# CORROSION AND ITS CONTROL








Learning Objective:

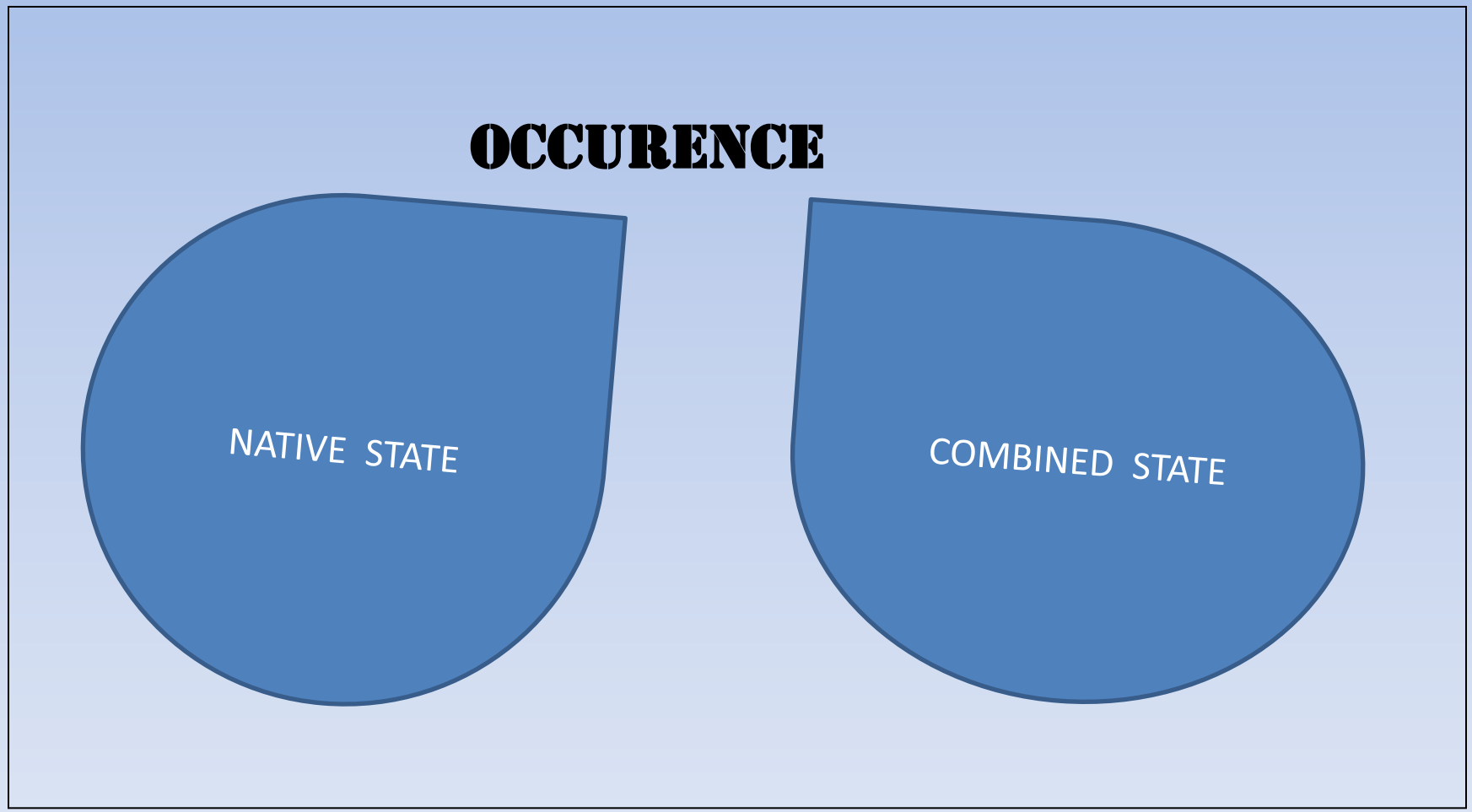
**To understand about the Corrosion, types & Various control techniques.**

# Definition

Gradual degradation / destruction of metals / alloys due to chemical or electrochemical reaction with its environment.

# ? It Occurs

# OCCURENCE



# OBTAINING METALS

The metals we use are obtained from rocks in the Earth's crust.

Most metals are too reactive to exist in a pure uncombined form in the Earth's crust. Metals are found as in rocks metal compounds. The usual metal compounds found in rocks are **OXIDES**, **SULPHIDES** and **CARBONATES**.

## NATIVE METALS

A few metals are found uncombined, as they are very unreactive. Metals, which are found uncombined are called **NATIVE METALS**.

The native metals are:

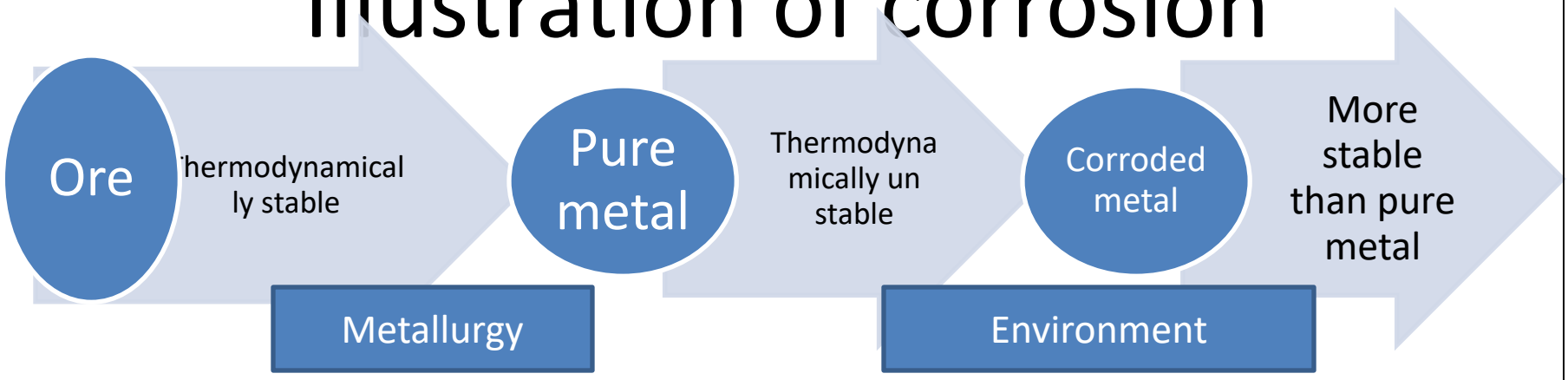
Gold
(Au)

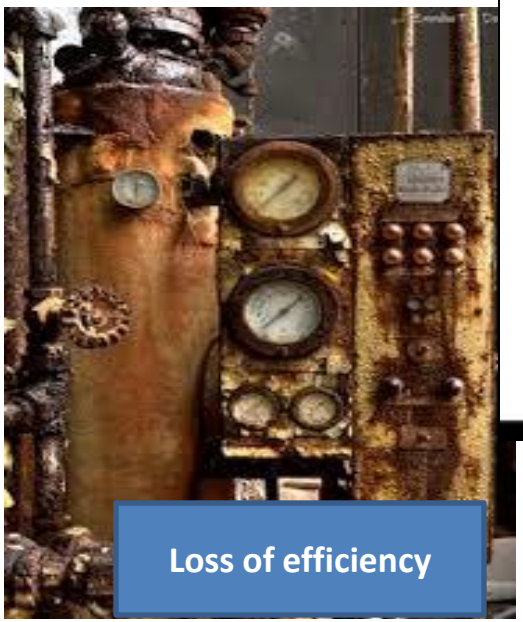
Platinum
(Pt)

Silver
(Ag)

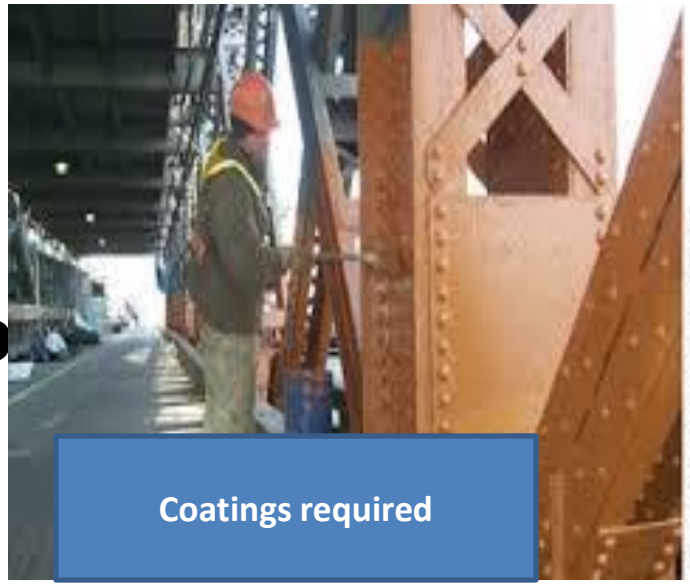
Copper
(Cu)

# Illustration of corrosion



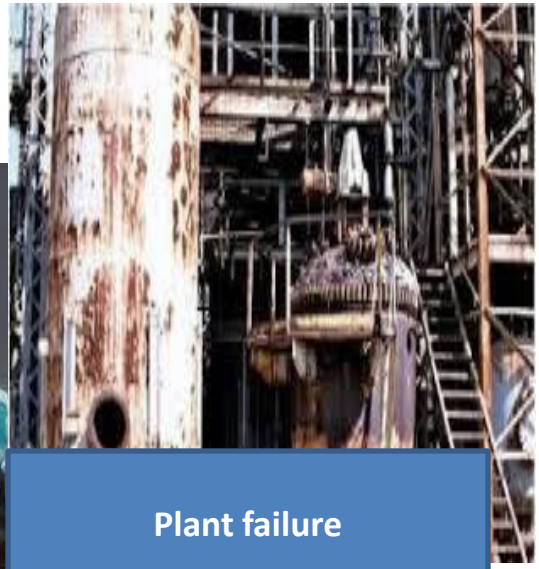


Loss of efficiency

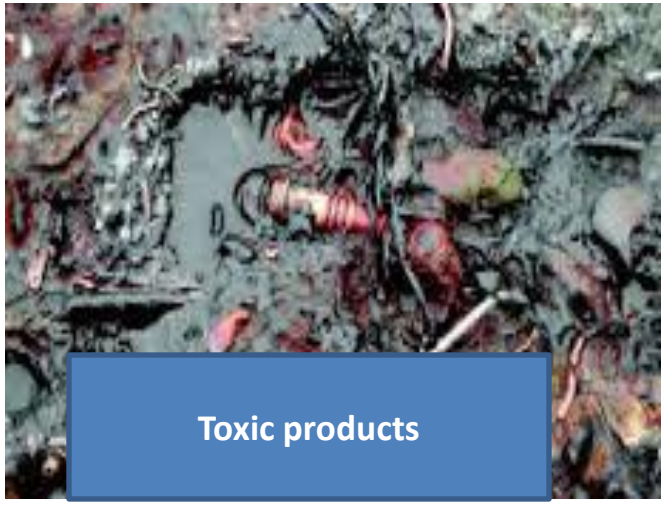




Coatings required

Equipment replaced



Plant failure



Toxic products