



Economic & Agri Outlook

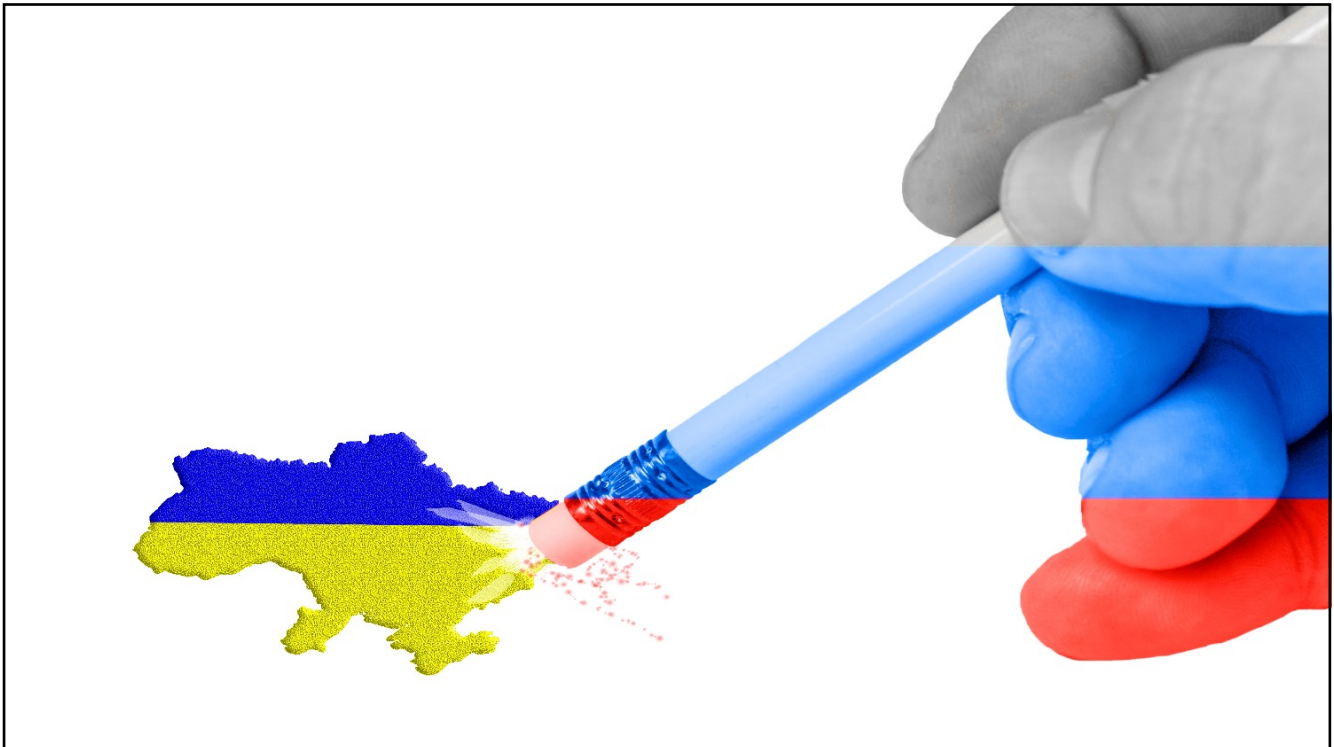
The outlook in a new...

ERASURE OF GLOBALISATION

Stefan Vogel – General Manager
RaboResearch Australia & New Zealand

AAAC, Perth, November 2022

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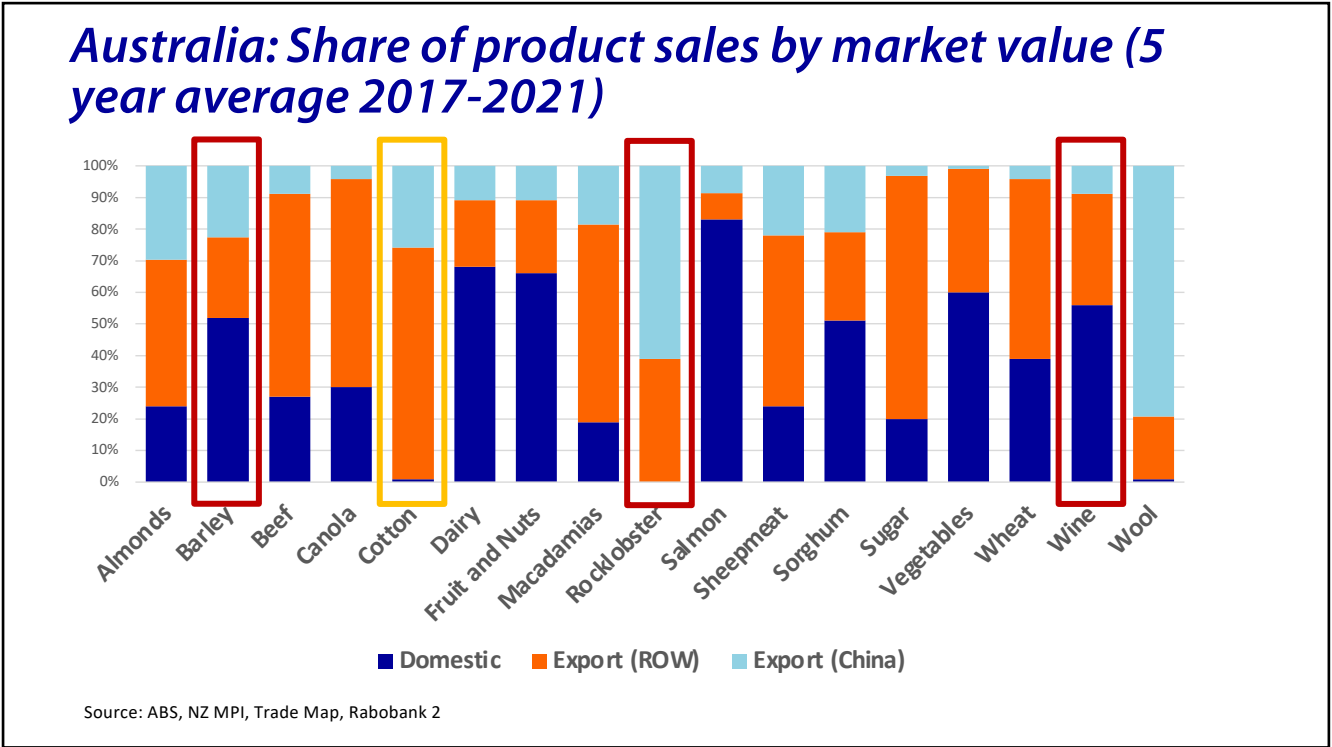
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Rabobank: Financing Food & Agri Globally

100 professional analysts around the world, >70 focused on food & agri

Global Economics
FX, Interest Rates, Bonds

Food & Agri Research covering the whole supply chain

- Agri Commodity Markets
- Animal Protein
- Beverage
- Consumer Foods
- Dairy
- Supply Chains
- Farm Inputs
- Fresh Produce
- Grains & Oilseeds
- Sugar

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Source: Rabobank 2022

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Inflation & Global Economic Outlook

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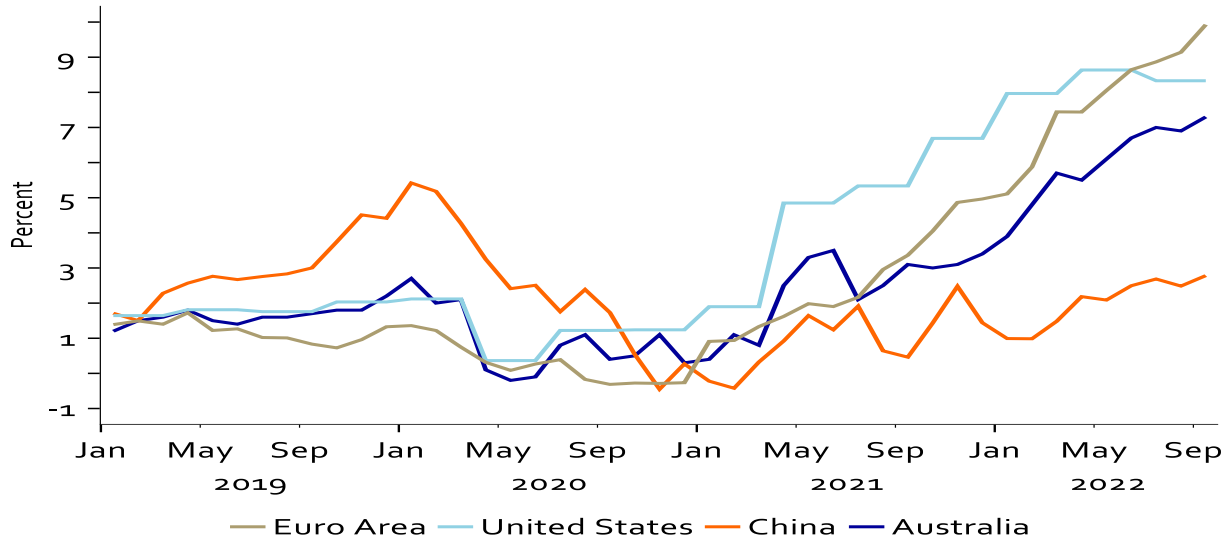
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Inflation is high across many countries



Change Y/Y



Source: Macrobond, Rabobank 2022

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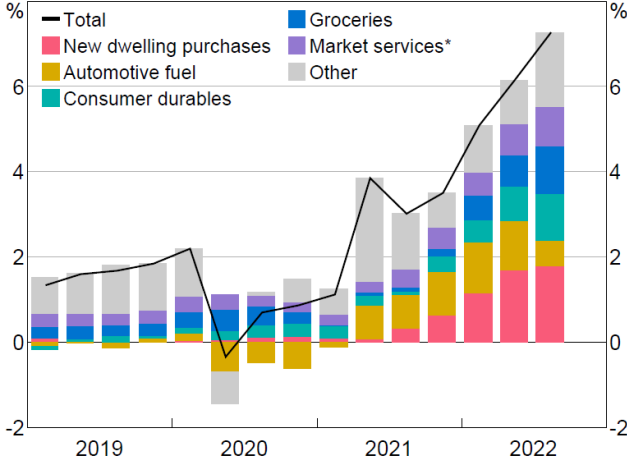
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Food, energy & housing often the key inflation drivers



Australian CPI Inflation

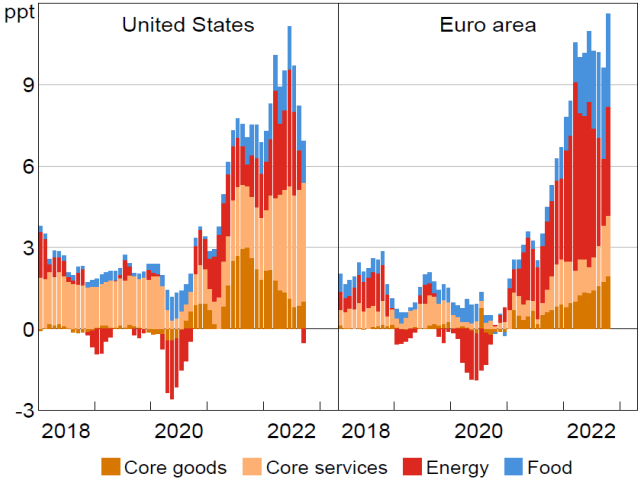
Year-ended with contributions



* Excludes domestic travel and telecommunications.
Sources: ABS; RBA

Contributions to Headline Inflation

Six-month annualised

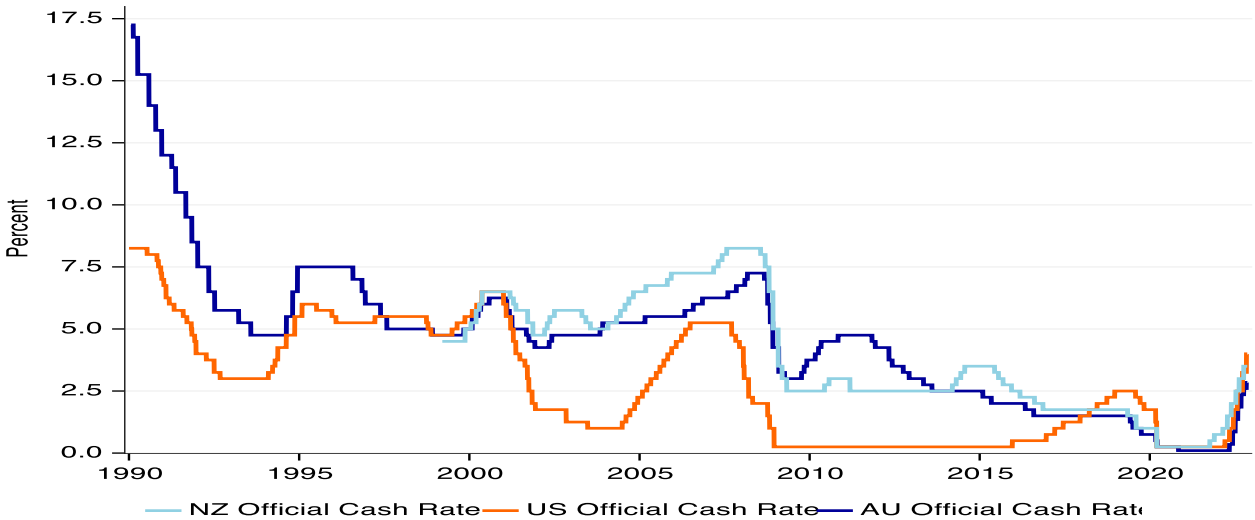


Sources: BLS; Eurostat; RBA; Refinitiv

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Quickest rate hike series on record across economies! Goal = get inflation back to 2-3%



Source: Macrobond, Rabobank 2022

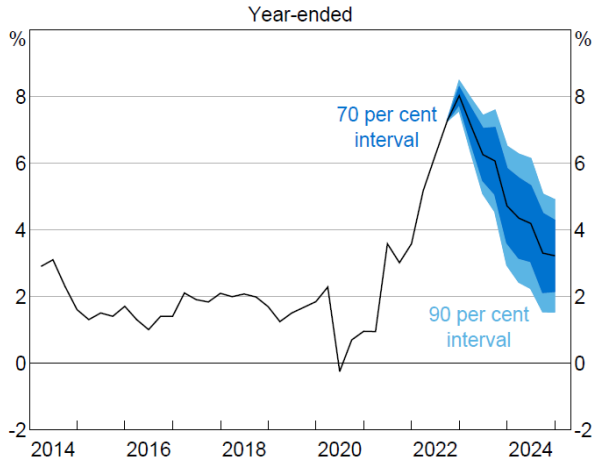
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Central Banks say 'Don't worry, all will be good soon' Really???



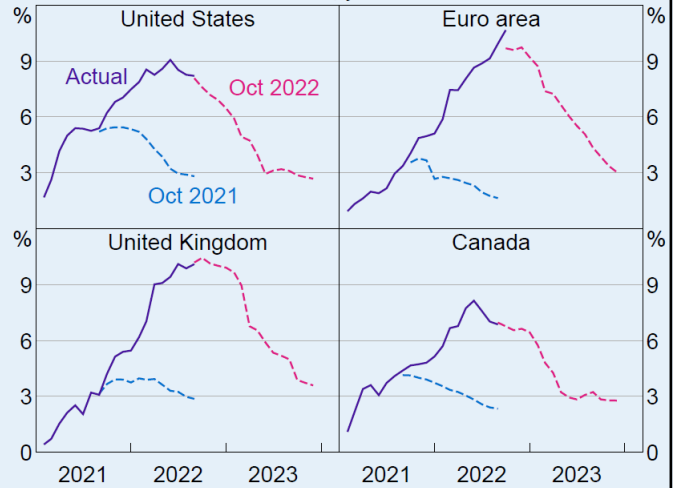
Australian Inflation Headline Inflation Forecast*



* Confidence intervals reflect RBA forecast errors since 1993.
Sources: ABS; RBA

Headline Inflation Forecasts

Consensus, year-ended



Sources: Consensus Economics; RBA; Refinitiv

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Headwinds for global growth extend into 2023



Table 1: Economic Forecasts

	2021	2022	2023		2021	2022	2023
United States				Eurozone			
GDP growth	5.7	1.6	0.4	GDP growth	5.3	2.9	-0.7
Inflation rate	4.7	8.1	4.4	Inflation rate	2.6	8.4	5.9
Unemployment rate	5.4	3.7	4.5	Unemployment rate	7.7	6.8	7.1
China				United Kingdom			
GDP growth	8.1	2.8	5.0	GDP growth	7.4	3.5	-0.4
Inflation rate	0.9	2.3	2.3	Inflation rate	2.6	10.3	7.0
Unemployment rate	n/a	n/a	n/a	Unemployment rate	4.5	3.9	4.3
Brazil				The Netherlands			
GDP growth	4.6	1.8	0.3	GDP growth	4.9	4.7	0.2
Inflation rate	10.1	6.7	4.9	Inflation rate	2.8	10.0	4.8
Unemployment rate	13.5	9.9	10.3	Unemployment rate	4.2	3.6	4.1

US double recession

Slow growth in China

Energy related recession in the Eurozone

Widespread reduction in purchasing power

Australia:	2021	2022	2023
GDP	4.7	4.3	1.7

Source: Rabobank 2022

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GFC Impact: Meat, Fruit & Vegetables suffers during recession



- **Meat** consumption dropped while eggs & legumes saw increases. Fish and Poultry shares within total meat consumption rose above red meat and nuts.
- **Fruit & Vegetables** intake felt the largest hits through increased purchasing of processed foods.
- **Decreased consumer confidence: Daily energy intake fell by 39.9 cal per adult.**

Food Source	Consumption Trend
Meat	Decrease
Dairy	Decrease
Fish	Unchanged
Fruit & Vegetables	Decrease
Sugar (soft drinks)	Decrease
Grains	Unchanged
Vegetable Oils	Unchanged
Eggs	Increase
Legumes	Increase

Key:
 Increase: Green circle
 Unchanged: Yellow circle
 Decrease: Red circle

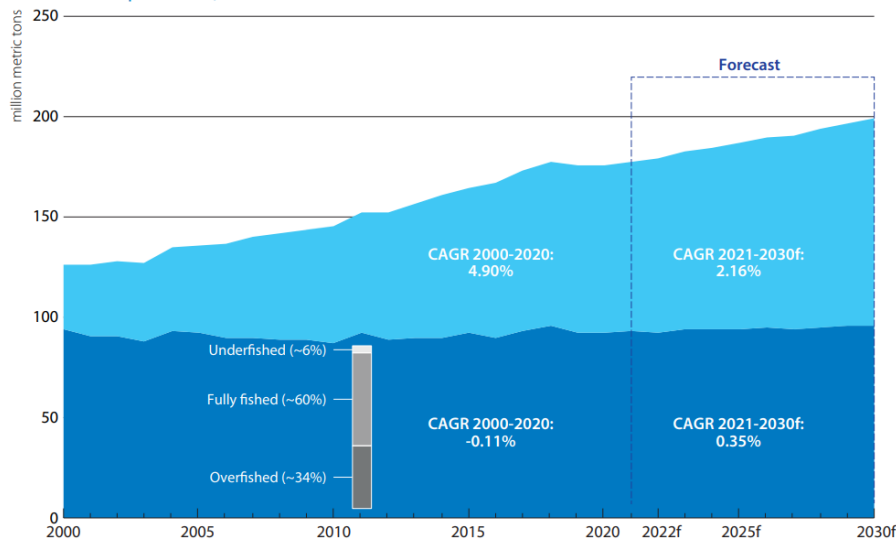
Source: Jenkins et al (2021), Rabobank 2022

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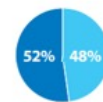
Global consumption of animal protein



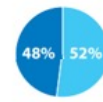
Global seafood production, 2000-2030f



Fishery production, 2021



Fishery production, 2030f



■ Aquaculture
 ■ Total capture

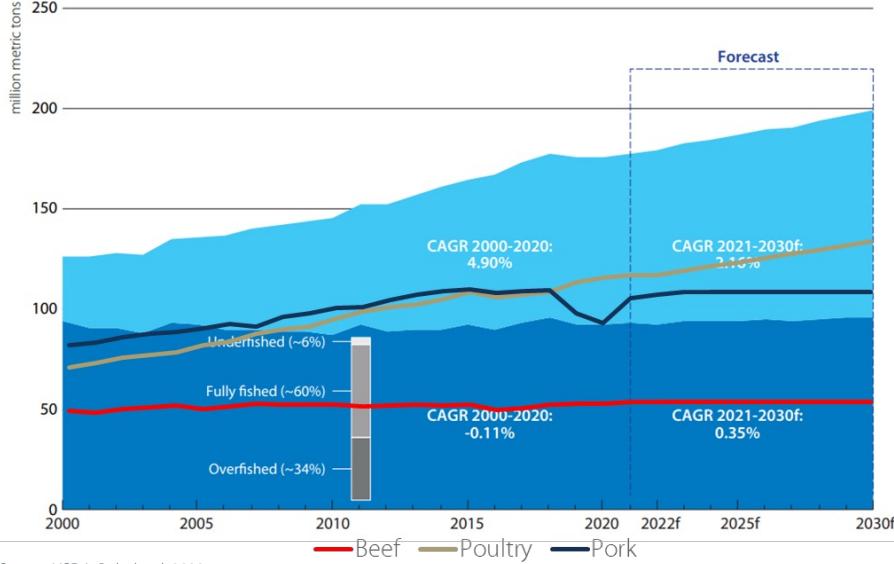
Source: USDA, Rabobank 2022

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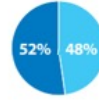


Global consumption of animal protein

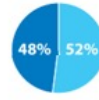
Global seafood production, 2000-2030f



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Aquaculture
Total capture

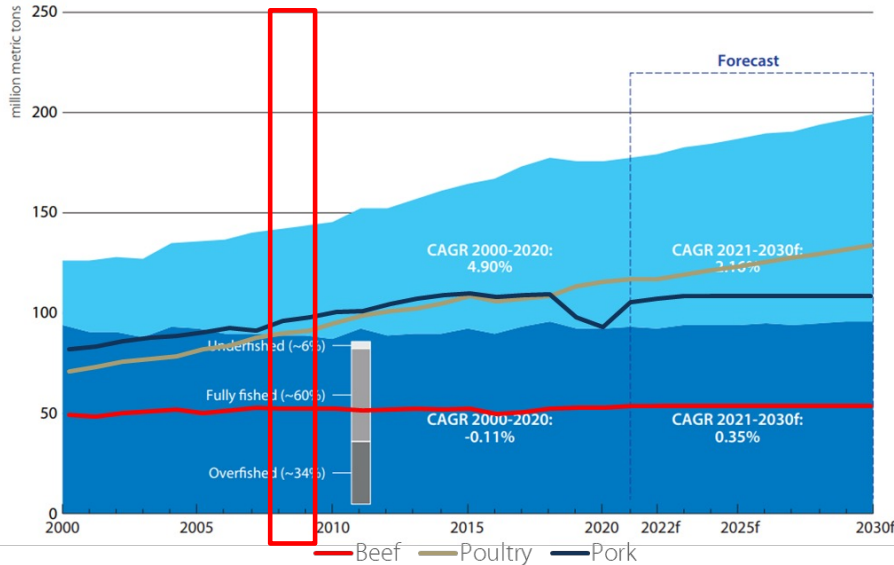
Source: USDA, Rabobank 2022

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Global consumption of animal protein during GFC

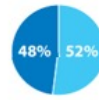
Global seafood production, 2000-2030f



Fishery production, 2021



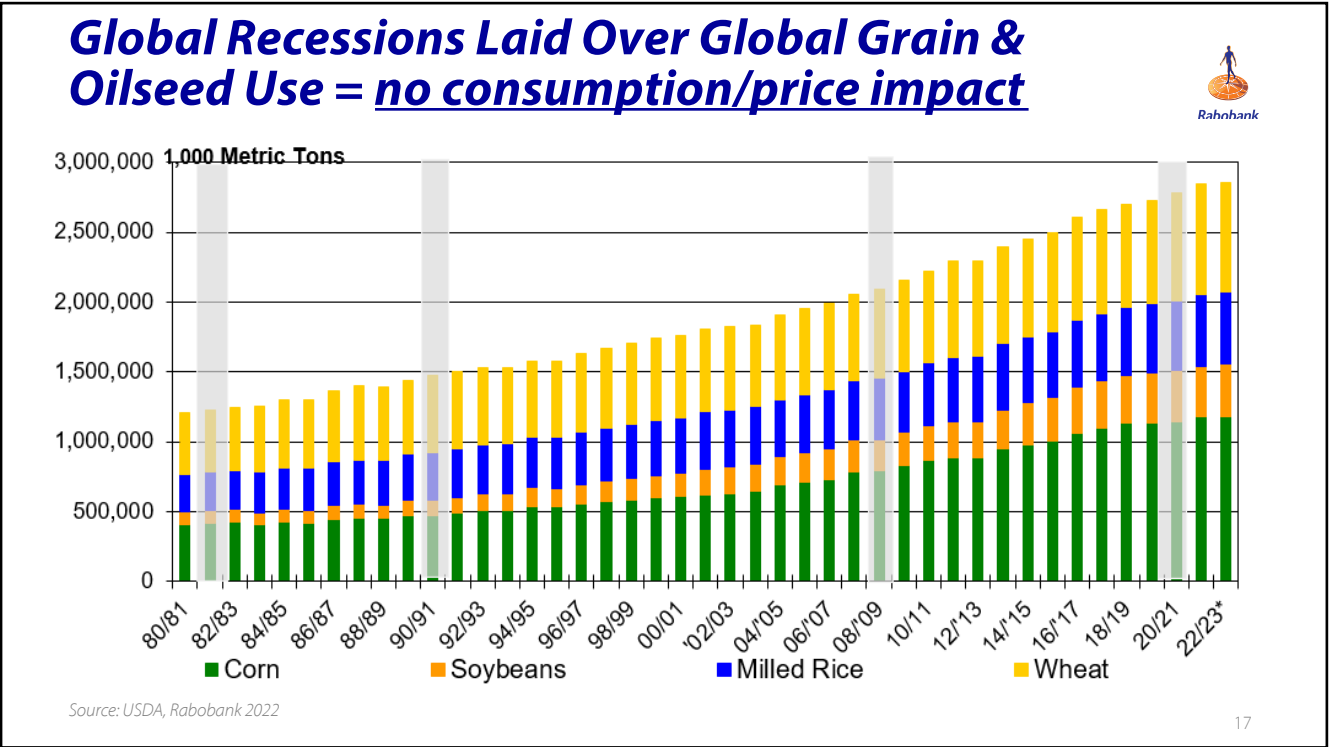
Fishery production, 2030f



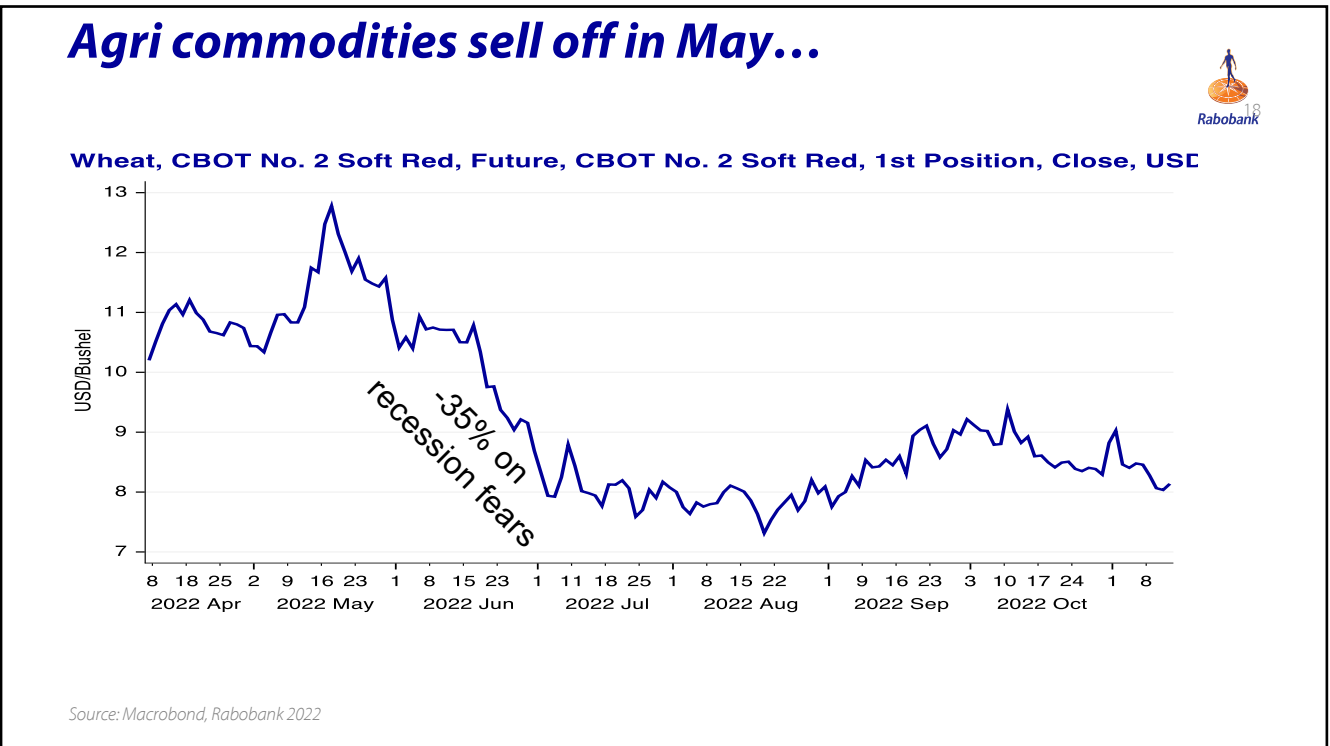
Aquaculture
Total capture

Source: USDA, Rabobank 2022

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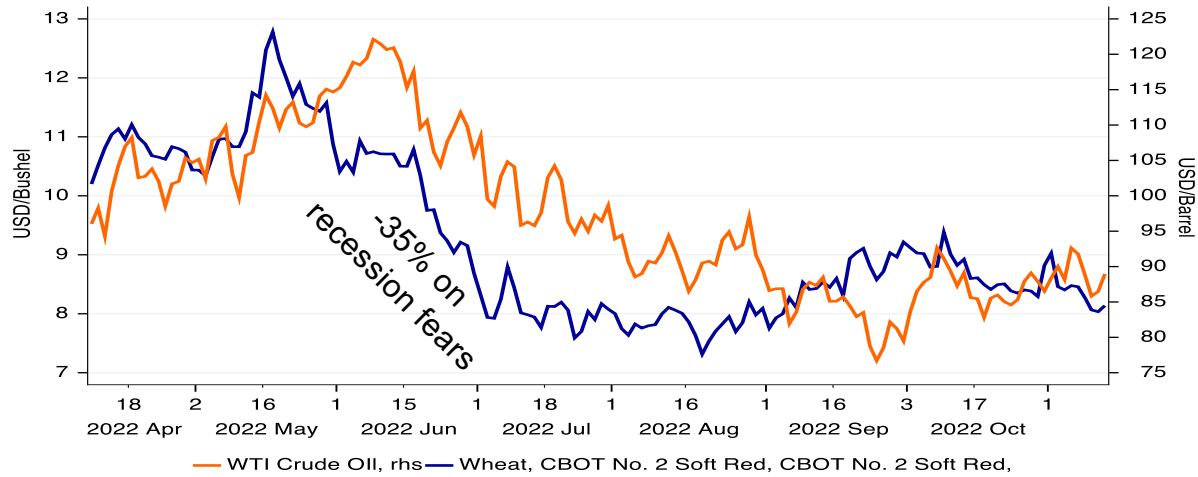


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Agri commodities sell off in May... due to 'recession price pressure' from other asset classes



Future, 1st Position, Close, USD



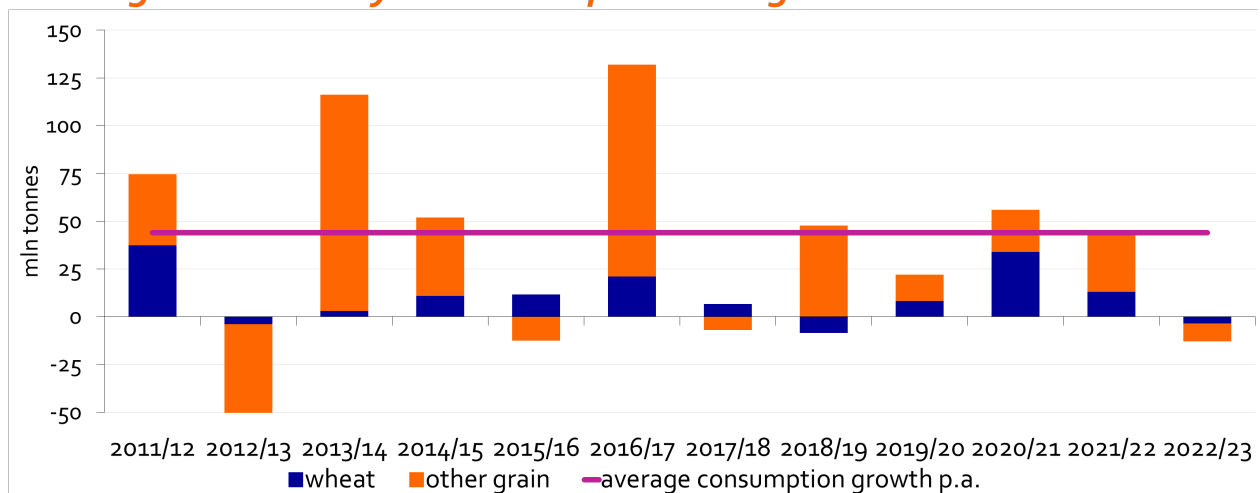
Source: Macrobond, Rabobank 2022

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First massive Global Grain Consumption cutback in a decade is needed in 2022/23



Global grain: Year on year consumption changes



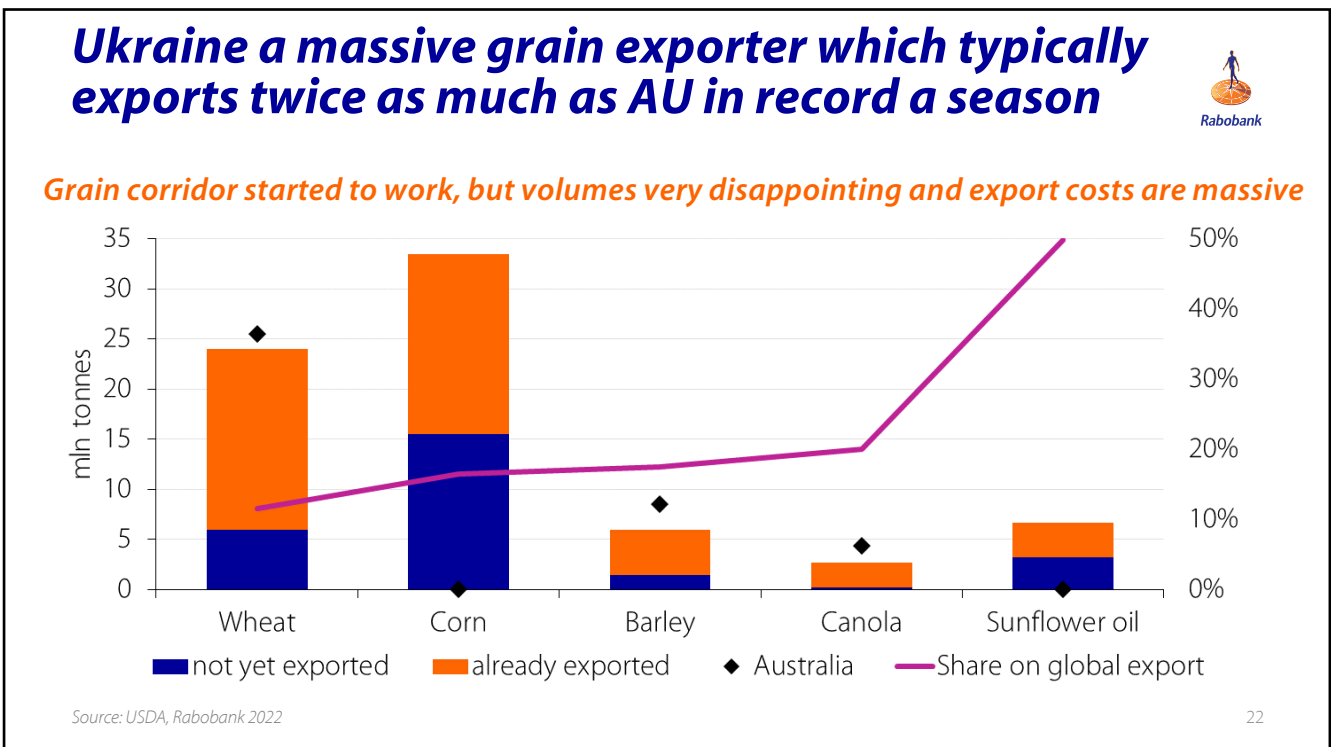
Source: Bloomberg, Rabobank 2022

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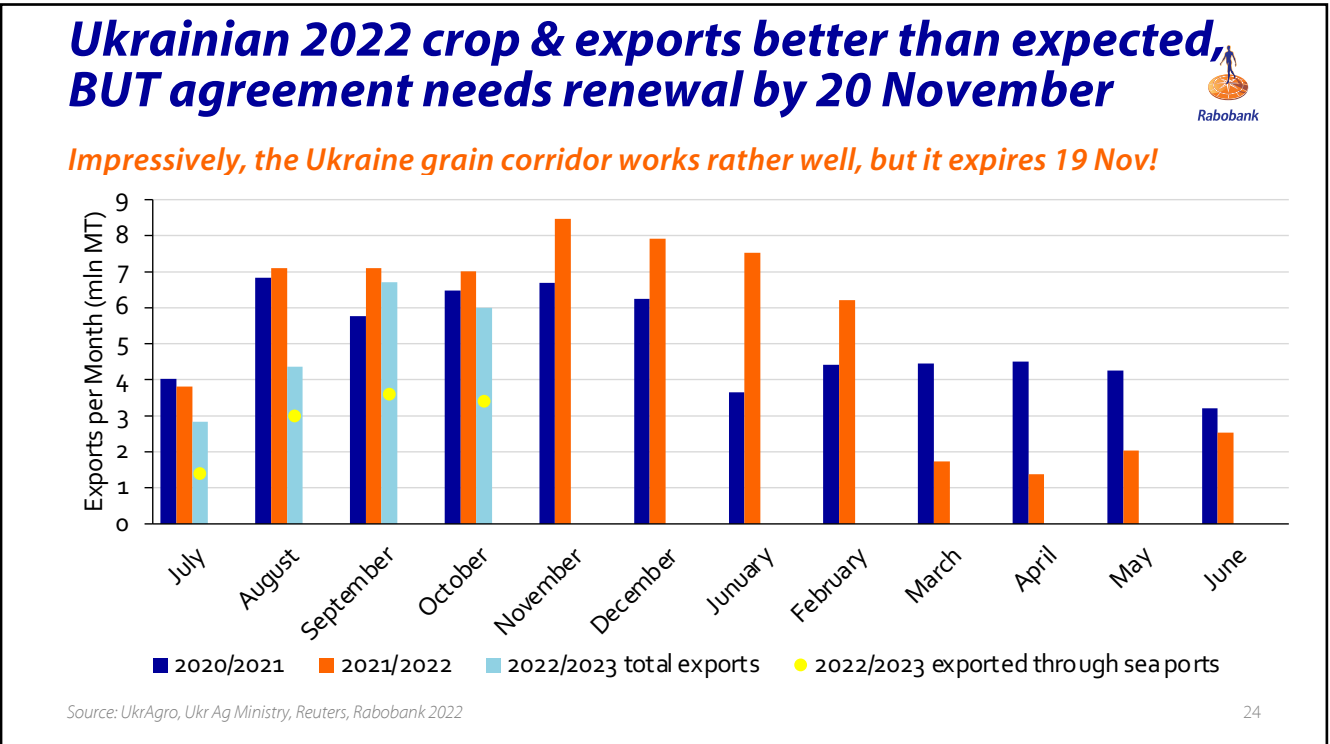
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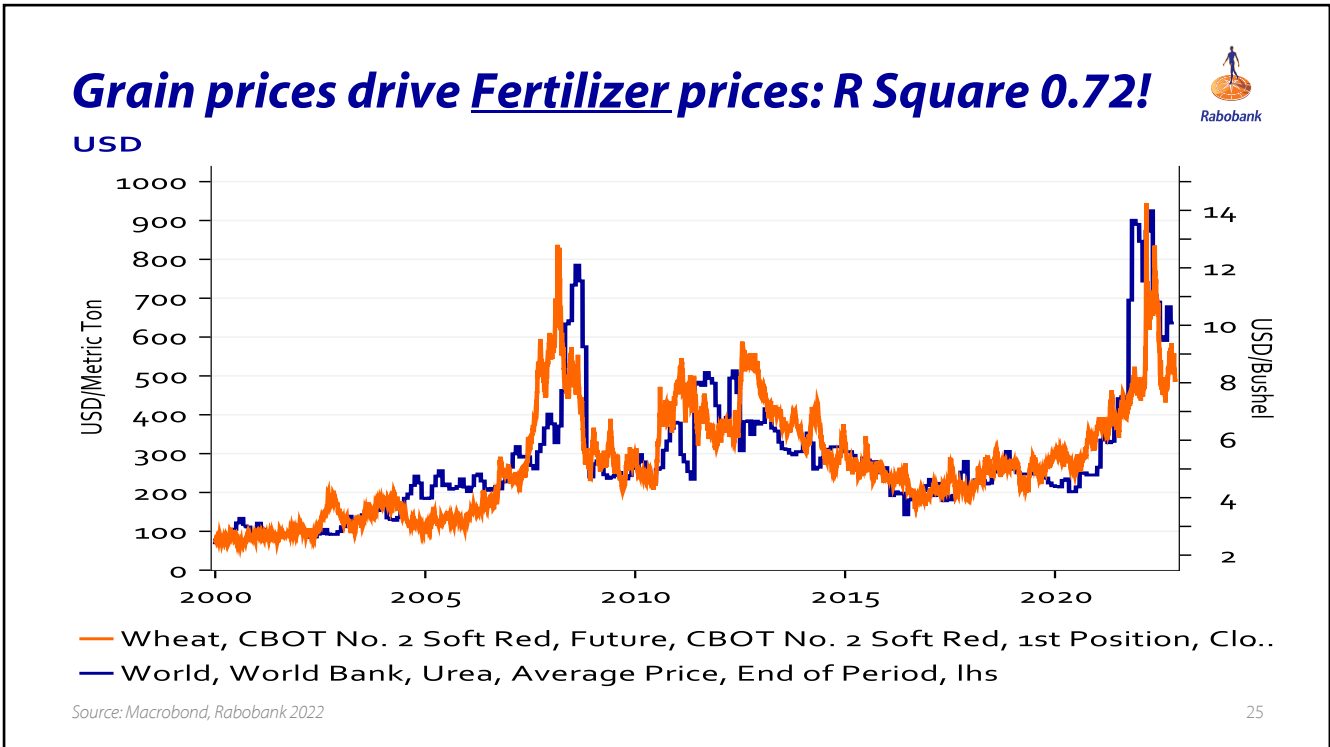
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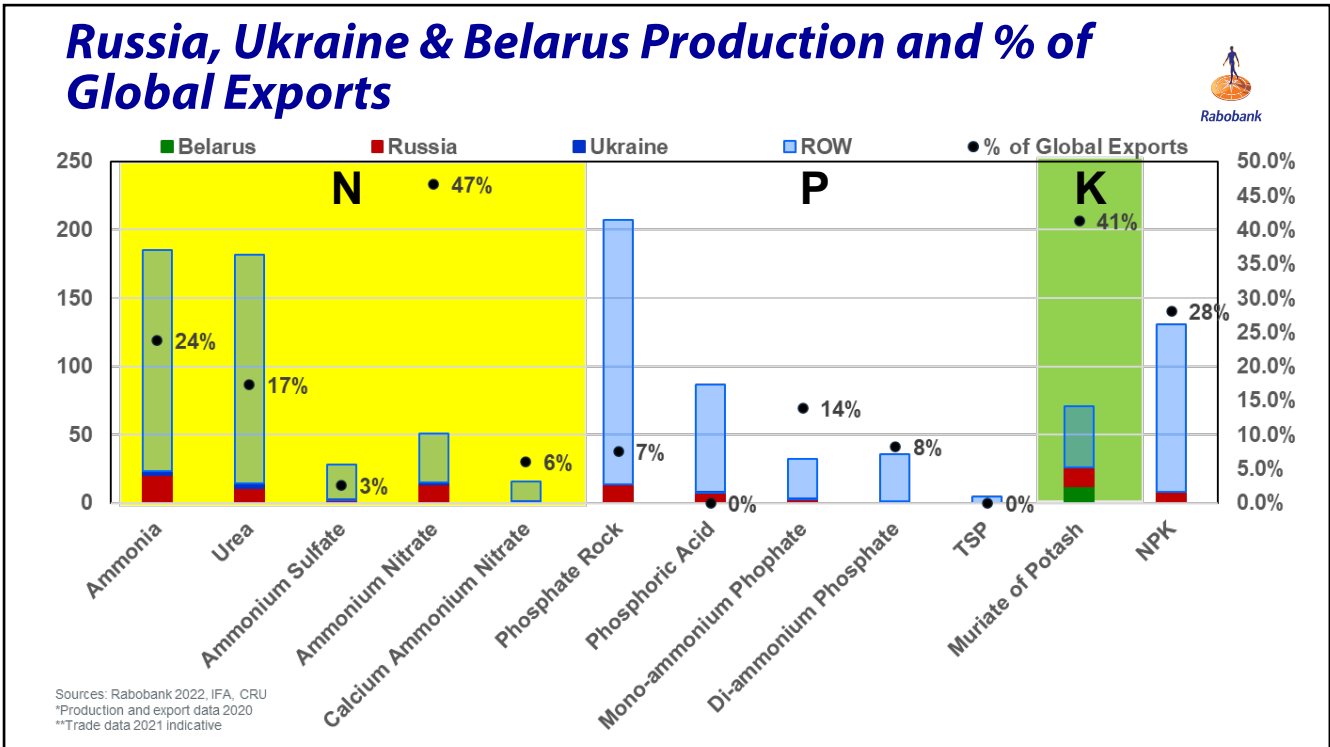
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Global fertilizer outlook: Disruptions & energy prices

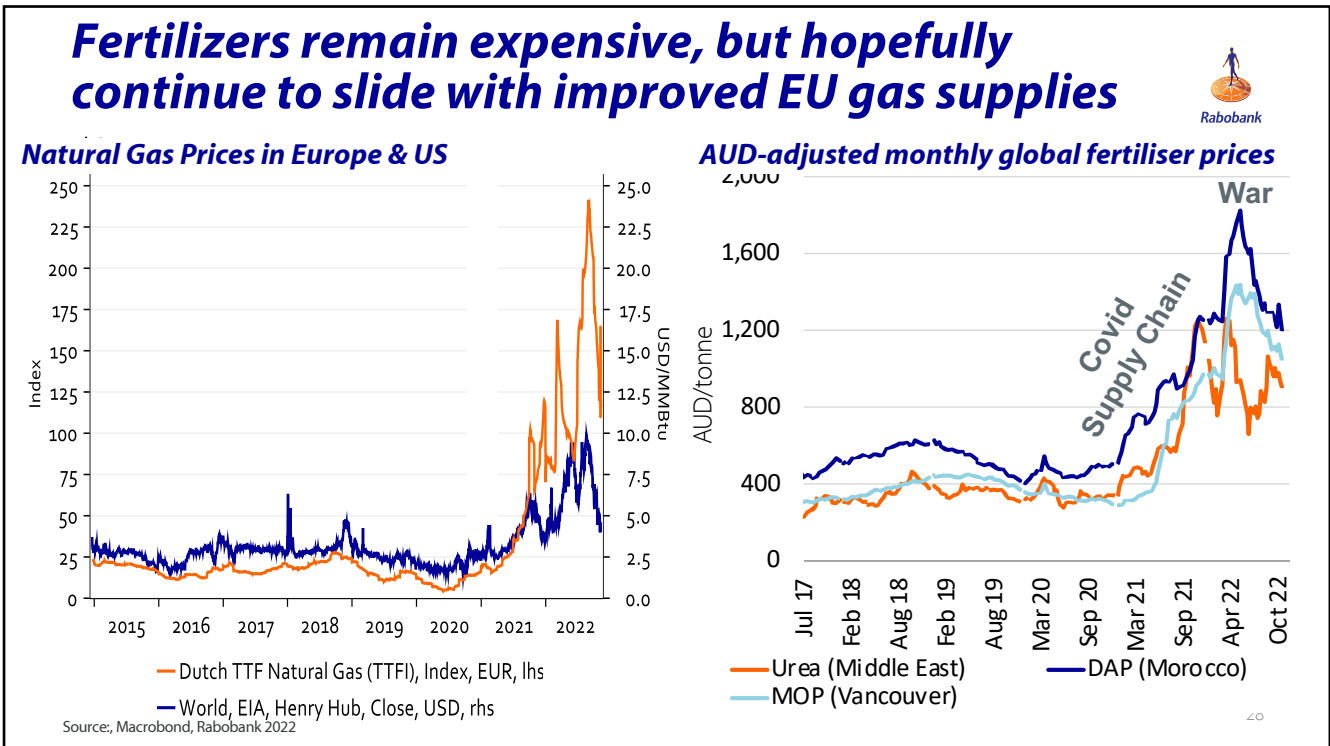
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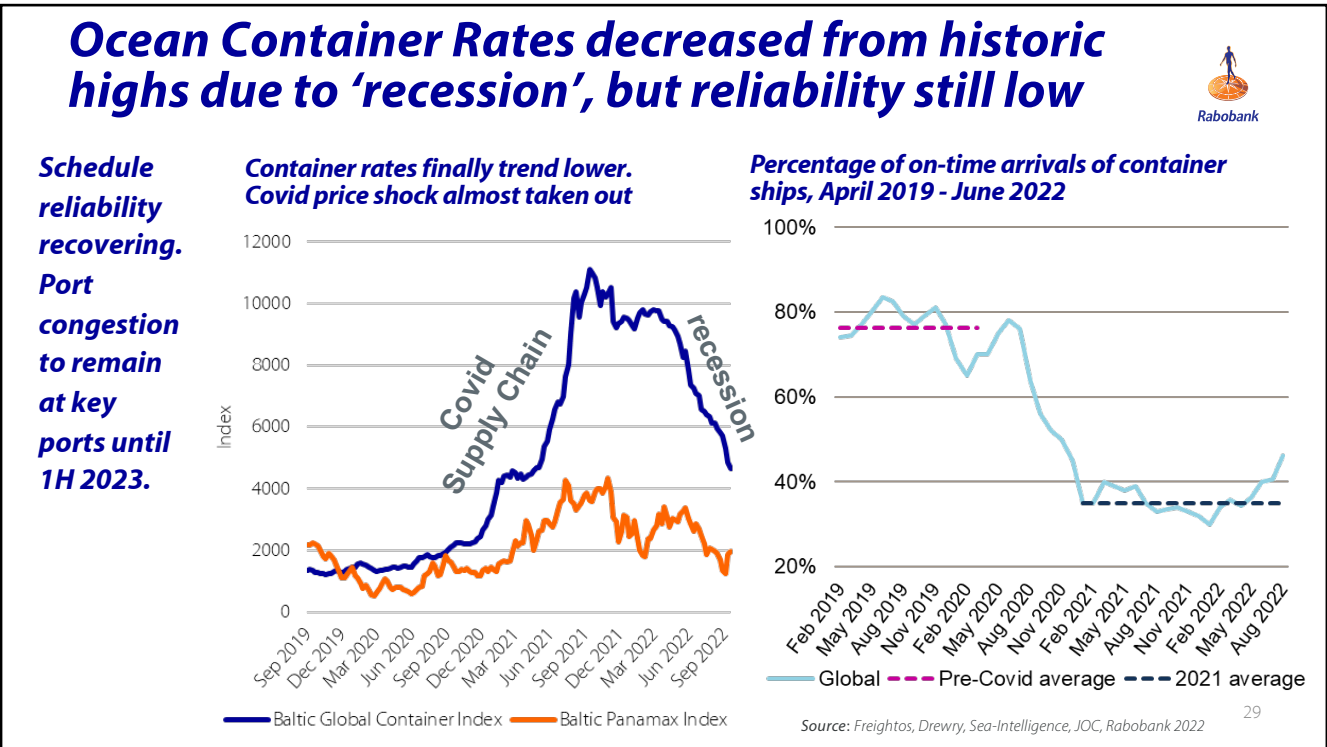
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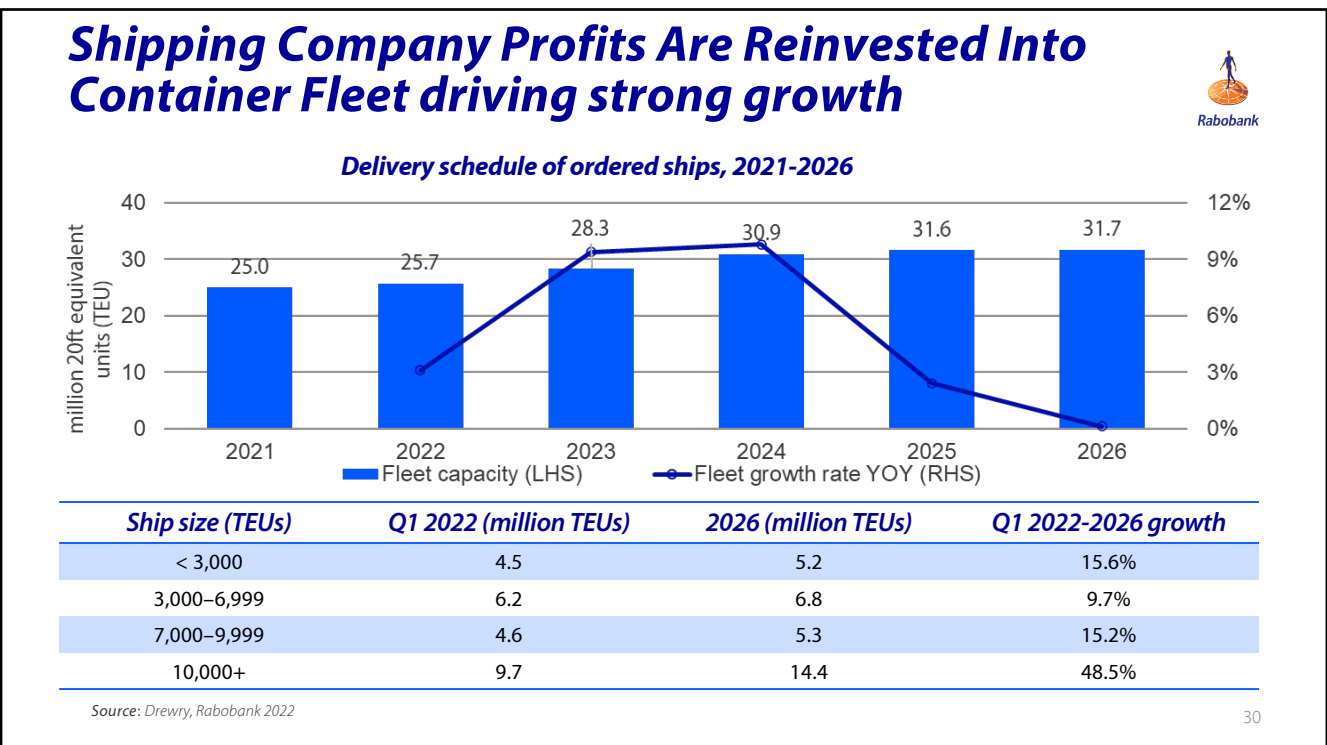
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2.a

Sustainability: Supply & demand impact?

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Two key drivers:



Governments

- **EU's Fit For 55 policy & Green Deal**
 - **Cut fertilizer and chemical use**
 - **20% of EU Grain supply at risk!**
 - **Abolishment of diesel/gasoline car sales and loss of fuel & biofuel use**
- **Canada policy to reduce fertilizer use**
 - **Impact on cropping?**
- **North American Renewable Diesel**
 - **drives massive vegetable oil demand!**

Industry

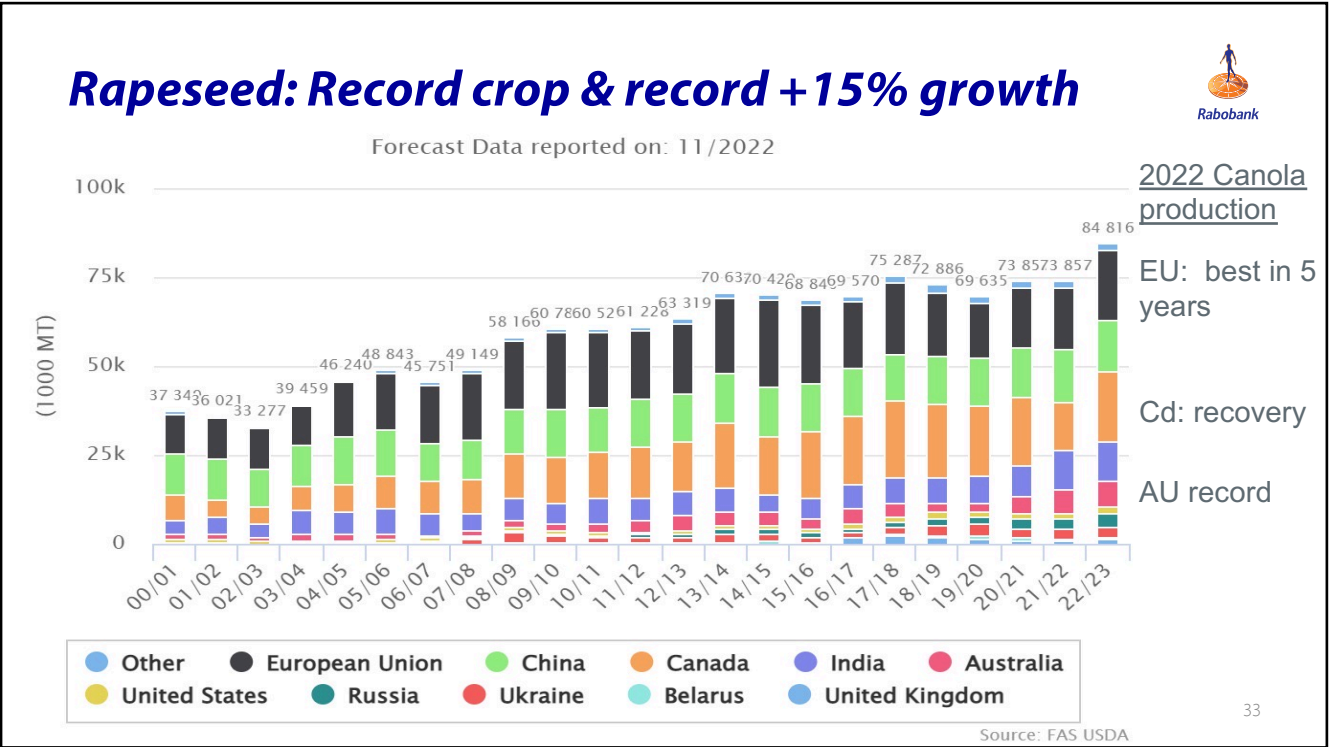
- **Supply Chain is cutting emissions**
 - **Scope 1 & 2 the 'easy wins'**
 - **BUT Scope 3 the real needle mover**
- **Regenerative Agriculture:**
 - **Yield losses??**

=> Increases cost at farm. If carbon market does not pay, consumers and farmers will have to pay

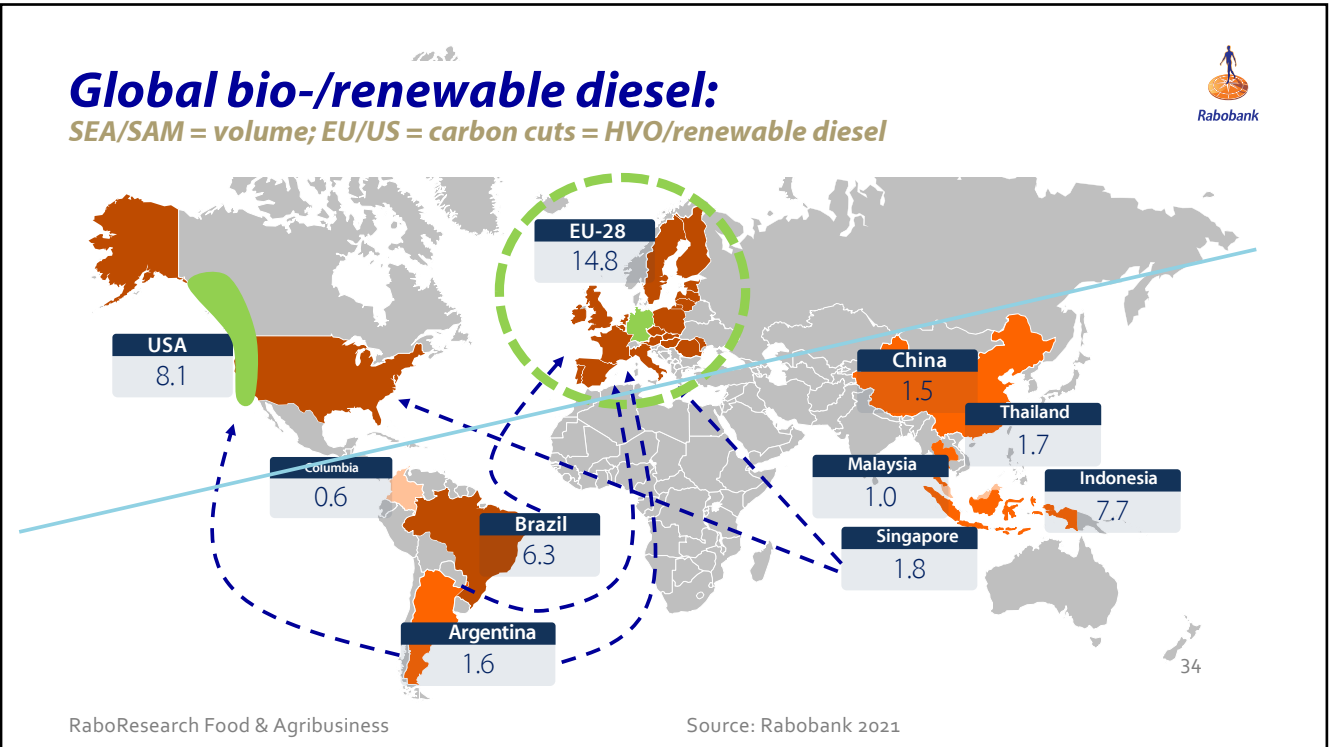
Source: Bloomberg, Rabobank 2022

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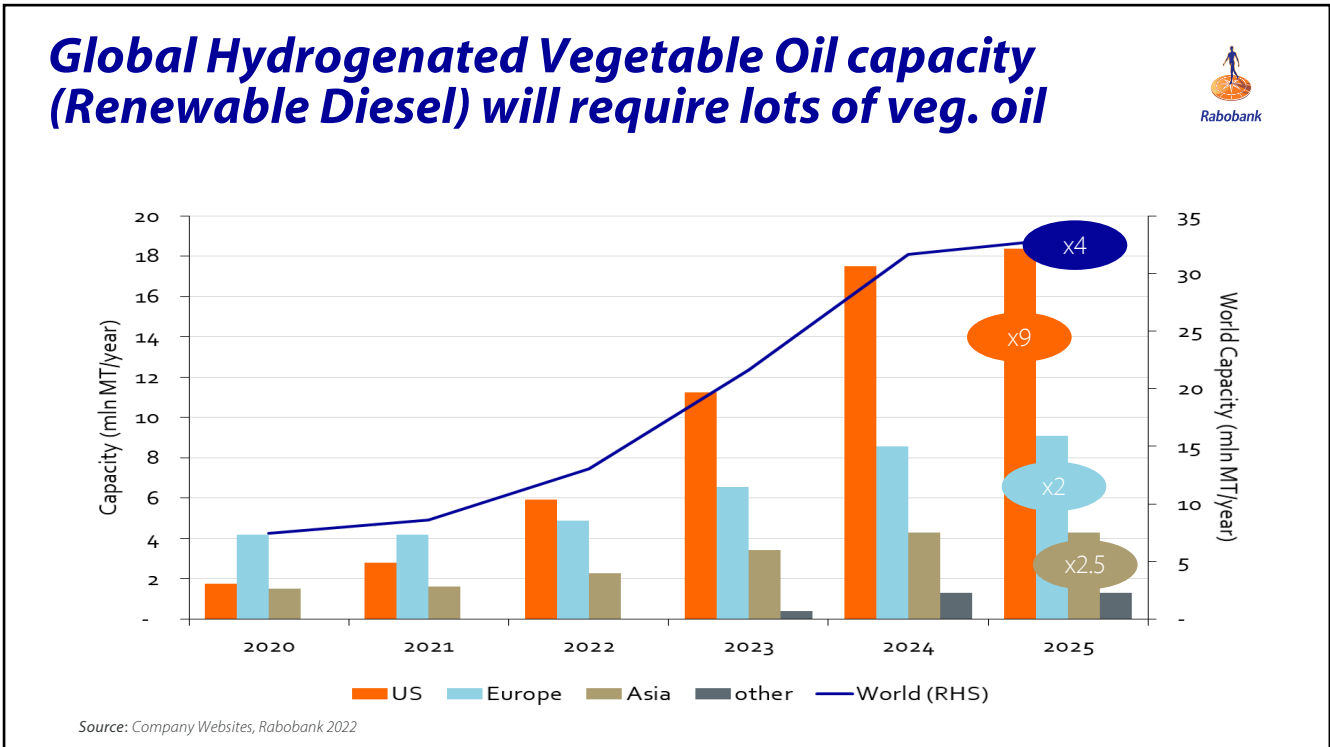
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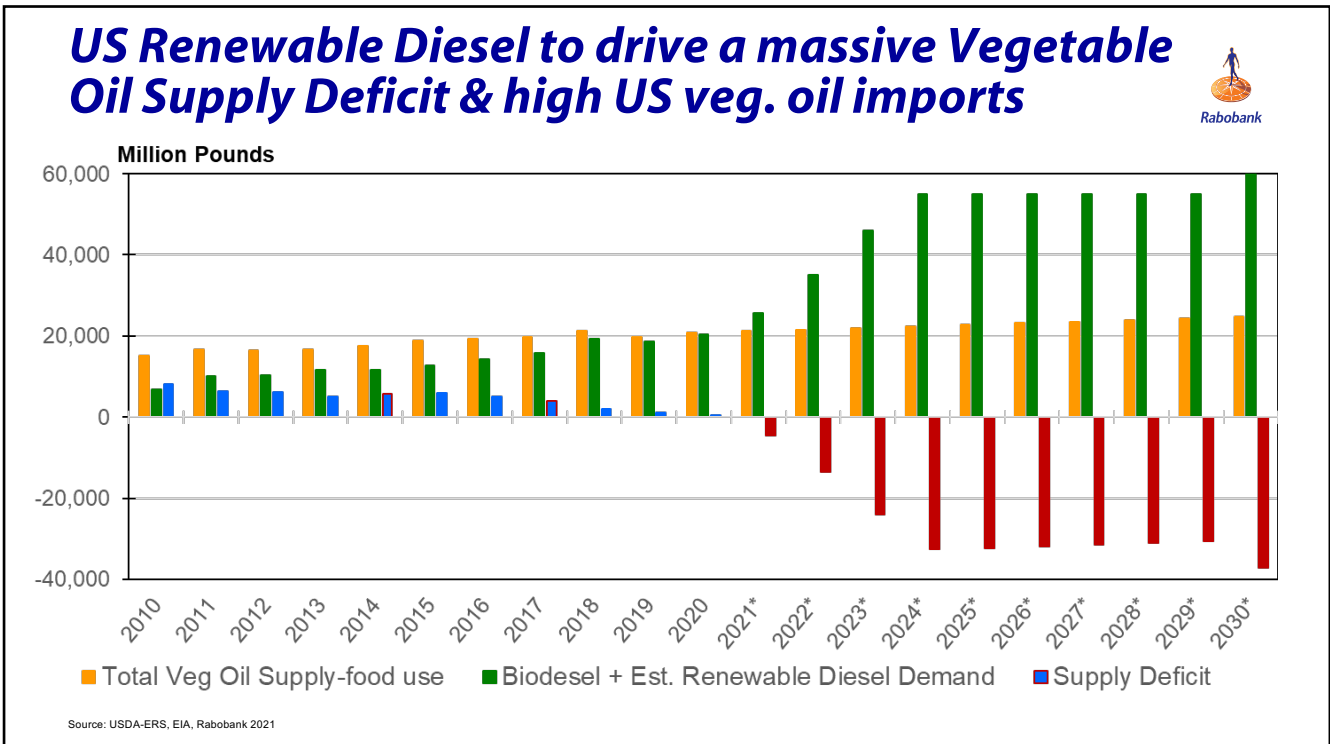
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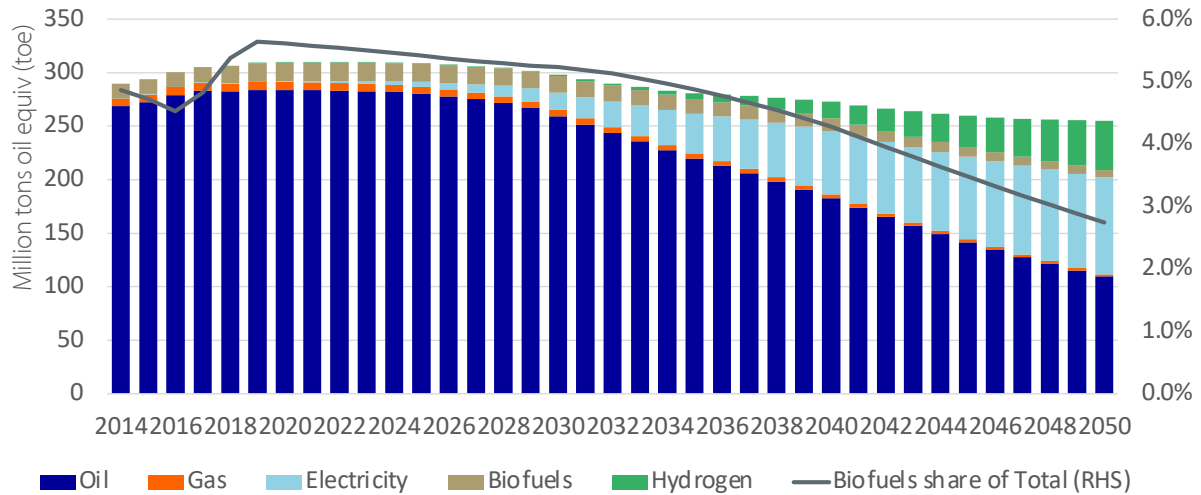
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European Road Transport Fuel Demand to fall towards 2050 also lowering biofuel needs

Electrification and hydrogen to have a negative impact on fuel demand (fossil and biofuels)



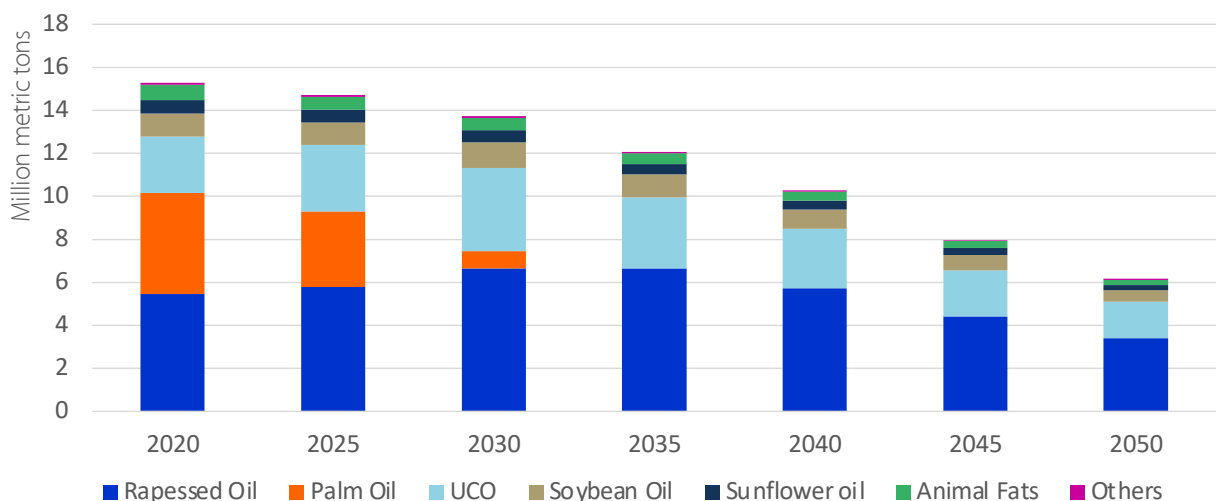
Source: Eurostat, EEA, Rabobank 2021

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EU: What will happen to the vegetable oils used in biofuel production



EU Biodiesel feedstocks: ban of palm & soy oil in biofuel will benefit rapeseed, but when?



Source: European Commission; Oil World, Renewable Energy Progress Report (EC)

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2.b

Supply Chain Initiatives - Scope 1/2/3 & farmers the key to change

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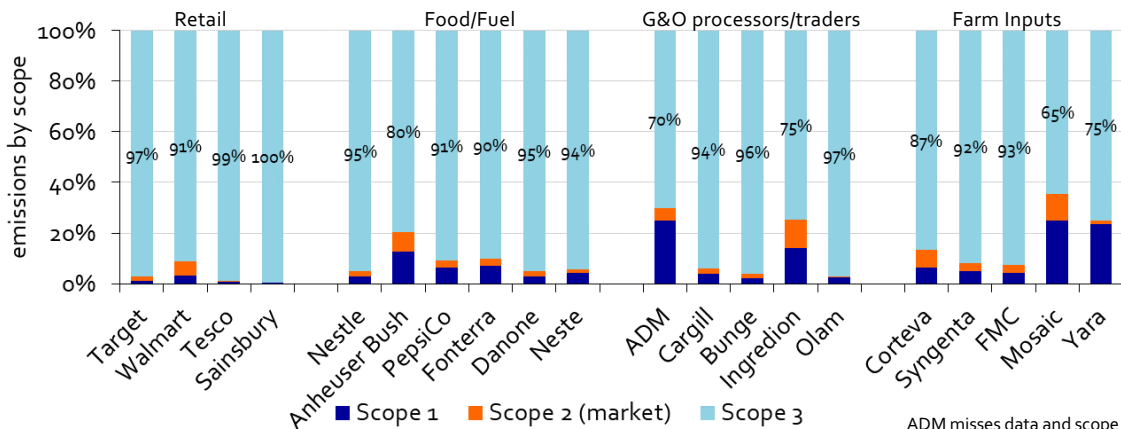
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The 90% Scope 3 Club: 90% of Emissions in F&A chain are Scope 3



G&O chain largely shows ~90% Scope 3 emissions i.e. those up & down the chain



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Source: Company Information, Rabobank 2021

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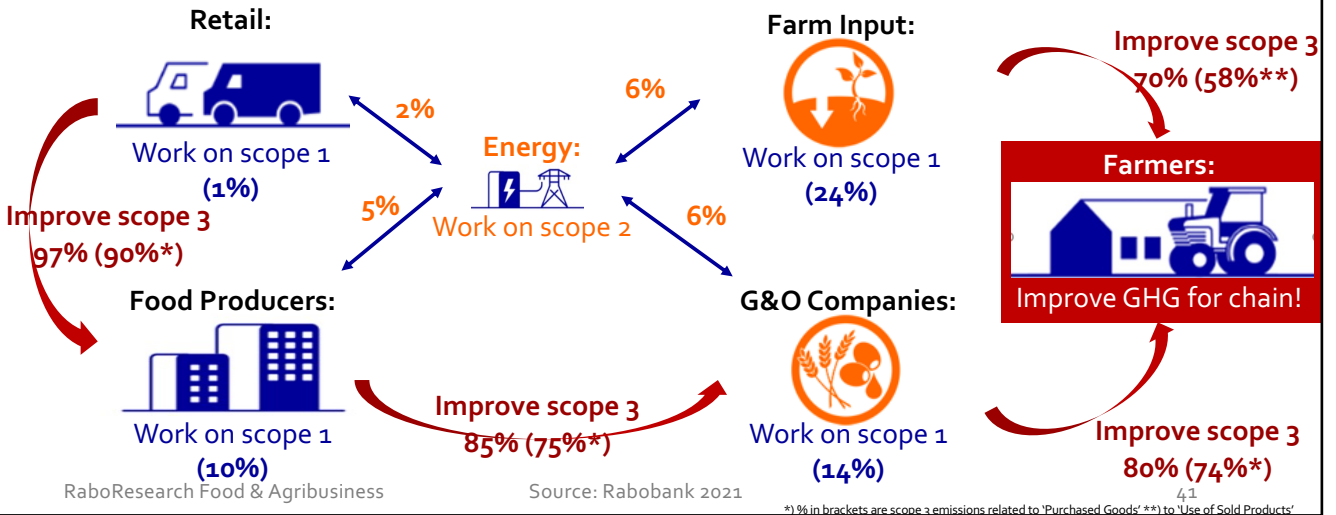
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Supply Chain Expects Farms to improve emissions for the Whole Chain



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Each player improves their scope 1 & 2 emissions, but all eyes are on farmers for scope 3



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Contact details



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