



# Global Business Presentation

**inovyn**  
An INEOS company

# INOVYN is part of INEOS Group

# INEOS - key dimensions

## INEOS AT A GLANCE (2018)

Employees

22 000



Turnover

\$ 60 Billion



Production

60 million tonnes



Heritage

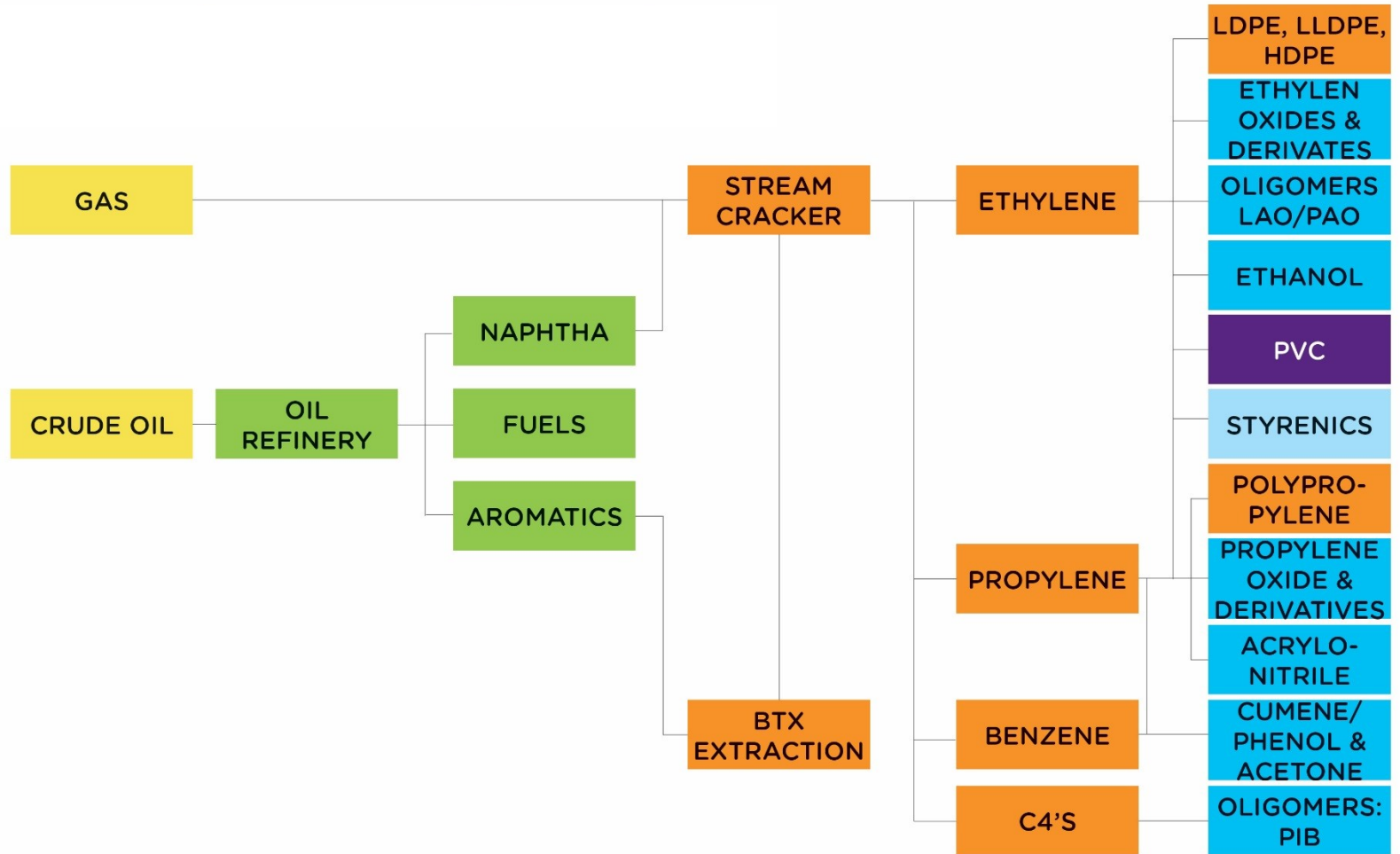
AMOCO, BASF, BAYER,  
BOREALIS, BP, DEGUSSA,  
DOW, DEA, DONG, ENERGY,  
ENICHEM, ERDÖLCHEMIE,  
FLINT HILLS RESOURCES,  
HOECHST, ICI, INNOVENE,  
LANXESS, MONSANTO,  
NORSK HYDRO, SOLVAY,  
TRONOX

Sites

183 sites in 26 countries



# INEOS: Vertically integrated, large scale producer



# INOVYN - key dimensions

## Profile

Employees

4300



Turnover

€3.5  
Billion



Production

4.0 million  
tonnes per annum



Sites

17

manufacturing  
sites in  
8 countries



Products

150+ products  
and grades



Key Brands

CERCLOR™  
METHOKLONE™  
INOVYN™ PVC



# INOVYN is a European leader

## Vinyls

### Leadership positions in Europe



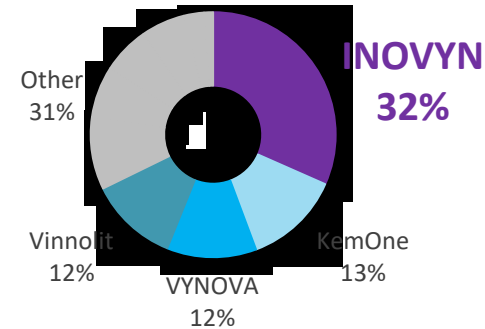
General Purpose Vinyls



Specialty Vinyls

*2x larger than next European competitor*

### All PVC<sup>(1)</sup>



## Others

### Leadership positions in Europe<sup>(2)</sup>



Caustic Soda



Epichlorohydrin



Allyl Chloride

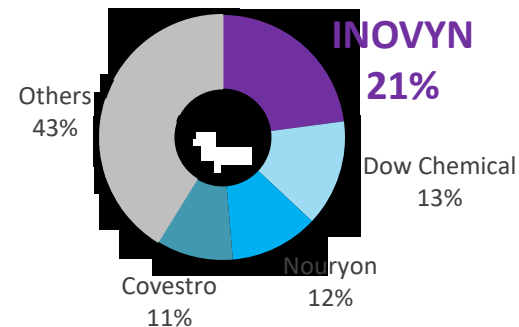


Caustic Potash



Chlorinated Paraffins

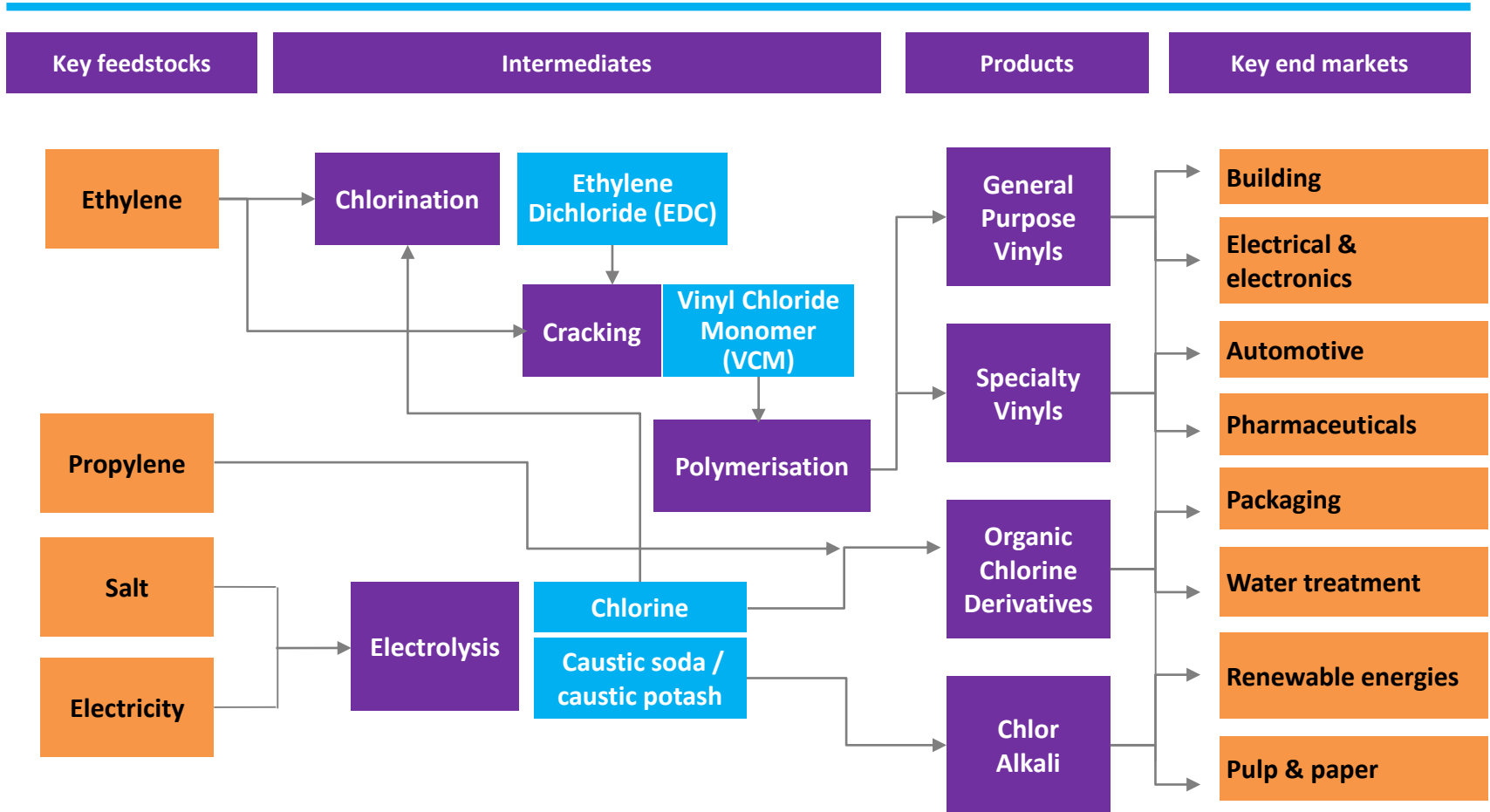
### Caustic Soda<sup>(3)</sup>



Source: IHS, company information

1. Capacity market share for EEA (2017), excluding Oltchim
2. Based on management estimates for merchant market share
3. Merchant market share for caustic soda liquor (EEA 2016)

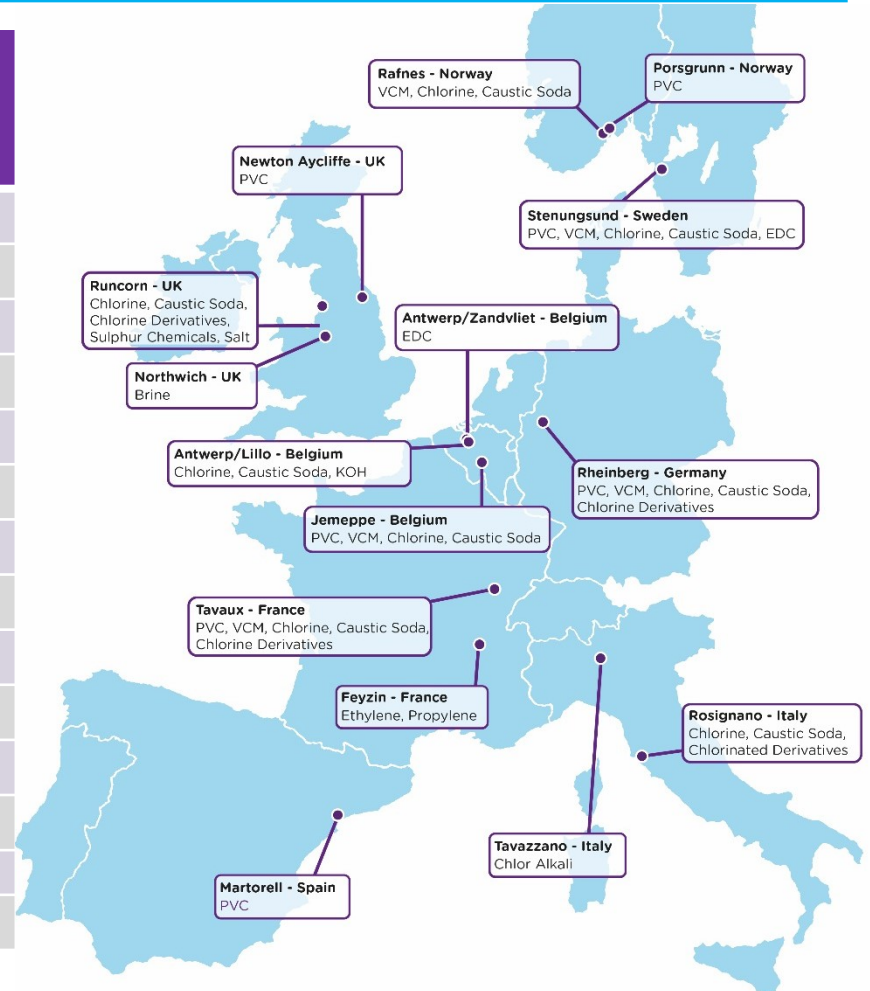
# The INOVYN value chain



Production > 4.0 million tonnes per annum

# Assets located in the key markets of Europe

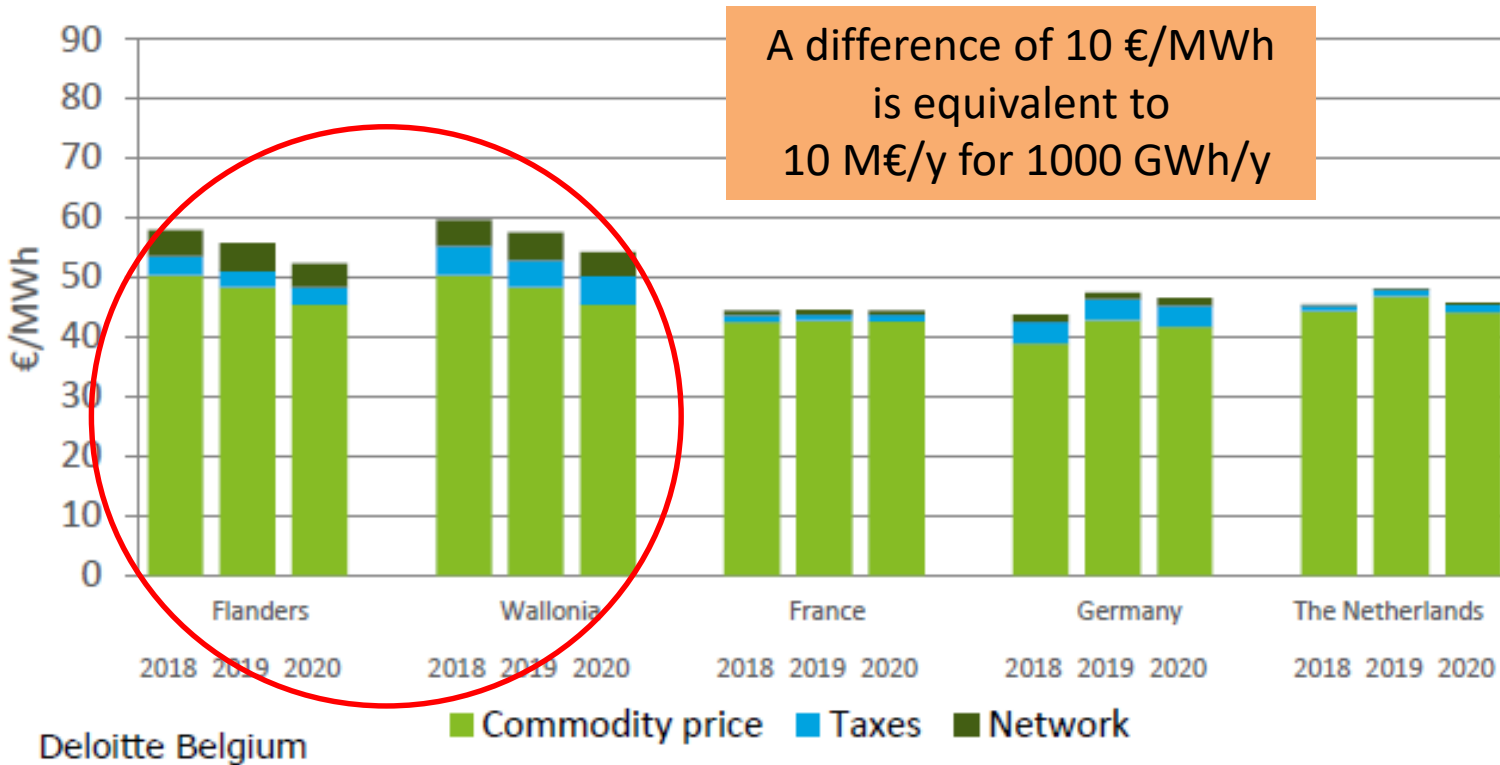
Production sites	General Purpose Vinyls	Specialty Vinyls	Organic Chlorine Derivatives	Chlor Alkali
Antwerp/Lillo				✓
Jemeppe	✓	✓		✓
Martorell	✓			
Newton Aycliffe	✓			
Northwich				✓
Porsgrunn	✓	✓		
Rafnes				✓
Rheinberg	✓	✓	✓	✓
Rosignano			✓	✓
Runcorn (1)			✓	✓
Stenungsund	✓	✓		✓
Tavaux	✓	✓	✓	✓
Tavazzano				✓
Antwerp/Zandvliet	✓			





# The importance of electricity for INOVYN

All-in electricity prices for baseload profiles (1000 GWh)



# The importance of electricity for INOVYN

- INOVYN electricity consumption (typical GWh/y) :
  - Europe : 6250
  - Belgium : 2050
  - France : 1200
  - Germany : 500
- European investments since INOVYN creation in 2016 :
  - 2016 : Jemeppe : acquisition of the local cogeneration unit
  - 2017 : Antwerp : electrolysis capacity conversion from NaOH to KOH
  - 2018 : Tavaux and Rheinberg : electrolysis capacity expansion
  - 2019 : Jemeppe : PVC capacity conversion from commodities to specialties  
Stenungsund : electrolysis capacity conversion
  - 2020 : Rafnes : capacity expansion of the electrolysis and vinyls chain  
Jemeppe : capacity expansion of the vinyls chain
  - 2021 : Stenungsund : PVC capacity expansion