

# Grain dashboard with SQL & Quarto

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# What and why

# Situation

**Company A** is looking to set up a grain production and export operation.

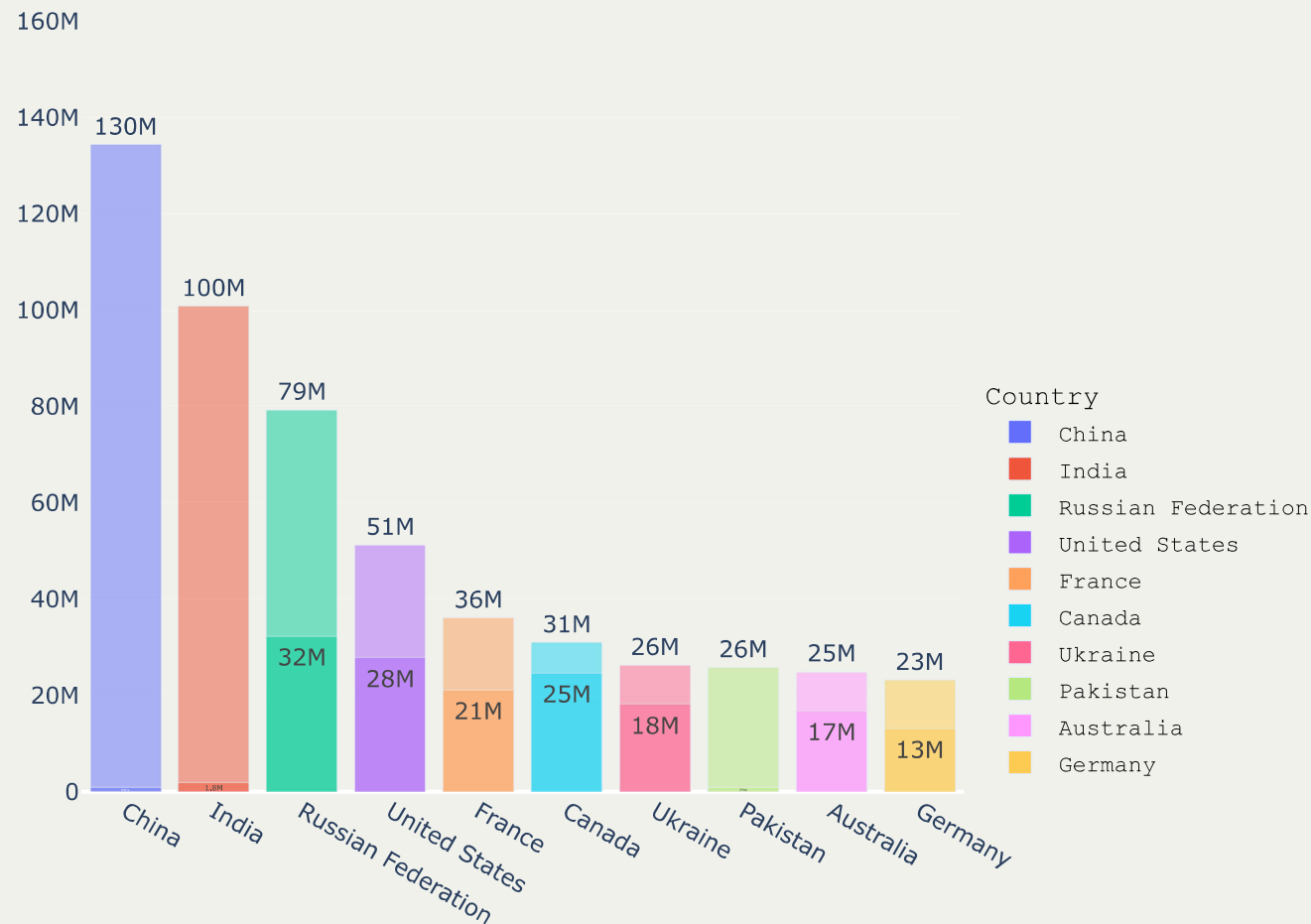
To conduct preliminary analysis, it has commissioned a team of DAs to draw together some key indicators regarding the top wheat producing countries, including but not limited to:

- Business environment
- Wheat yield
- WTO membership
- Exposure to climate risk

# Factors considered

Global wheat production

Climate risk ranking



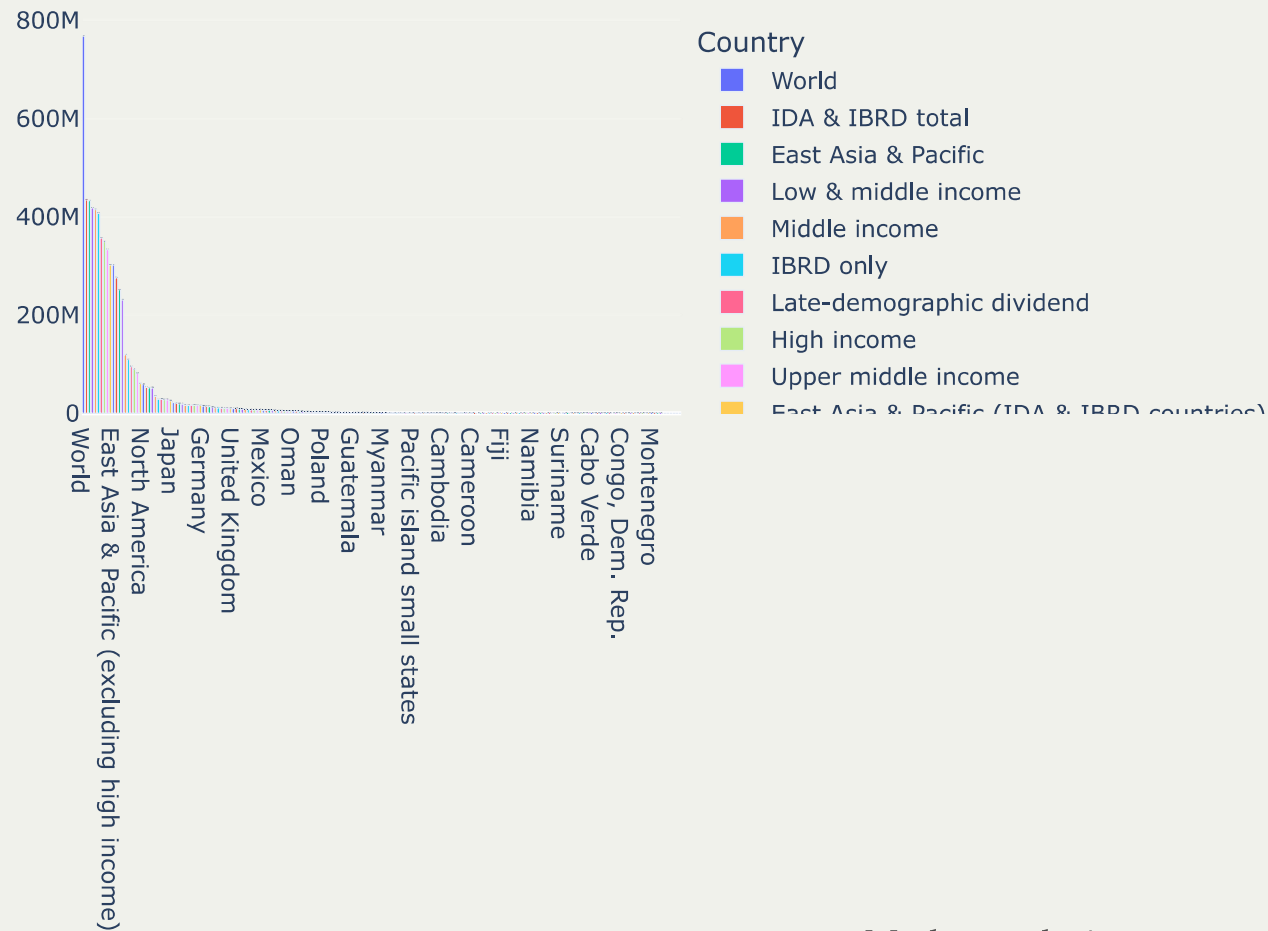
Market analysis

# How

# Factors continued

Container traffic

Wheat yield

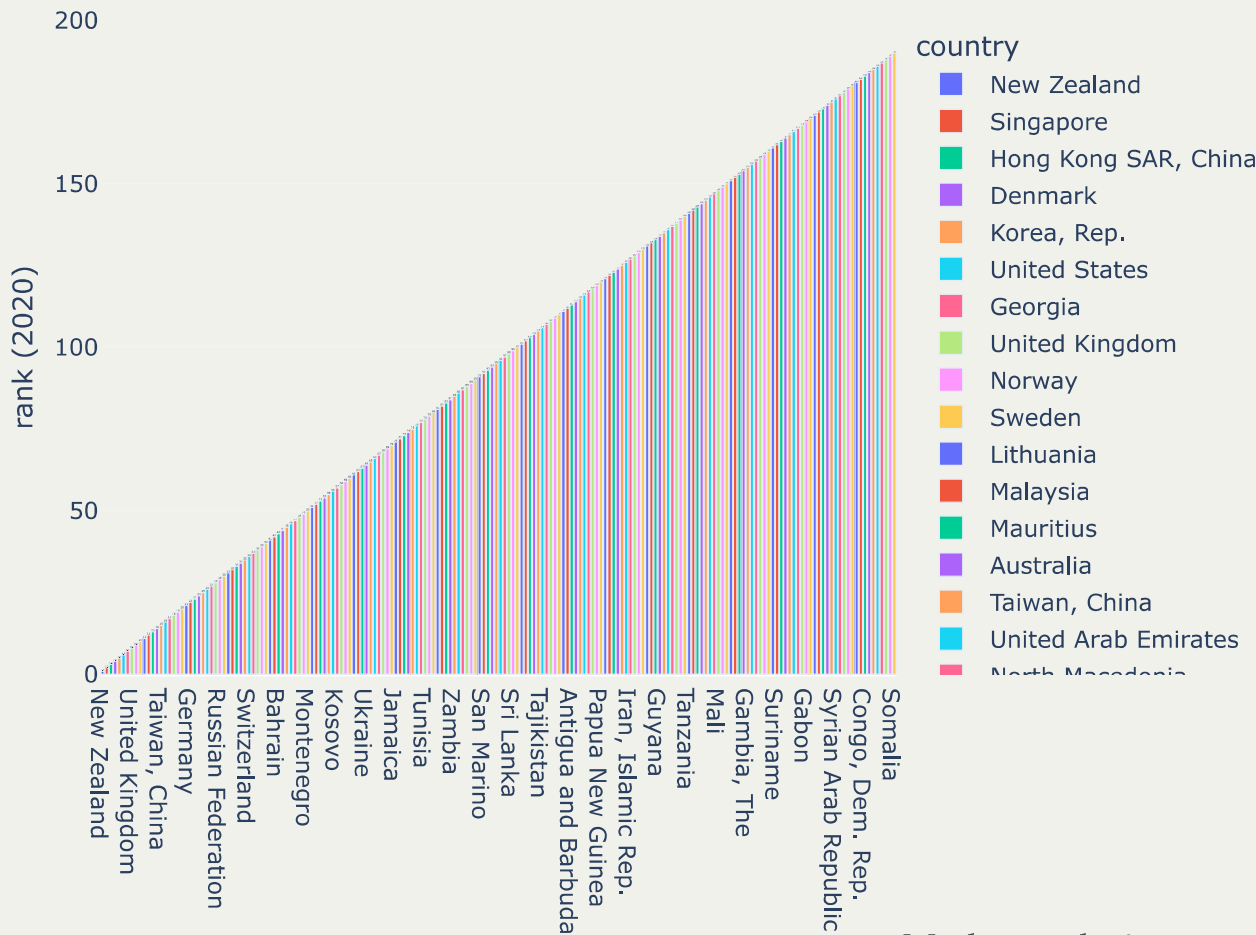


Market analysis

# Factors continued

Ease of doing business

WTO member status



# Analysis

- Wheat production (1-10)
- Climate risk ranking (1-135)
- Container traffic (1-5 - ignored if no exports (e.g. China))
- Wheat yield/hectare (1-7)
- Ease of doing business (1-193)
- WTO member (0: member or 5: not member)



# Score breakdown

	Country	Prod	Climate	Yield	Container	Business	Total
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0	China	0.5	1.65	3	1	1.6	7.75
1	India	1	0.25	5	5	3.1	14.35
2	Russia	1.5	3.95	6	5	1.45	17.9
3	USA	2	0.6	5	4	0.3	11.9
4	France	2.5	1.7	2	5	1.65	12.85
5	Canada	3	0.45	5	5	1.15	14.6
6	Ukraine	3.5	6.05	4	5	3.2	21.75
7	Pakistan	4	5	6	5	5.4	25.4
8	Australia	4.5	2.15	6	5	0.7	18.35
9	Germany	5	0.15	1	5	1.1	12.25

- China leads the ranking, though export must also be taken into account
- USA and Germany are next most viable options and have the benefit of low climate risk

# Thank you!

Let's have a look at the dashboard...