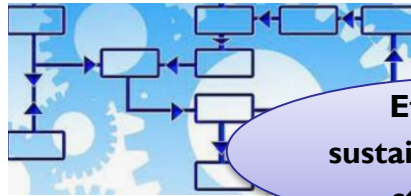


## Process and Systems Engineering lab

- 3 professors (Anders Brink, Henrik Saxén, Ron Zevenhoven)
- 2 lecturers (Frank Pettersson, Jari Böling) and 1 teacher (Frej Bjondahl)
- 20-30 researchers
- 15-25 master's students per year
- Research projects in energy systems, process control and automation, sustainable processes, combustion processes, iron and steelmaking, carbon capture, utilization and storage, computational fluid and particle modelling (CFD, DEM), optimization
- Special focus: 1) Sustainable iron- and steelmaking, 2) Carbon capture, utilization and storage, 3) Modelling of combustion processes



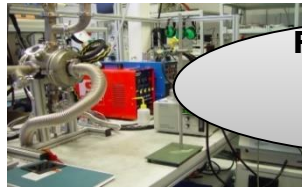
# Process and Systems Engineering lab



Efficient and sustainable iron- and steelmaking



CO<sub>2</sub> capture, utilization and storage

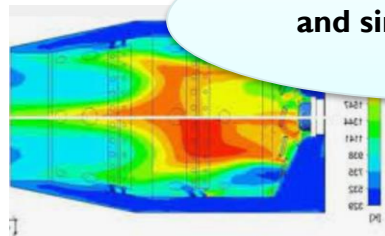


Process & energy systems optimisation

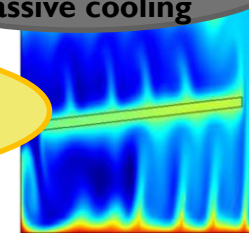
Process emissions control, waste and residues management



Advanced modelling and simulation: CFD, DEM



Thermal radiation & Passive cooling



Energy and resource efficiency