

Global Finfish Aquaculture Production Survey and Forecast

Presented by the Global Seafood Alliance and Rabobank

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RaboResearch
Food & Agribusiness



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KONTALI



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Salmonids

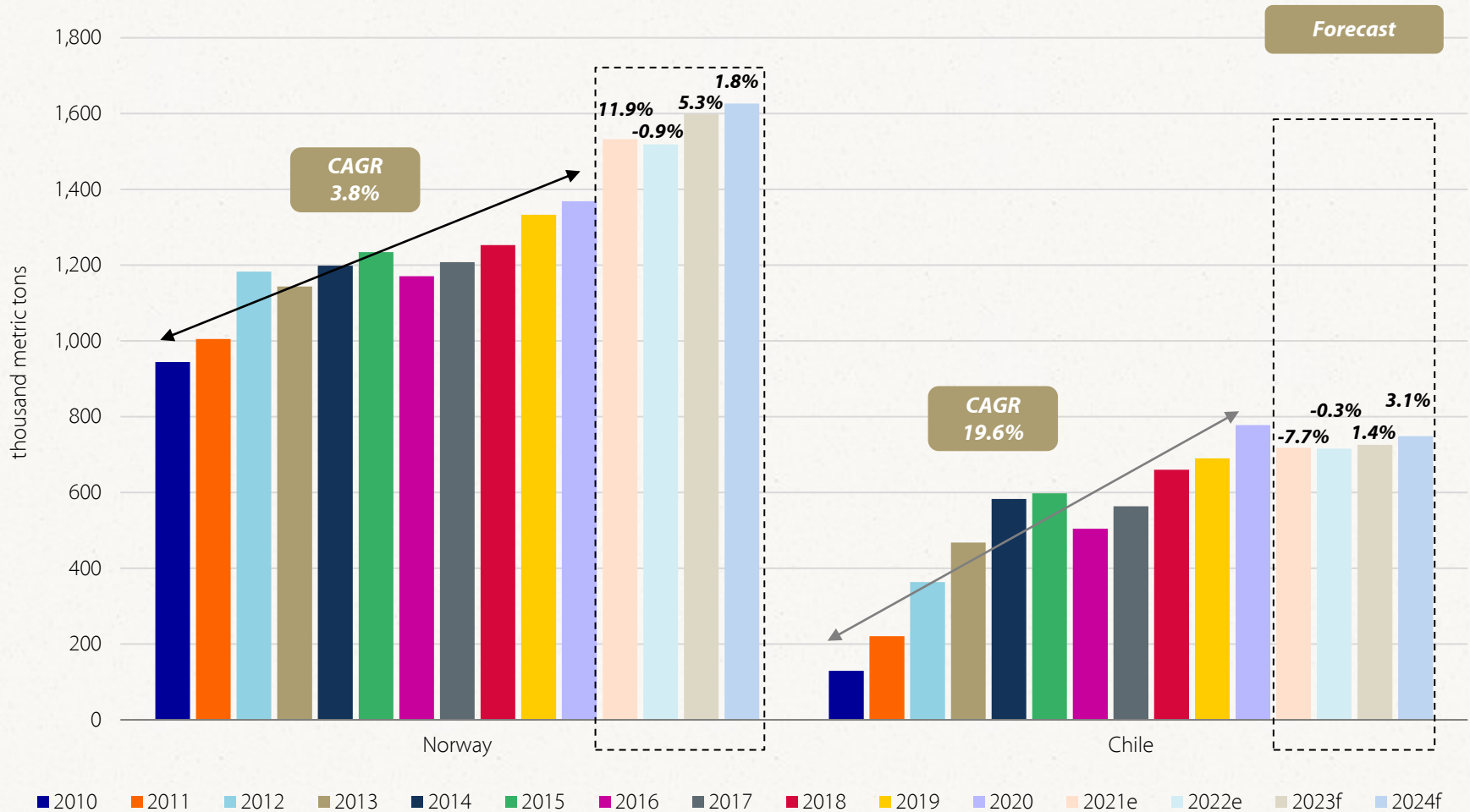
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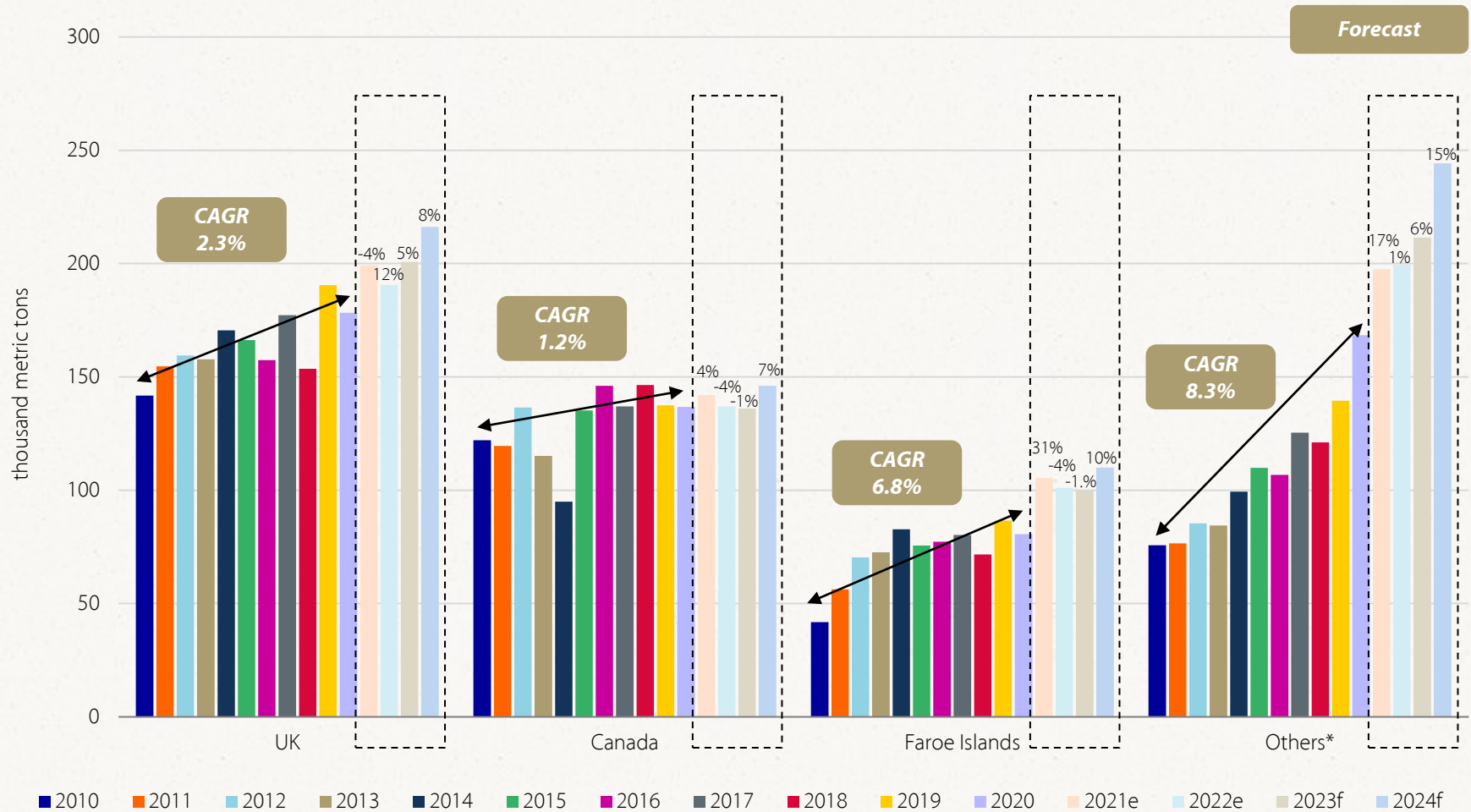
Low growth for Norway and Chile after a volatile 2021

Atlantic salmon production and forecast by Kontali, 2010-2024f



Canadian supply stable; the UK, Faroe Islands, and all others are becoming an increasingly relevant driver for global supply

Atlantic salmon production, 2010-2024f



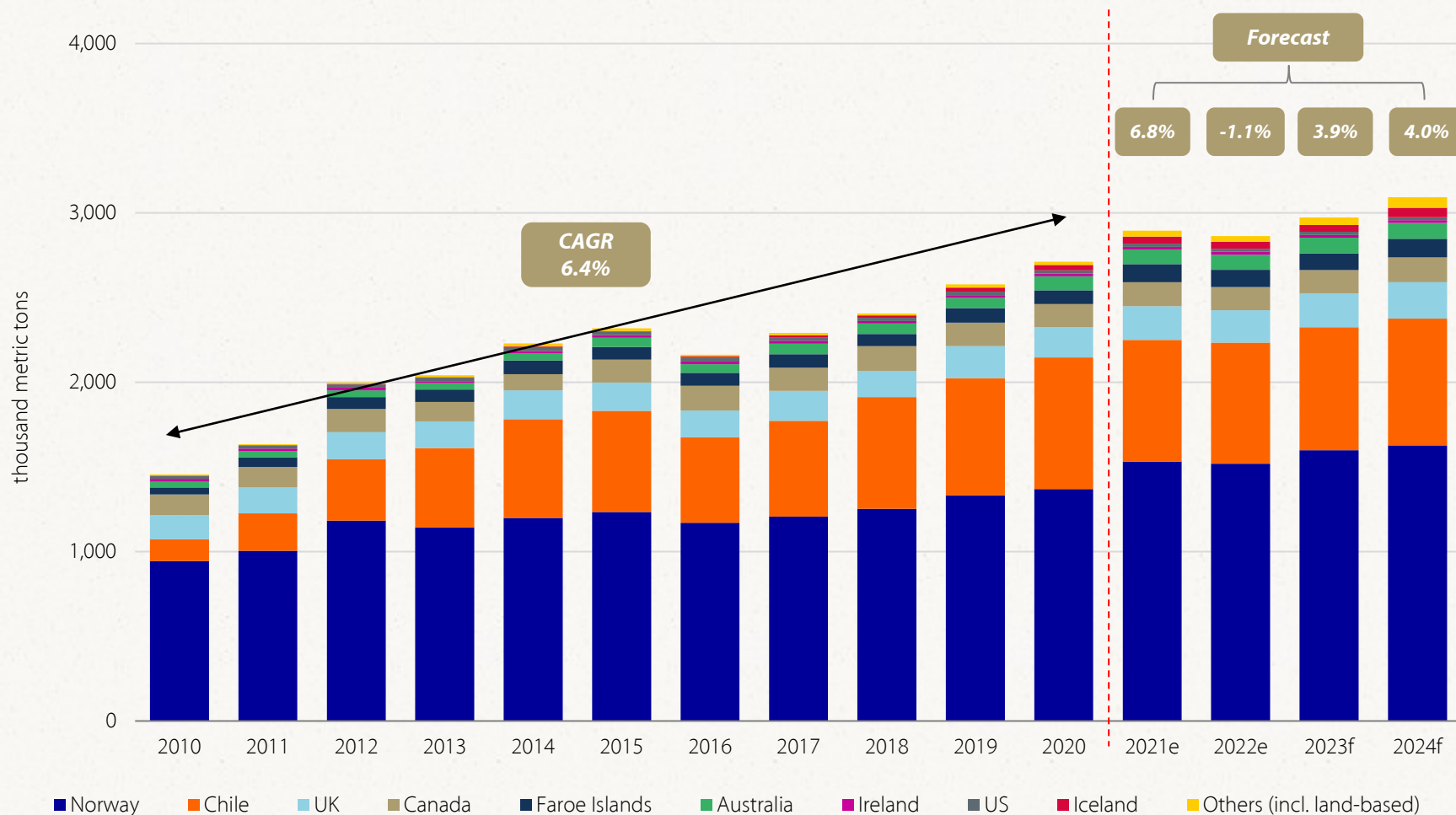
*Note: Others includes Australia, Ireland, the US, Iceland, and others (including land-based production)
Source: Kontali, Rabobank 2022



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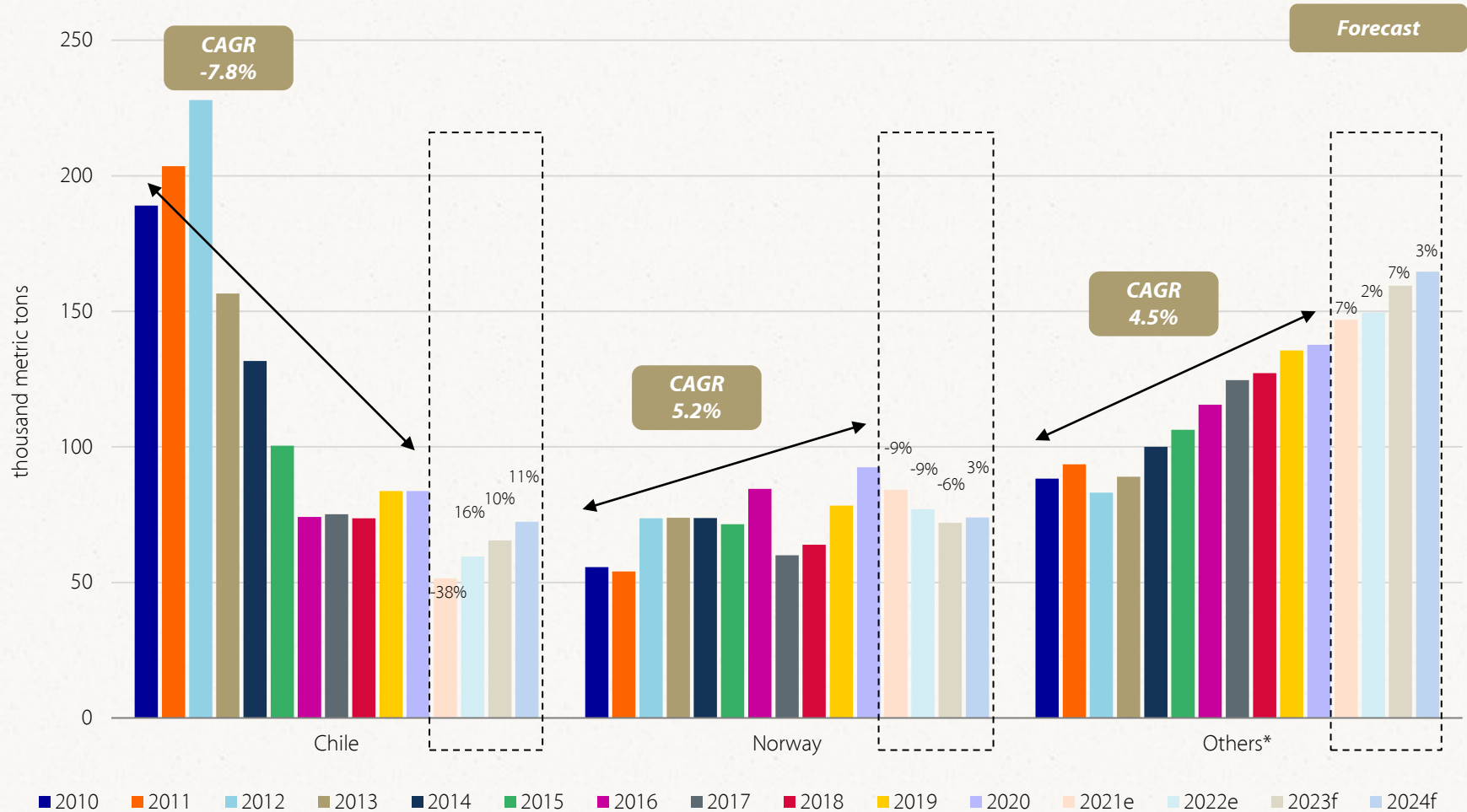
After a supply contraction in 2022 – the first since 2016 – the salmon sector will continue with 4% annual growth the next two years

Atlantic salmon production, 2010-2024f



Large rainbow trout production seems to be growing in supply, especially in 'new' regions

Large rainbow trout production, 2010-2024f



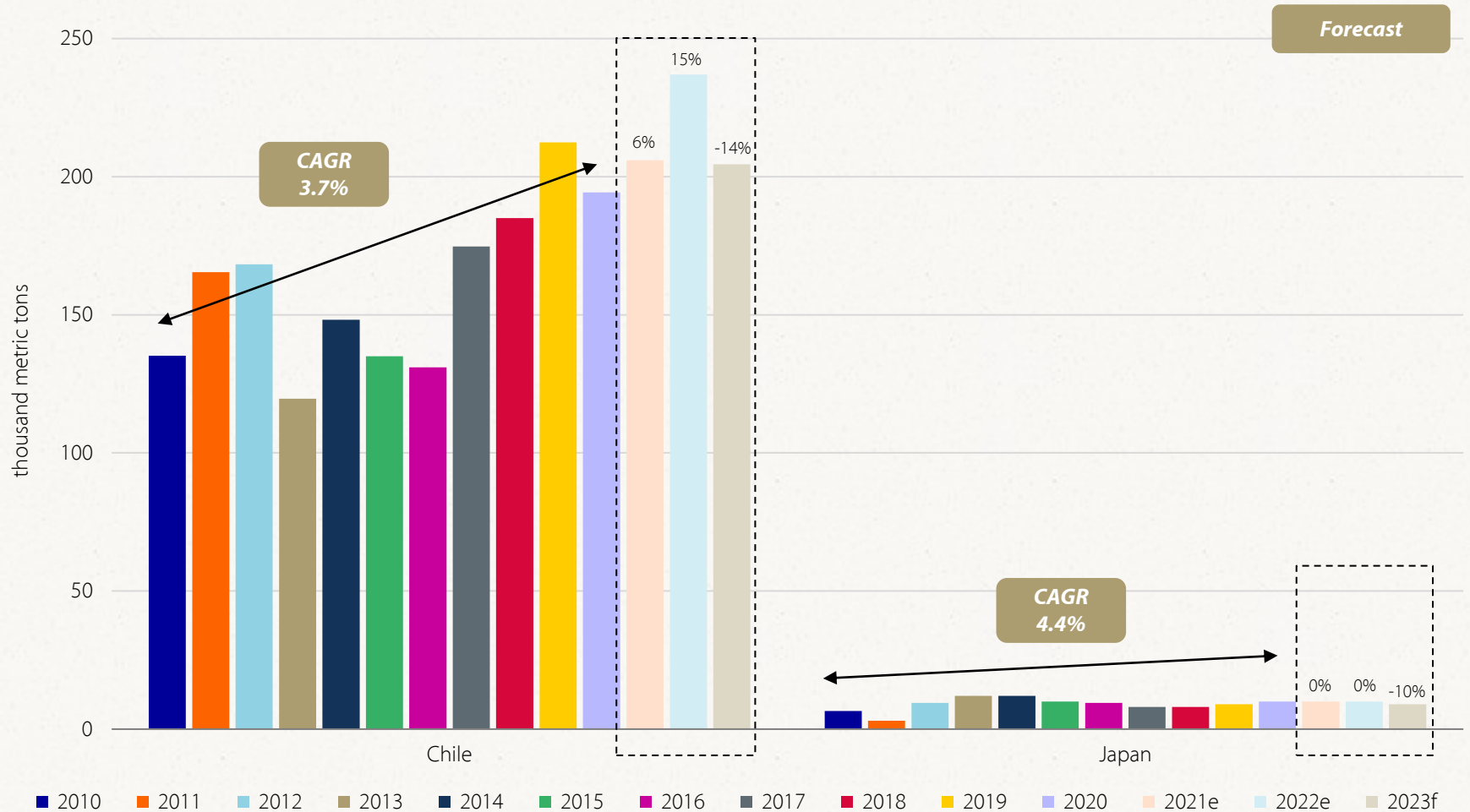
*Note: Others include Finland, China, Russia, Denmark, Sweden, France, Turkey, and others
Source: Kontali, Rabobank 2022



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Coho salmon production is concentrated in Chile; it has ups and downs, but seems to be on a long-term growth path

Coho salmon production, 2010-2023f*



*Note: The data is for the 'salmon year' and not for the calendar year
Source: Kontali, Rabobank 2022



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Sea bass and sea bream

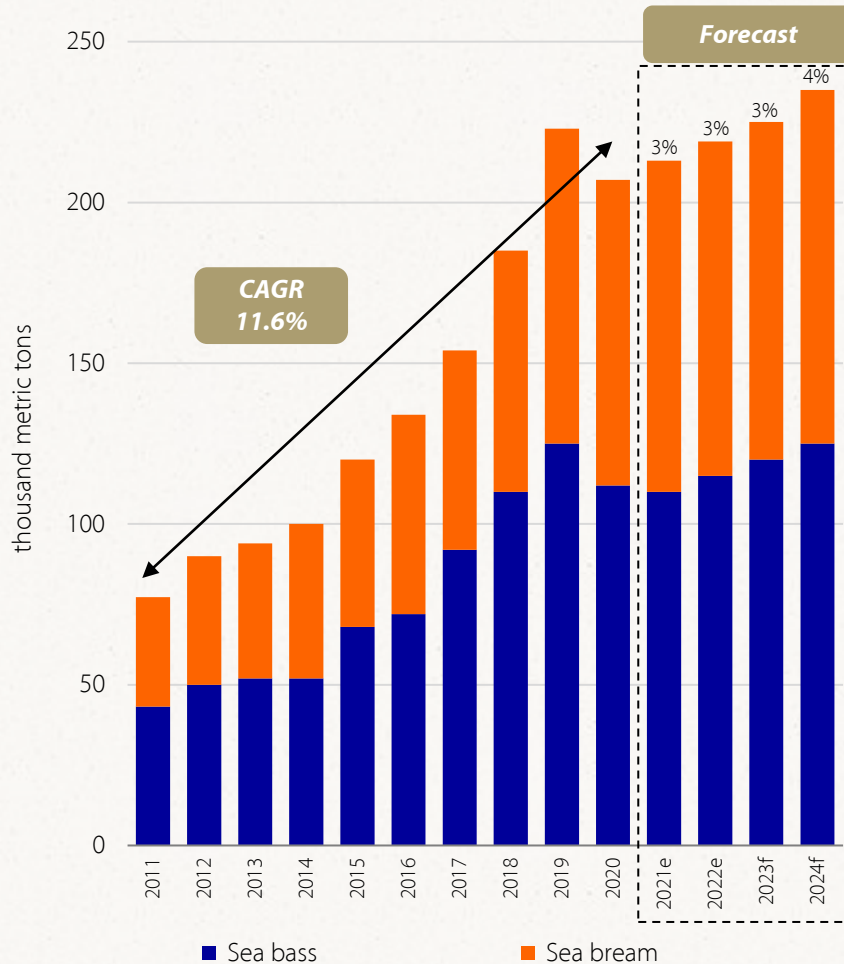
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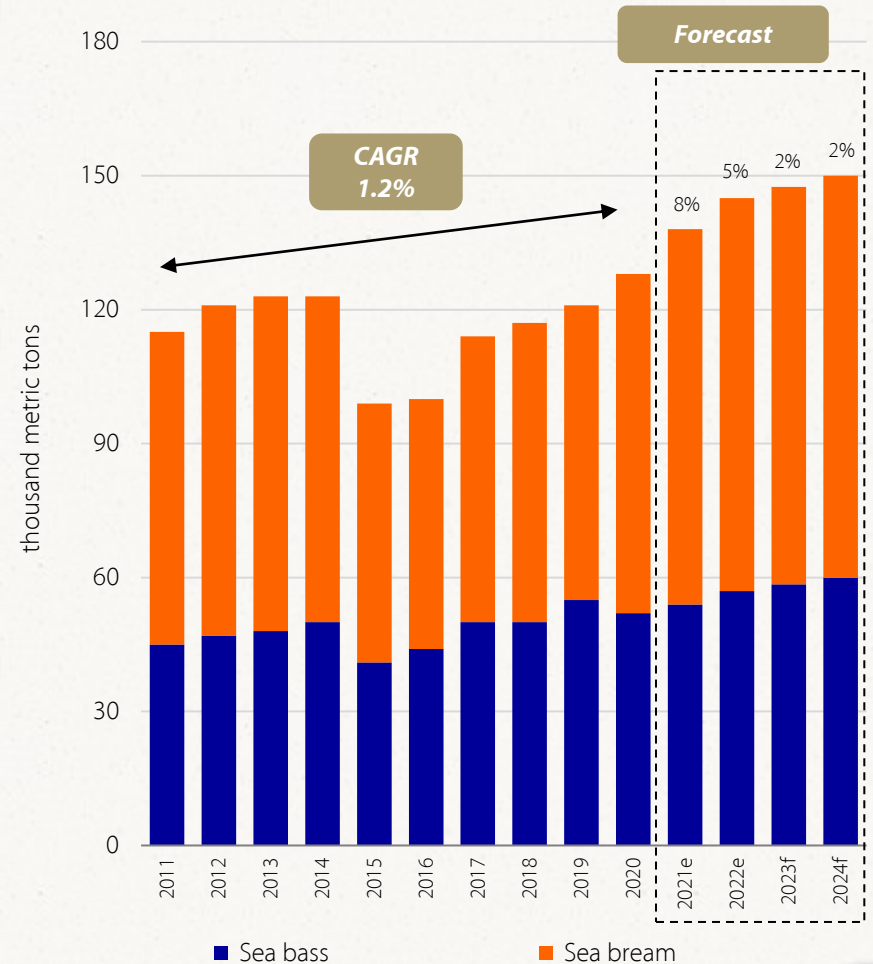
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Sea bass and sea bream production in Turkey and Greece is slowing down, but remains a growth sector

Turkey sea bass and sea bream production, 2011-2024f

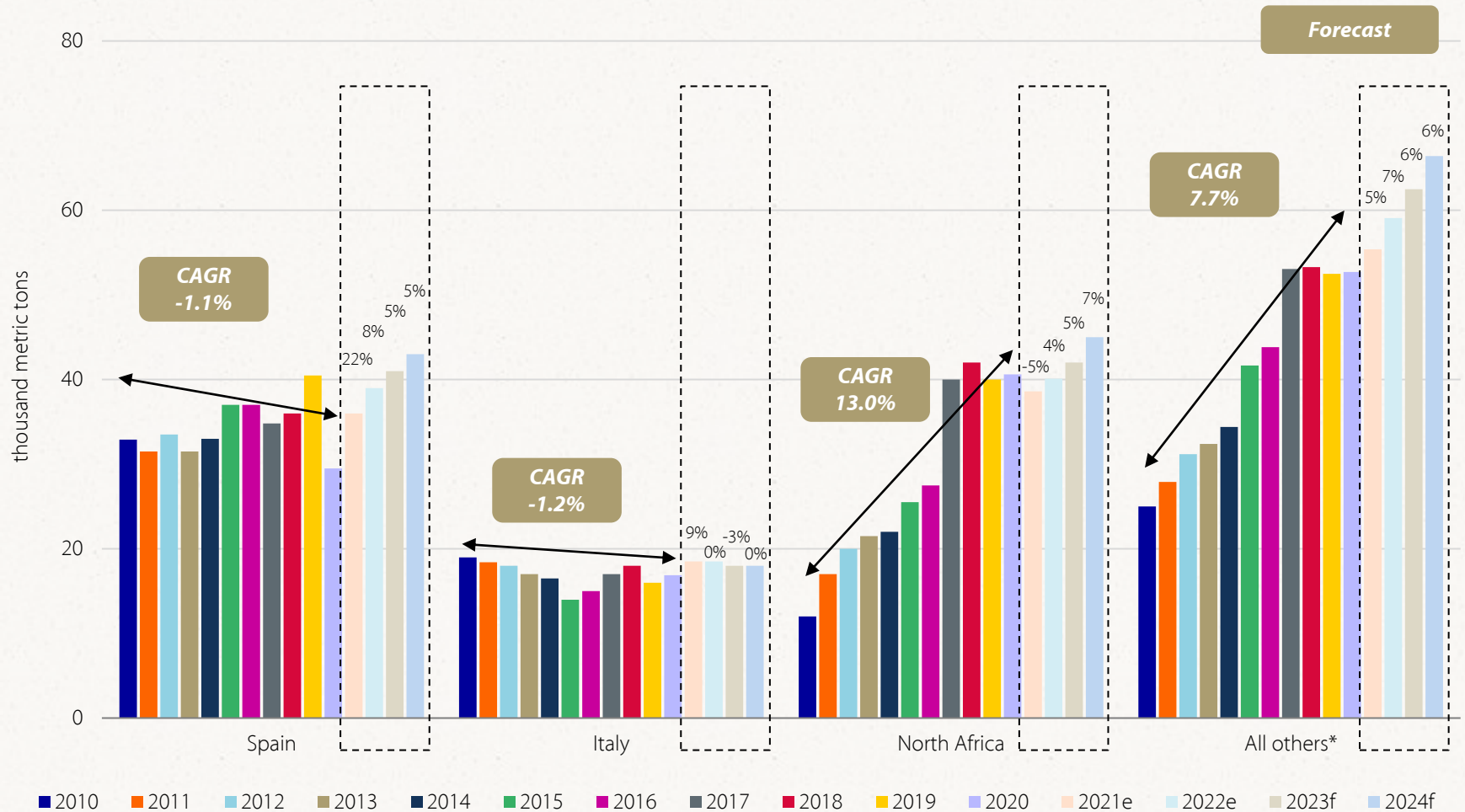


Greece sea bass and sea bream production, 2011-2024f



In other Mediterranean regions sea bass and sea bream production is vibrant

Sea bass and sea bream production, 2010-2023f*

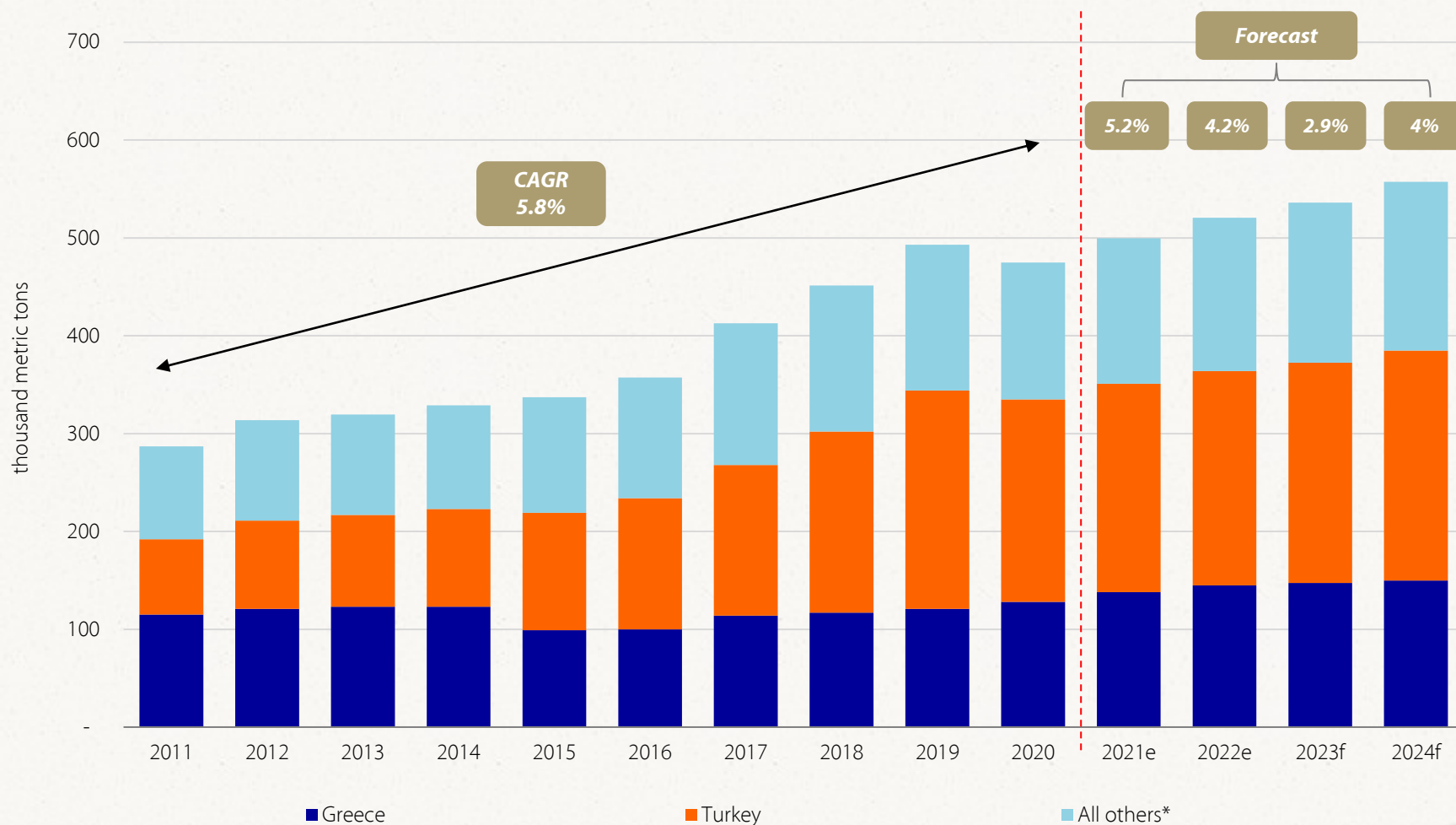


*Note: All others includes France, Portugal, Croatia, Cyprus, Malta, Israel, and others
Source: Kontali, Rabobank 2022



Sea bass and sea bream production are expected to have a good 2022, but growth has slowed versus the historical average

Sea bass and sea bream production, 2011-2024f



*Note: All others includes Spain, Italy, North Africa, France, Portugal, Croatia, Cyprus, Malta, Israel, and others
Source: Kontali, Rabobank 2022



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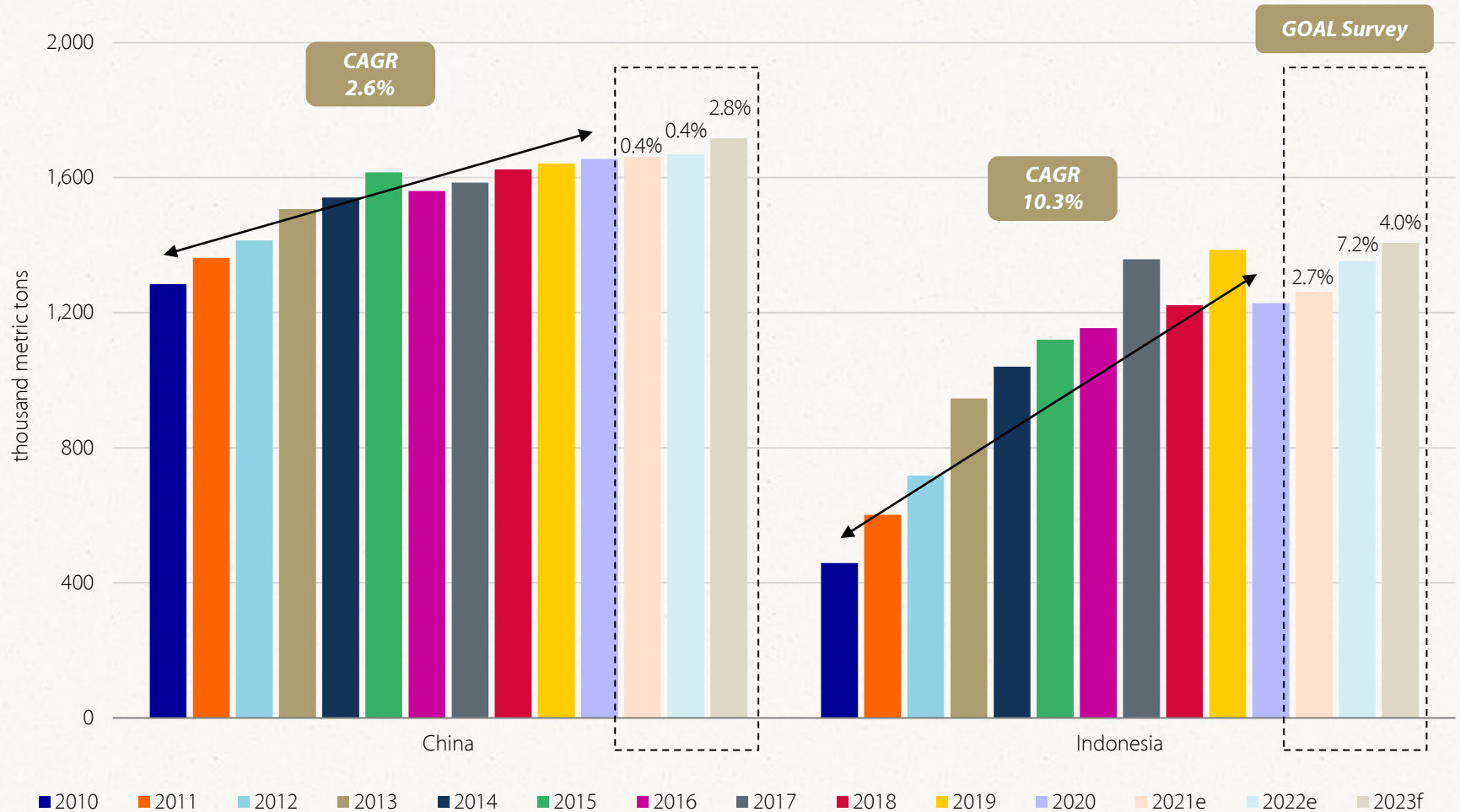
Tilapia



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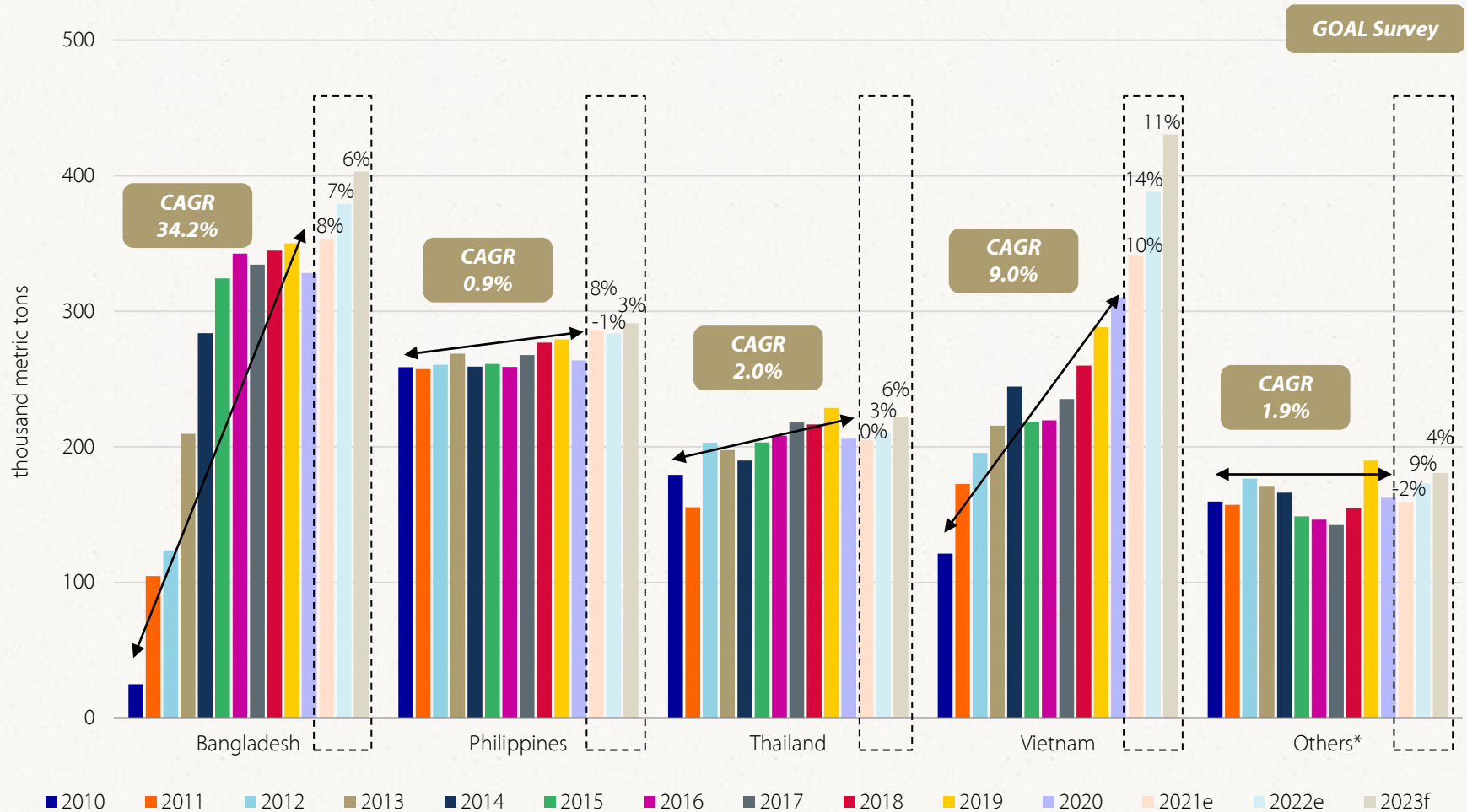
Tilapia growth in China is slowing down further, while Indonesia is on a steady growth path, albeit below historical rates

Tilapia and other cichlid production, 2010-2023f



Other Asian tilapia producers are experiencing considerably more growth, especially Vietnam and Bangladesh

Tilapia and other cichlid production, 2010-2023f



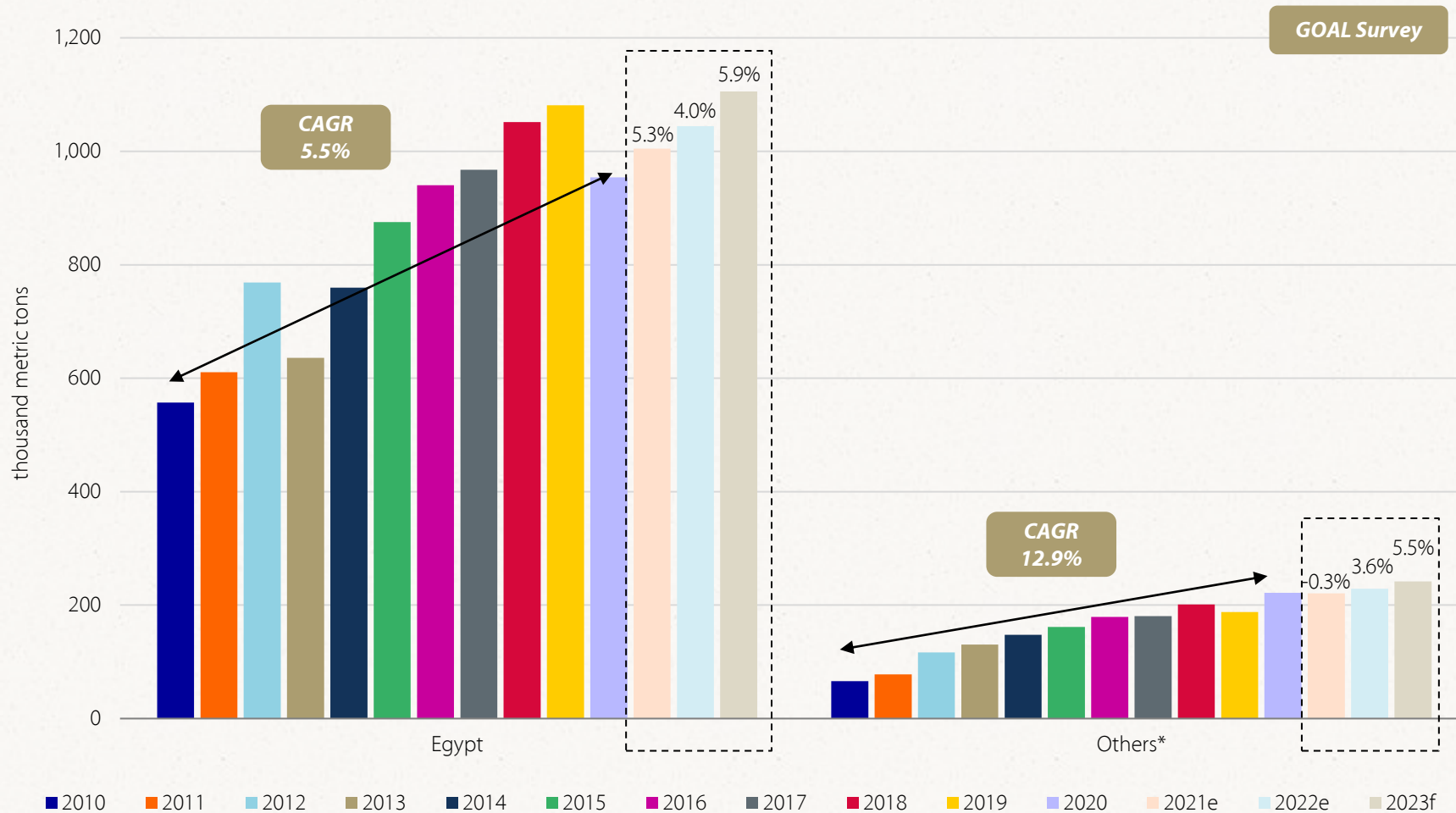
*Note: Others include Cambodia, Malaysia, Myanmar, Saudi Arabia, and Taiwan
Source: FAO, GOAL Survey 2022, Rabobank 2022



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Egypt, Africa's tilapia champion, is continuing its steady supply expansion (we expected a slow down in 2021)

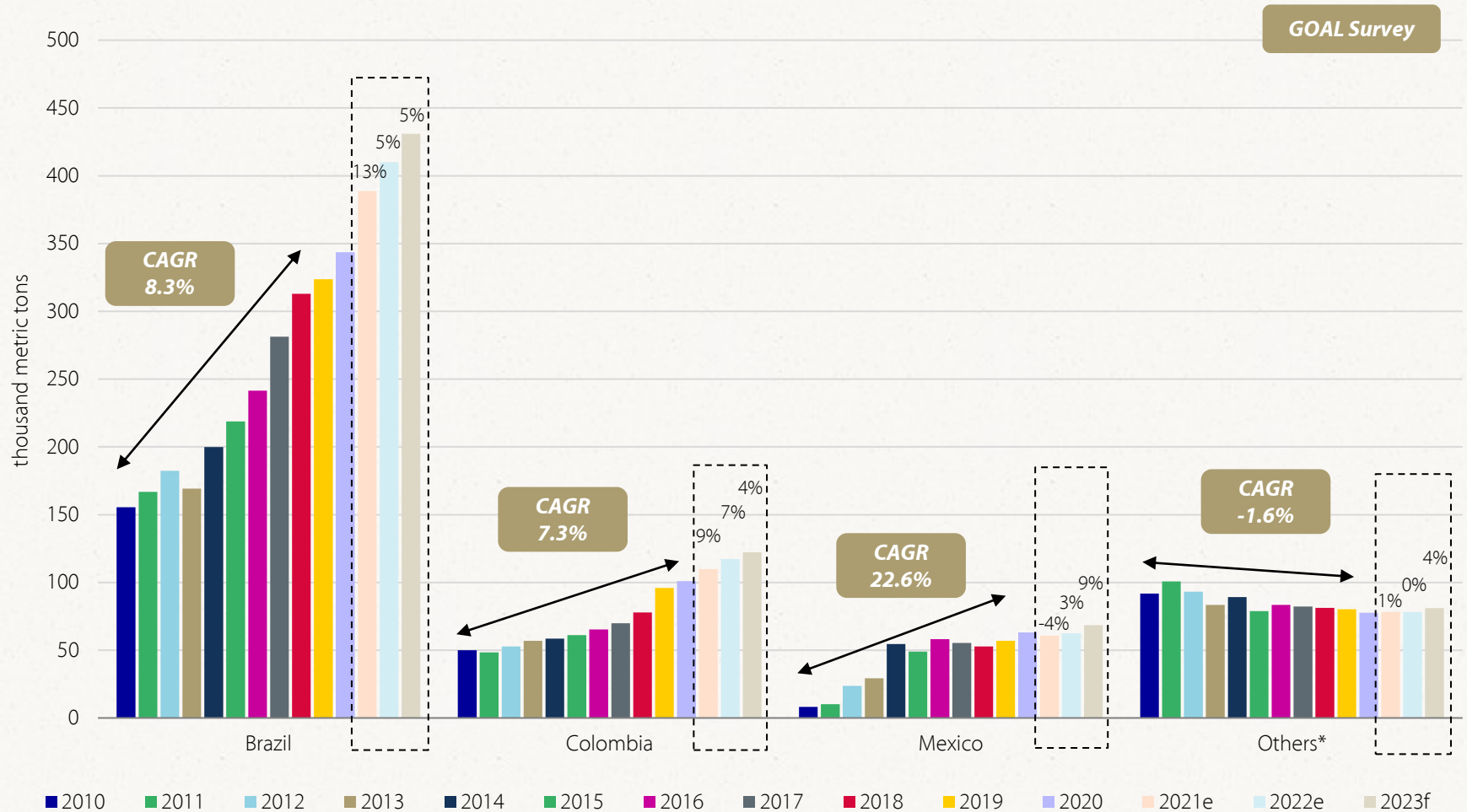
Tilapia and other cichlid production, 2010-2023f



*Note: Others include Ghana, Nigeria, Uganda, Zambia, and Zimbabwe
Source: FAO, GOAL Survey 2022, Rabobank 2022

Latin America is currently the fastest-growing tilapia-producing continent, driven by Brazil

Tilapia and other cichlid production, 2010-2023f



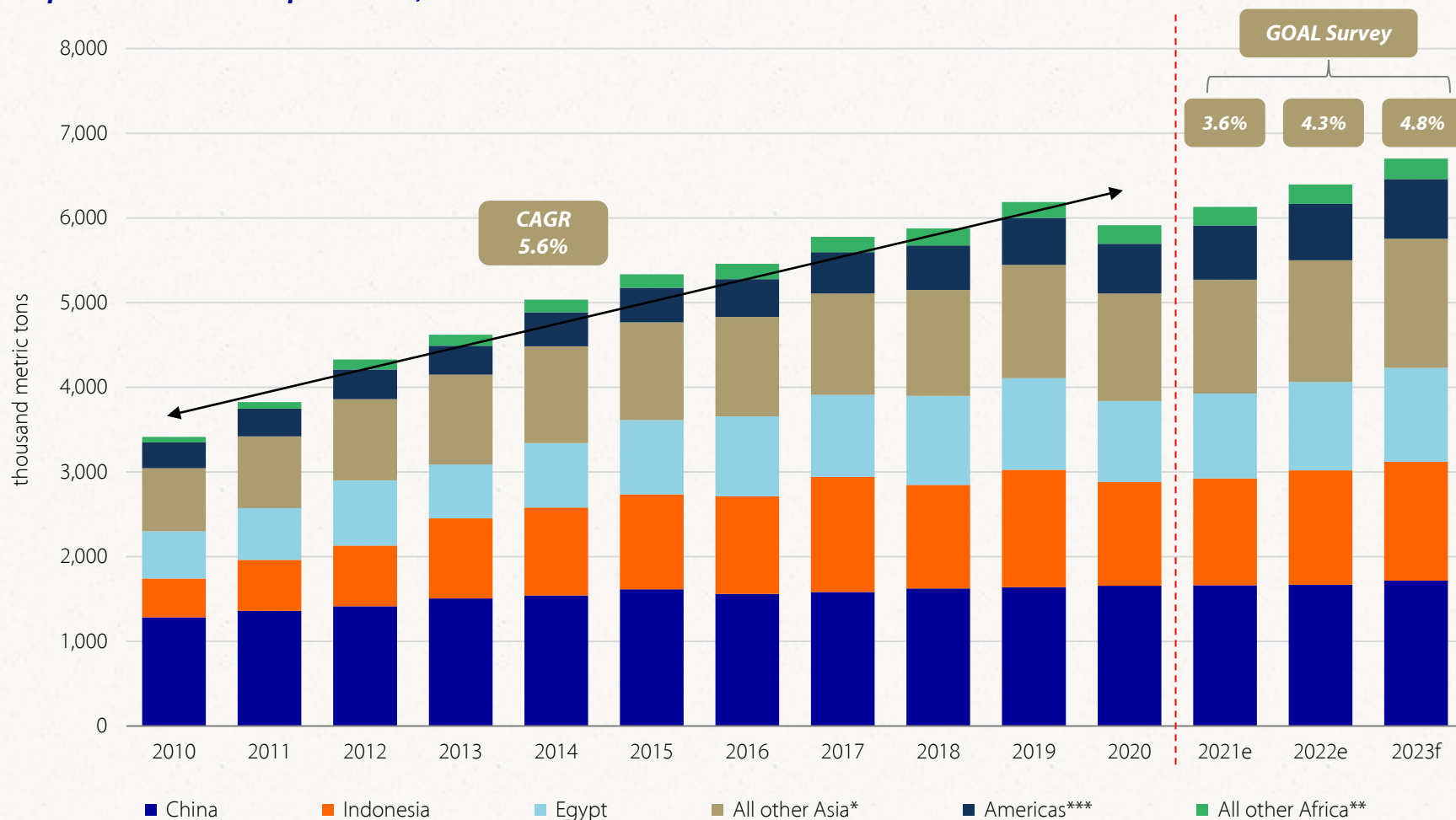
*Note: Others include Belize, Costa Rica, Cuba, Ecuador, Guatemala, Honduras, Panama, Peru, and Venezuela
Source: FAO, GOAL Survey 2022, Rabobank 2022



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Global tilapia supply growth seems to have accelerated in 2022 and is only slightly below the long-term trend

Tilapia and other cichlid production, 2010-2023f



*Note: All other Asia includes Bangladesh, Cambodia, Malaysia, Myanmar, Philippines, Saudi Arabia, Taiwan, Thailand, and Vietnam

**Note: All other Africa includes Ghana, Nigeria, Uganda, Zambia, and Zimbabwe

***Note: Americas includes Belize, Brazil, Colombia, Costa Rica, Cuba, Ecuador, Guatemala, Honduras, Mexico, Panama, Peru, and Venezuela

Source: FAO, GOAL Survey 2022, Rabobank 2022



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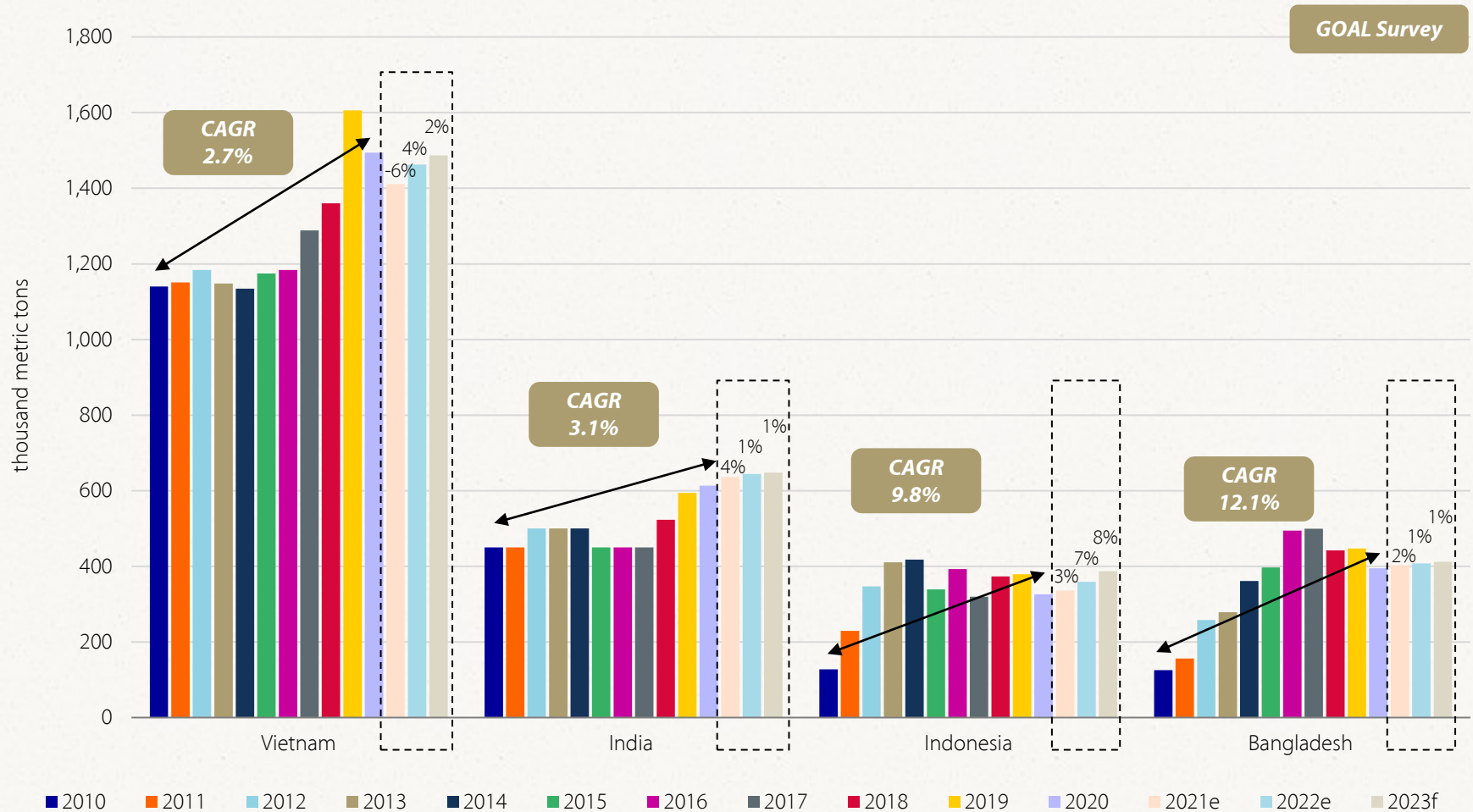
Pangasius (striped catfish)



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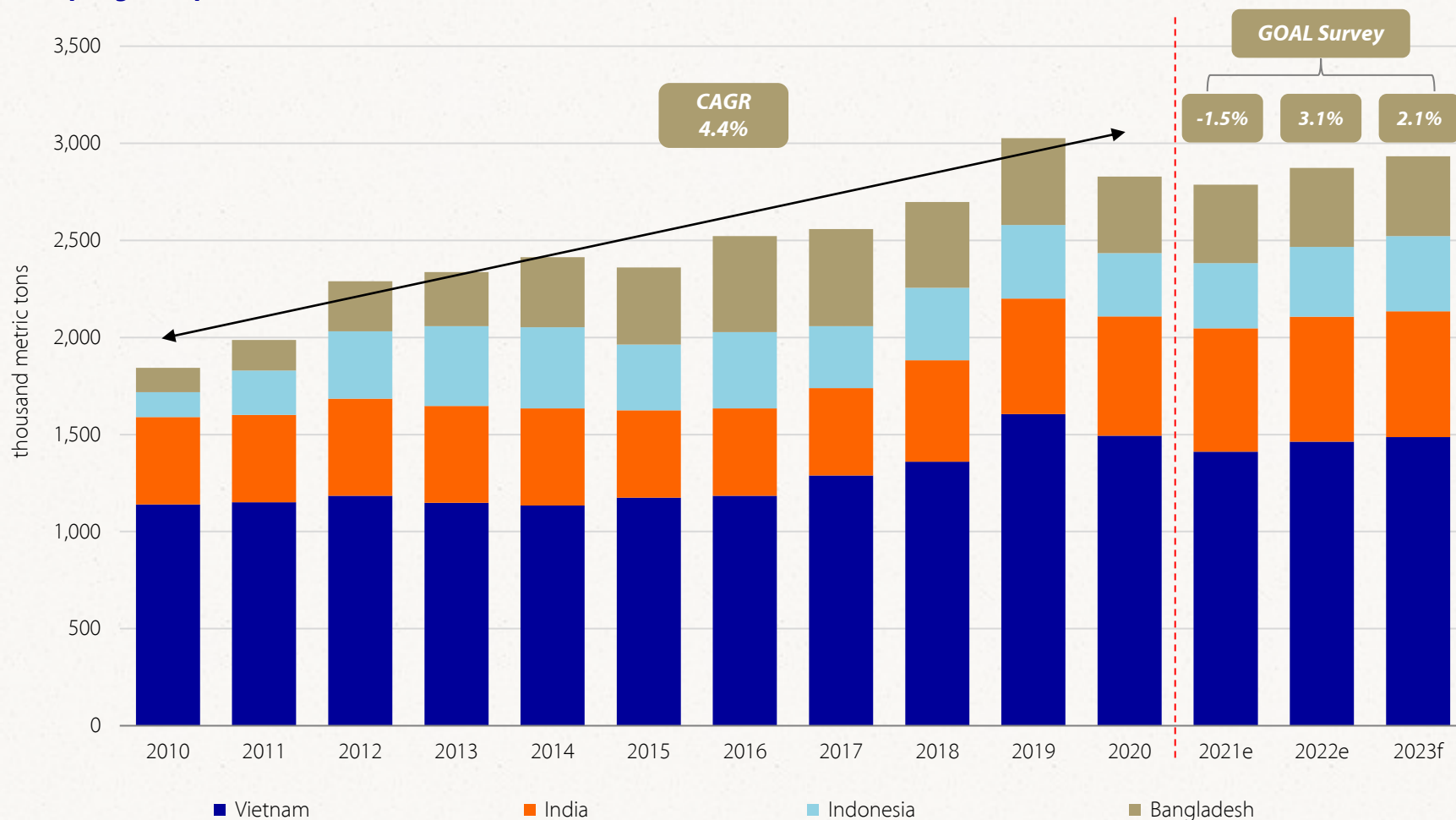
Pangasius supply is driven by Vietnam; It's now in gradual recovery mode, but still well below the 2019 supply

Pangasius production, 2010-2023f



Pangasius supply is yet to recover to the supply levels reached in 2019

Total pangasius production, 2010-2023f



Source: FAO, GOAL Survey 2022, Rabobank 2022

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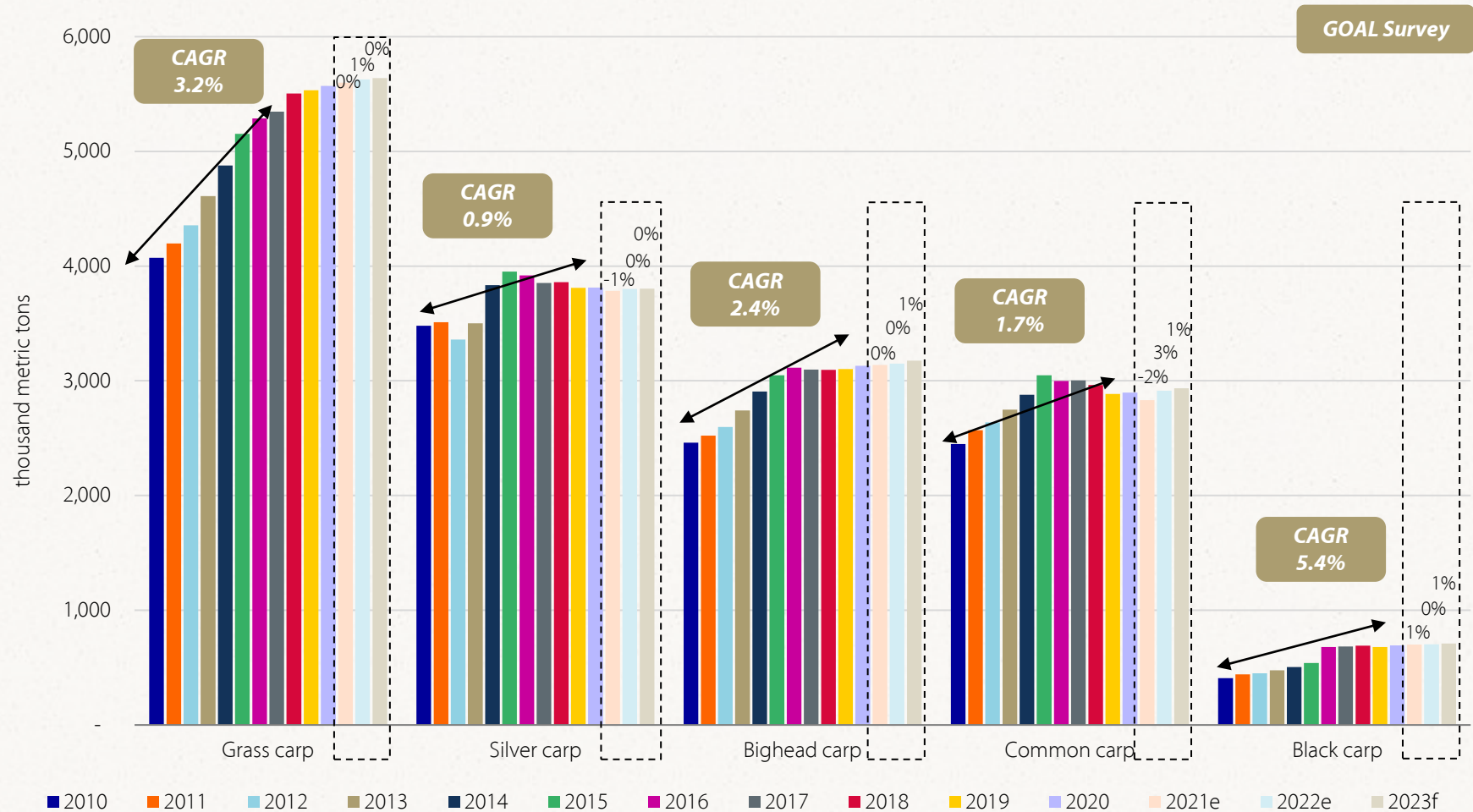
Carp



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In China, overall carp production is slowing down further, but remains stable for some species

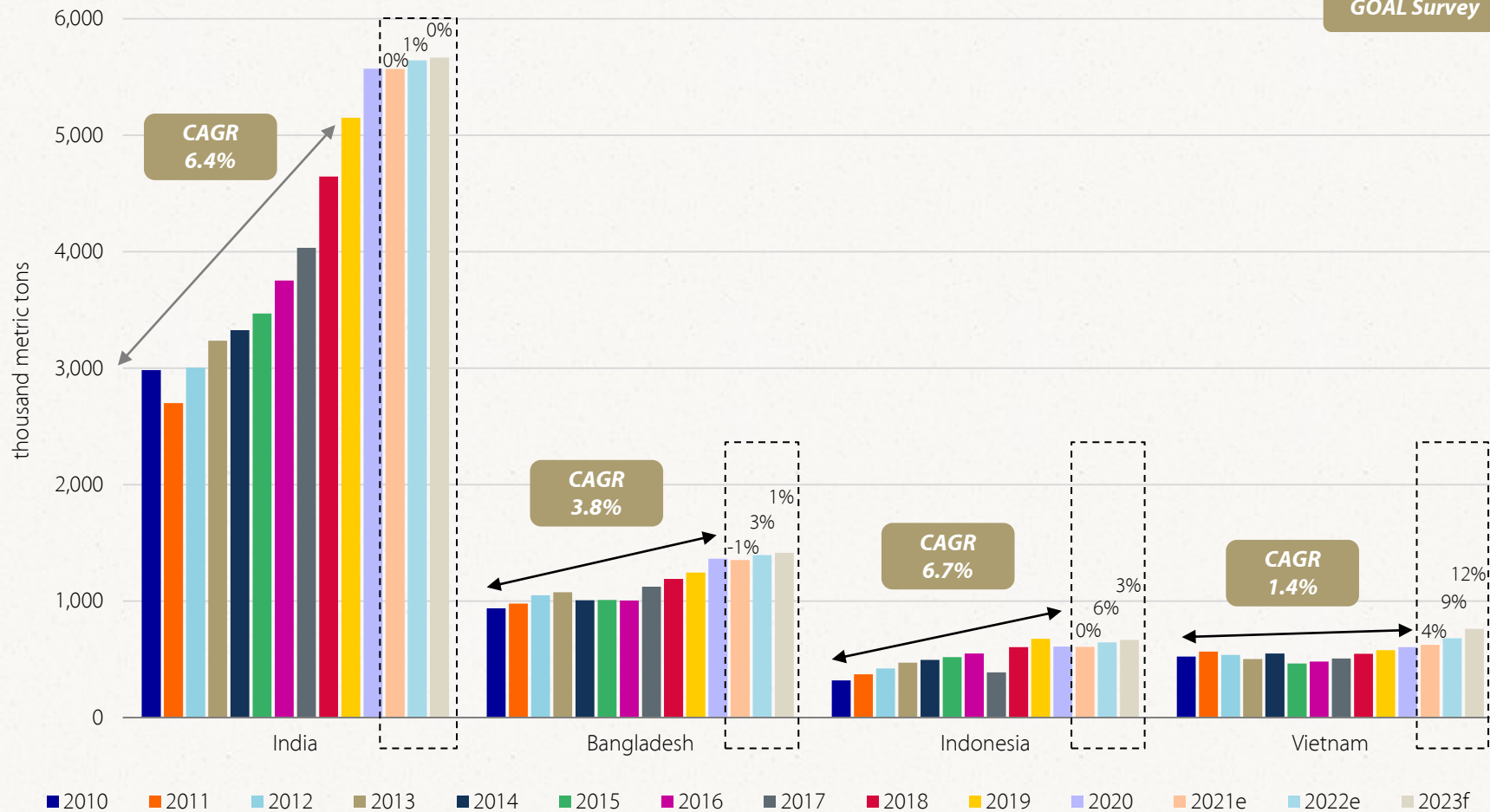
China carp production, 2010-2023f



Other carp producers, especially India, are also slowing down the rate of supply growth

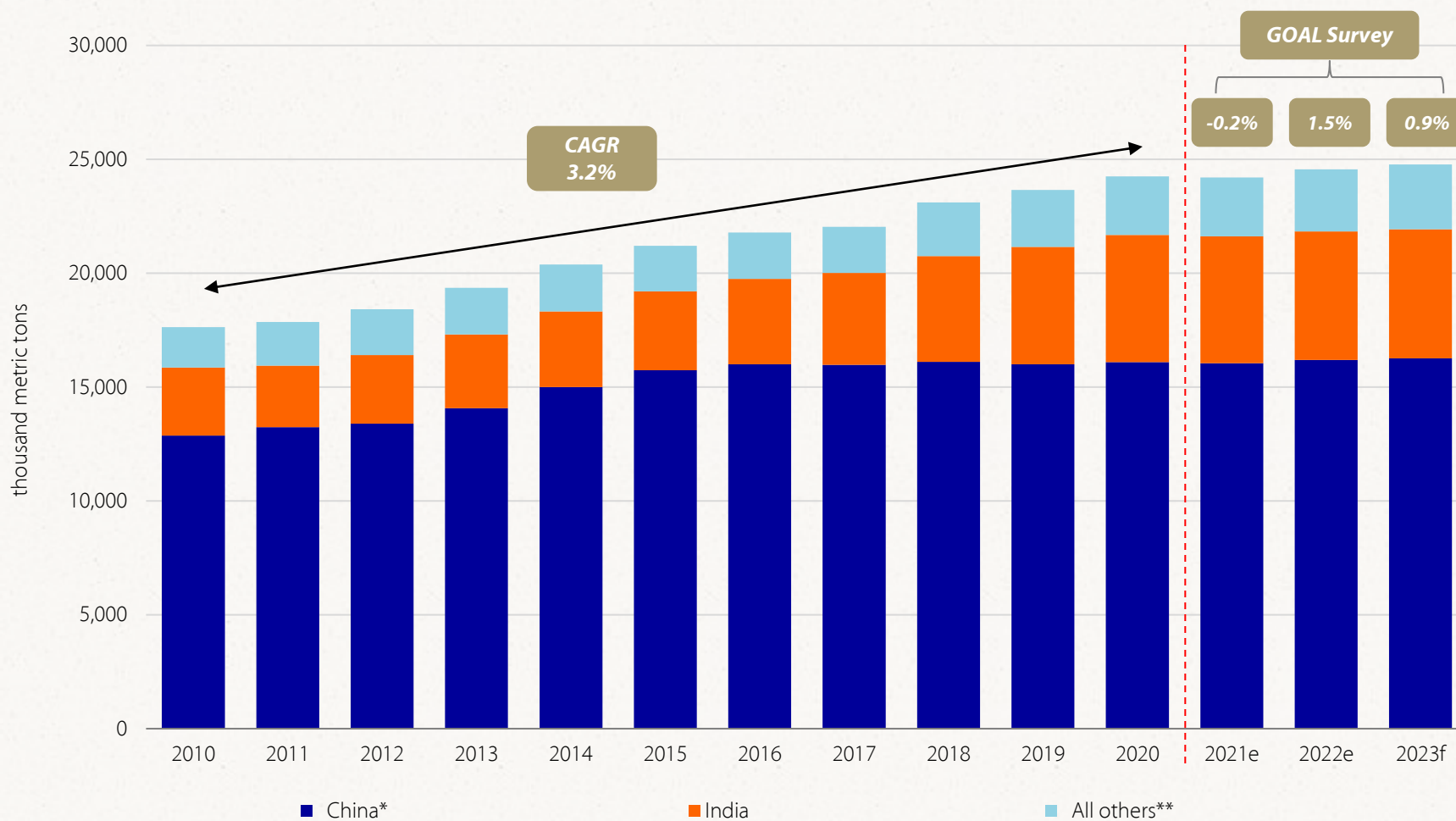
Carp, barbel, and other cyprinid production, 2010-2023f

GOAL Survey



Carp is now a 0% to 1.5% per year growth industry, down from 3.2%

Carp production, 2010-2023f



*Note: China includes bighead carp, black carp, common Carp, grass carp, and silver carp

**Note: All others includes Bangladesh, Indonesia, and Vietnam

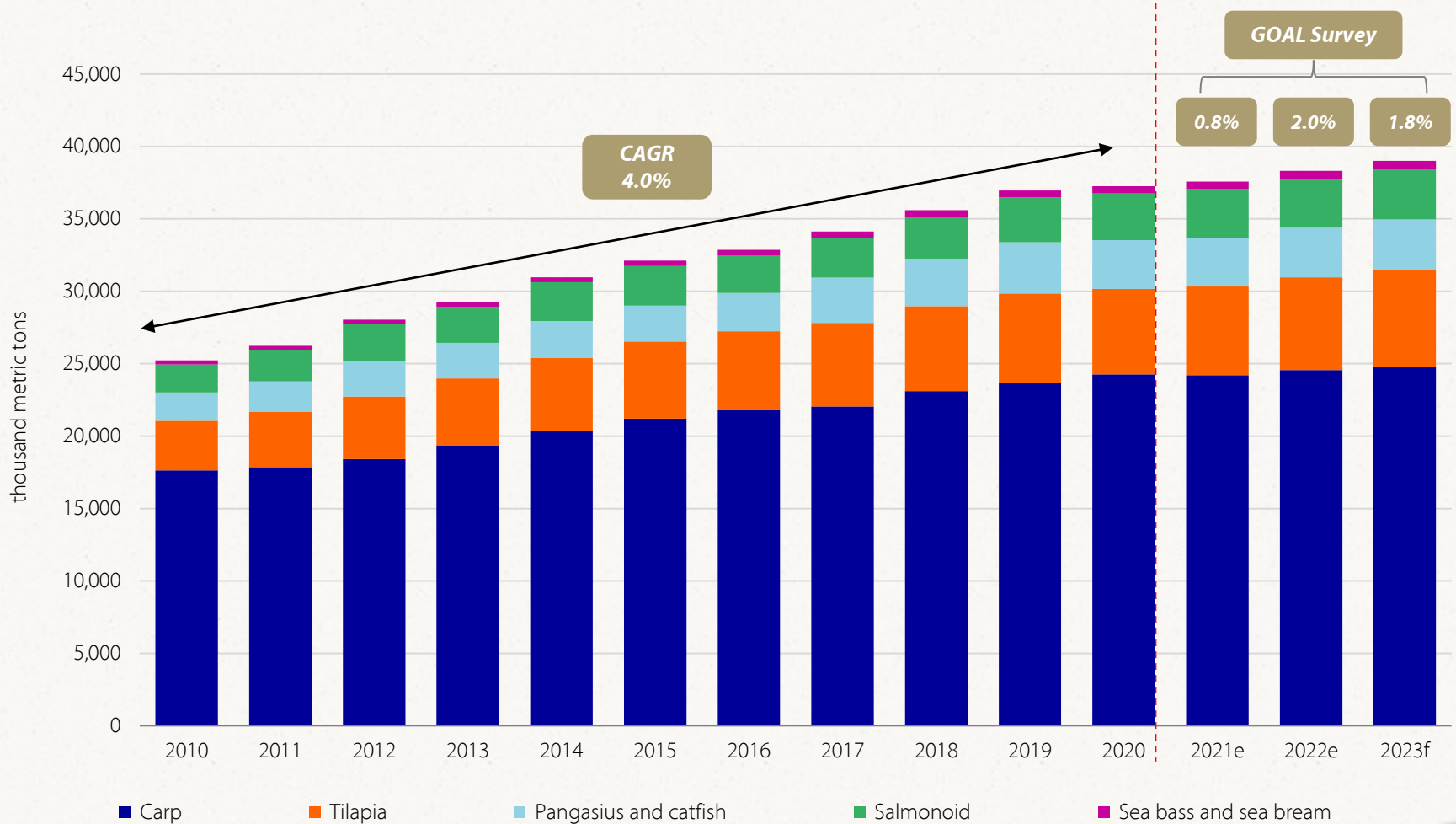
Source: FAO, GOAL Survey 2022, Rabobank 2022



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Carp's slower growth and enormous volumes influence the overall picture of finfish aquaculture

Finfish production, 2010-2023f*



*Note: The above data set covers approximately two-thirds of all the farmed finfish species globally, in volume terms
Source: FAO, GOAL Survey 2022, Rabobank 2022



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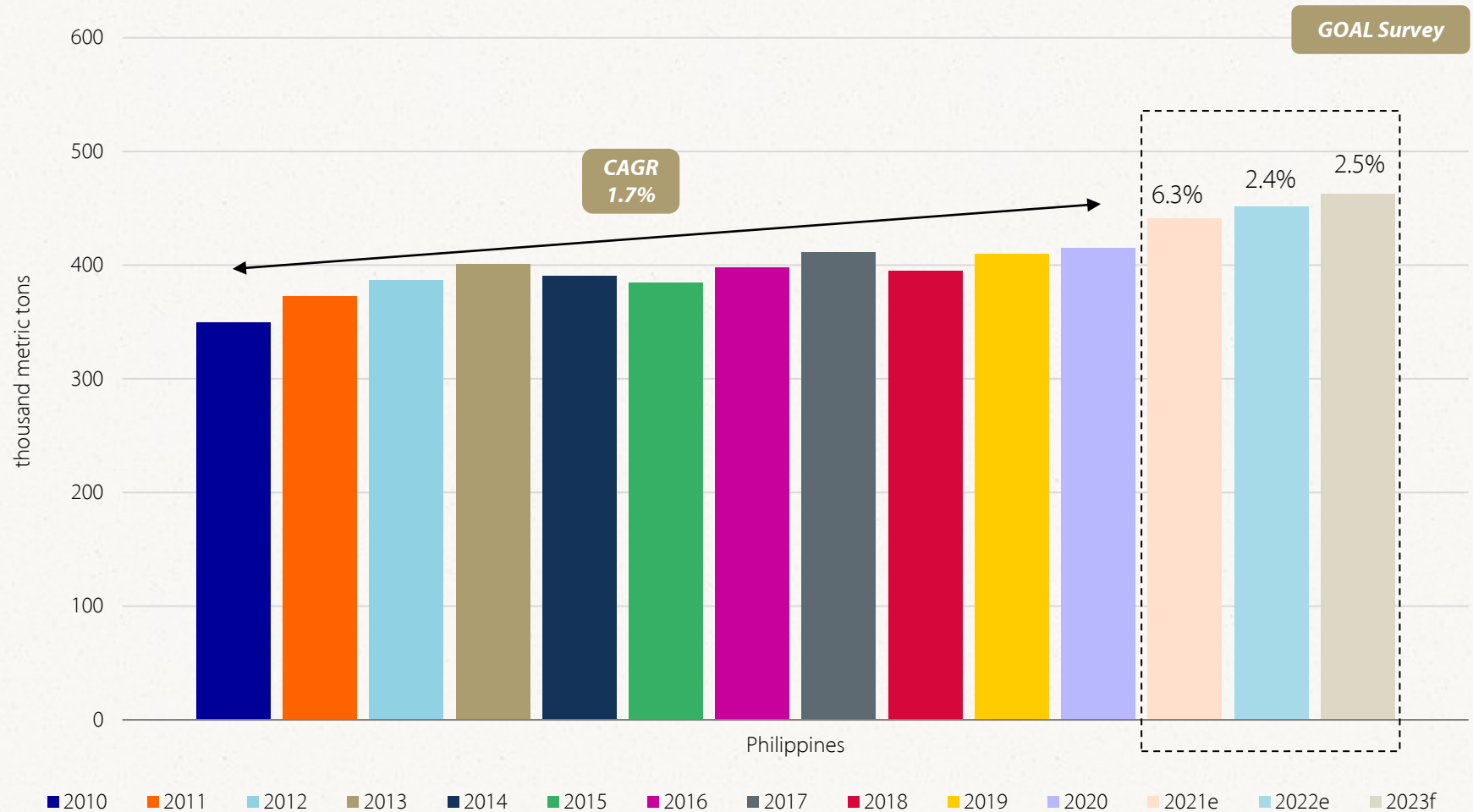
Appendix: Other fishes



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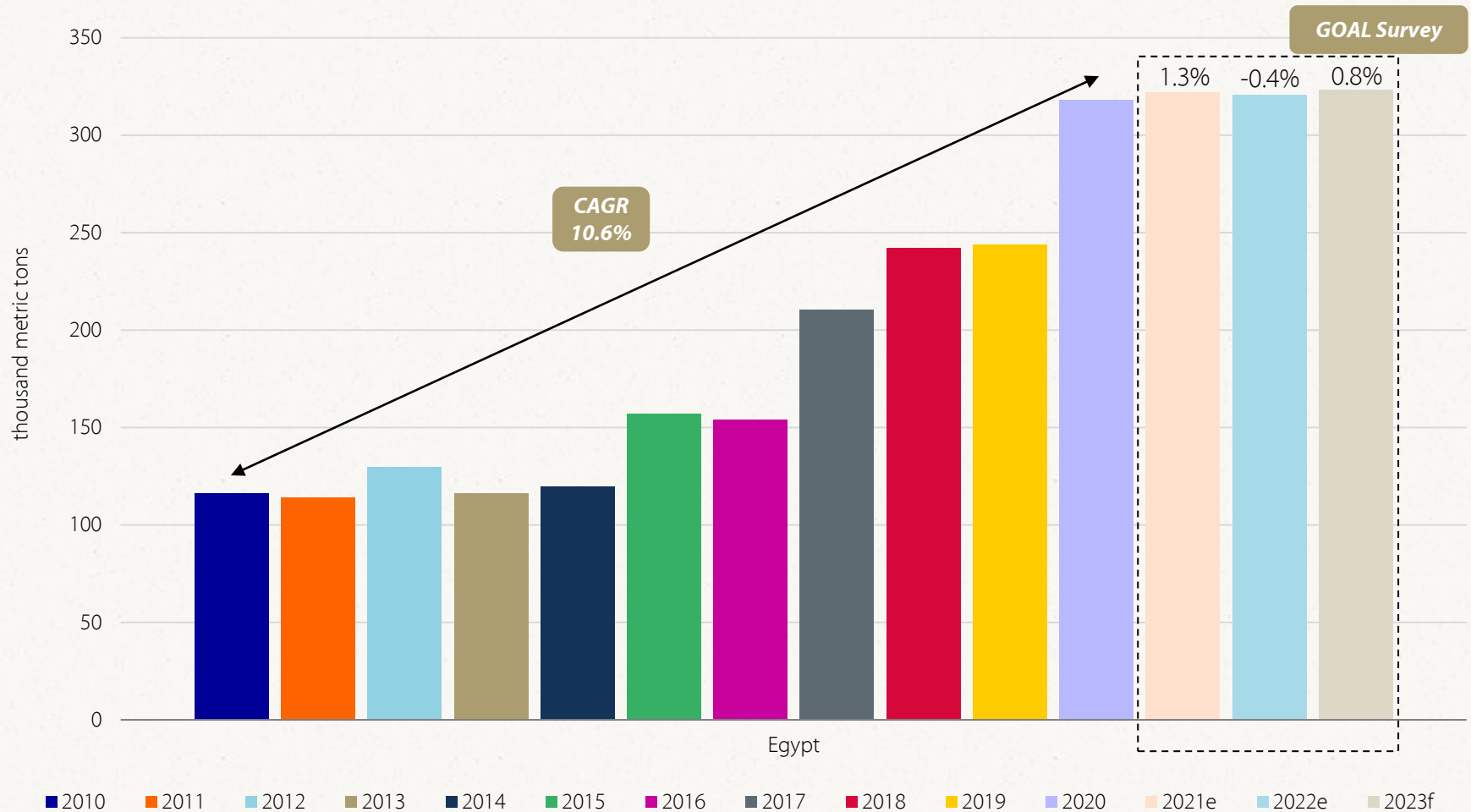
Milkfish, produced only in the Philippines, is a large and mature sector, with growth expected to be higher than in the past

Philippines milkfish production, 2010-2023f



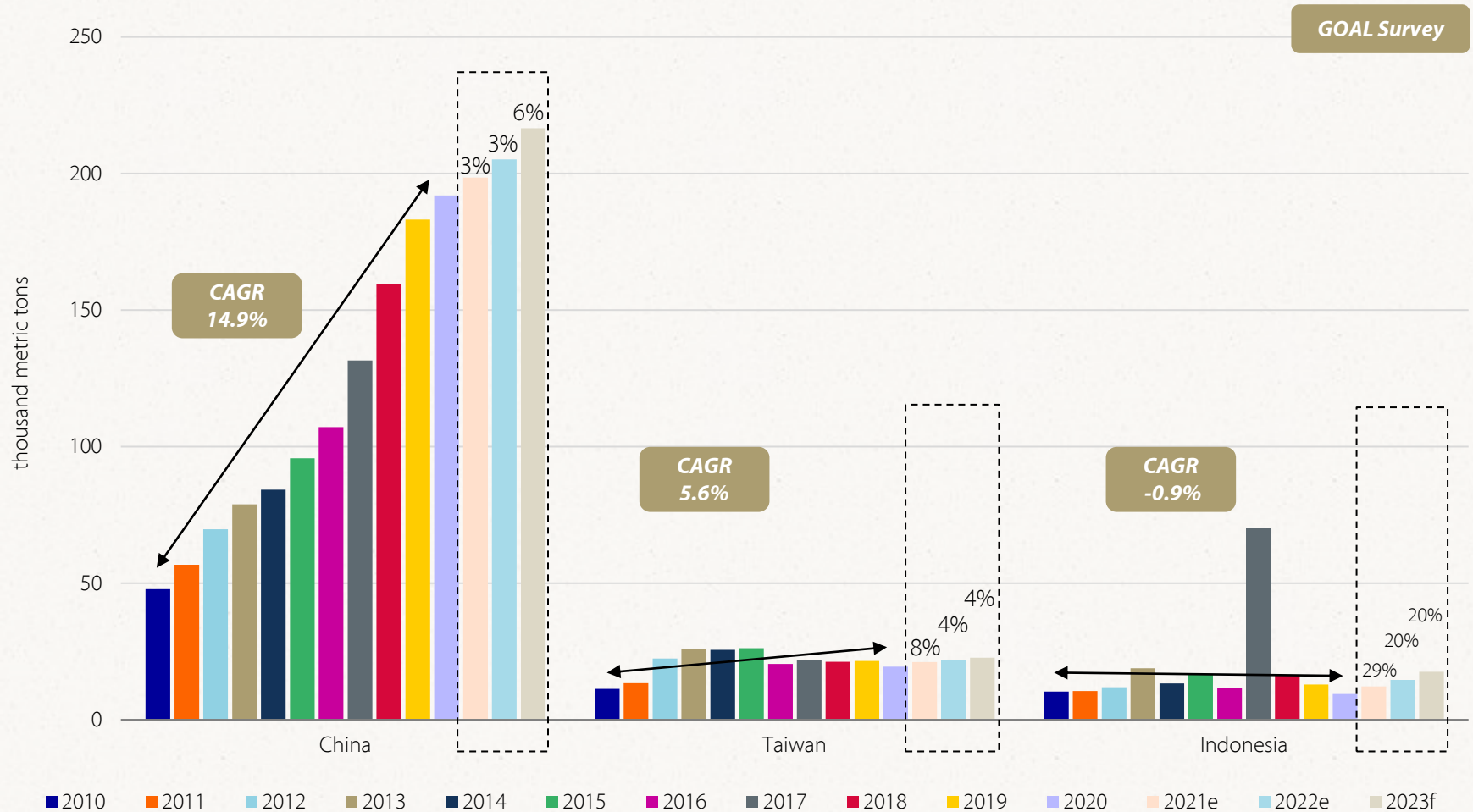
Mullet, produced in Egypt, seems to have entered a phase of stable supply after years of growth

Egypt mullet production, 2010-2023f



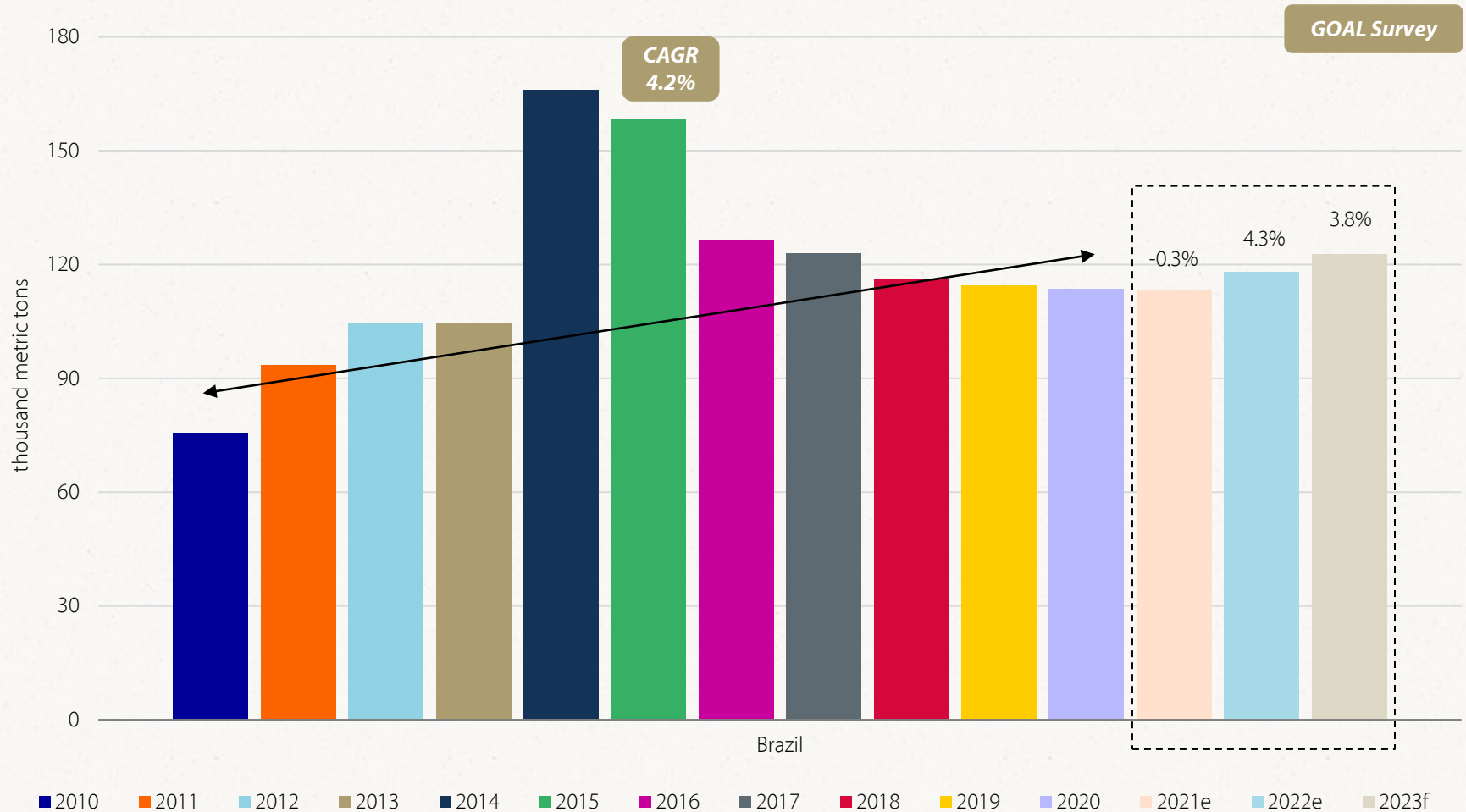
Grouper production is still on the rise – albeit less rapidly than in the past – with China as the clear leader

Grouper production, 2010-2023f



Amazonian fishes, produced in Brazil, are expected to reverse their decline and restart growth

Amazonian fishes production, 2010-2023f*



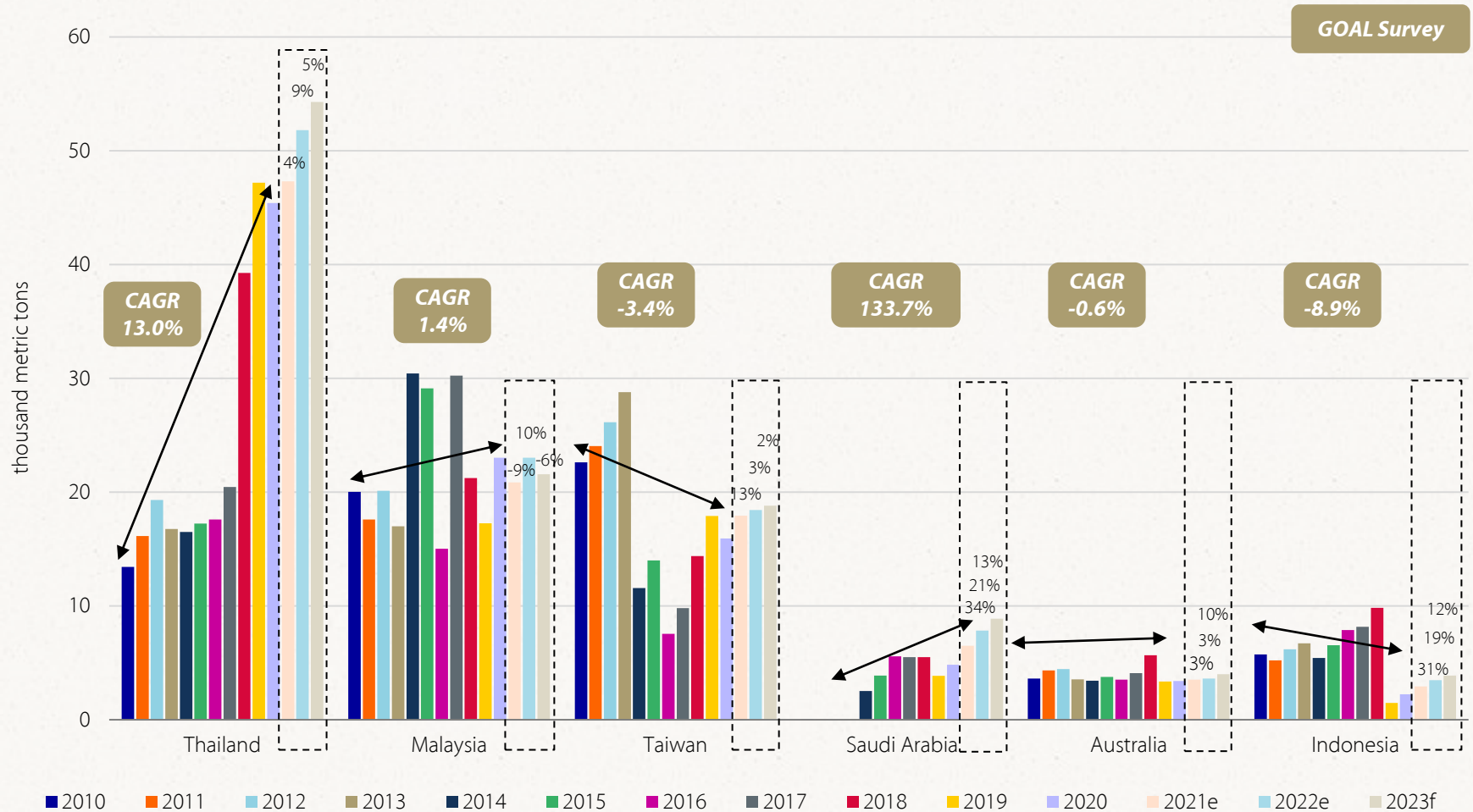
*Note: Amazonian fishes include mostly Pacu and cachama +plus some arapaima and Amazonian catfishes
Source: FAO, GOAL Survey 2022, Rabobank 2022



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Barramundi is becoming a significant industry led by Thailand

Barramundi production, 2010-2023f



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