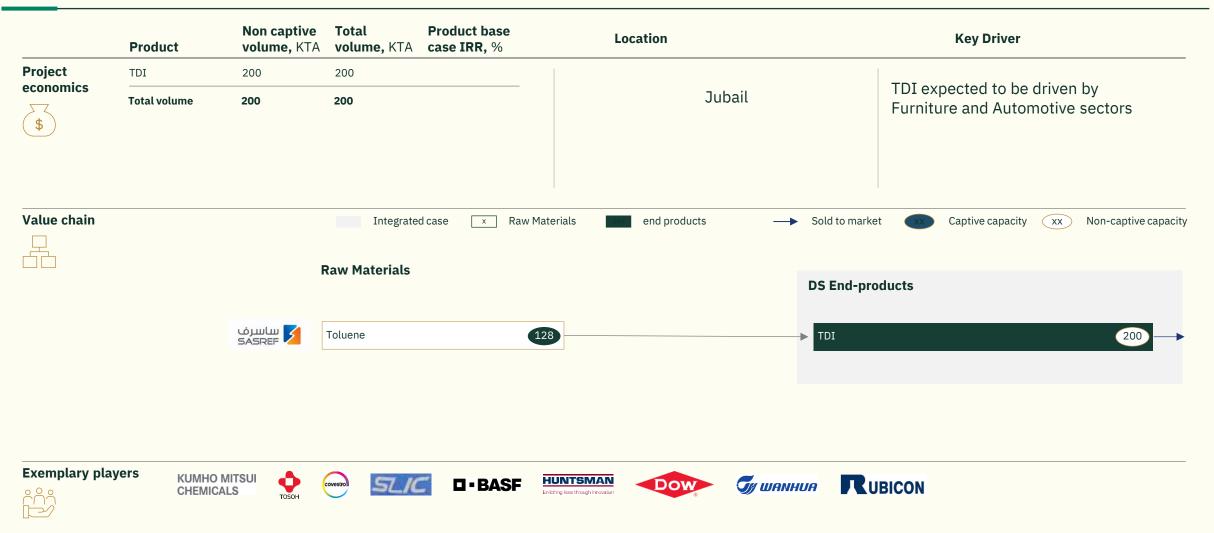


TDI complex

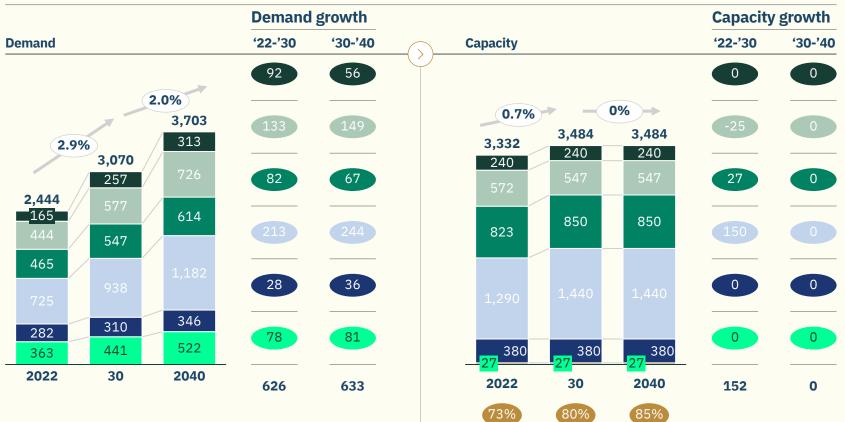


KSA can target ~200 KTA for TDI, of which ~90 captive in KSA and rest for export to Asia and Europe

xx% Estimated Utilization rate, %

Middle East¹ Europe North America China RoW

Global TDI demand / capacity, KTA



Asia²

Key takeaways

Addressable demand³ of ~405 KTA mainly in Middle East, Asia, **Europe, and China**

Target demand based on KSA position in the cost curve is 305 **KTA** in:

- Middle East: 92 KTA
- Asia: 158 KTA •
- Europe: 55 KTA

KSA could install a **world scale** plant of 200 KTA, corresponding to 56% capture rate of target demand in Middle East, Asia and Europe

1. Includes Iran, Israel, Kuwait, Oman, Qatar, KSA, Syria, UAE, Turkey | 2. Excluding China | 3. Calculated as demand growth – capacity growth if demand growth > capacity growth, otherwise 0 (except for Middle East, where KSA growth can always be captured)

KSA demand growth for TDI expected to be driven by Furniture and Automotive sectors

Applied to the end product (i.e., polyurethane) (xx% Share of demand covered by the application², % **KSA TDI demand** projection, KTA **Demand drivers** CAGR End market CAGR Demand (application) outlook, KTA **'22-'30**,% **'30-'40**,% +4.2% 67 50 3% 3% **44%** Furniture 9 +23.4%59 113 33 17% 6% **ُ 29%** َ Automotive 16 9% 6% 8% Construction 2 29 21 21 3% 6% **〔19%**〕 Other¹ 2022 30 2040 2030 demand is driven by +520 KTA of polyurethanes installed in KSA

Key takeaways

KSA represents ~1% of global demand and expected to grow at 23.4% CAGR by 2030

Afterwards the growth may slow down to 4.2% CAGR

Key drivers of growth in KSA is the **installation of 4 unit of 130 KTA each of polyurethanes** (total new capacity is 520 KTA). Flexible polyurethanes, grade where TDI is used, demand is driven by:

- **Furniture** industry, with a 3.0% CAGR between 2022-30
- Automotive industry with a 17% CAGR '22-'30
- **Construction** industry with a 6% CAGR '22-'30

Size of the local market makes TDI an export-oriented investment case

^{1.} Includes use as in industrial manufacturing, textiles, and packaging | 2. Middle East share

