**Challenge**

How to overcome confidential issues when sharing data & results in and across process sectors?

**Solution – Sector blueprint**

- Typical process industry sites (refinery, steam cracking, chemicals)
- Simple & clear message
- Systematic approach
- Validated by sector associations (CEFIC)

**Methodology**

- Select units, major energy & mass flows (Pareto approach), key parameters
- Identify utility consumptions / process requirements
- Close mass & energy balances
- Merge process units, vary quality, parametric equations, response surfaces
- Heat, power and material profiles

**Representation levels**

- **Black box**
  - general requirements
  - input/output flows
- **Site map**
  - site major sections (processes, utility network)
  - utility system, waste treatment, production support
  - main consumers, energy & mass balances
- **Process unit**
  - unit transformation steps
  - process requirements

**Results – Chemical Sector Blueprint visualisation**

Parametrised Sankey

**Conclusion**

Blueprints provide an easy and clear solution for industries to share data and learnings that can lead to better practices, operation optimisation and even new businesses. The profile is flexible (process units can be added/removed) and representative of the various operating modes of a real chemical site.