

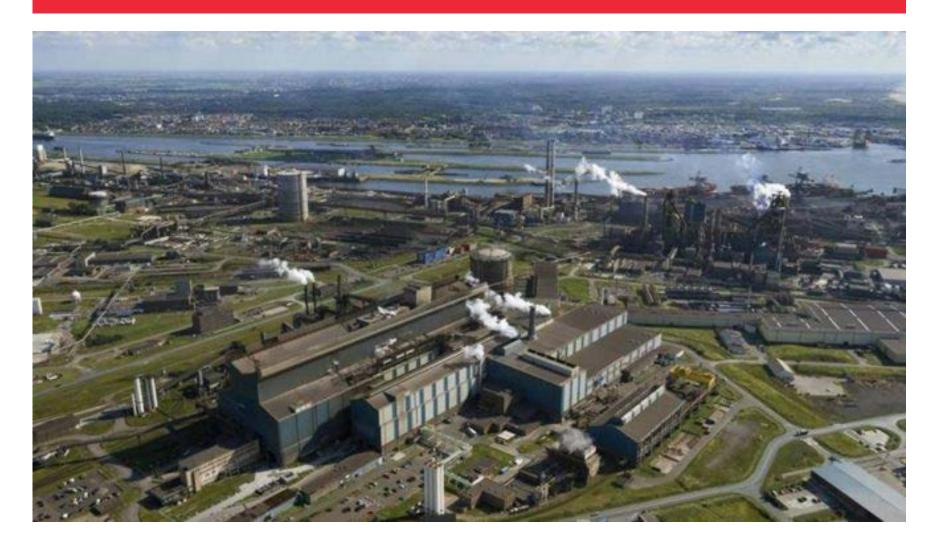




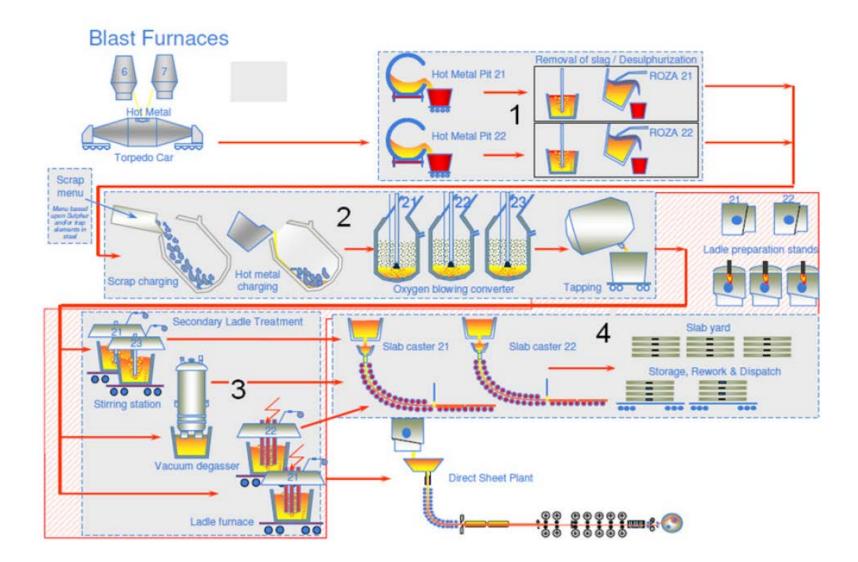
#### Sample Slide – Agenda / Summary slide

1	Contents
2	Basic Oxygen Steel (BOS) plant
3	Converters at BOS plant
4	BOS gas cooling
5	Case study: How to beat discontinuity?

# **BOS** plant



### **BOS** plant



### **BOS** plant

The main steps in steelmaking process: Removal of slag / Desulphurization Hot Metal Pit 21 Desulphurisation ROZA 21 Converting Secondary Metallurgy ROZA 22 Hot Metal Pit 22 Casters Scrap menu and or trap diaments in stant Ladle preparation stands Scrap charging charging Oxygen blowing converter Tapping 00 Secondary Ladle Treatment Slab caster 21 Slab caster 22 Stirring station Vacuum degasser Direct Sheet Plant

Scrap charging



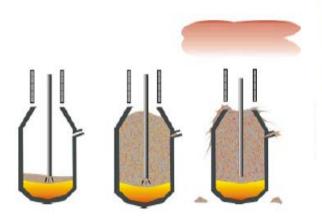
Oxygen blowing and addition of pellets and fluxes

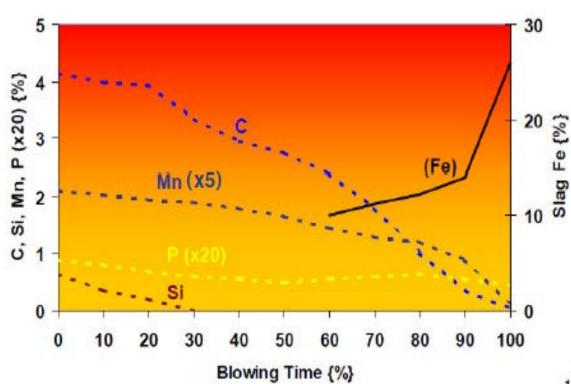


Hot metal charging



Process of oxygen blowing





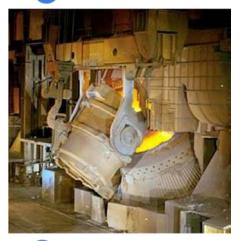
1a Scrap charging



Oxygen blowing and addition of pellets and fluxes



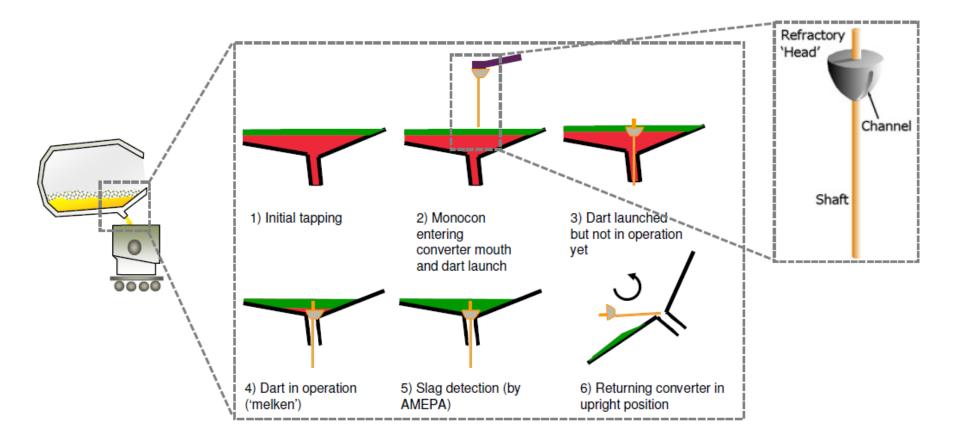
Hot metal charging



3 Tapping and additives



Tapping process

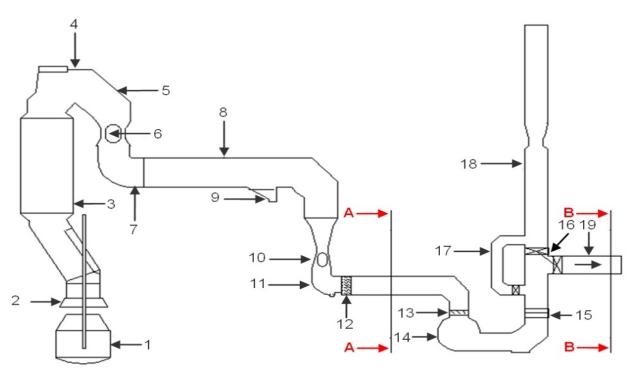


Key numbers converters at the BOS plant

Converters	unit	C21/C22	C23
height	m	9.9	10.8
diameter	m	6.5	6.5
Free volume	m <sup>3</sup>	268	295
Bath height	m	1.8	1.8
Oxygen blowing speed	Nm³/min	~915	~915
Oxygen pressure	bar	8	9
Heat size	tonne	335	335
Blowing time	min	20	18
Cycle time	min	~40	~40

### **BOS** gas cooling

Converter 23 is different than converter 21 & 22



1 = convertervat

2 = schort

3 = schachtketel

4 = keteltop

5 = gaskoeler

6 = vaste venturi

7 = separatorbocht

8 = oversteekleiding

9 = slikvanger

10 = Bischoff-venturi

11 = separatorbocht

12 = druppelvanger

13 = drallklep

14 = primaire ventilator

15 = geluiddemper

16 = gasomschakelstation

17 = omloop

18 = schoorsteen

19 = naar gasterugwininstallatie

#### Case study

- Show your creative side
- Make your own assumption, but try to justify them
- You have about an hour, afterwards everybody will present their solution within 5 minutes