Deposit of titanium carbonitrides in the blast furnace hearth

**Stage 1**
Addition of DSO Lump Titano-Magnetite to the burden

**Stage 2**
Reduction of magnetite and ilmenite into iron and oxides of titanium in the shaft of the blast furnace
Reduction and distribution of the titanium between hot metal and slag

**Stage 4**
Precipitation of titanium carbonitrides on the blast furnace hearth