hole based on Phase 1 findings		Down-hole MVP tool design. OG&Geo DWOP	

- **Drill horizontal hole**
- Commission prototype at MineLab silver mine (N. Idaho)
- **Simulate drilling at depth**
- Conduct test shots using stressed rock targets (simulated pressure environment) SWRI
- **System integration**
- Evaluate solutions for HSSE, blowout prevention, cuttings removal, cementing, casing, etc.
- **Define MVP (Min. Viable Product)**
 - Down-hole tool & Drill well on paper exercises to support Series A due diligence (September 2016)
 - **Oil & Gas Engineered Geothermal – New Energy Opportunities**

Proof Points

Hypervelocity Testing

Thousands of hypervelocity experiments completed by HSI team.

Bore sizes: 0.5", 1.5", 4"
Most experiments done in 1.5-2.7 km/s range



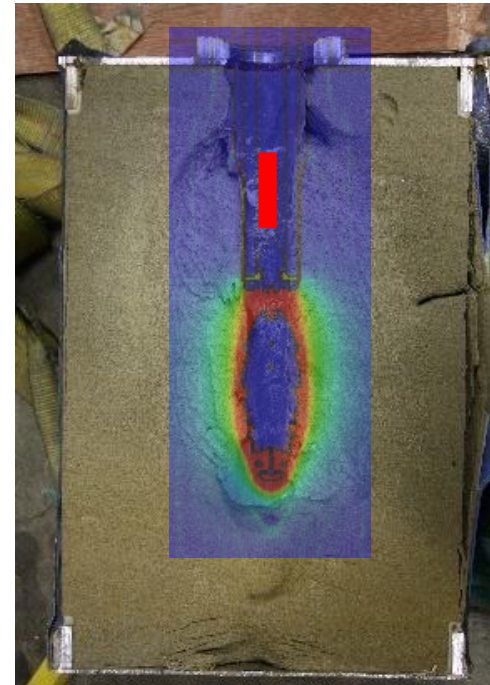
Rock Impact Testing

Hundreds of tests done in rock types of interest at downhole conditions (saturated samples under confining pressures > 3000 psi)

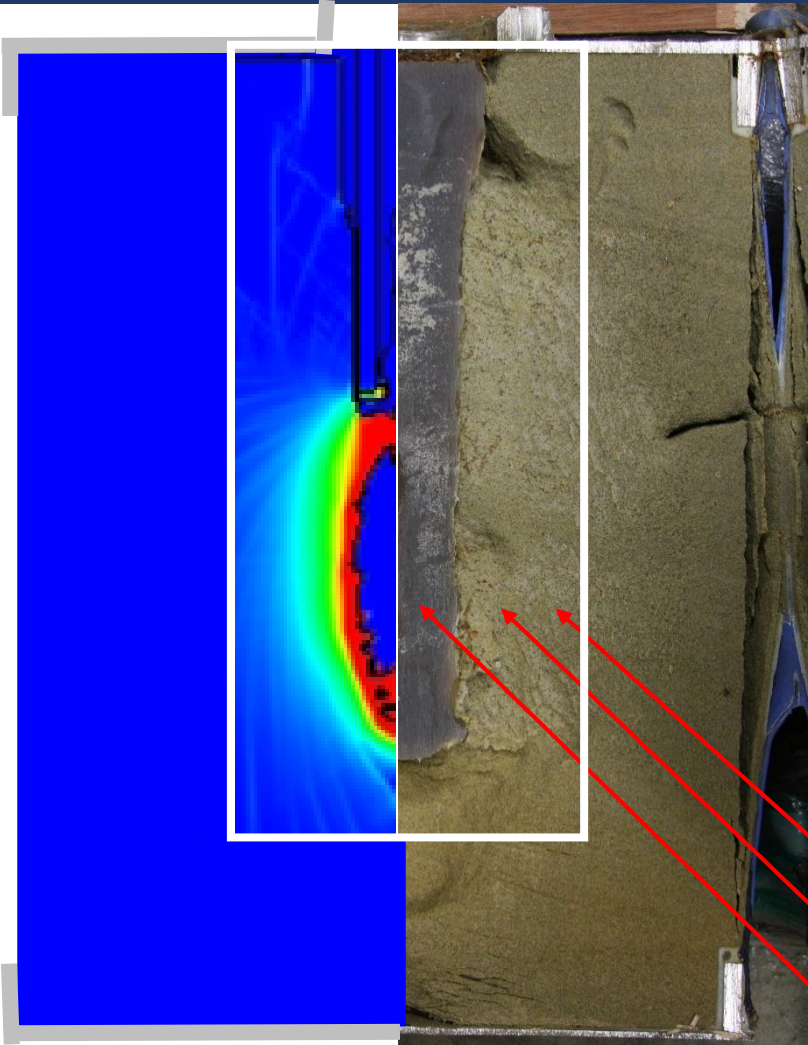


Model Correlation

Hydrocode models predict penetration characteristics and have been calibrated by Shell experiments. ROP proof.

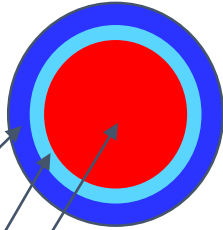
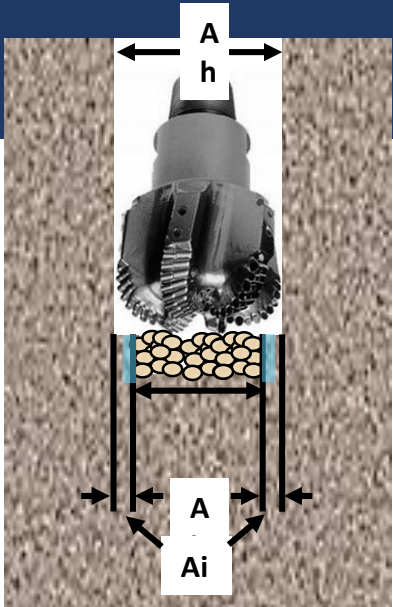


Damage Zones Details –Computational MSE ROP Models



CTH Model

HSI/SWRI Test



There are three zones in the hole bottom post-shot:

1. Intact rock
2. High porosity (weakened) rock
3. Crater



Seeking JIP Partners & Series A investment

**Non-equity Joint Industry Project Partners
\$250k minimum, applied as project specific**

**Hypervelocity.
A revolutionary
technology platform**



- HyperDrill Field Trials (\$2.5-3 M, 3 phases)
 - **Phase 1: \$450k** phase w/ Matched \$450k 4.5" Hole
 - **Phase 2: \$1.25 M** 8-12" Hole
 - **Phase 3: \$ 500k** 8-12" at 2000 ft section field trials

Disruptive Innovation

Paradigm shift: Pulverize hard rock. New Materials

Multiple Industries

Drilling, Civil Tunneling, Mining, Material Science, Aerospace

\$ Billion Markets

TAM estimated at over \$5 billion/year



O&G Drill a Well on Paper Summary: \$1- \$4M per well net saved w/ HyperDrill

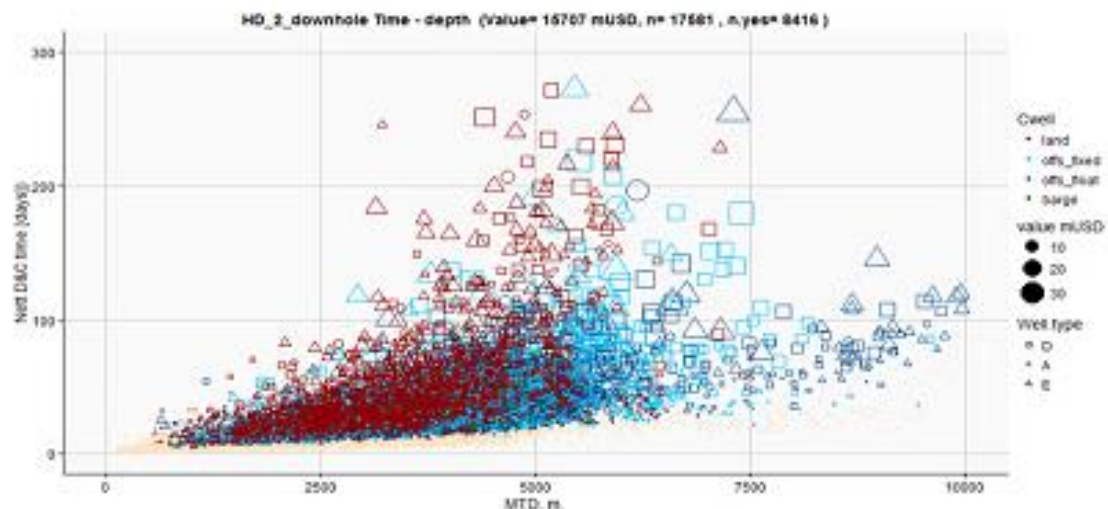
- Shell Project 1: > **\$4 MM**
 - (**38%** of Combined Sections Drilling Costs) per well **net** savings to operator
- Shell Project 2: > **\$1.5MM**
 - (**47%** of Combined Section Drilling Costs) per well **net** savings to operator
- **Performed economic analysis for another Major IOC company – confirms our results.**



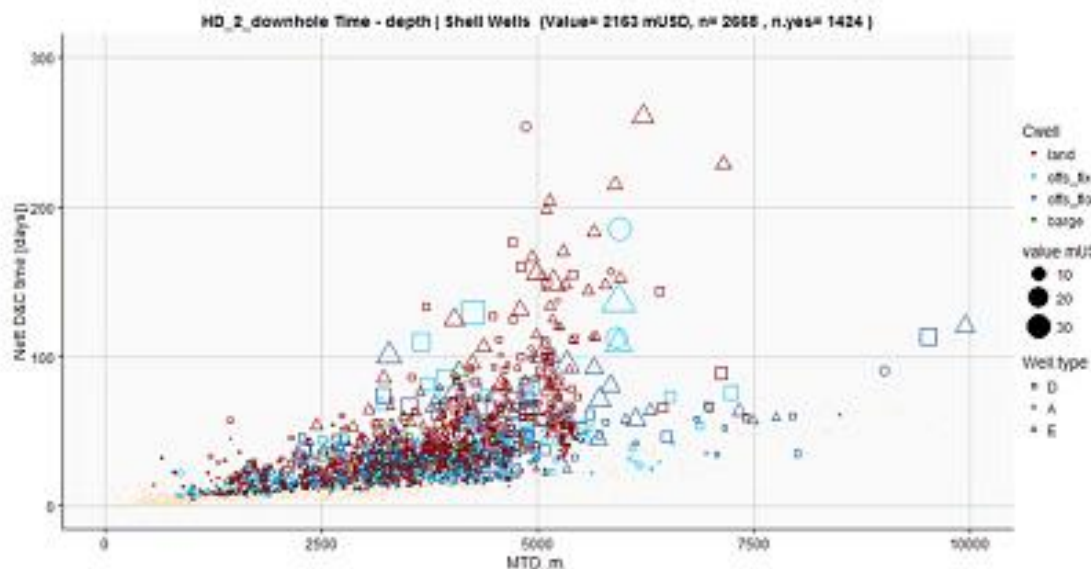
- Technology basis mature and demonstrated
- MVP design complete & vetted by Shell and another Major
 - No Technical show stoppers
 - Risks identified and plan to test/mitigate identified
 - Series A ask focused on proof well demo
- DWOP Oil & Gas shows game Changing economics for operator
 - Europe: \$4.6MM (38% of Combined Sections Drilling Costs) per well net savings to operator
 - Expected 10-12 well program = \$50MM savings
 - Oman: \$1.35MM (47% of Combined Section Drilling Costs) per well net savings to operator
 - Expected 60-100 well program = \$105MM savings
- Large opportunity Deep / Hard Rock
 - \$15 bn (10 year)

Note that this is a small but indicative fraction of the hundreds of thousands of newly drilled wells added every decade

Value:
\$15+ Billion



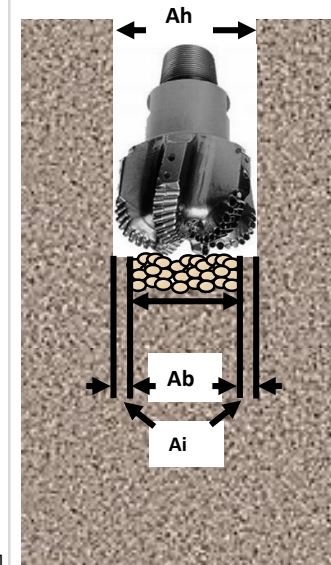
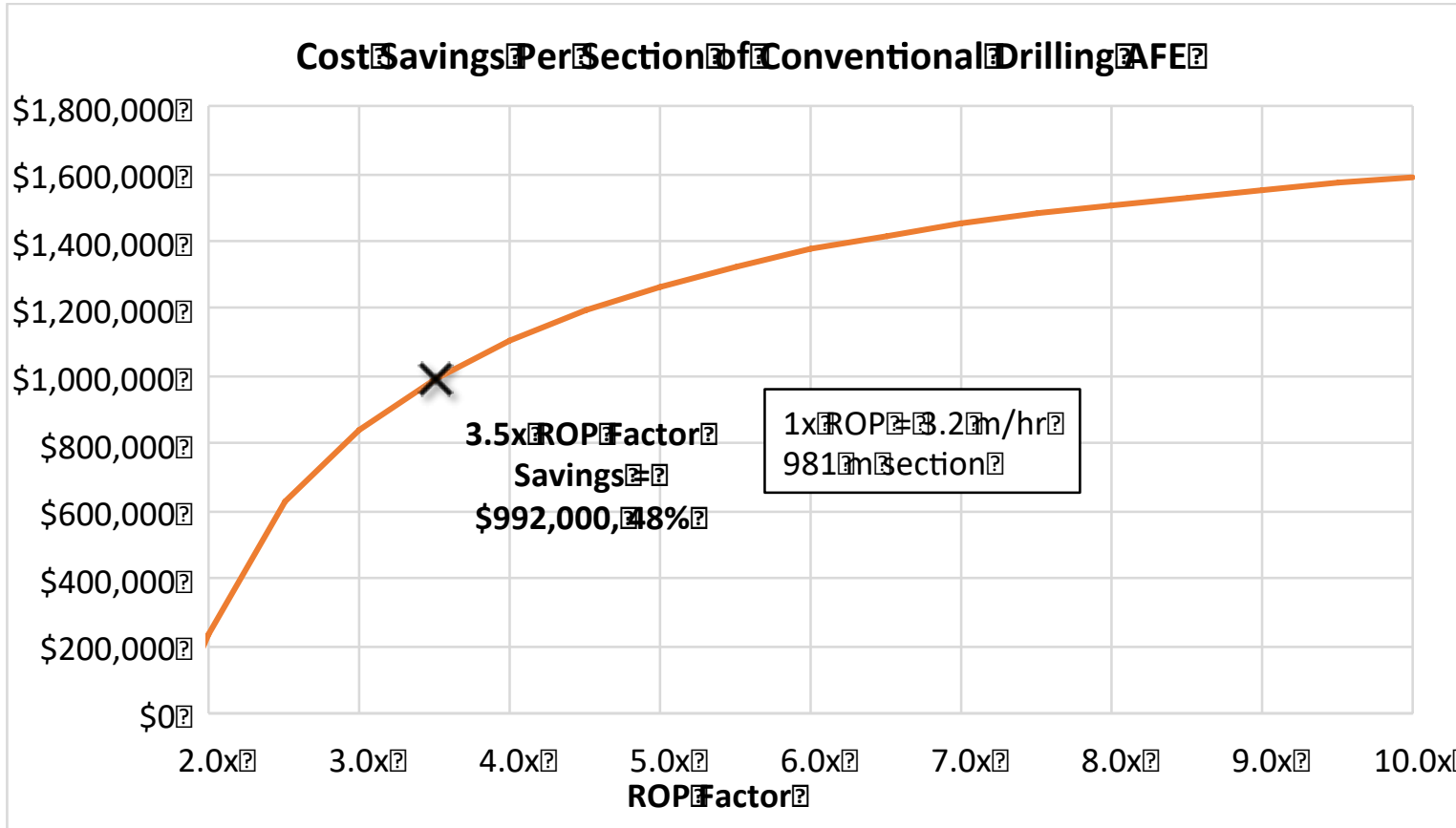
- Total value of base-line HyperDrill 1.0 design over the 10 year dataset is 15.7 billion USD, averaging 10% saving on dry hole cost on 8416 wells where the Downhole HyperDrill was used
- Value now more 20/30/50 for land/fixed/floating pushing value towards the high-end offshore floating installations.



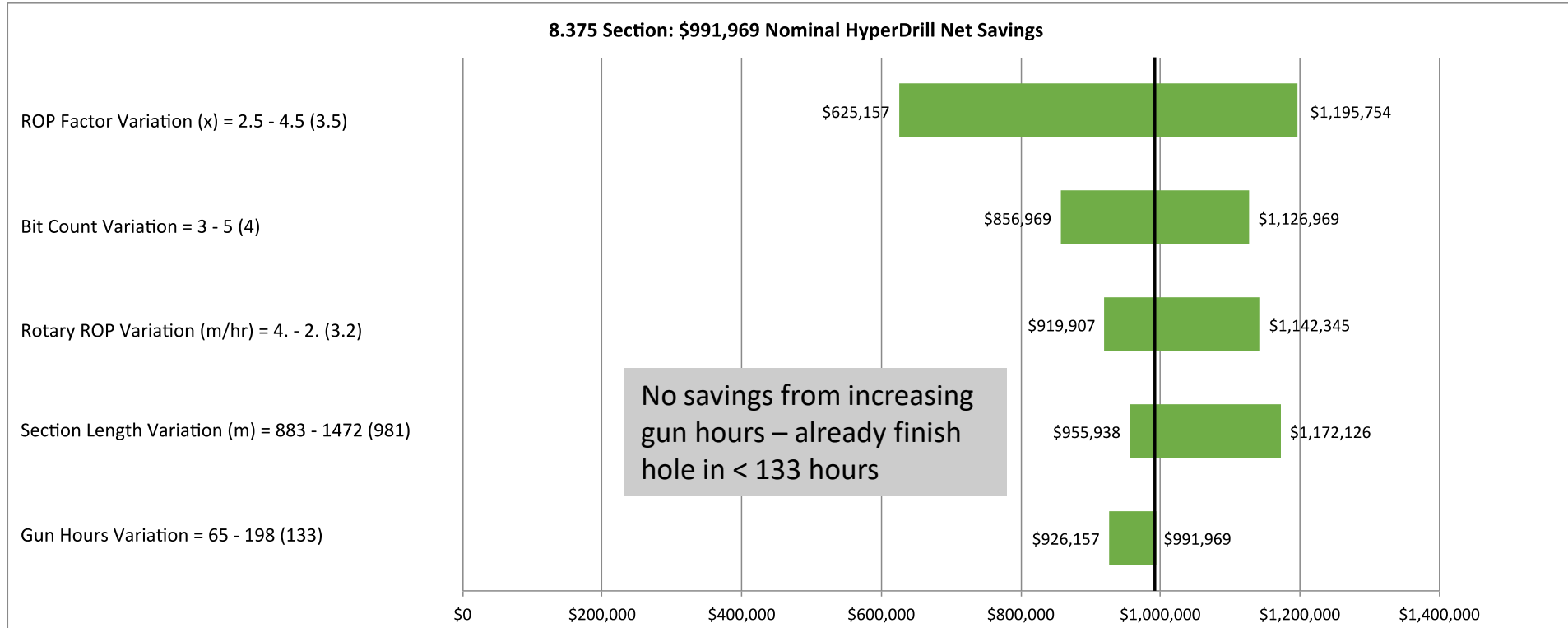
- Value of application to Shell and ex-BG portfolios approx 2.2 billion USD.
- Does not include non-operated wells-most

- 981m interval
- 6 bits
 - 4 PDC
 - 2 Impregs
- ROP = 3.2 m/hr
 - ~300 drilling hours
- ~18 days drilling + tripping
- UCS 35 – 65 ksi
- Temp 320 – 356°F
- MW = 14.1 – 14.4 ppg (OBM)
- Data provided by Shell via Email
 - K5 Bit Record

DWOP Oman 8-3/8" Hole Section HyperDrill 3-5x improvement



HyperDrill™ 8-1500-S
1500m/s
3", 27 gram darts
0.7" ID Barrel
Steering



Nominal Net Savings: \$992,000

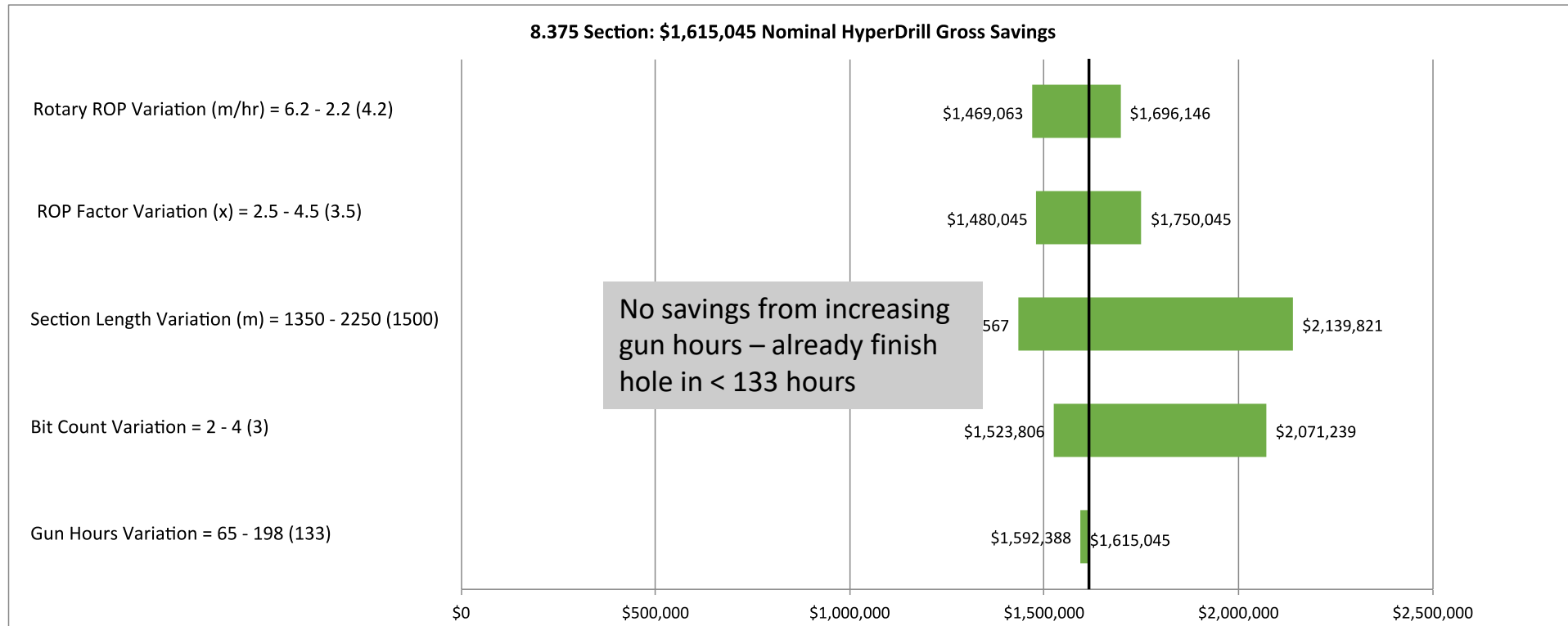
Minimum Net Savings: \$625,000 (ROP Factor Variation)

Maximum Net Savings: \$1,200,000 (ROP Factor Variation)

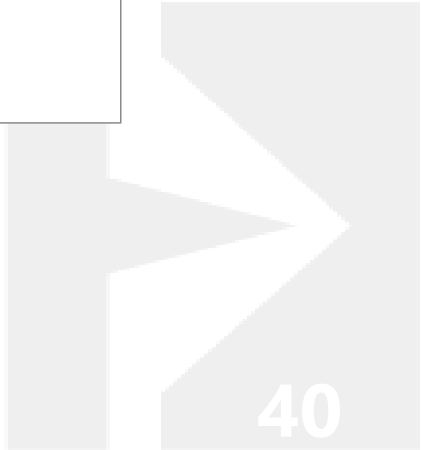
Summary: Slower conventional drilling and higher HD Performance = higher potential HyperDrill savings

DWOP Oman HyperDrill™ improvement

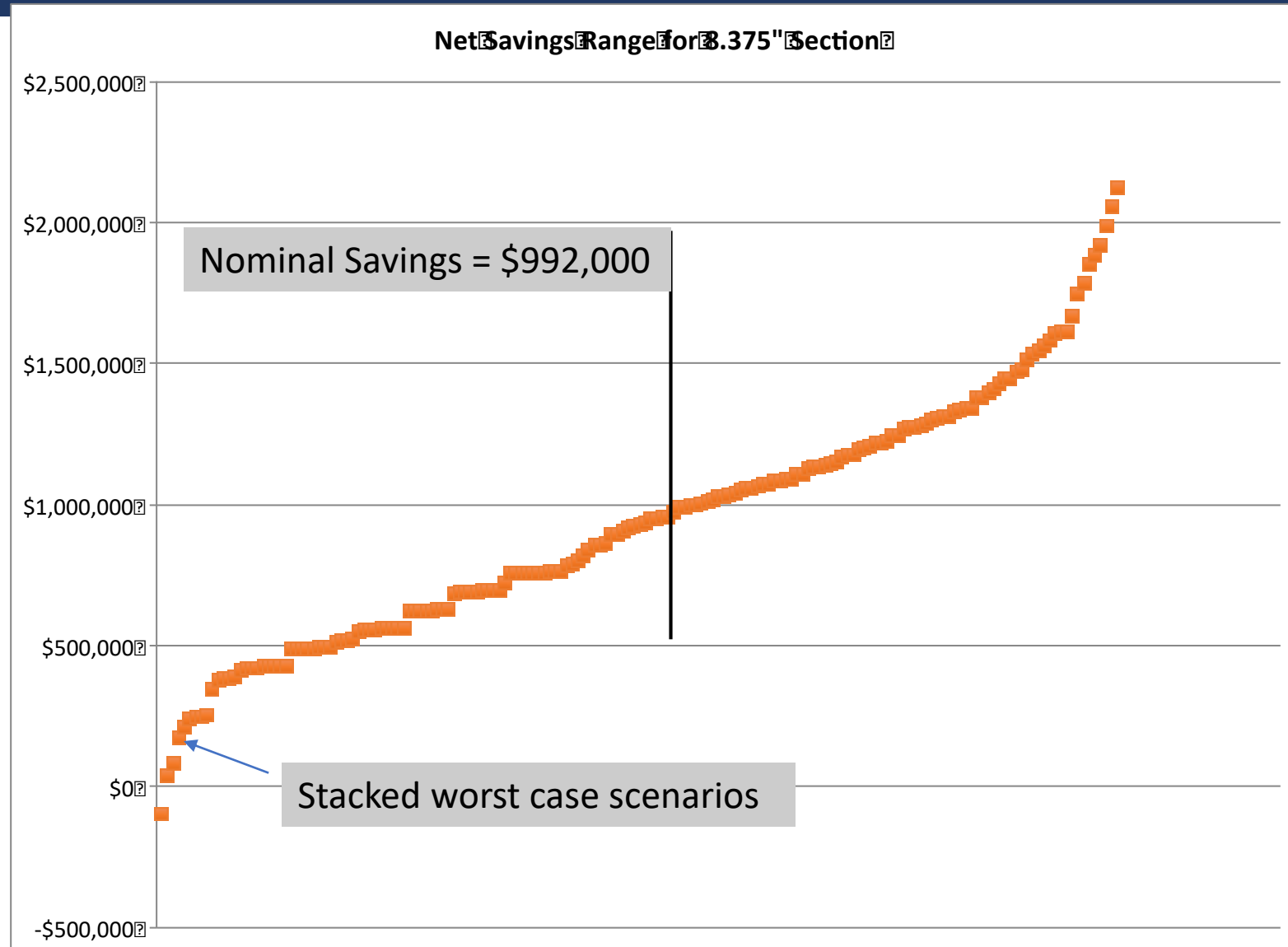
8.375" Gross Savings - \$1,40,000 - \$2,140,000 /section



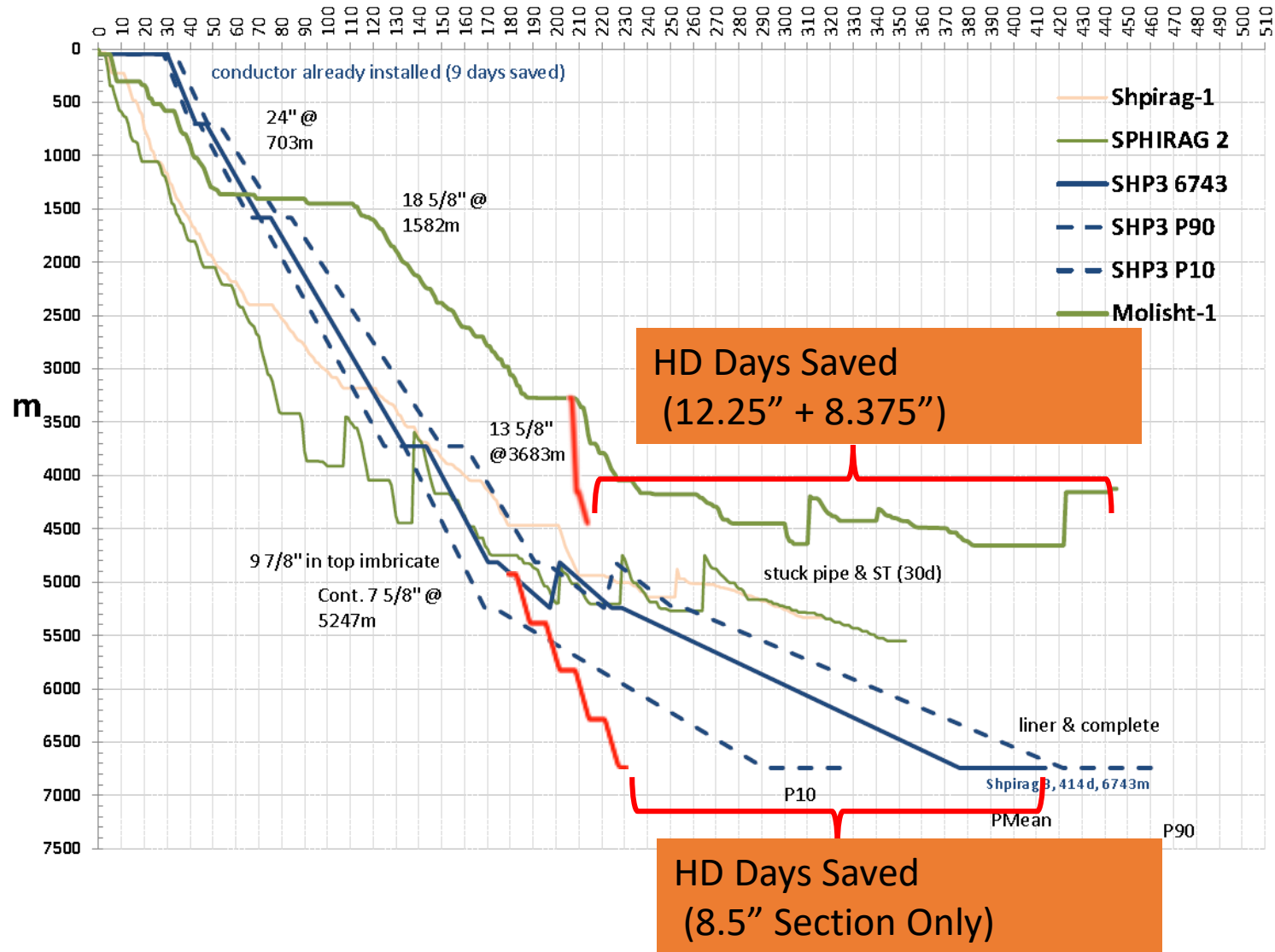
Nominal Gross Savings: \$1,615,000
Minimum Gross Savings: \$1,430,000 (Rotary ROP Variation)
Maximum Gross Savings: \$2,140,000 (Rotary ROP Variation)
 Summary: Slower conventional drilling = higher potential HyperDrill savings



DWOP Oman HyperDrill™ improvement 8.375" Section – Net Savings, Nearly Every Scenario



DWOP Oman HyperDrill™ improvement Days vs. Depth Europe – days saved



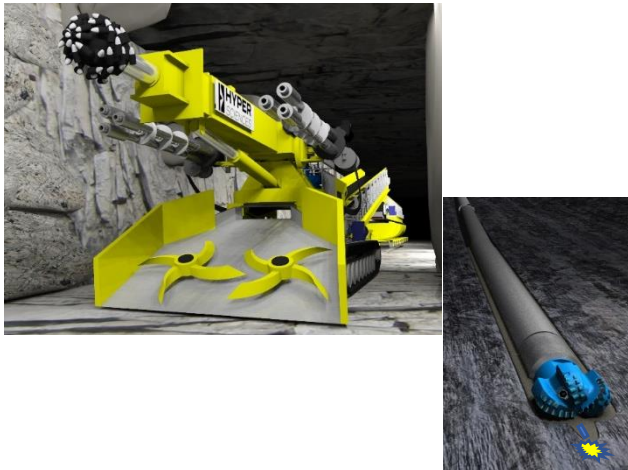
Commercialization Path – All Use HyperCore™ Engine inside

JIP's Joint Industry Projects /

SERIES A

Series B

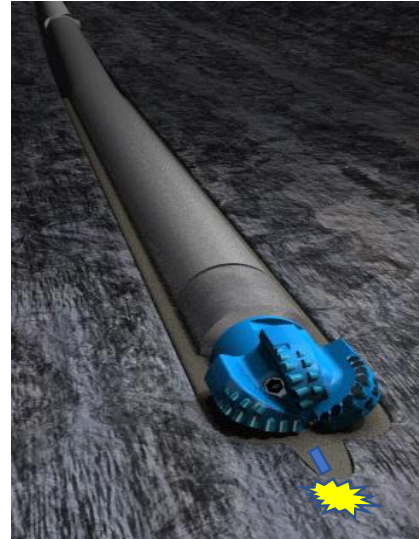
2017-2018



HyperDrill JIPs and Hyper Tunneling
Both with same HyperCore™

- Large scale facility
- Fully integrated
- Cost savings
- NPV/IRR increase
- Faster access

2018-2020



HyperDrill™ Field trials

- Hard rock drilling
- Oil & Gas
- Geothermal
- Access enabler
- Mature product
- Reliability will be key

Patented & Patents Pending

2020-2023



Energy Anywhere Geothermal

- Mature Technology
- Integrated Solution
- Revenue
- Baseload Power

HYPER SCIENCES

Harnessing the Power of Extreme Velocity



HTBM™: Hyper Tunnel Boring and Mining

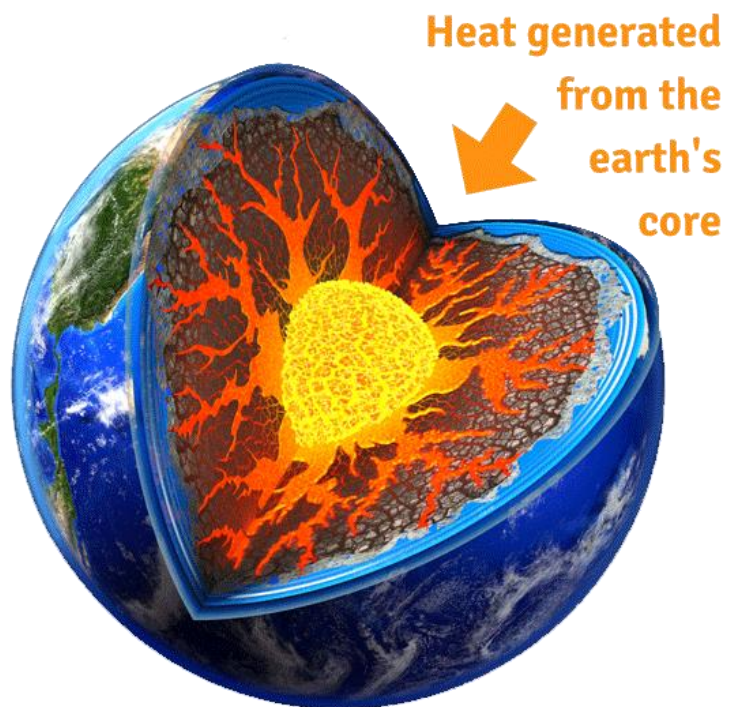
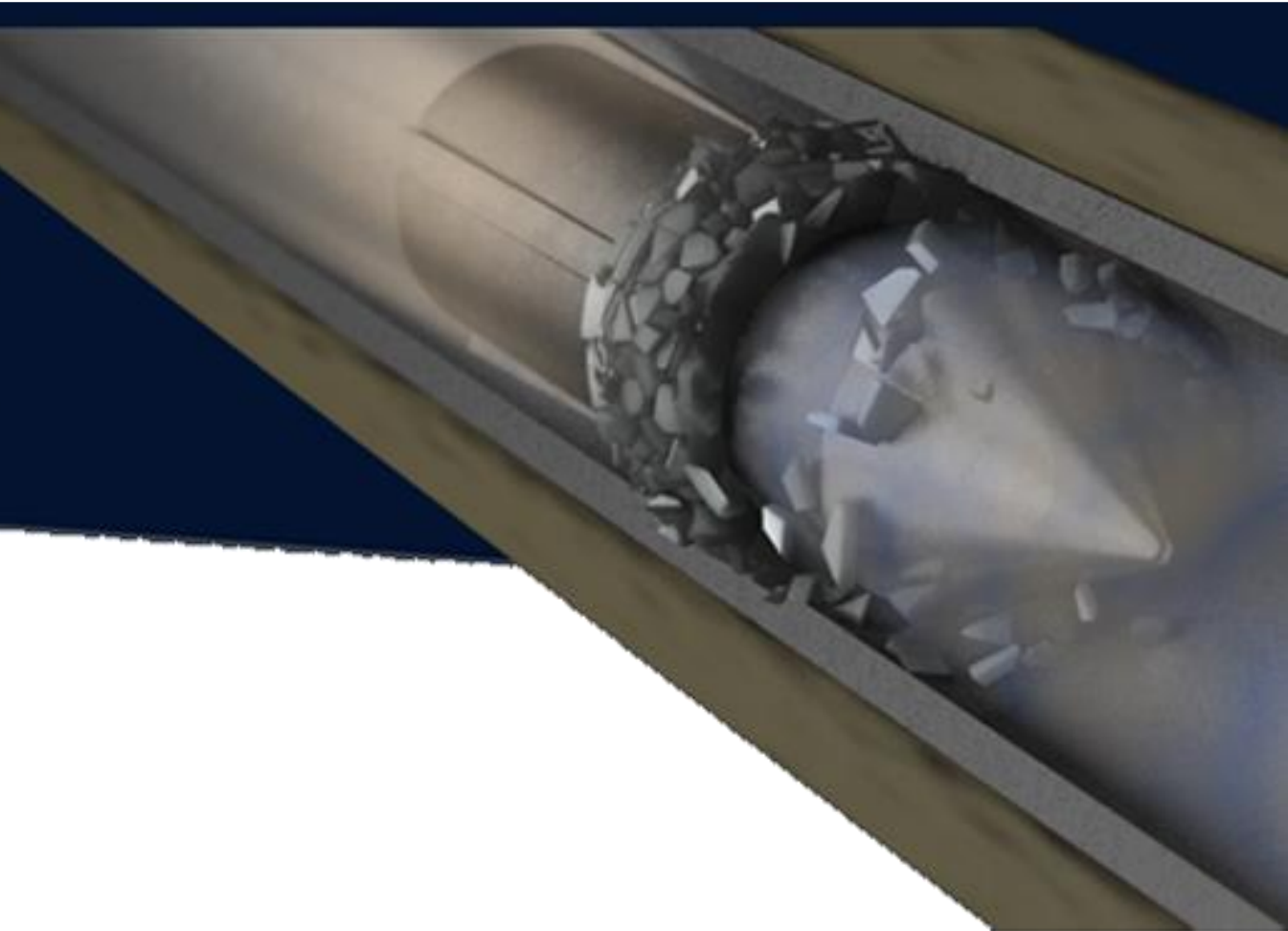


HyperDrill and HTBM: 38mm HyperCore™



HYPER *SCIENCES*

Harnessing the Power of Extreme Velocity

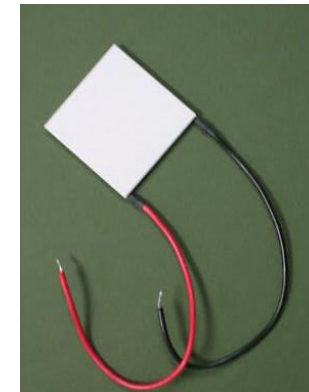
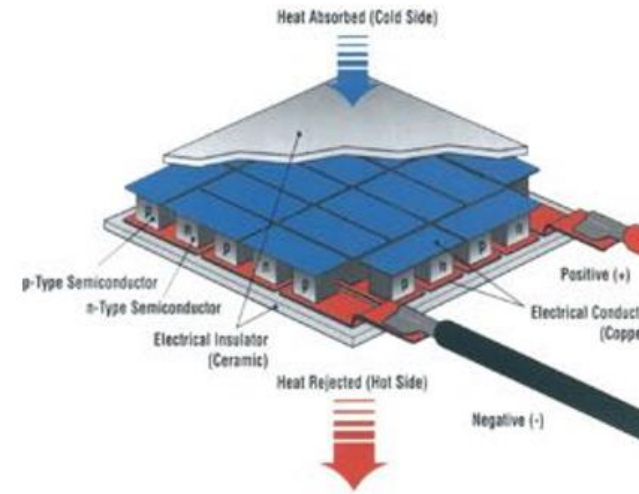
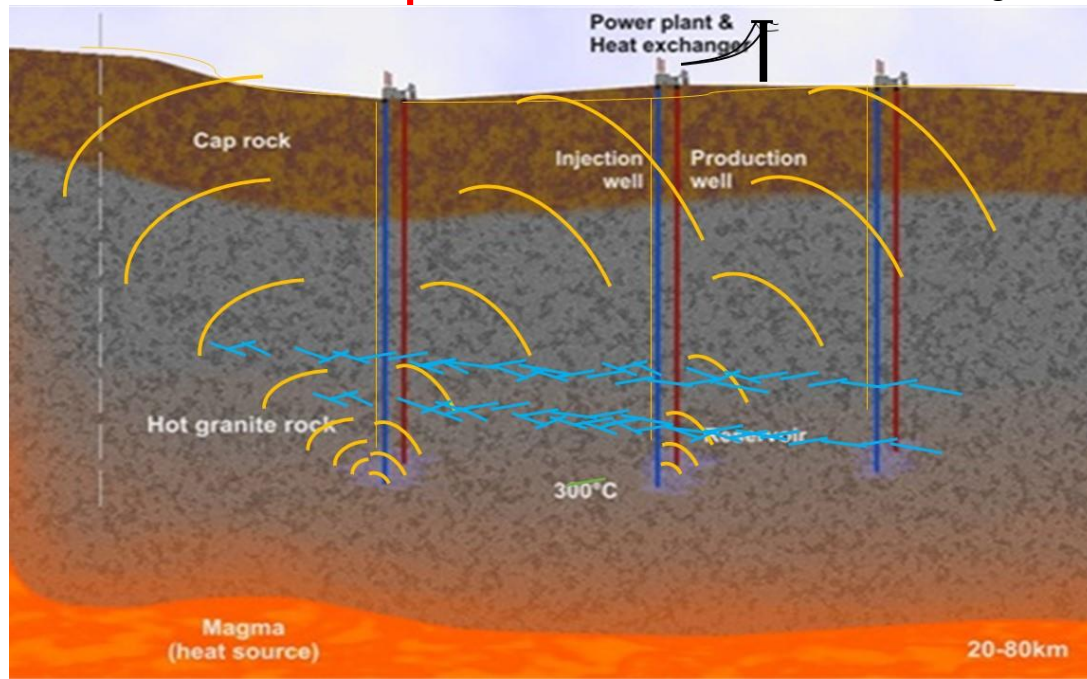
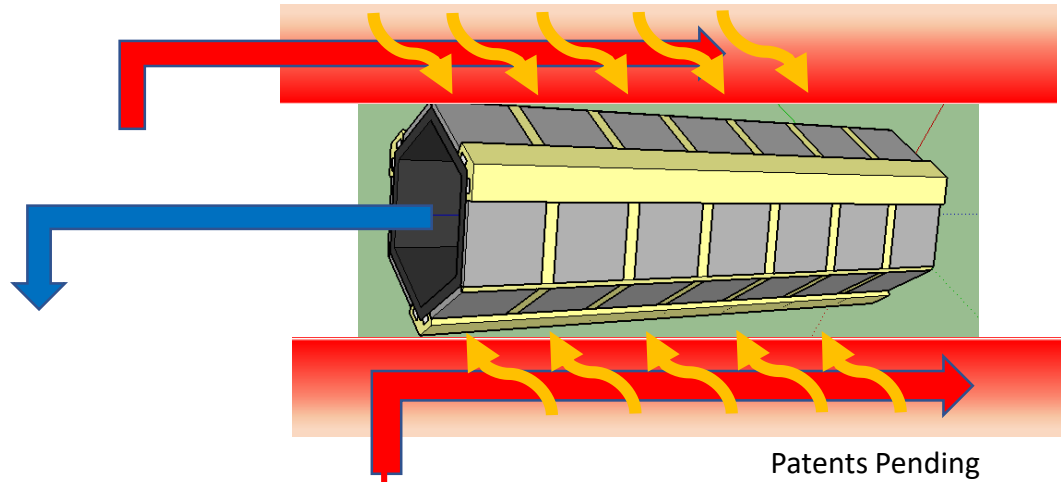


Heat generated
from the
earth's
core

Deep. Energy Anywhere.

HyperDrill™ & Scalable Geothermal Power

Geothermal Anywhere™. HyperDrill AI™ continuous microseismic Fast Drilling, Intelligent Completions & Silicon TEG plant



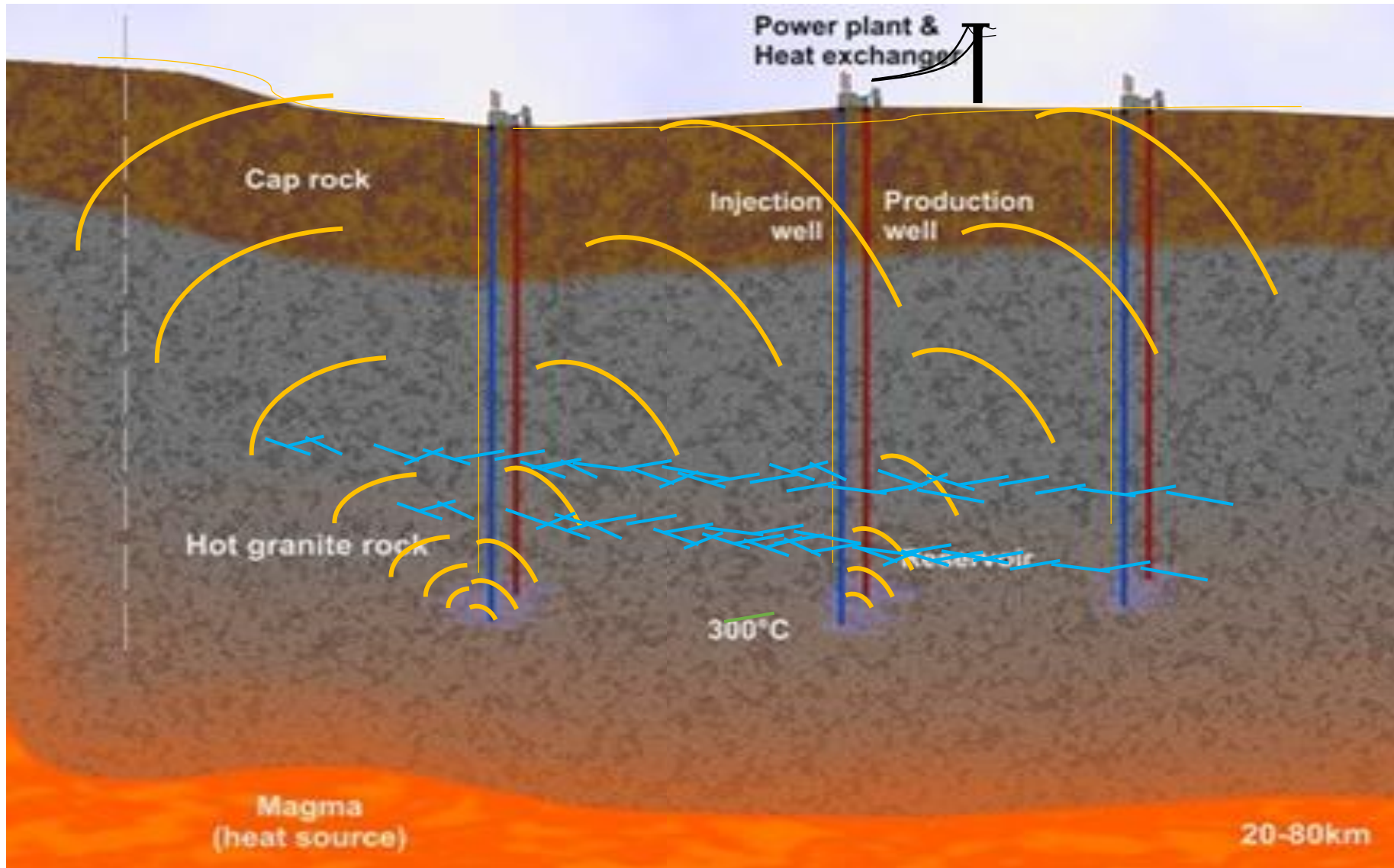
COTS
Thermal
electric
generators
(TEG)

Temperature
difference
directly into
electric
power.

No complex
turbines
required

Moore's Law for Geothermal

Geothermal Anywhere™. HyperDrill AI™ continuous microseismic Fast Drilling, Intelligent Completions & Silicon TEG plant



- Shell Game Changer



2.5 yr Funded

- Proven Technology

High Pressure Demo Tests

Fiber Optic Acoustic “Tomography”

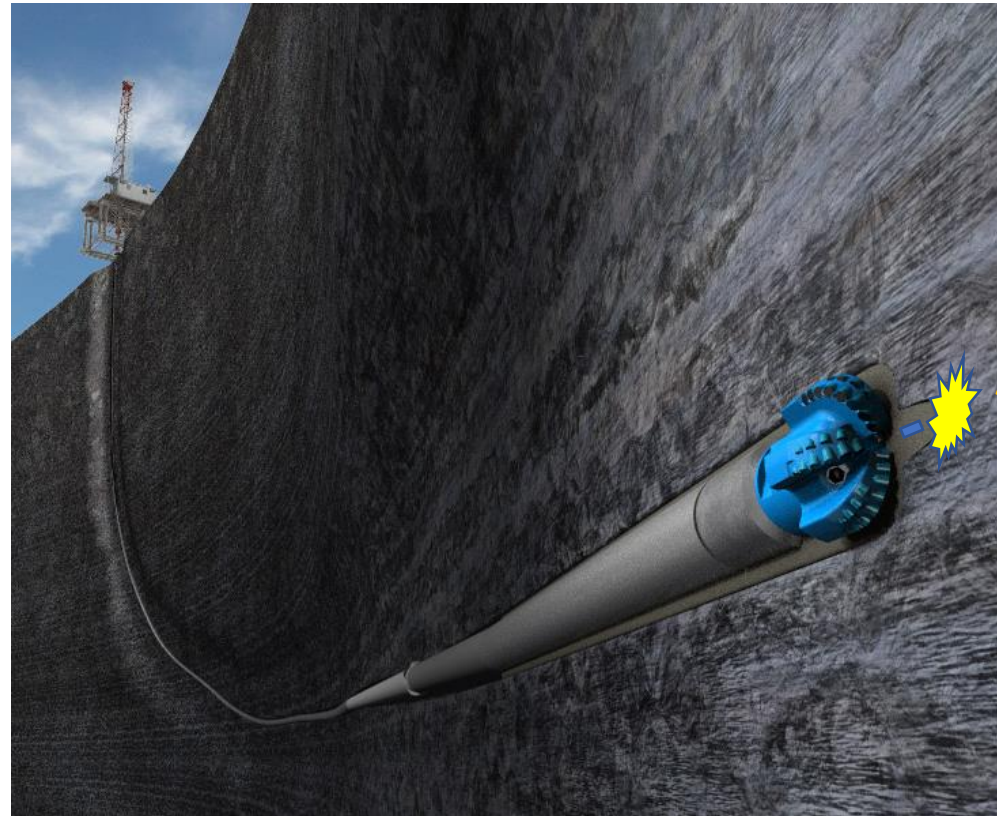
100’s tunneling field tests

Steerable

- Independent econ analysis:

\$15.5 Billion dollar value in drilling

\$100’s M + annual revenues



- Technology basis mature and demonstrated
- MVP design complete & vetted by Shell and another Major
 - No Technical show stoppers
 - Risks identified and plan to test/mitigate identified
 - Series A ask focused on proof well demo
- DWOP Oil & Gas shows game Changing economics for operator
- Large opportunity Deep / Hard Rock
- JOIN OUR JOINT INDUSTRY PROJECT





Mark Russell - CEO/ Founder

Stanford University - MS Aero/Astro Engineering
BS Rensselaer Polytechnic Inst. Aeronautical Eng.
Lead Engineer Blue Origin, Boeing, Intel, Kistler Aerospace, Russell Mining, St, Augustine Gold and Copper, Deepest DD coring



Chuck Russell - Director, Avionics / Controls

Carroll College, Engineering, avionics/controls,
Ram automation, Mining, RRPM Mining, Gen. Moly



Dr Carl Knowlen - Ram Accelerator
Inventor/ Advisor

BS, MS, PhD Univ. of Washington
Professor, Univ. of Washington. Director of
RAMAC/BTRA laboratory at UW.



Hossam Elbadawy - Houston Lead:
Advisor ,Bus. Dev. /Tech

Northwestern University - Kellogg School mgt. MBA & Men
BS Mech. Ain Shams Univ.
CEO Tercel, Limerock Partners, VP Mfg Schlumberger.



Mike McSherry - Director

B.A., Economics/Int'l Business, William & Mary
CEO SWYPE, Entrepreneur in Residence m
Providence Health, Amp'd Mobile, Boost Mobile



Hani Elshahawi - Shell Game
Changer Sponsor

Formation Testing and Sampling Principal
Technical Expert. Shell, Schlumberger



Seeking Series A Investment & JIP Partnership

DISRUPTIVE INNOVATION
MULTIPLE INDUSTRIES
BILLION \$ MARKETS

TECHNOLOGY DEMONSTRATION PLAN:

- *MICRO-PILING*
- *HYPER TUNNELING*
- *HYPERDRILL TRIALS*
- *CUSTOMER ACQUISITION / PARTNERSHIPS*

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