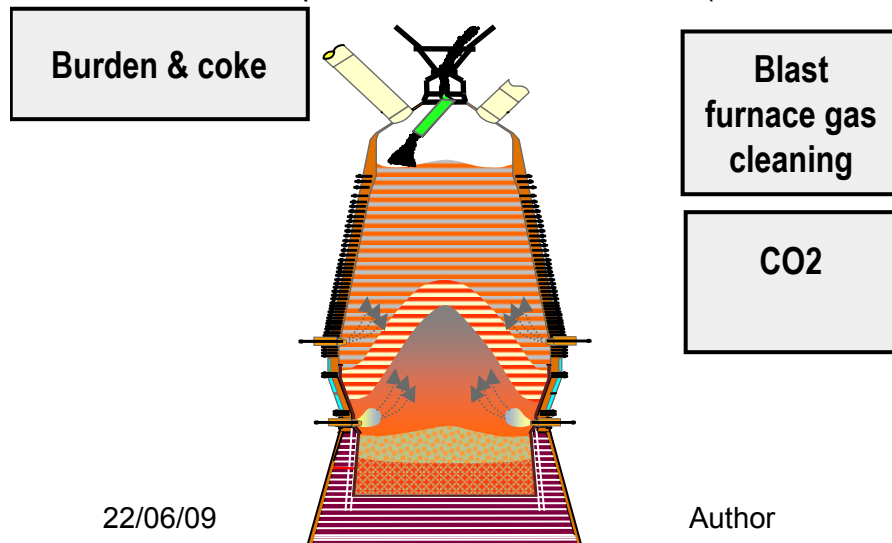


# Steel projet: ULCOS II-TGRBF

- Existing Ultra Low CO<sub>2</sub> Steelmaking Project (ULCOS) brings together 48 partners (steelmakers, supply chain companies, research centers) and has identified **Top Gas Recycling Blast Furnace technology including CCS** as breakthrough for CO<sub>2</sub> reduction in the steel industry
- ArcelorMittal, Corus, ThyssenKrupp have invited other consortium members to scale-up the process and demonstrate it at a scale suitable for further quick and risk-free deployment – the ULCOS II-TGR-BF project
- the program will include 2 steps and 2 dimensions:
  - 1<sup>st</sup> step scales up the TGR-BF concept to the size of a small production Blast Furnace (Ø 6.1m, 650 kt/y), at BF#1 of Eisenhüttenstadt AM plant. No storage yet. PILOT.
  - 2<sup>nd</sup> step scales up further to P6 Blast Furnace in Florange AM plant (Ø 8.5 m, 1,500 kt/y). DEMONSTRATOR.
  - storage of CO<sub>2</sub> in a nearby deep saline aquifer planned in parallel and built up to connect with the BF experiments and their timeline (2<sup>nd</sup> dimension).



- Blast furnace is blown with pure O<sub>2</sub> instead of air
- Top gas is treated to capture CO<sub>2</sub>
- Purified top gas is preheated and recycled to BF