

High-end editorial "White Paper"



# PRACTICAL. PERMANENT. PROVEN.

The In-Situ Soil Remediation System



**Stop Excavating. Start Treating.**



**Metal  
Medic**

Tasmania  
Environmental  
Solutions

# Unlocking land value through advanced chemistry, not heavy machinery.

Metal Medic is a multi-component liquid treatment system that chemically neutralises heavy metal ions in contaminated soil. By treating soil “in-situ” (in place), we eliminate the logistical nightmare and financial burden of traditional excavation.

<h2>60-85%</h2> <p>Cost Savings vs. Excavation (\$50-\$150/ton vs \$800/ton)</p>	<h2>1-5 Days</h2> <p>Typical Treatment Time (vs. Months)</p>
<h2>PERMANENT</h2> <p>Toxic ions destroyed and stabilized. No landfill liability.</p>	<h2>COMPLIANT</h2> <p>Meets EPA &amp; UK Environment Agency Standards</p>

# Heavy metals are locking away billions in land value.



## THE TRAP:

Neue Haas Grotesk Display Pro Bold  
Millions of acres of prime real estate, brownfields, and industrial zones remain dormant due to contamination liabilities.

## THE CONTAMINANTS:

[Pb]

Lead

[Cd]

Cadmium

[Cr]

Chromium

[Ni]

Nickel

[Zn]

Zinc

[Cu]

Copper

[As]

Arsenic

## THE IMPACT:

Unsellable assets. Unusable land.  
Constant regulatory risk.

# The 'Old Way': Dig and Haul is a financial failure.



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## The Liability Myth:

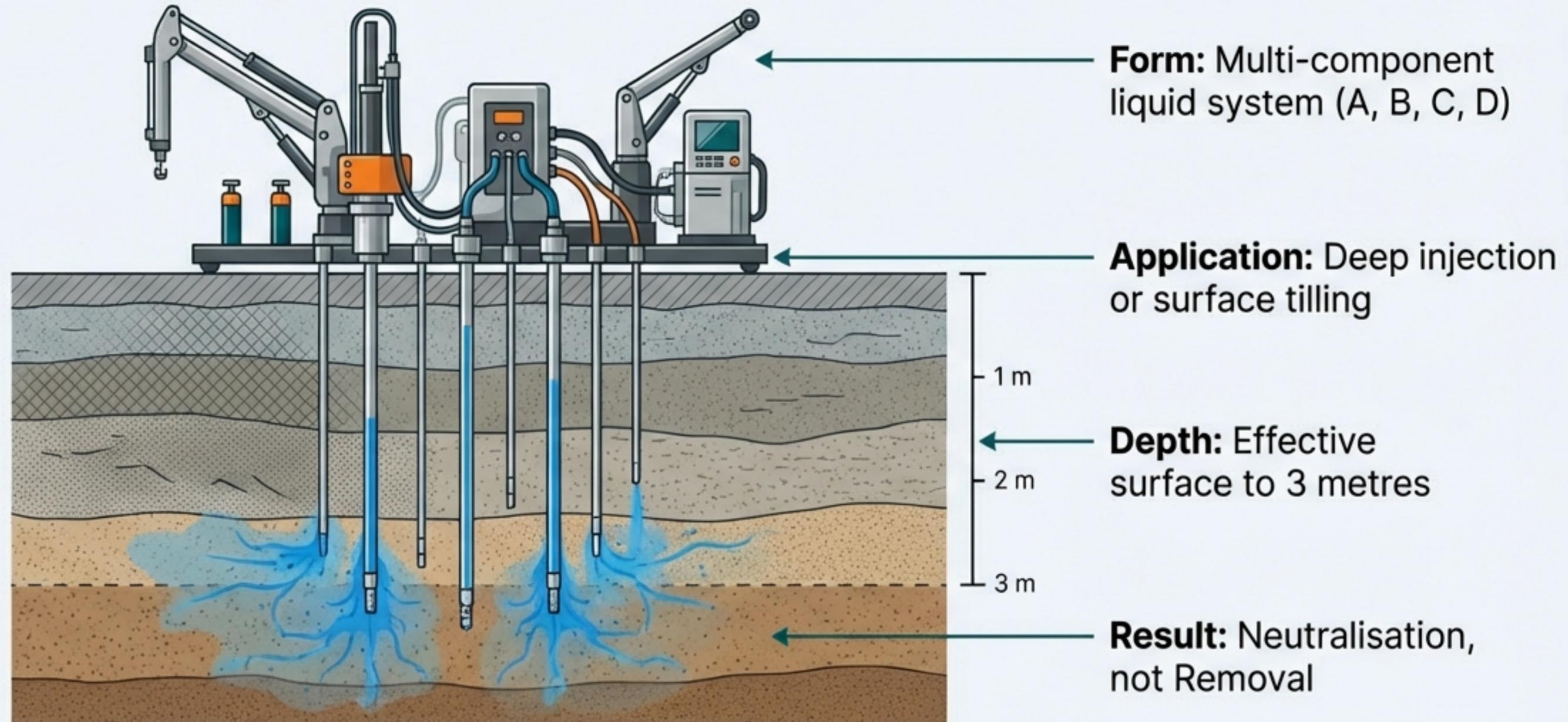
Excavation does not solve the problem; it merely moves the liability to a landfill. You still own the risk.

## ● Secondary Failures

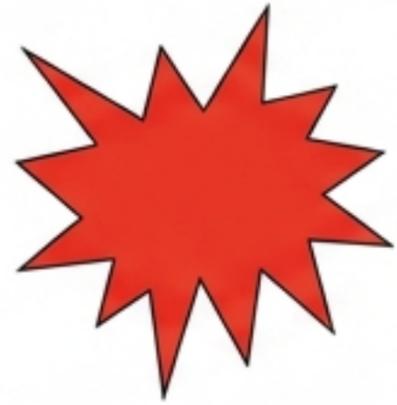
- **Soil Washing:** High capital costs; generates contaminated water.
- **Capping:** A temporary solution requiring eternal monitoring.

# A paradigm shift: Treat the soil where it lies.

Metal Medic: The In-Situ Soil Remediation System.



# The chemistry of neutralisation.



**Toxic Metal Ion**



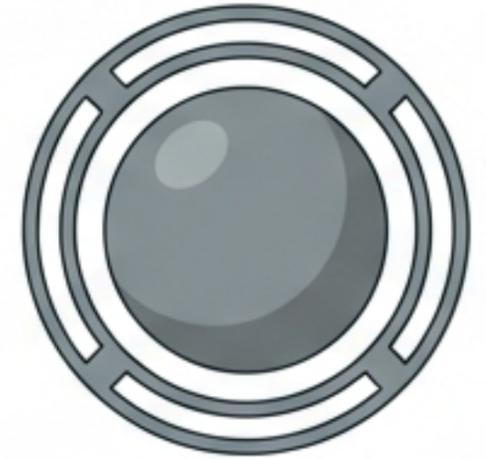
**Chelation & Binding**

Ions are permanently bound.



**pH Optimisation**

Minimising bioavailability.



**Stabilisation**

Catalyst ensures non-leaching state.

**Key Metric: Reduces bioavailable metals by 85-99%.**

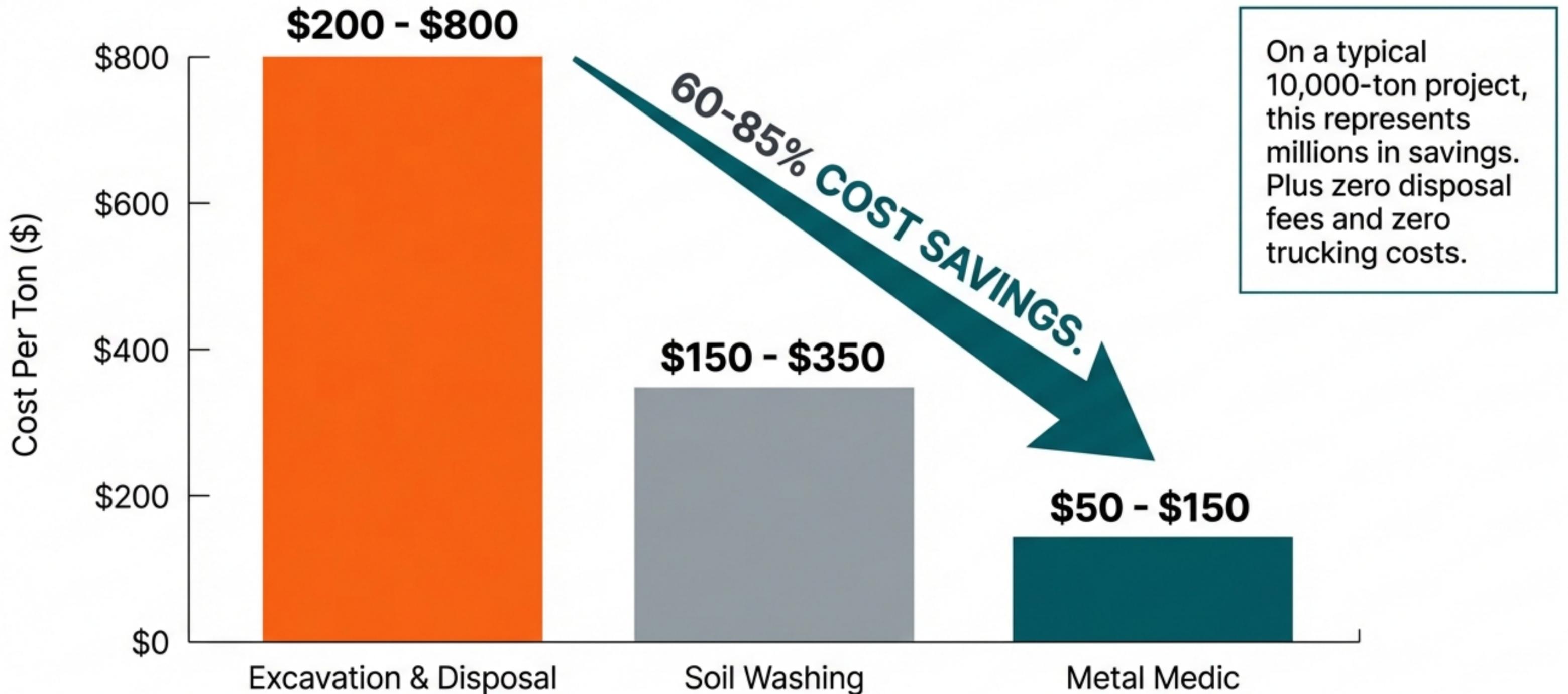
# Validated performance against regulatory standards.

Contaminant	Initial Level (ppm)	Post-Treatment (ppm)	Standard (EPA/UK)
Lead (Pb)	800 - 2,000	< 20	20 (Residential)
Cadmium (Cd)	50 - 150	< 5	7.5
Chromium III	400 - 800	< 100	280
Arsenic (As)	100 - 300	< 5.8	5.8



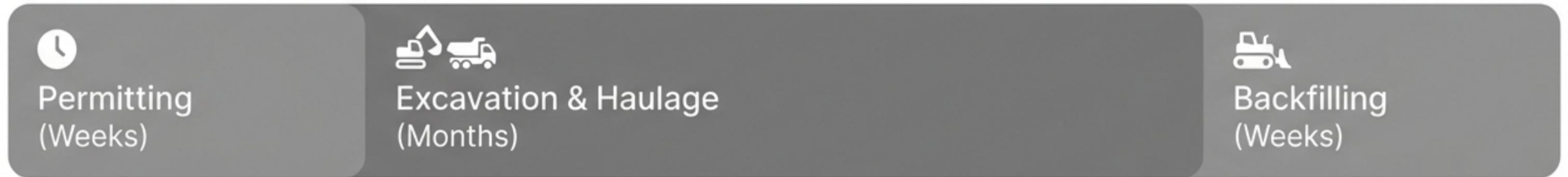
Consistently meets EPA, UK Environment Agency, and international soil standards.

# The mathematics of remediation have changed.

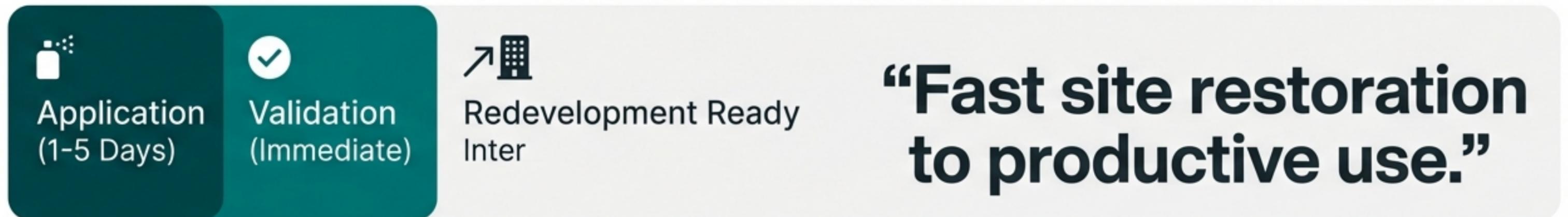


# From months of disruption to ready in days.

## The Old Way (Excavation)



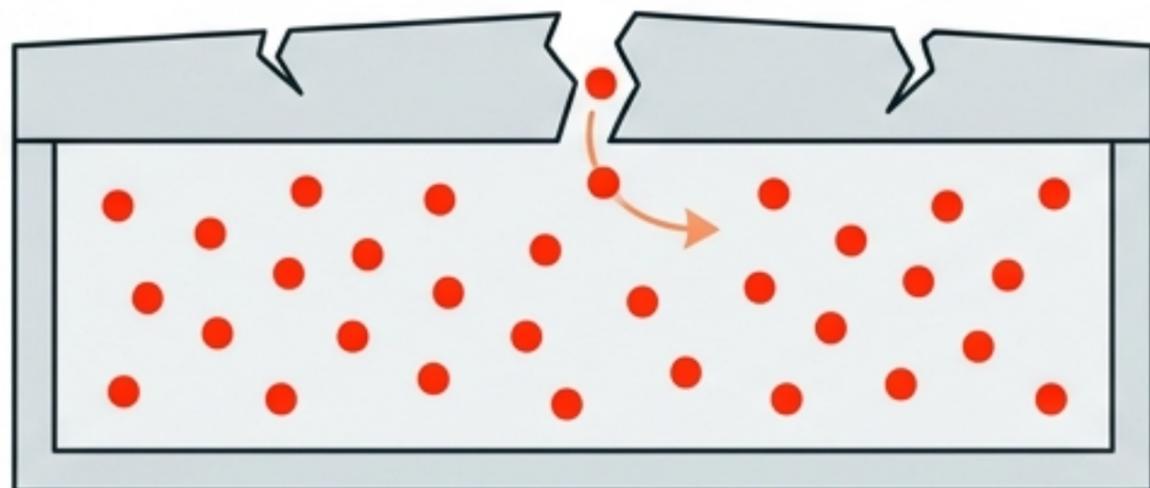
## The Metal Medic Way



# Permanence is the ultimate risk mitigation.

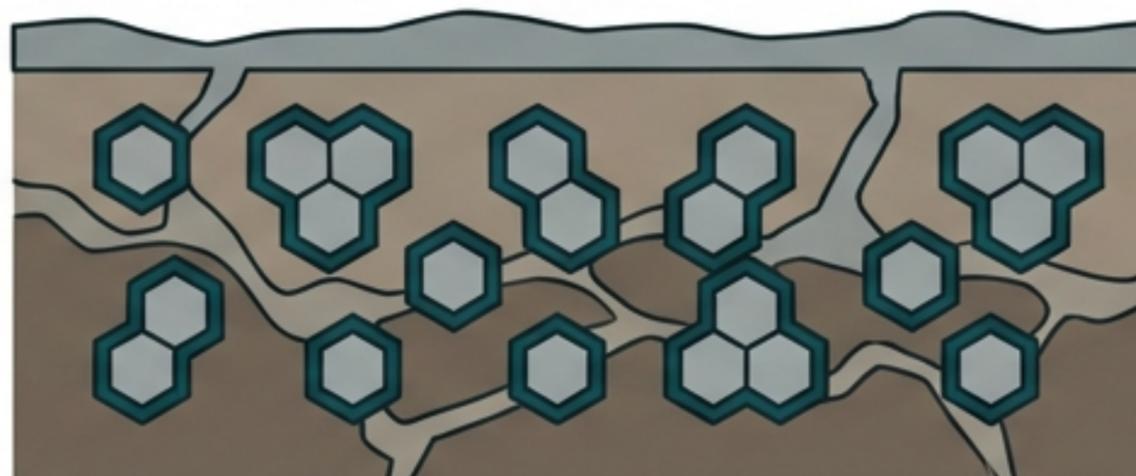
## Hiding vs. Solving

### Disposal / Capping



**Long-Tail Liability**  
(You still own the risk)

### Stabilisation (Metal Medic)



**Risk Extinguished**  
(Liability ceases to exist)

Metal Medic chemically alters metal ions into non-leaching compounds. Validated to remain non-toxic for decades. No special permits required for treated soil.

# Versatile applications across the industrial landscape.

Brownfield Redevelopment



Mining Legacy Sites



Shooting Ranges (Lead)



Agricultural Land



Effective on: Lead, Cadmium, Chromium, Nickel, Zinc, Copper, and Arsenic.

# Precision engineering for specific contaminants.

Inter (Regular/Mendalumi, aitle.dacanit).

Metal Medic is a specialised formulation for SOIL. We do not offer a “one size fits all” magic wand. We offer targeted chemical engineering.

## Not for Water

See M-CEP for water treatment/metal recovery.

## Not for Mercury

See our specialised Mercury Removal System.

## Not for Hydrocarbons

See S-Oil Purge technology.

# 25 years of environmental innovation.



Global Reach. 40+ Deployments.

**Tasmania Limited.  
Founded 2001.**

**Leadership: John Webster, CEO.**

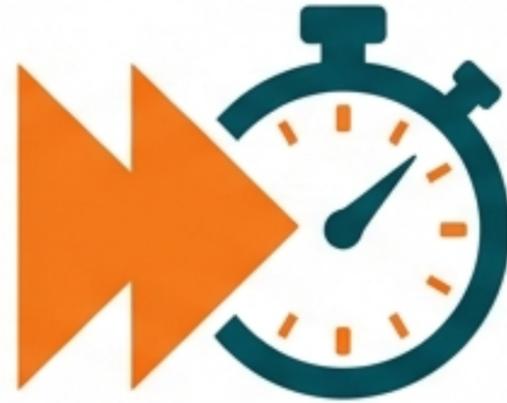
25+ years of experience. Developer of 6 proprietary technologies. Patents pending in USA, EU, and South Africa.



# The logical choice for land restoration.



**CHEAPER**  
(60-85% Savings)



**FASTER**  
(Days, not Months)



**PERMANENT**  
(Compliance Guaranteed)

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## Call to Action

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**M Metal Medic**