



# liquidView

## Problem:

A cost and time efficient tapping cycle needs to know the correct liquid levels (iron and slag) in the hearth.

## Solution:

liquidView, thanks to hot metal level in torpedo ladle measured by radar devices and blast furnace production data, calculates:

- the trend of liquid level in the hearth
- the torpedo lining status, in terms of skull / erosion thickness (mm).



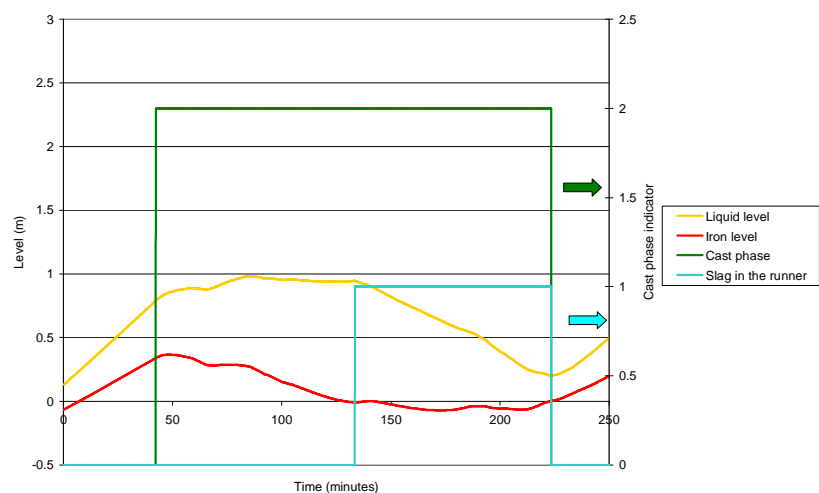
**Throat**

**Shaft**

**Bosh**

**Raceway**

**Hearth**



## Benefits:

- Proper blast furnace tapping strategy
  - Torpedo ladle optimal management
    - Improved blast furnace productivity following the real liquid level trend, avoiding unnecessary production decreases (e.g. liquid level approaching tuyeres).

## Industrial Arrangement:

Availability of radar probes at specific point.  
L1 and L2 blast furnace process data.

