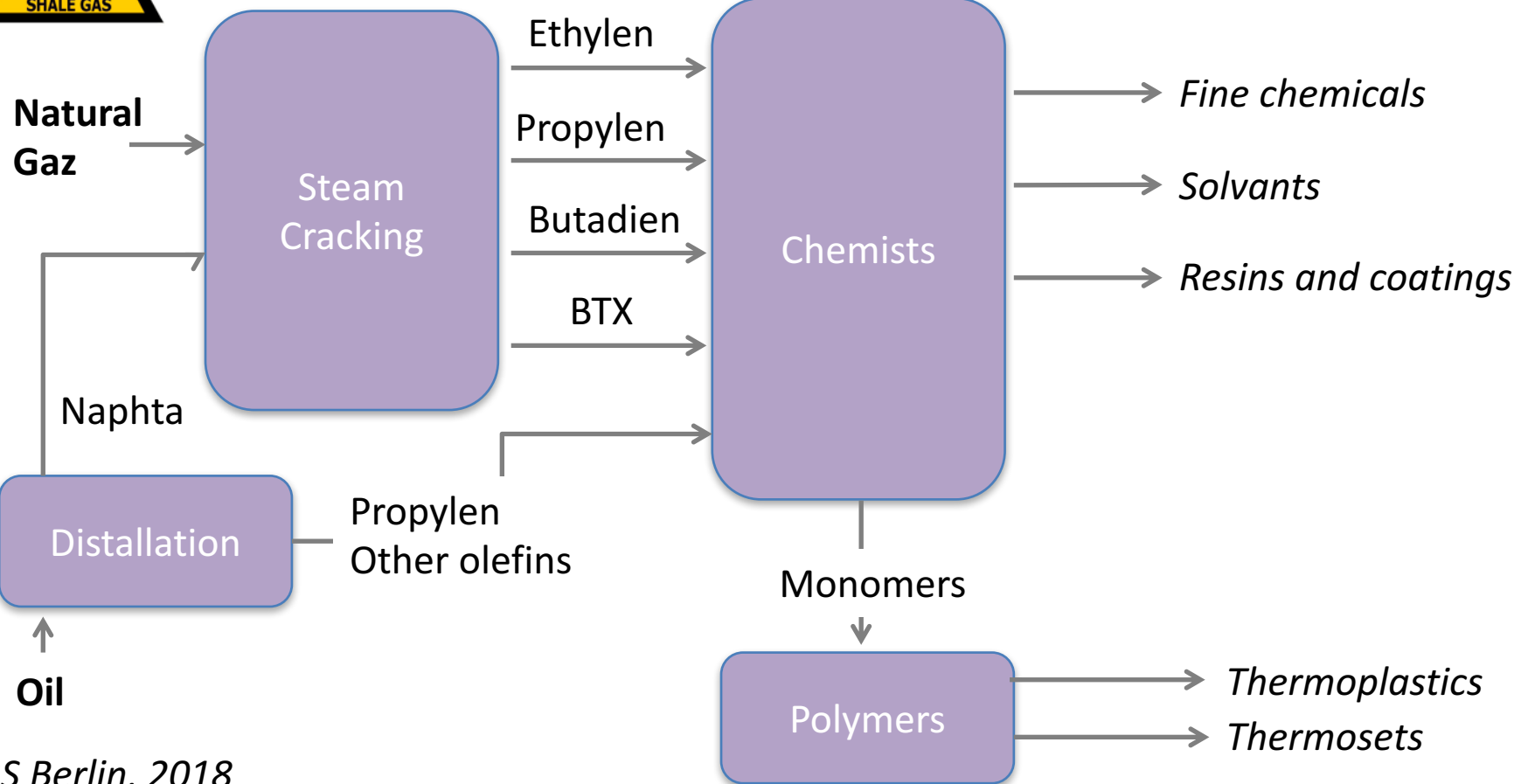


Projections IEA, 2017 for chemistry

2016: 17,4 M. barrel/day

2025 : 21,1 M. barrel/day

2040: 15,7 M. barrel/day

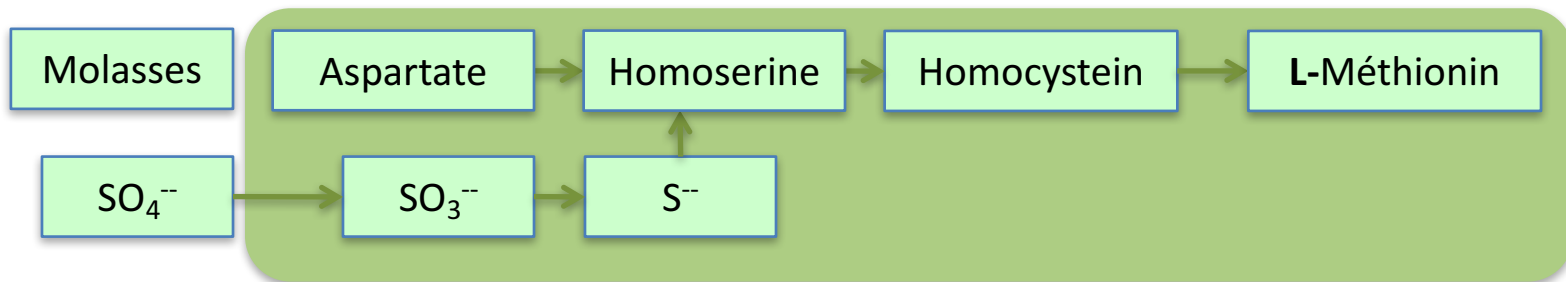
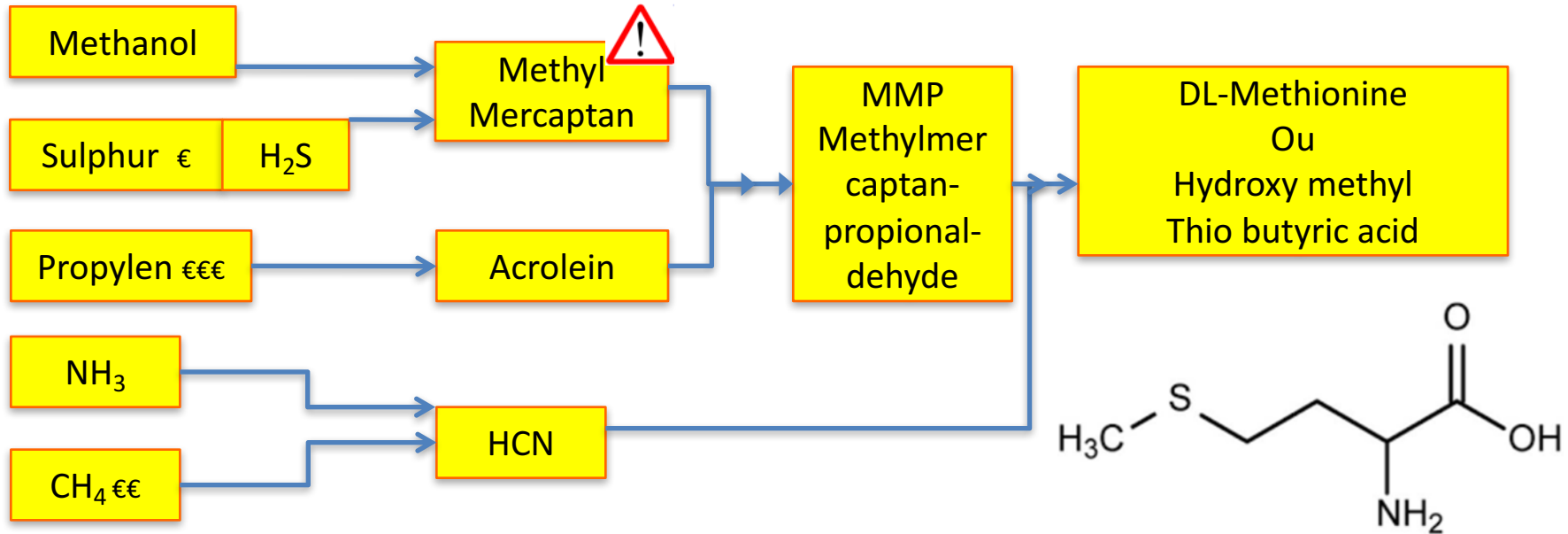


Methionine

880 kt in 2013; 4,2 €/kg

From chemical process to biotech one

2nd essential amino acid after lysin



E. Coli : Metex, Roquette, Ajinomoto, Arkema

Seveso Directive (1982) aims at prevention, preparedness and response to accidents involving dangerous substances in the EU.