

Additives in China

Jinzhou Kangtai Lubricant
Tiger

Catalogue

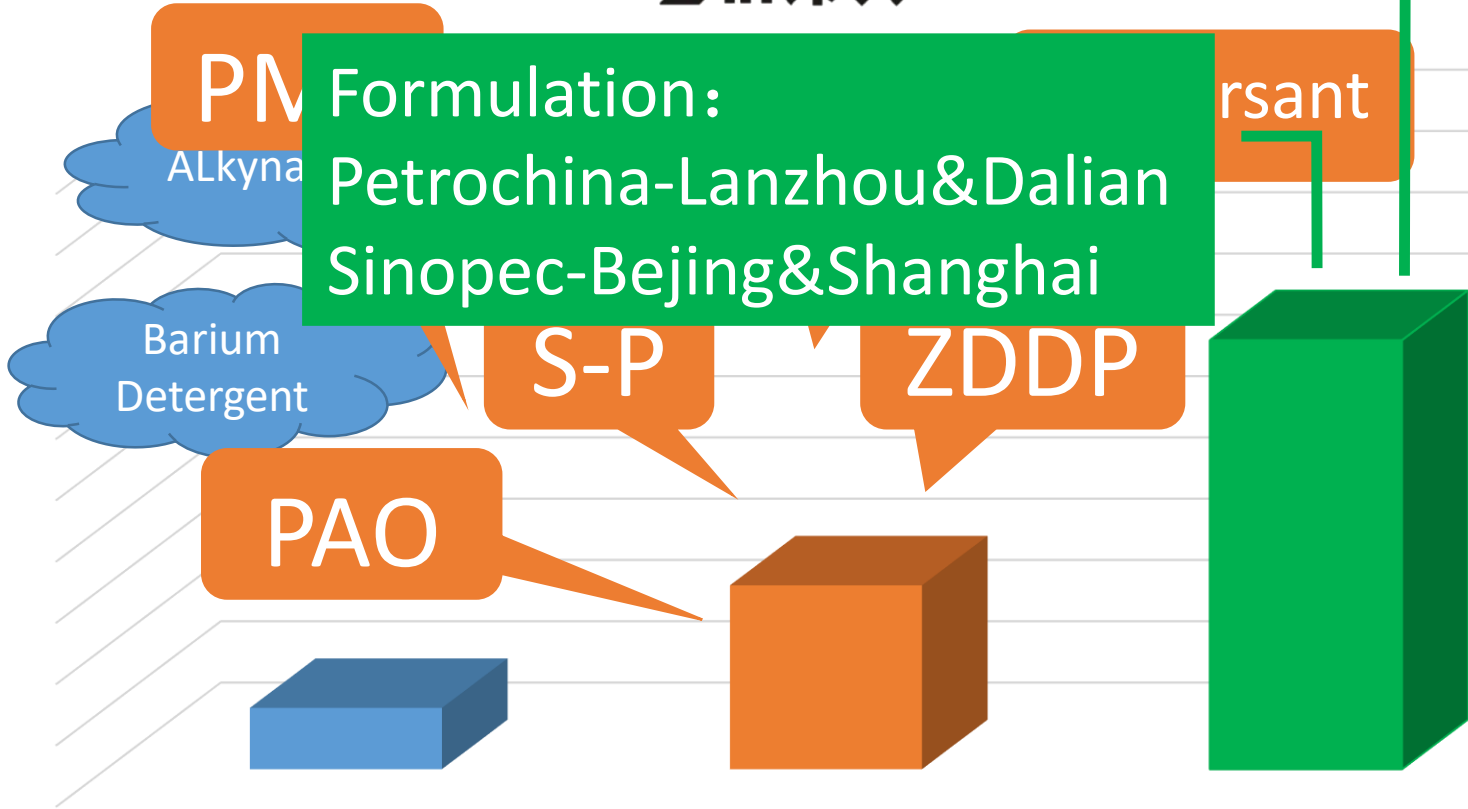
- ▶ History
- ▶ Development
- ▶ Market Situation
- ▶ Chinese Standard
- ▶ Future

History



JV:
Petrochina-Lubrizol
Petrochina-Infineum
Sinopec-Infineum

Formulation:
Petrochina-Lanzhou&Dalian
Sinopec-Beijing&Shanghai

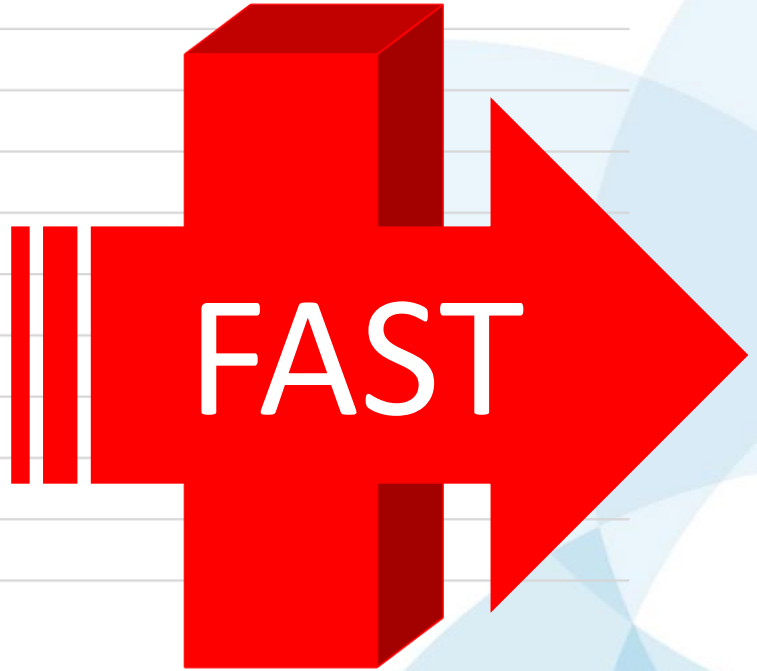


1950s

1960s

1980s

2000s

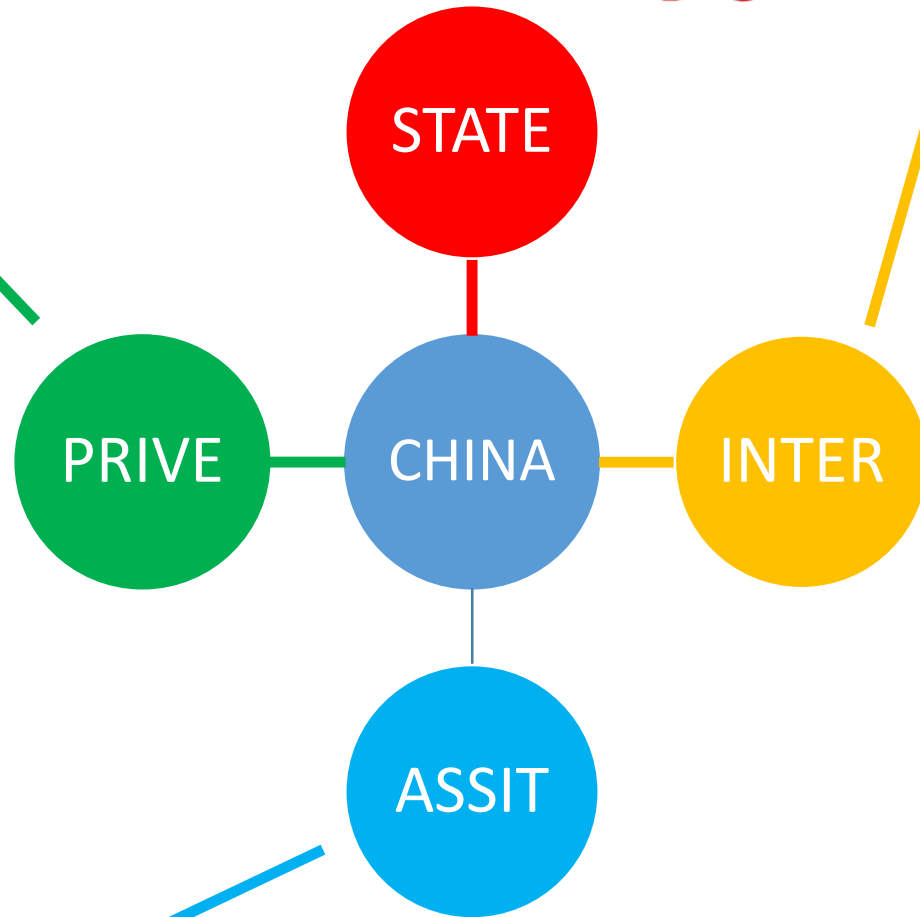


Development



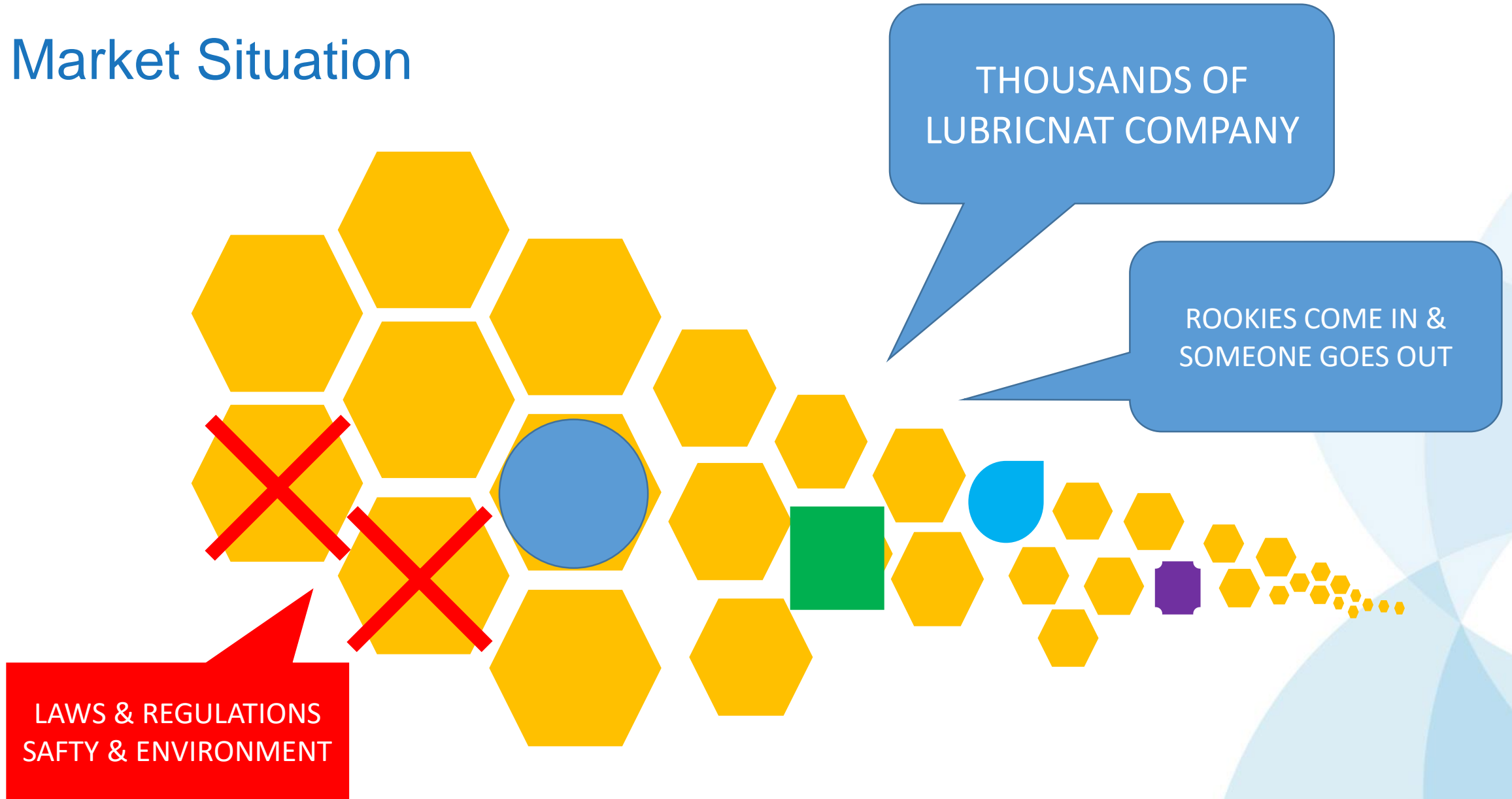
Wuxi
Kangtai
Richful

Solvay
Munzing
Metall CHEMIE
KING INDUSTRIES
.....



Infenium
Oronite
Lubrizol
Afton
BASF
Evonic
Lanxess
... ..

Market Situation



250,000~300,000 MT

LUBRIZOL
INFINEUM
ORONITE
AFTON
BASF
LANEXX
.....

100,000 ~ 120,000 MT

PETROCHINA
SINOPEC
KANGTAI
WUXI
RICHFUL
TIANHE
.....

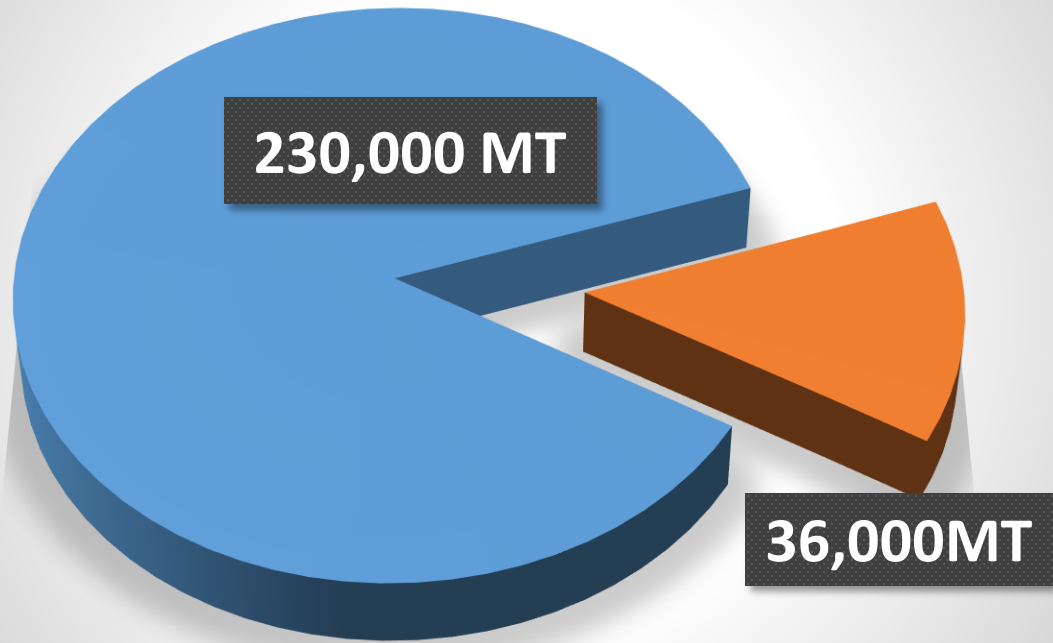
40,000 ~ 60,000 MT

ANTI-CRO
ANTI-OXI
EP
DEFOAM
DEMUL
.....

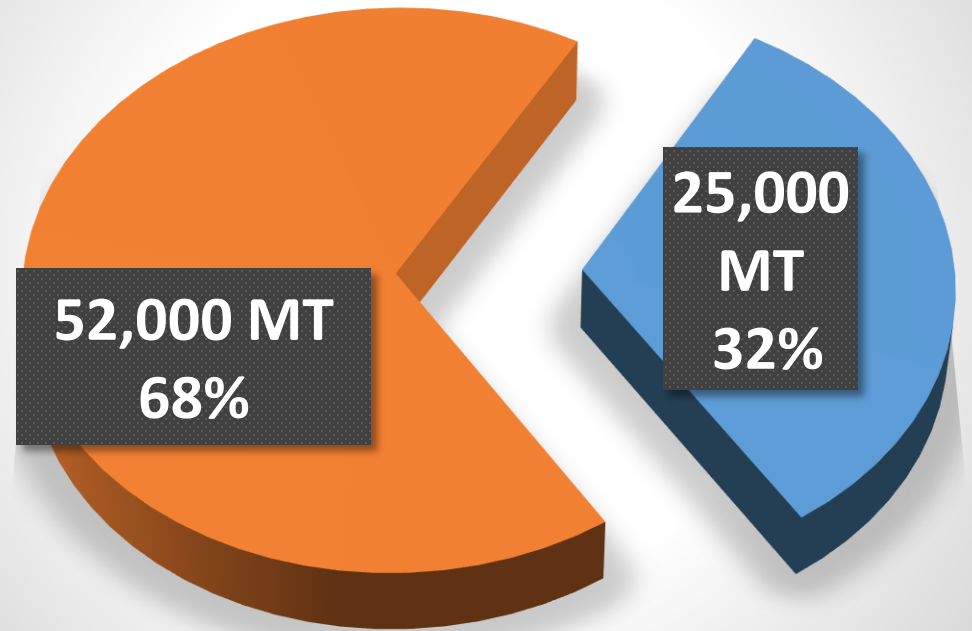
VII IS NOT INCLUDED

700 LUBRICANT in 2018

PACKAGE RATIO IMPORT & DOMESTIC



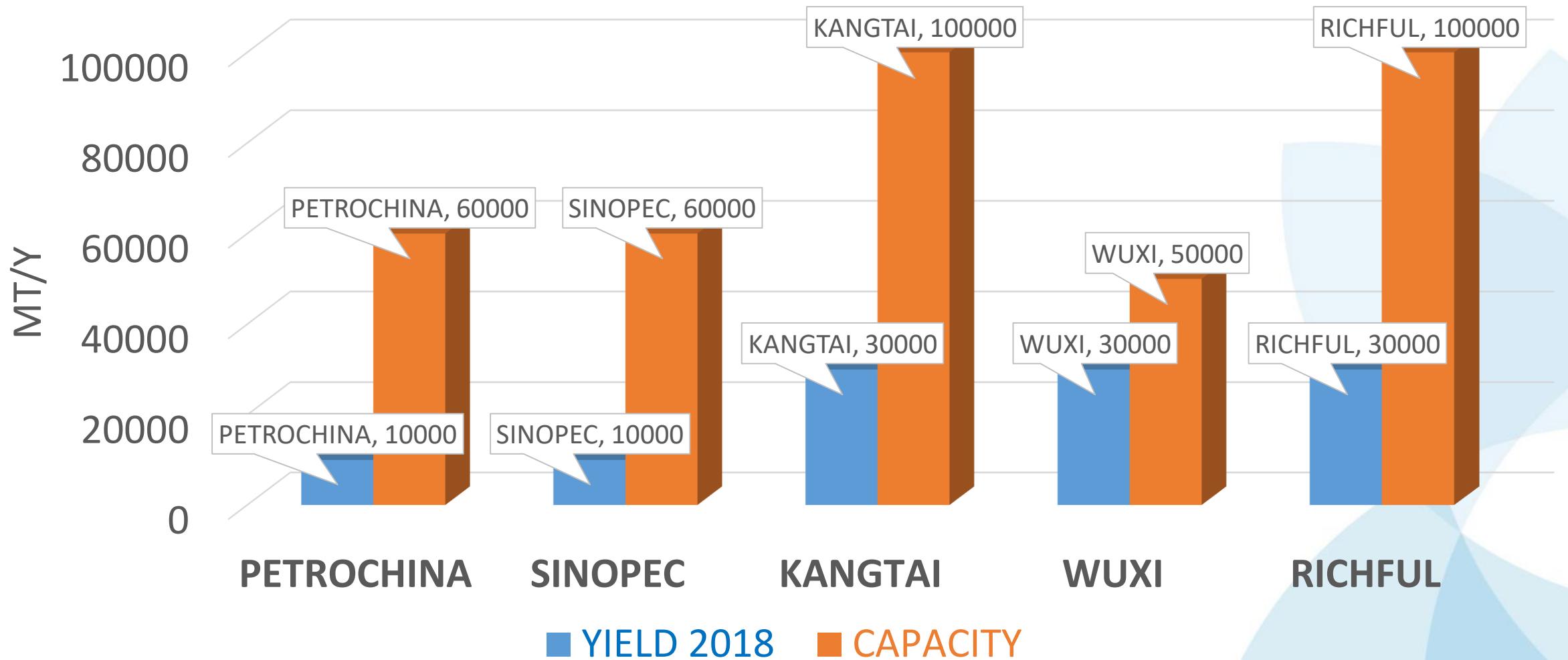
COMPONENT RATIO IMPORT & DOMESTIC

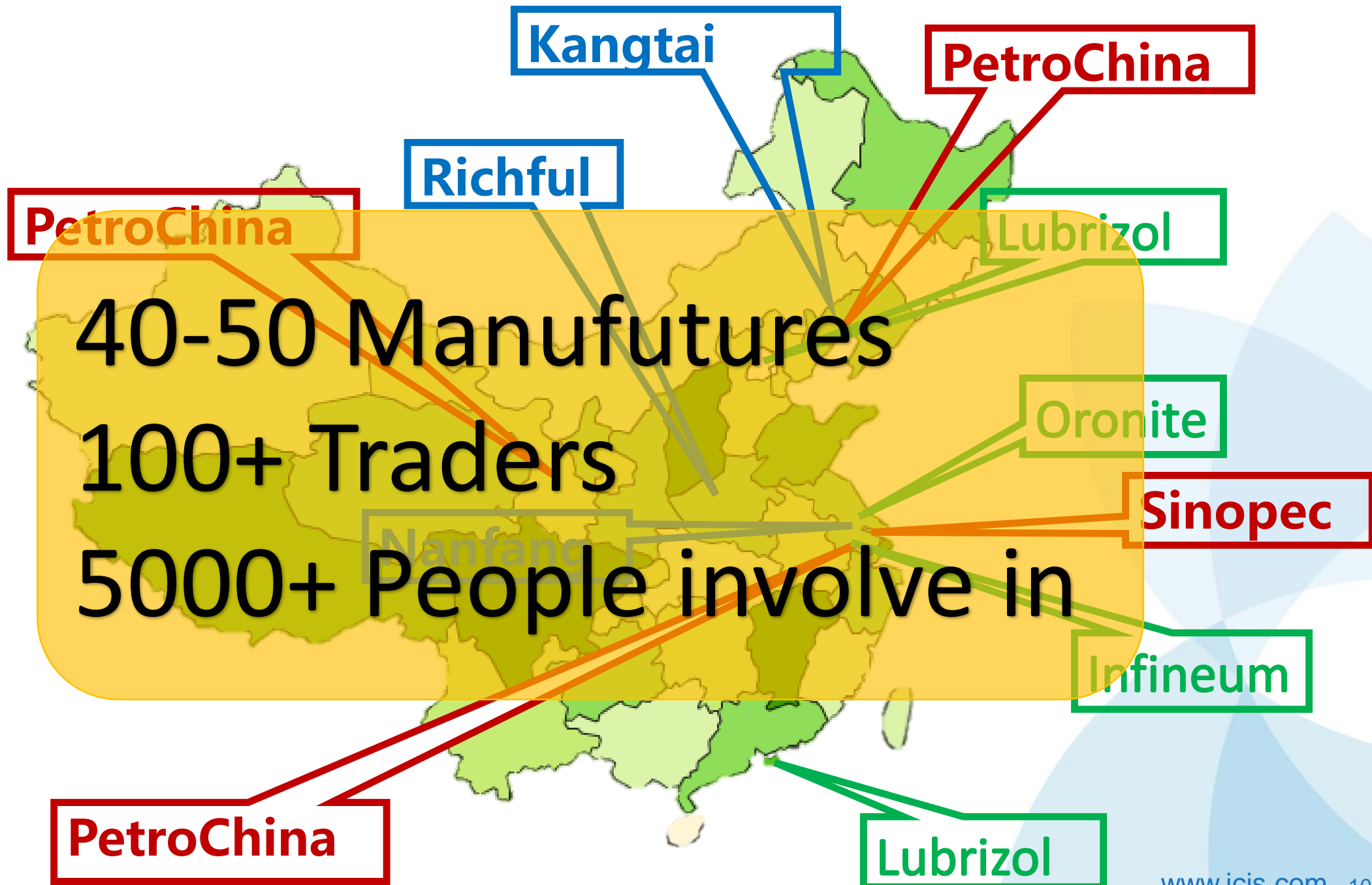




MAYBE WE CAN FIND SOMETHING USEFUL

WHO CONTRIBUTES MORE





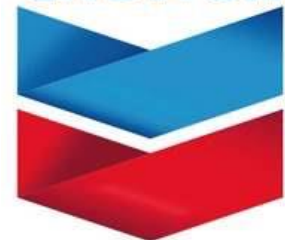
Chinese Standard

Industrial

API GL-4
API GL-5
CKC
CKD
...

Auto

CK-4
CI-4
CH-4
D1
...



Grease

GB/T33585-**2017** Calcium Sulfonate Grease

GB/T33540.1-**2017** Windmill Part I

GB/T33540.2-**2017** Windmill Part II

GB/T33540.3-**2017** Windmill Part III

GB/T33540.4-**2017** Windmill Part IV



海华



Future

GEAR OIL
STANDARD

STANDARD

TRANSMISSION
STANDARD



THANKS FOR YOUR TIME