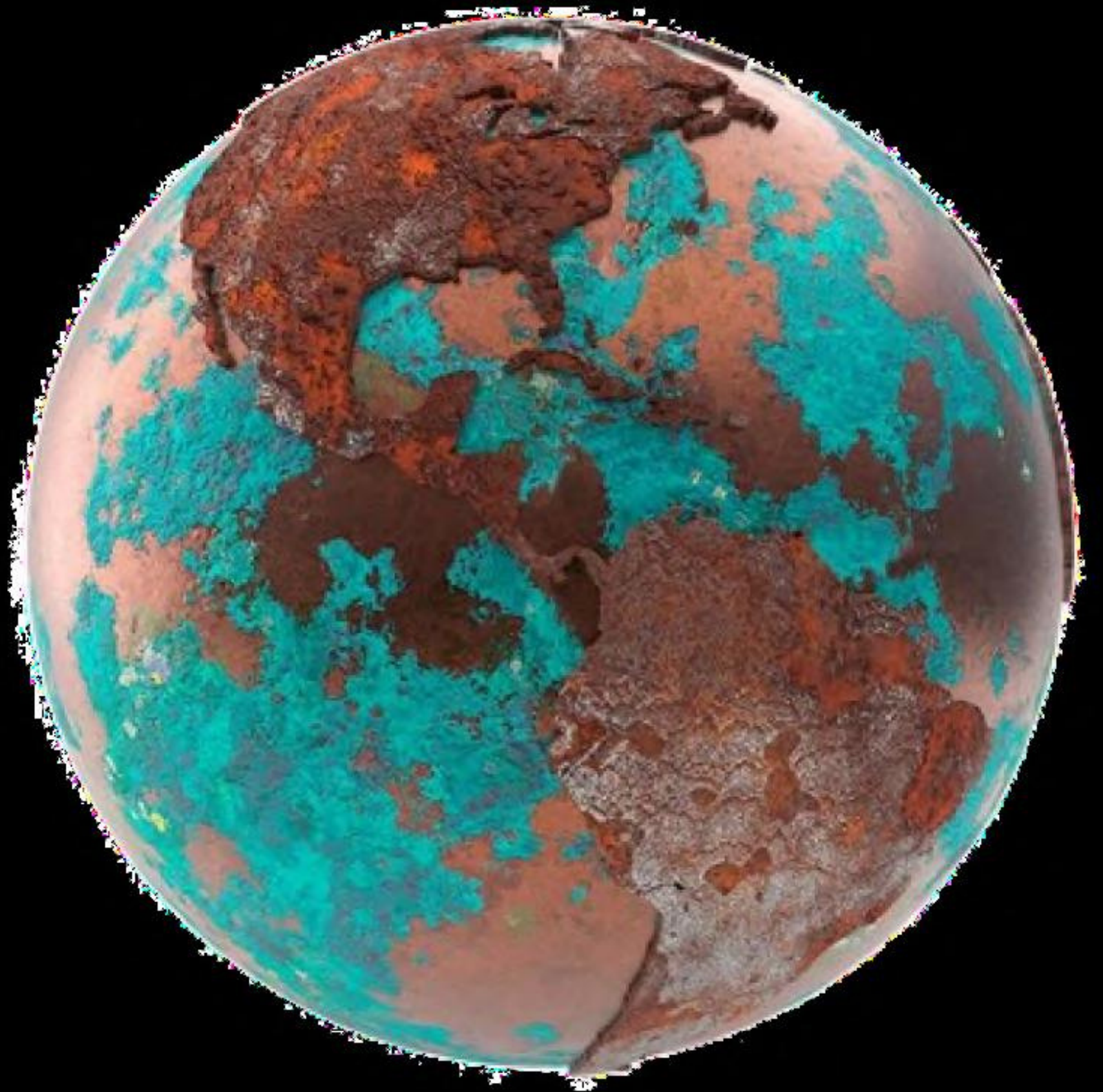




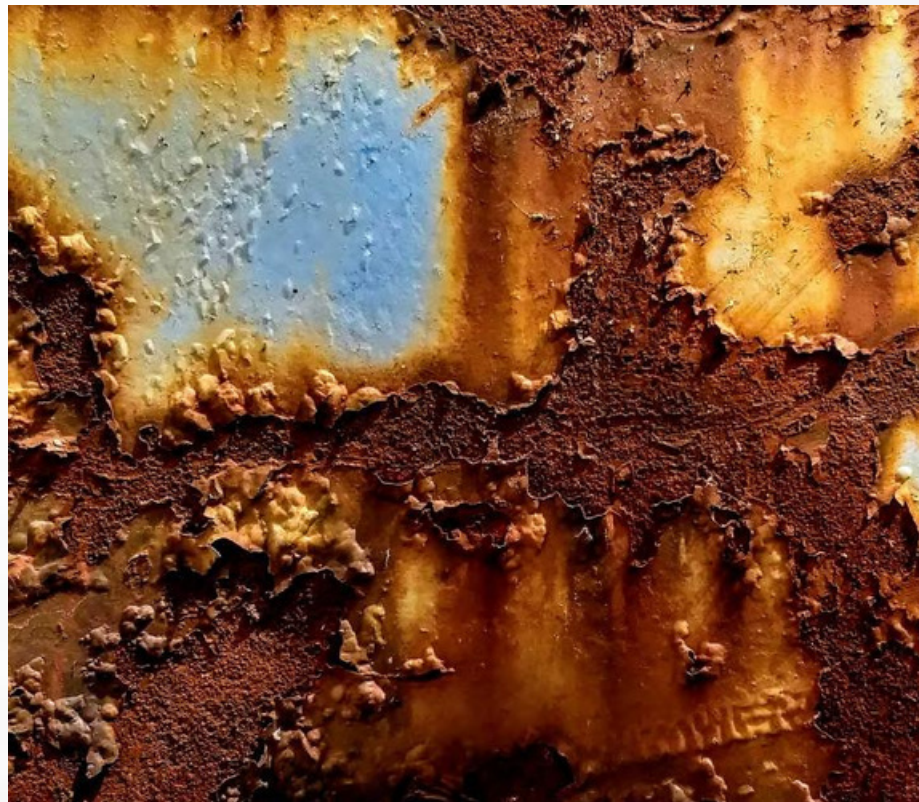
Transformational Coatings



**Stops Corrosion,
Saves Environment**



The Problem



Corrosion of Metals

All metals corrode when exposed to the environment, leading to structural failure.

Metal Scrappage

The corroded metals, now unfit for use, are scrapped.

Carbon Emission

Frequent metal replacement causes excessive carbon emissions & rapid depletion of natural resources.

The Time is Now!



Cost of corrosion = 6.2% of global GDP = \$ 6.26 trillion and rising

Global steel production = 1.9 billion tons p.a.

Steel scrapped due to corrosion = 490 million tons p.a.

CO2 emissions per ton of steel = 1.9 tons of CO2

CO2 emissions of steel industry = 8% to 9% of total carbon emissions

**Imagine the difference we can
make if we
STOP CORROSION**

Limitations of existing solutions in corrosive zones

Barrier Coatings

Galvanizing/
Metal lizing
steel
(sacrificial
protection)



**Sand/Shot/Grit Blasting Required-
initial & maintenance coats**

Expensive, cumbersome &
environmentally hazardous process.



Barrier Protection

Insufficient in preventing corrosion at
coating-metal interface.



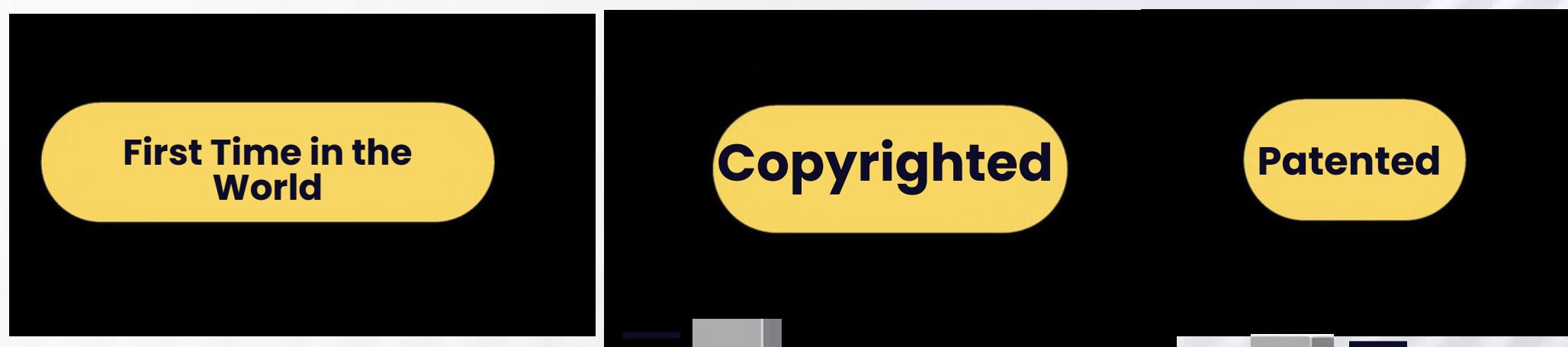
**Rapid depletion of zinc in
galvanized/metallized steel**

Current duplex coating schemes are
unfit for exposure to strongly
acidic/alkaline environments.

The



Solution



Metguard coating applied
Suppresses metal reactivity
Metal surface passivation
Metal life extended



VS



Barrier coating applied
Ongoing Corrosion
Further deterioration
Metal Scrappage

The

Metguard

Solution



First Time in the World

Copyrighted

Patented

Metguard coating applied

Suppresses metal reactivity

Metal surface passivation

Metal life extended

Barrier coating applied

Ongoing Corrosion

Further deterioration

Metal Scrappage

VS



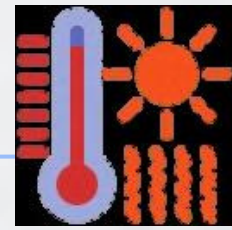
Unmatched Performance!



**Outstanding
Weatherability**



**Acid/Alkali
Resistant**



**Heat
Resistant**



**Toughness and
high cohesive
strength**



**Minimum transfer
loss during
application**



**Long pot life
for simplified
application**

**Scientifically proven
results through
Electrochemical
Impedance Spectroscopy
Test**

**Such data not available on
any competitive
protective coating scheme**

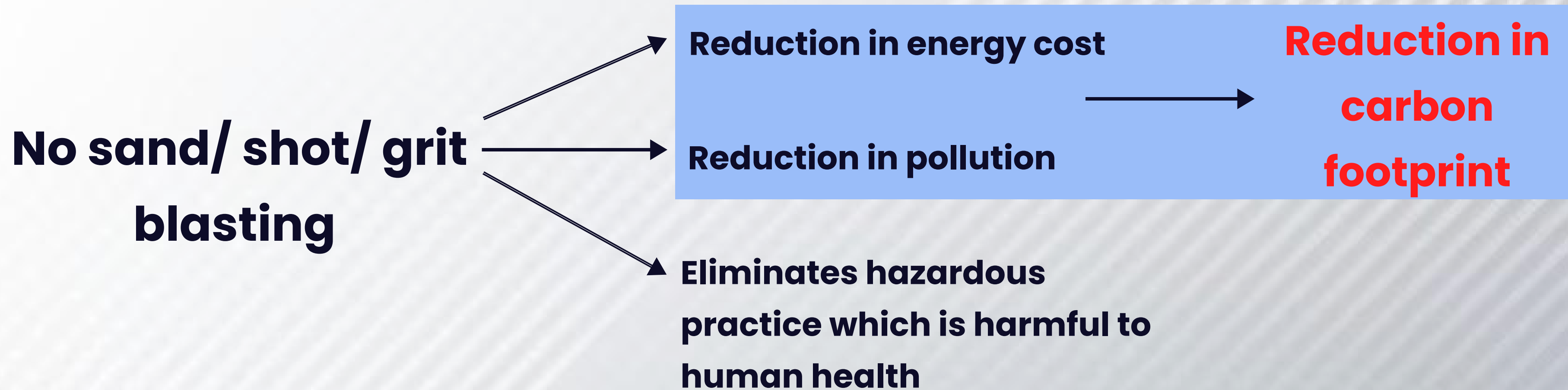
COST IMPLICATION

COMPARISON METGUARD

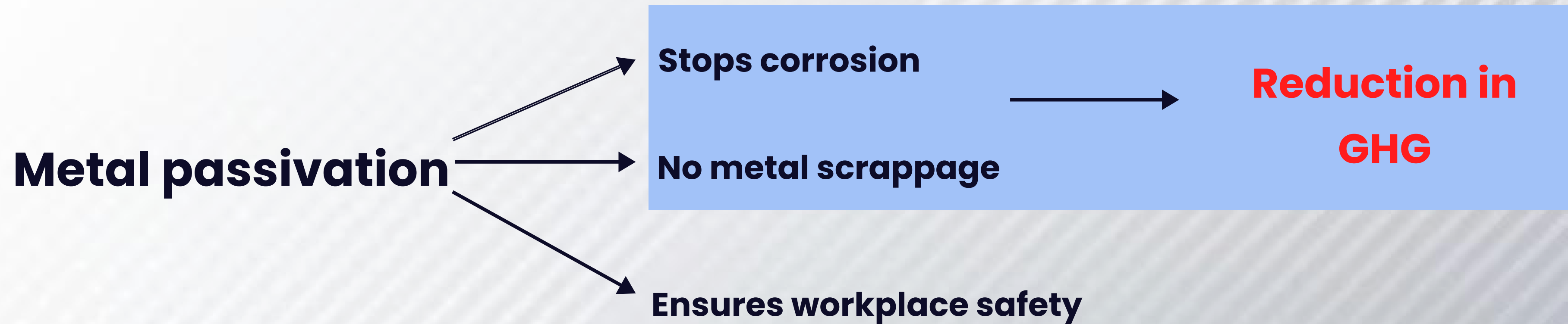
		OTHER PRODUCTS
ABRASIVE/SAND BLASTING ON NEW STEEL		
SURFACE PREPARATION COST (BLASTING)	MINIMUM	HIGH
LOSS OF METAL DURING SAND BLASTING	NOT APPLICABLE	YES
PRODUCTIVITY/ OUTPUT OF STRUCTURES	HIGH	VERY LOW
ASSET PRESERVATION		
PROBABILITY OF UNDERCUTTING	NO	YES
REDUCTION IN THICKNESS OF STRUCTURES	MINIMUM	HIGH
COST OF SCRAPPING STRUCTURAL ASSET	MINIMUM	HIGH
PERIODIC MAINTENENCE		
COST OF LABOUR	LOW	HIGH
COST OF PAINT	LOW	HIGH
SHUTDOWN TIME	SHORTER	LONGER
PAINT REQUIREMENT	MOSTLY TOPCOAT	FULL SYSTEM

THIS WILL LEAD TO A MINIMUM COST SAVING OF 40% OVER A 10 YEAR LIFECYCLE OF STRUCTURES, BESIDES ENHANCING STRUCTURAL STABILITY, HUMAN SAFETY AND ALMOST ELIMINATING METAL SCRAPPAGE.

Environmental impact



Reduction in Greenhouse Gas emissions (GHG)



Approximately 25% of the world's steel annual production is used for replacement of corroded steel.

Market Application



**Structures of HRS, CRS,
HDG, stainless steel
and aluminium alloys,
etc.**



Rebars



**Galvanized/
Galvalume
roofing/cladding
sheets**

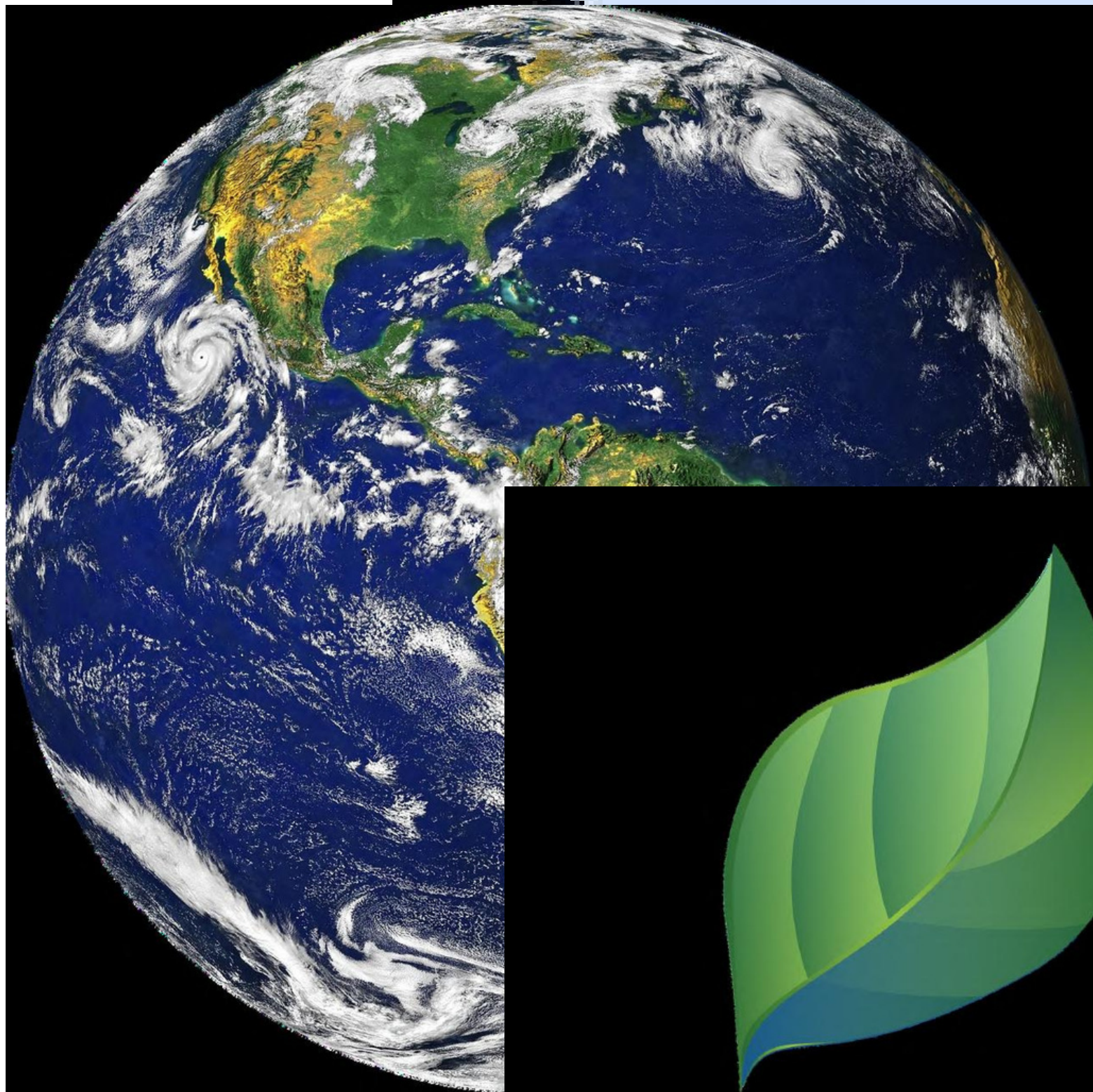
Other Application Areas

- **Elimination of galvanizing/aluminizing, or** where such metallizing is essential, the metal coating deposition may be reduced



- **Elimination of blasting and chromating** and its subsequent replacement by Metguard basecoat for **powder coating** application





Metguard

Save metals, Save earth

empower

Thank you



www.visioncraftind.com