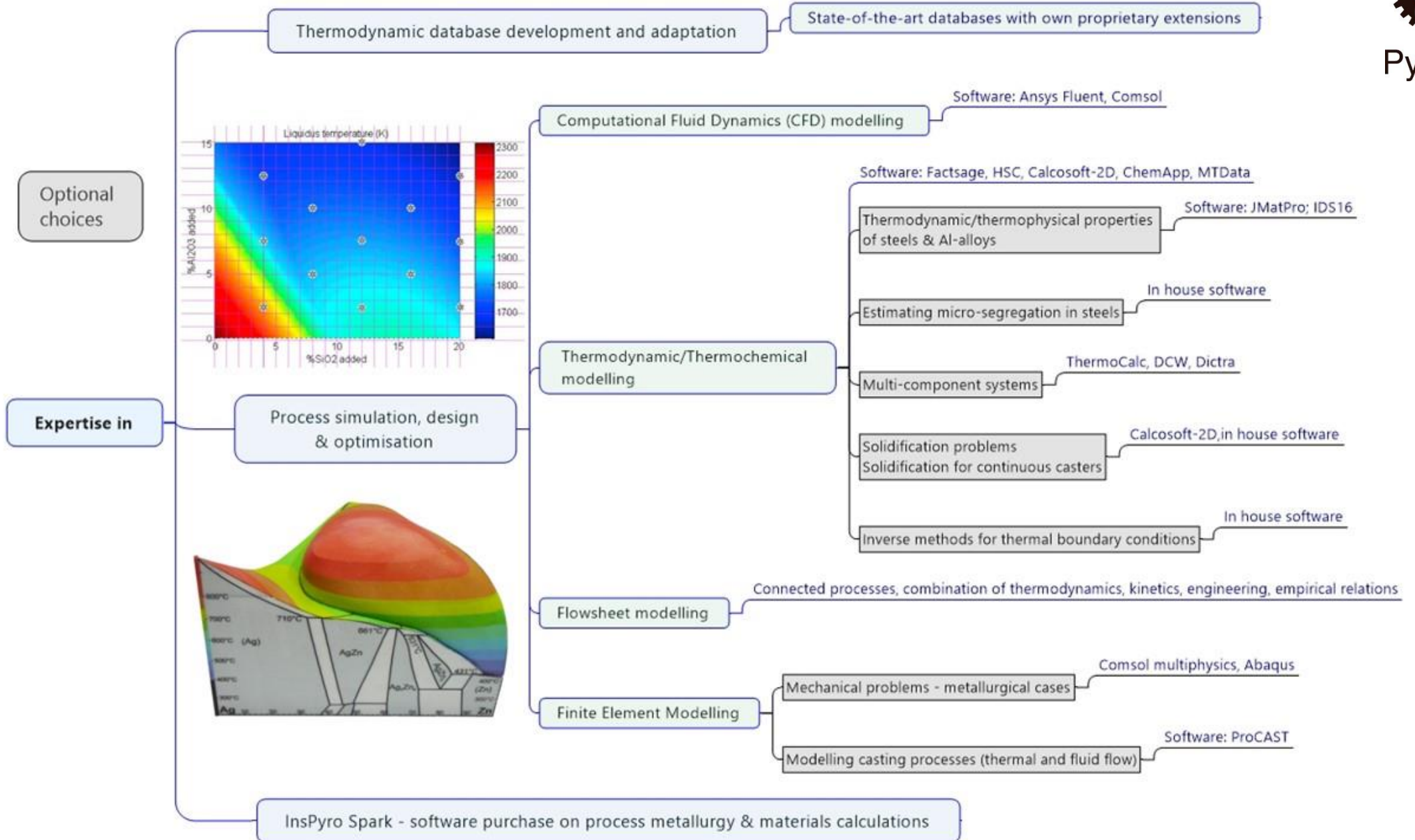


PyroFlex Expertise



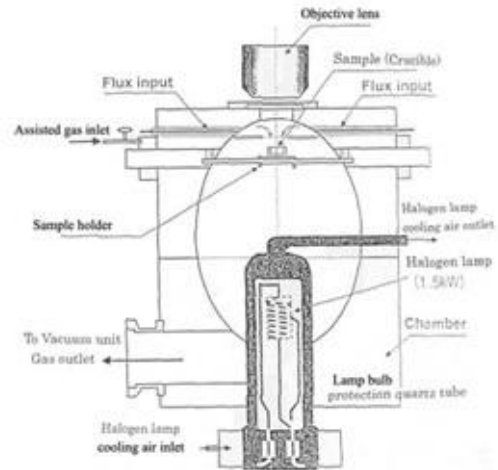
PyroFlex



PyroFlex Characterisation equipment



Analytical equipment & measurements



Solid-gas reactivity test

Setup for testing the reactivity of solid materials towards gases.

High temperature observation

Hele Shaw cell & Confocal Scanning Laser Microscope

Hot stage microscope; High temperature laser scanning microscope & scanning Electron Microscope

Mass spectrometer & Gas analysis

Quantitative gas analysis instrument, also for non-polar molecules, inert gasses, etc.

Different gas analyzers (FTIR also continuous); Oxygen analyzers; Gas chromatograph (not continuous)

Analysis of gas composition (may be coupled to different furnaces)

Thermal analysis

TGA, DTA, DSC, Thermoanalyzer (TG/DCS); Simultaneous thermal analysis (STA)
Dipping test; High Pressure Thermogravimetric Analyser

Viscosity measurements

Viscosity measuring device, operating temperature up to 1700°C

Electrical conductivity measurement

Electro-chemical characterization of materials (solid and liquid phases)

Hot load characterisation

Hot bending test, Submerged Split Chill Tensile Machine Material testing

Hot load testing equipment up to 1600°C

PyroFlex Pyrometallurgical equipment



PyroFlex

- Solidification Processing Facility Furnace
 - Rotary Kiln furnace
 - Shaft Kiln furnace
- Laboratory drum melting furnace
 - Gas atomisation
 - Annealing furnace
 - Cabolite incinerator
 - Coking reactor
 - Vacuum oven
- Bottom Loading Furnace
 - Vertical split furnace
 - High temperature furnace
 - High frequency remelting furnace
 - Heat treatment furnace
 - Crucible furnace
 - Rotary furnace
 - Chamber furnace
 - ATR
 - Tammann Furnace
 - Casting furnace
- Reduction, Softening & Melting Equipment



Other Furnaces Pyrometallurgical equipment



- Pyrolysis
- Top Blown Rotary Converter (TBRC)
- Electric furnace AC or DC
 - Electric Arc Furnace
 - ESR (Electroslag Remelting)
 - VAR (Vacuum Arc Remelting)
- Flash smelting furnaces
- Tube furnace
 - With stirring
- Microwave furnace
- High temperature electrolysis
- Induction furnaces
- Crucible furnace
- Fluidized bed
- Sintering equipment
 - Hot press
 - Spark Plasma Sintering
- Baths
 - Lauda bath circulator