



Excavate Smart. Excavate Better.

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Excavation Industry

Crucial for **mining raw materials** and
fundamental in every **construction** project.

10M

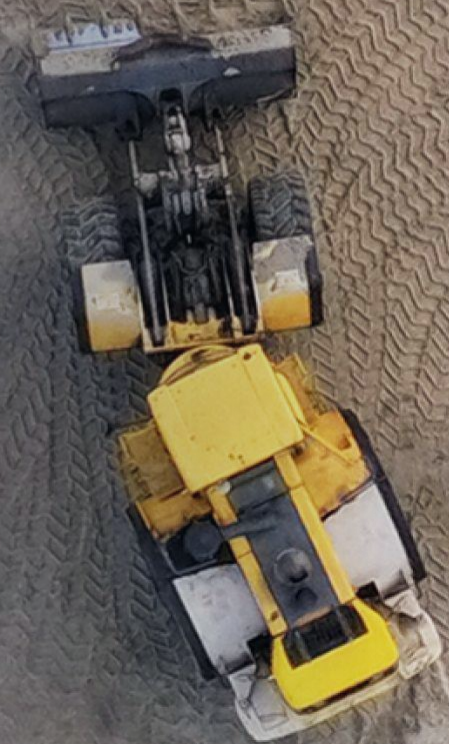
Machines
operating globally

110B

Tons excavated
annually

85%

Construction &
aggregate share



Poor Efficiency



Even skilled operators are as much as **40%** inefficient.

“Research finds 300% productivity and 150% fuel consumption difference between experienced operators.

– Volvo CE Test and Development Center

Dig Robotics

Operator guidance, ensuring **full buckets**
reducing cycle **time, cost** and **GHG emissions**.



20%

Reduction in
operating cost



10%

More material
excavated



30%

Less GHG emissions
produced

Value Proposition

SAVE

\$120K

Fuel = \$45K
Salary = \$40K
Machine = \$20K
Maintenance = \$15K
(Typical +50T excavator)

OPERATING COST

Annual savings
per machine

REDUCE

90 Ton

Equivalent to 100 cars

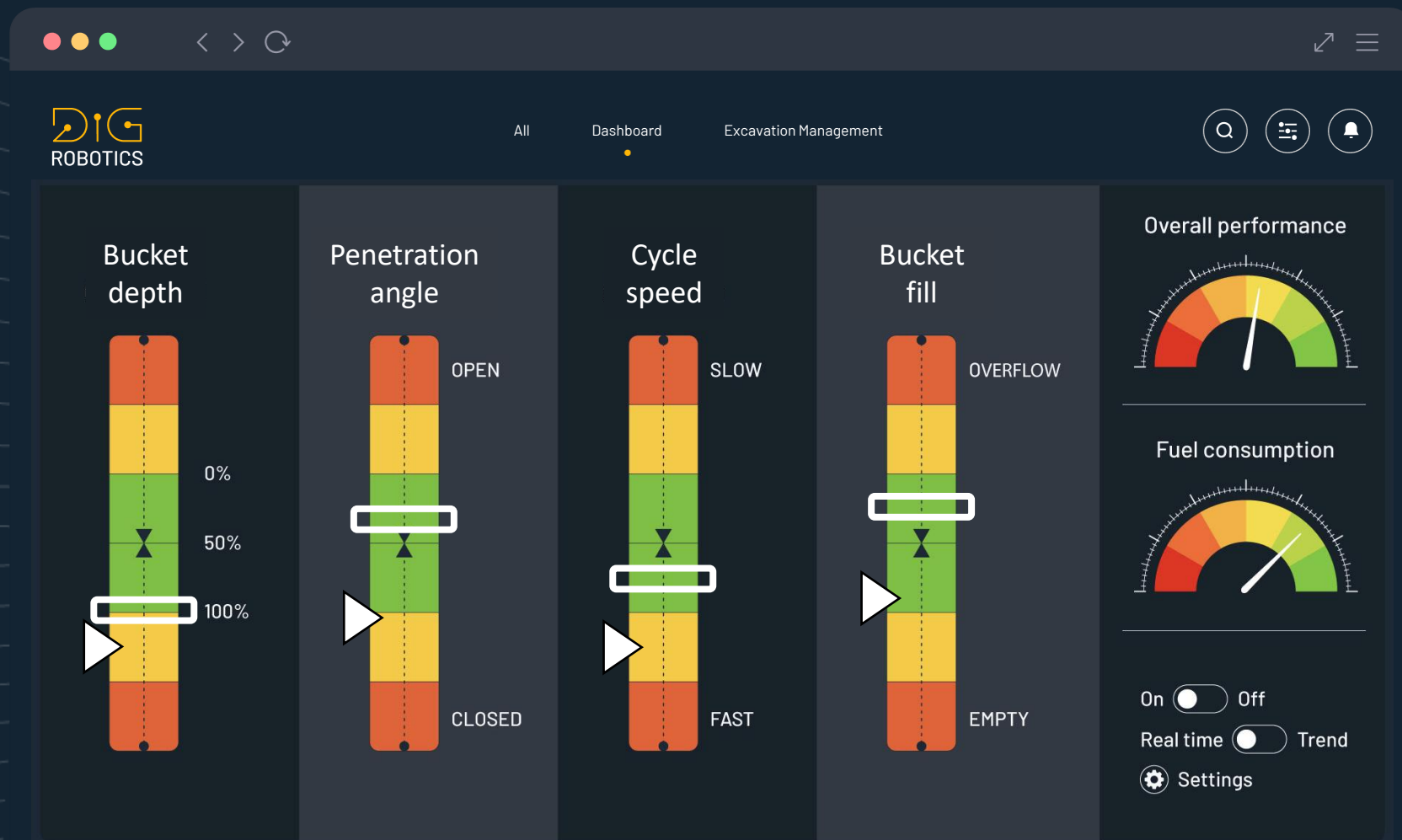
GHG EMISSION

Annual reduction
per machine

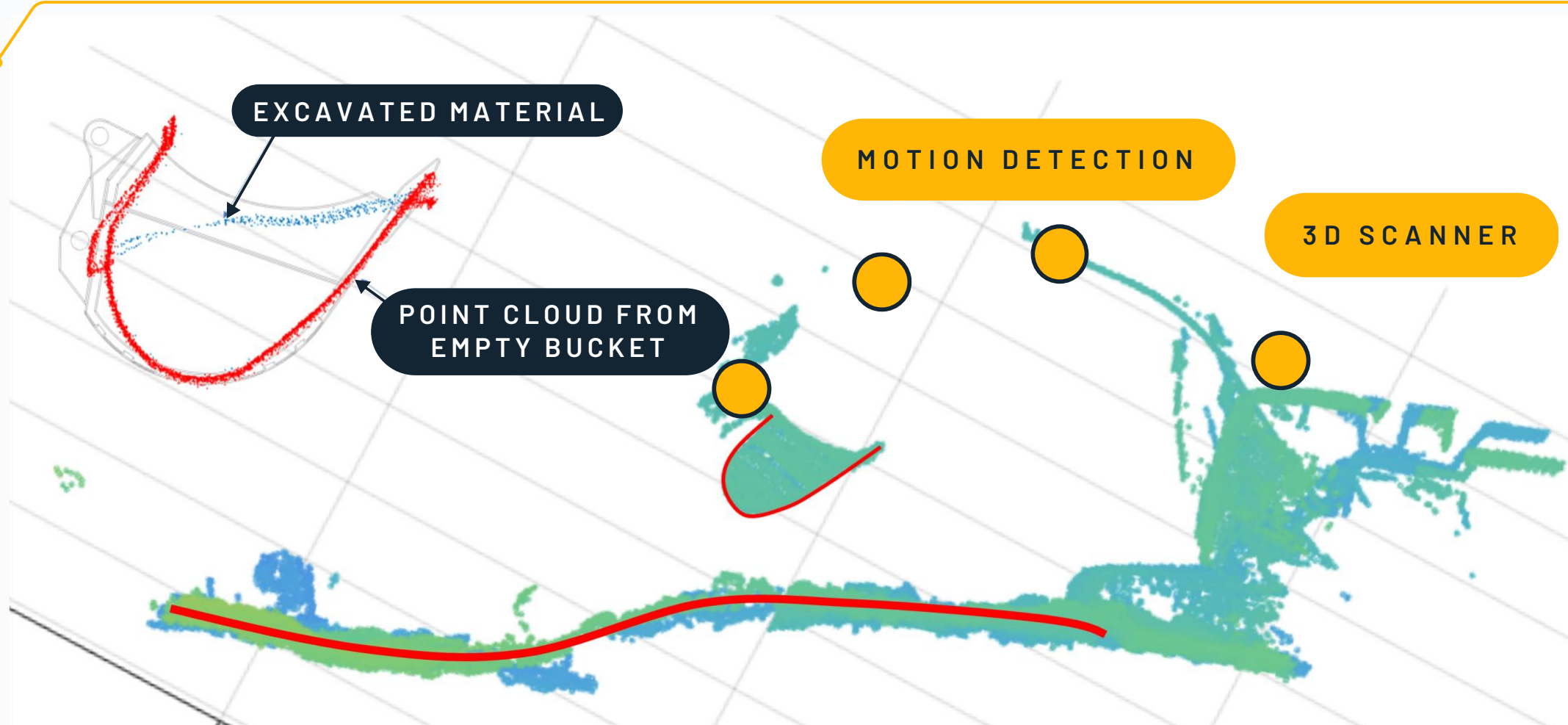
System Components



Operator Interface



Computer Vision



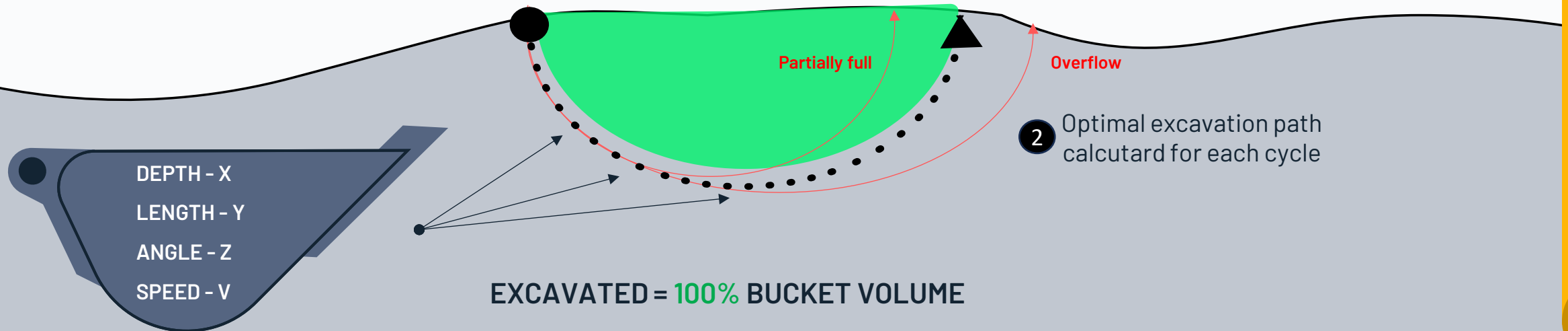
INNOVATION

Optimal Excavation Path

Ensures full buckets every cycle with no wasteful overflow.

BUCKET FILL = 100% X

1 Heaped capacity for each cycle predicted



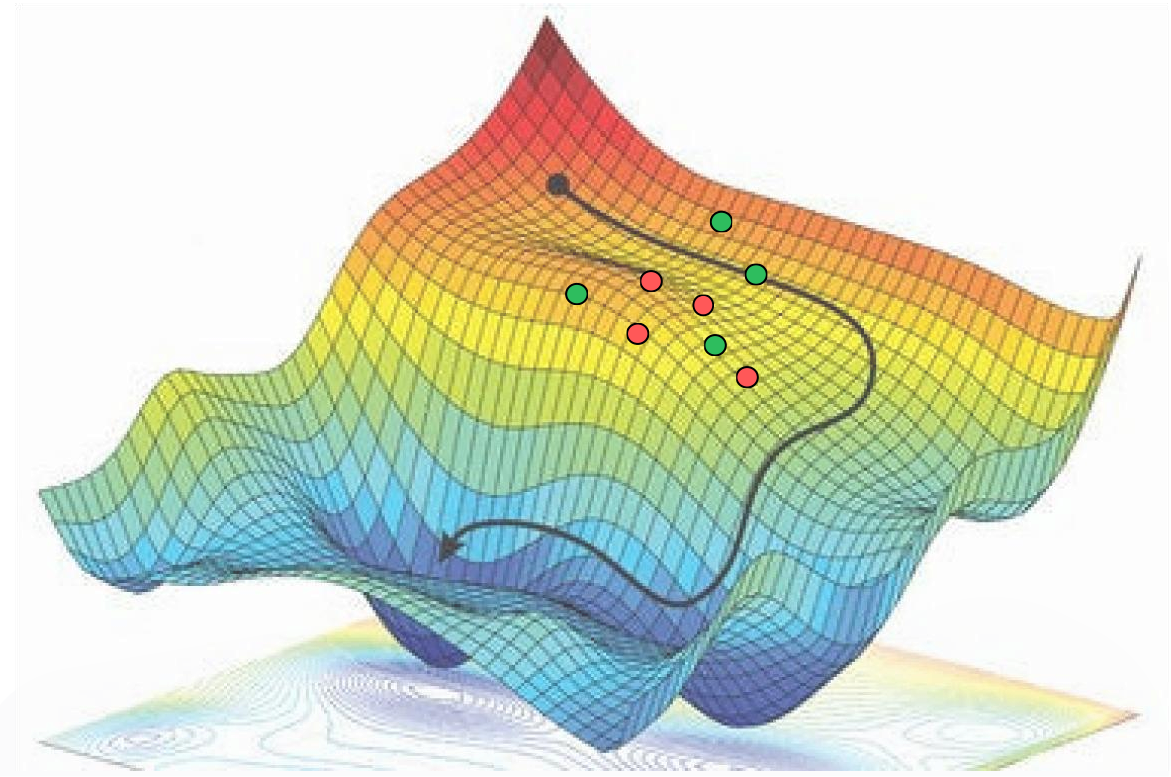
Technology

OPTIMAL EXCAVATION

Achieved by combining
Kinematics and Machine learning

RECORDED TRAJECTORIES

EXTRAPOLATED TRAJECTORIES



Leadership



NOAM ROTEM

Chief Excavation Officer



DR. ODED MEDINA

Chief Scientist



KEN GRAY

Head of Performance



Traction



TECHSTARS

March 24, USA



MINING CO. PILOT

Taavura, Israel



R&D GRANT

Israel Innovation Authority



COLLAB

Trimble (Tier-1)



PAID PILOT

Woods earthmoving USA



PRE SEED FUNDING

VC & Angel

Market Opportunity

SOM = 1M MACHINES / \$12B AR

Excavators

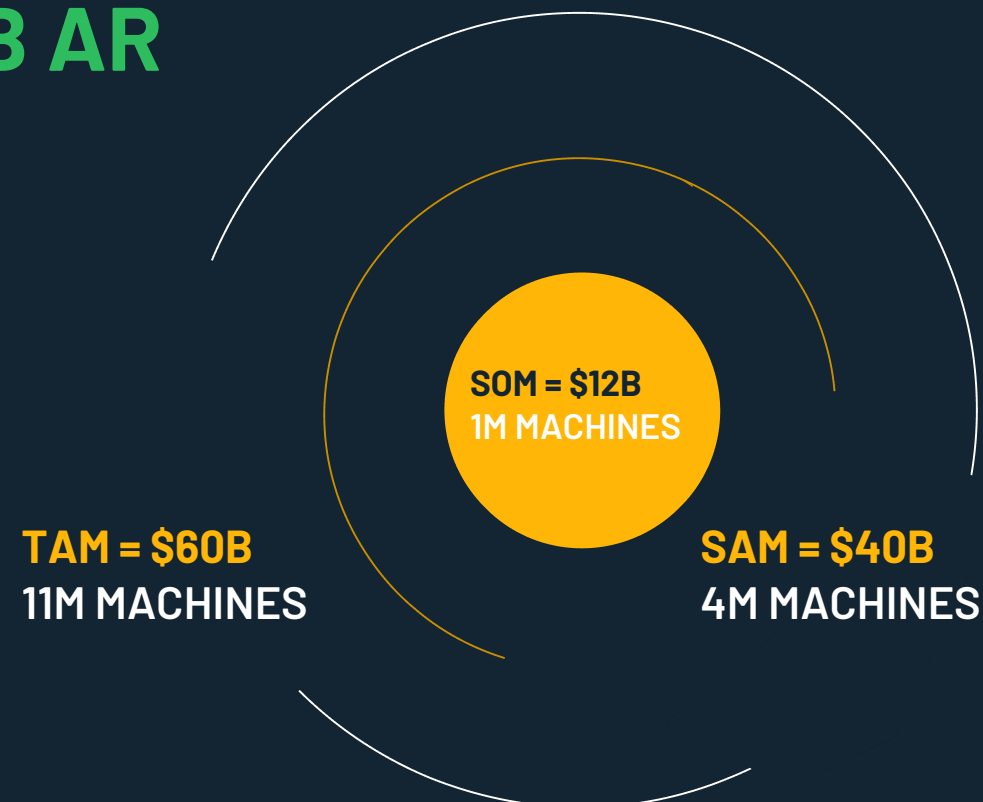
55% of all machines

Large-sized (>50T)

35% of excavator market

N. America, EU & AUS

50% of large excavator market



Business Model



MONTHLY FEE



REV SHARING

Dealers, Rental
companies

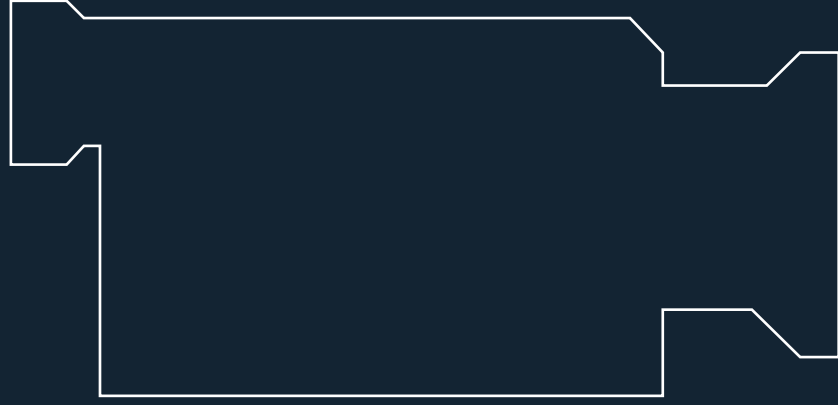
HW

NO CAP EXPENSE



CUSTOMERS

Construction & mining
companies





Thank You

Advancing excavation,
one bucket at a time.

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