







# **OVERVIEW**

PITHIA-CP

Cathodic Protection

PITHIA

PITHIA-EM

Low-frequency EM

PITHIA-FSI
Wave Propagation

www.feacomp.com









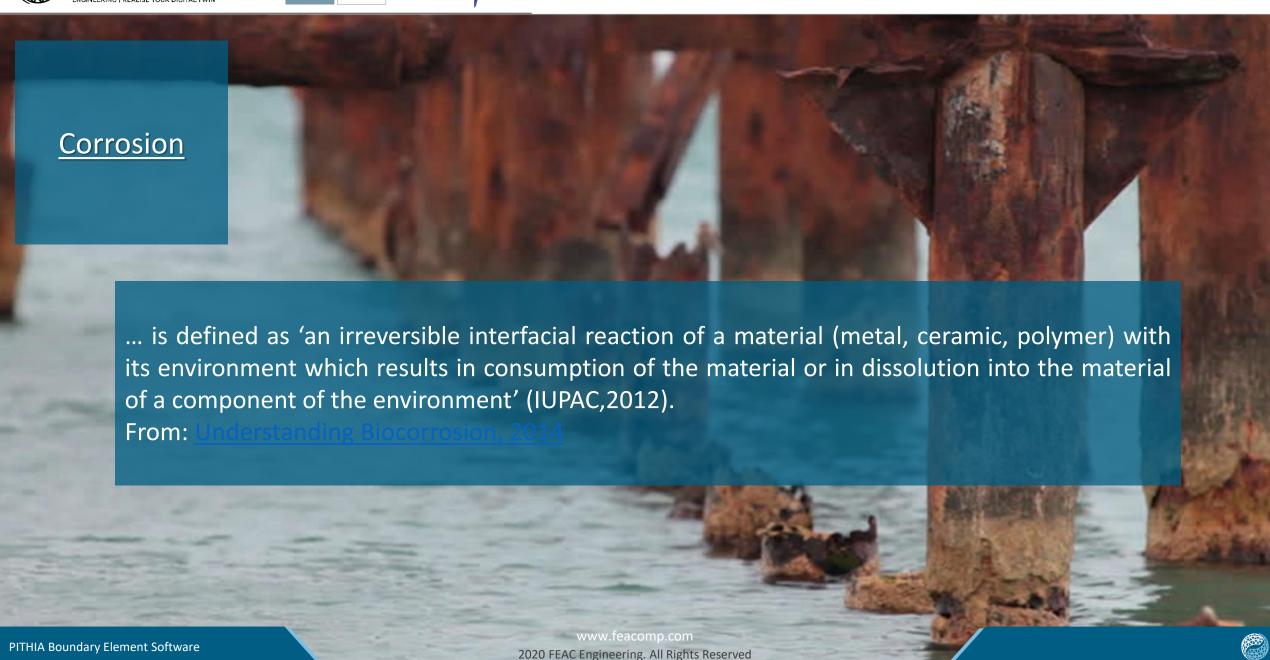
# The phenomenon

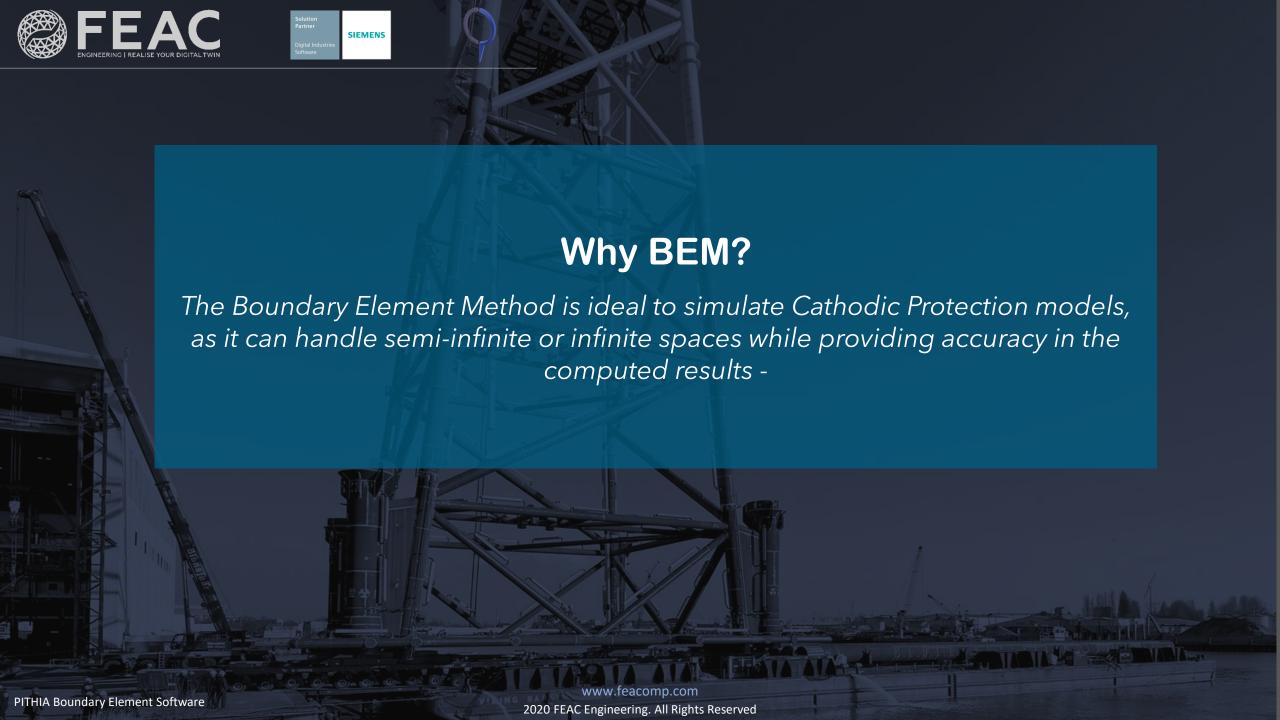












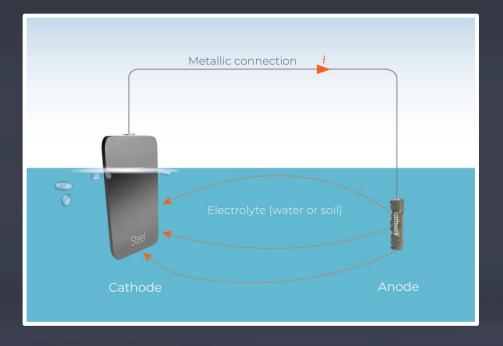




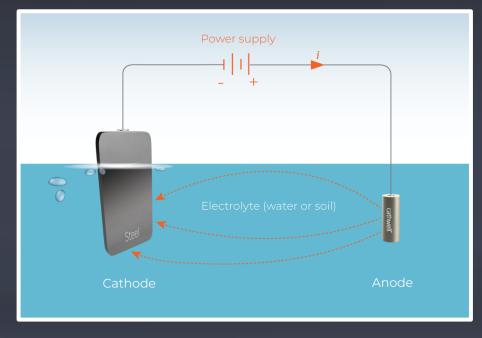


<u>Cathodic</u> <u>Protection</u> <u>Systems</u>

#### **SACP**



#### **ICCP**





When is cathodic protection obtained?

<u>Cathodic protection</u> current flow onto any metal will shift its normal potential in the negative direction. Full cathodic protection of steel is obtained by a potential at a certain level defined by standards.

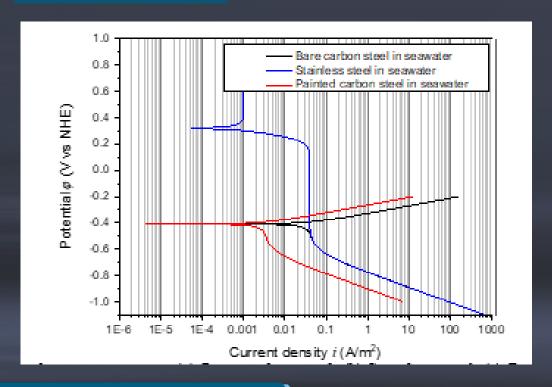


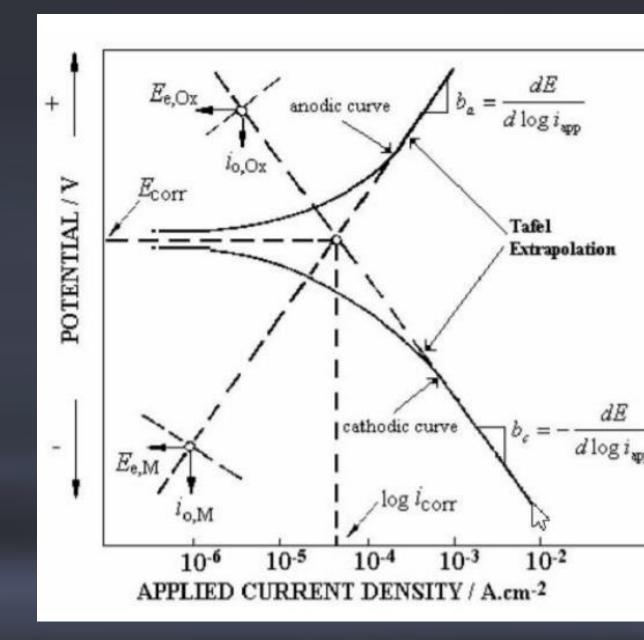






## <u>Characteristic</u> <u>Polarization</u> <u>Curve</u>





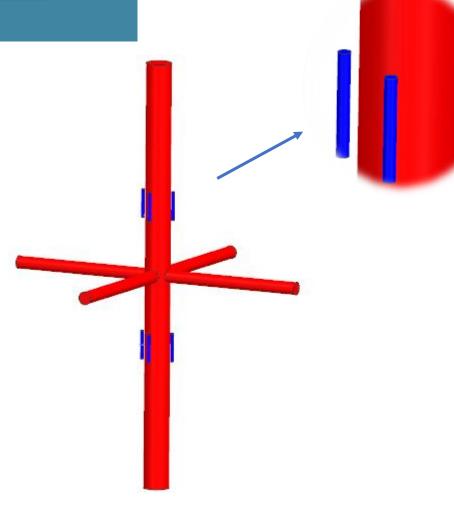








## Tutorial: SACP System



Dimensions	
I Large Pipe (cathode):	30m (30000mm)
D Large Pipe (cathode):	1.8m (1800mm)
I Crossed Pipes (cathode):	10m (10000mm)
D Crossed Pipes (cathode):	0.9m (900mm)
L Anodes:	2m (2000m)
D Anodes:	0.25m (250mm)



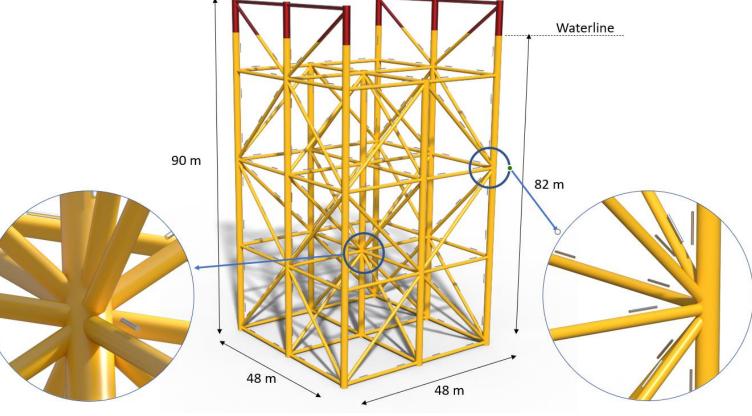






## Example-1: Oil & Gas Platform





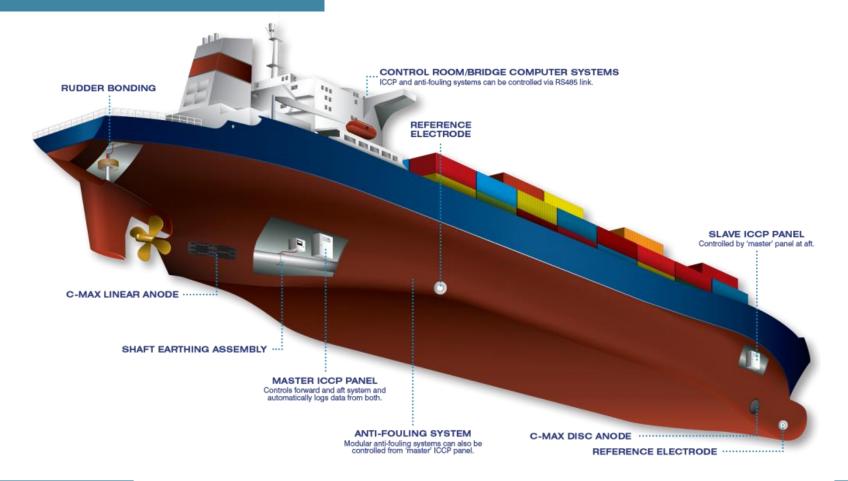








#### Example-2: LPG Vessel









# Thank you for your attention!



