



Outline

1. Macro Agricultural Indicators / Sectorial Indicators

- ▶ Agricultural Value Added
- ▶ Agricultural Growth Rates
- ▶ Population and Employment, Trade
- ▶ Land Use
- ▶ Crop, Livestock and Fish Production
- ▶ Productivity
- ▶ Input usage (Water, fertilizer, pesticide-insecticide)
- ▶ Mechanization

2. Food Security

- ▶ Availability (Protein supply, dietary adequacy, undernourishment)
- ▶ Access
- ▶ Utilization
- ▶ Stability

3. Agricultural Challenges and Strategic Resiliencies

Policy Recommendations for Agricultural Transformation

4. Conclusion



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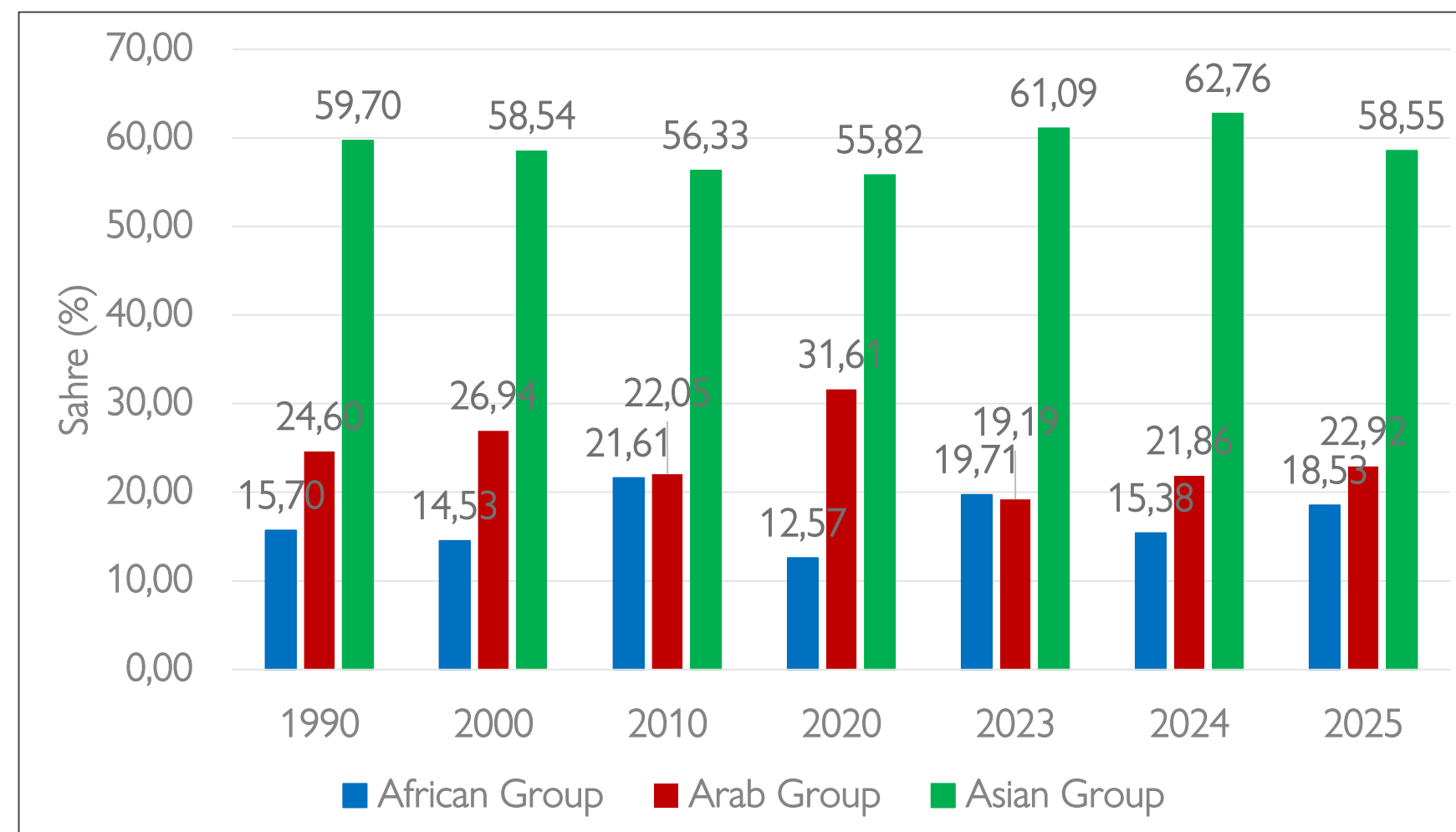
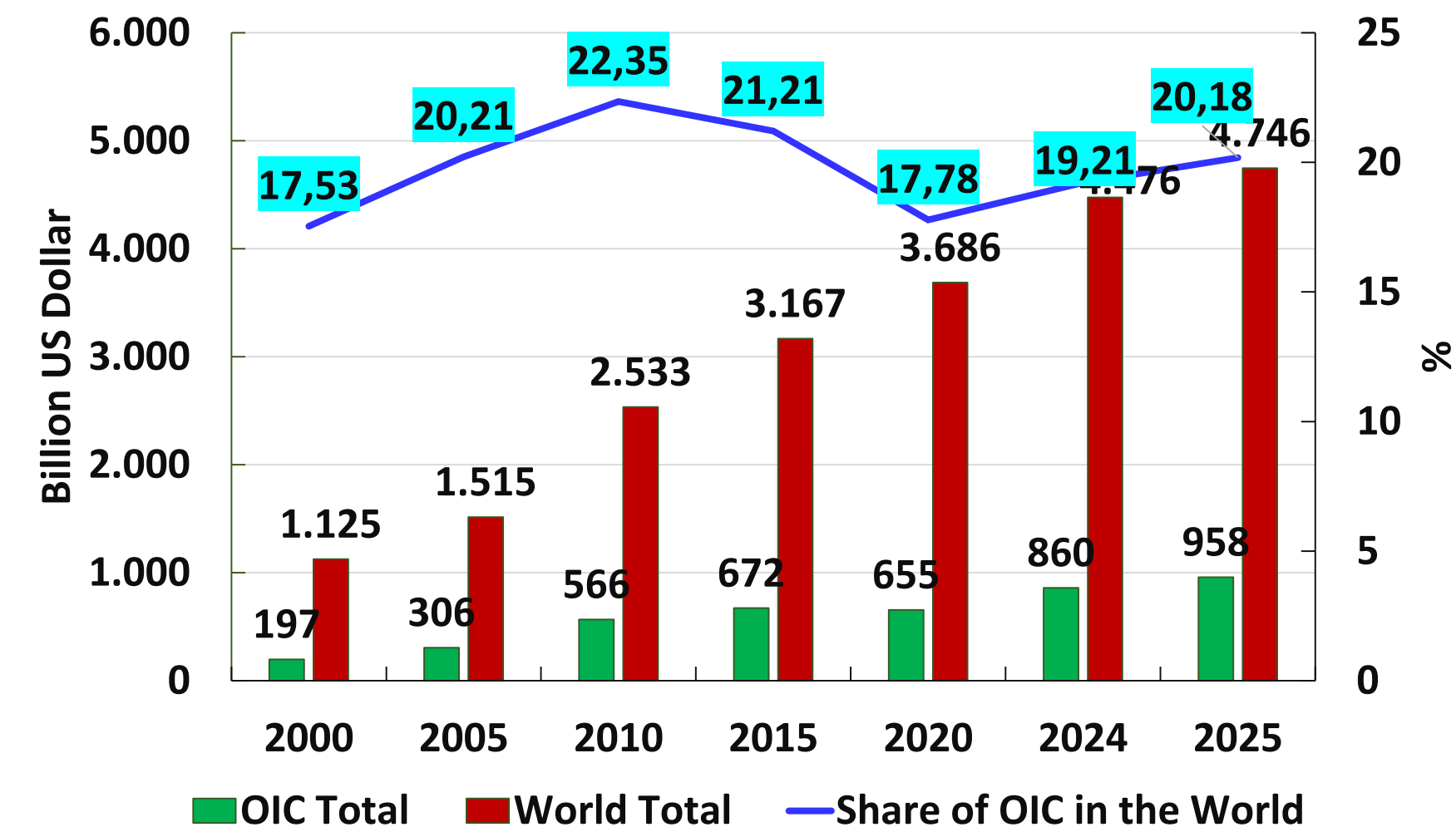
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1. Macro Agricultural Indicators / Sectorial Indicators

➤ Agricultural Value Added

Agriculture forestry and fishing value added (current US\$) in OIC Countries (by sub region) and Share in the World (%)



Source: Calculated from <https://data.worldbank.org/indicator/NV.AGR.TOTL.CD?locations=TR>



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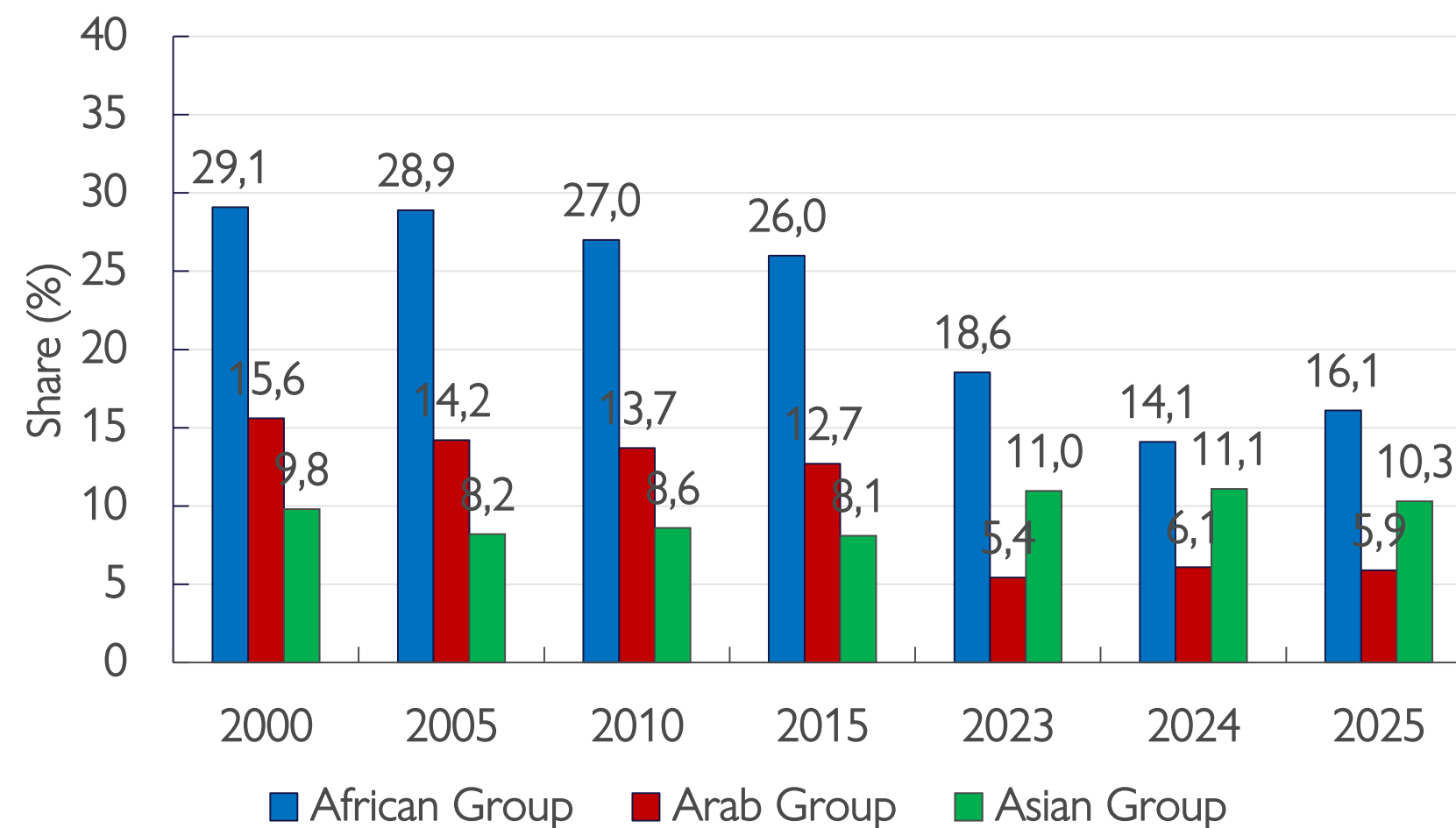
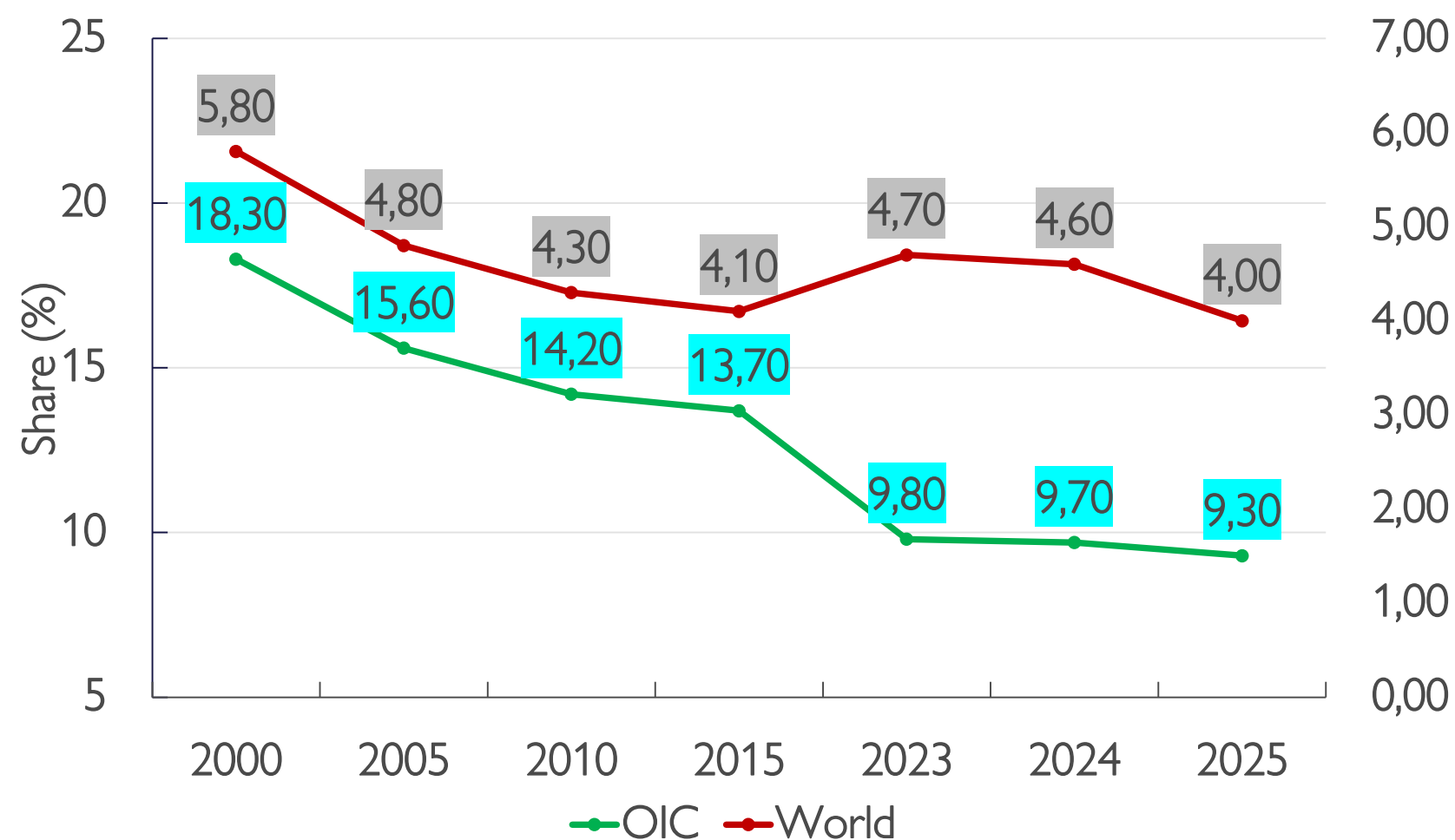
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1. Macro Agricultural Indicators / Sectorial Indicators

➤ Agricultural Value Added

Share of Agriculture, forestry and fishery value added in the OIC (by Sub region) and World (%)



Source: Calculated from <https://databank.worldbank.org/source/world-development-indicators>



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1. Macro Agricultural Indicators / Sectorial Indicators

➤ Agricultural Value Added

Agriculture, forestry and fishing value added (GDP) rankings in the OIC

	2015			2025		
		Agricultural GDP (Billion Dollar)	Share %		Agricultural GDP (Billion Dollar)	Share (%)
1	Indonesia	116.2	17.29	Indonesia	189,4	27,14
2	Nigeria	100,4	16.25	Pakistan	93,8	13,44
3	Pakistan	64.4	10.43	Türkiye	83,2	11,92
4	Türkiye	59,4	9,62	Nigeria	66,8	9,57
5	Iran	40,4	6.54	Egypt	60,5	8,67
6	Egypt	37,5	6.07	Bangladesh	52,1	7,47
7	Bangladesh	28,8	4.66	Algeria	41,7	5,98
8	Uzbekistan	25,2	4.08	Malaysia	38,8	5,56
9	Malaysia	25,0	4.05	Iran	38,4	5,50
10	Sudan	20,8	3.37	Saudi Arabia	33,1	4,74
Top Ten Total		518,10	77,13%	Top Ten Total	697,8	72,85%
OIC Total		671,7	21,21%	OIC Total	957,8	20,18%
World		3166,9		World	4745,9	

Source: Calculated from <https://data.worldbank.org/indicator/NV.AGR.TOTL.CD?locations=TR>



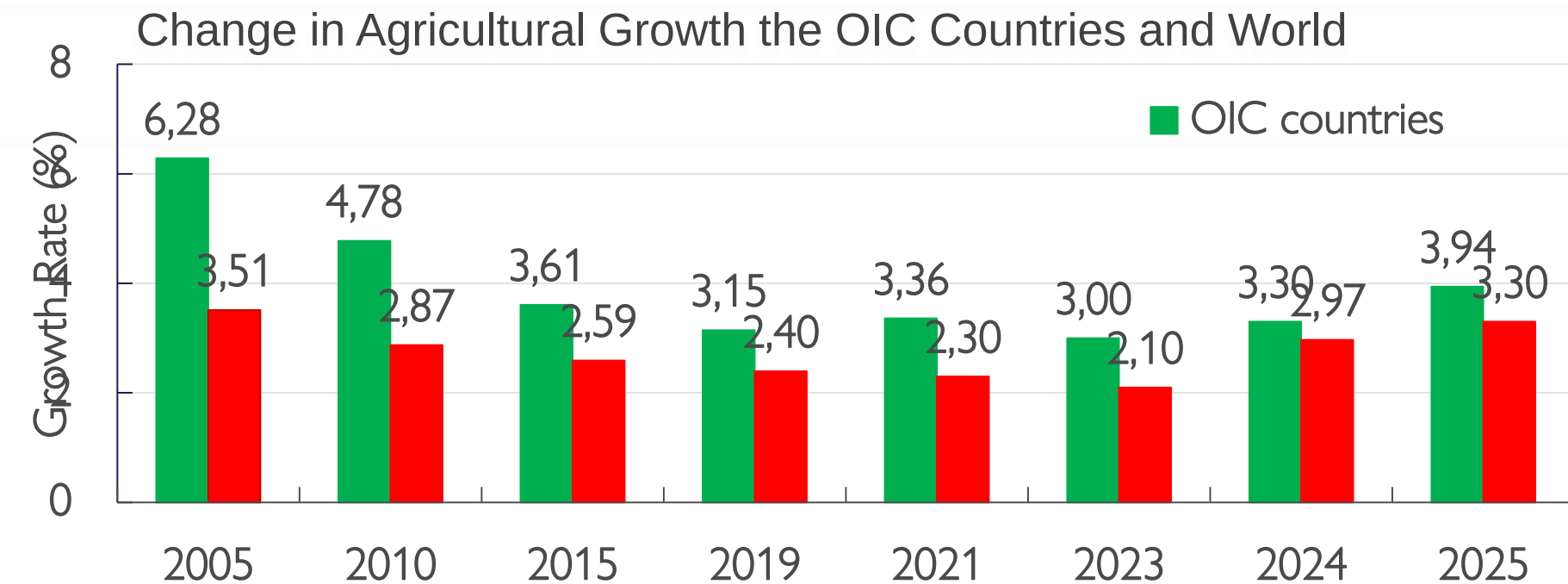
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1. Macro Agricultural Indicators / Sectorial Indicators

➤ Growth Rates



<https://www.imf.org/en/Publications/WEO/Issues/2024/04/16/world-economic-outlook-april-2024>

Comparison of Changes in Agricultural and Overall Growth in OIC Sub-Regions

Period	African Group		Arab Group		Asian Group	
	Agricultural Growth	General Growth	Agricultural Growth	General Growth	Agricultural Growth	General Growth
2000	-0,9	1,8	-1,9	4,8	4,7	5,6
2010	6,8	6,4	3,5	4,7	1,1	5,9
2020	3,5	0,8	8,7	-6,0	3,5	-0,6
2023	3,6	4,6	2,4	1,2	1,4	6,1
2024	4,9	5,2	3,6	1,3	1,6	6,9
2025	4,5	5,3	2,8	3,9	3,3	5,4

Source: ... Calculated
<https://data.worldbank.org/indicator/NV.AGR.TOTL.CD?locations=TR>
<https://data.worldbank.org/indicator/NY.GDP.MKTP.KD>

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Comparison of Changes in Agricultural and Overall Growth in OIC and World

Year	OIC		World	
	Agricultural Growth	GDP Growth	Agricultural Growth	GDP Growth
2000	0,6	4,1	2,2	4,6
2010	3,8	5,7	3,4	4,5
2020	5,3	-1,9	2,0	-2,9
2023	2,5	3,6	2,5	2,9
2024	3,3	4,5	2,8	2,9
2025	3,6	4,9	3,3	2,9



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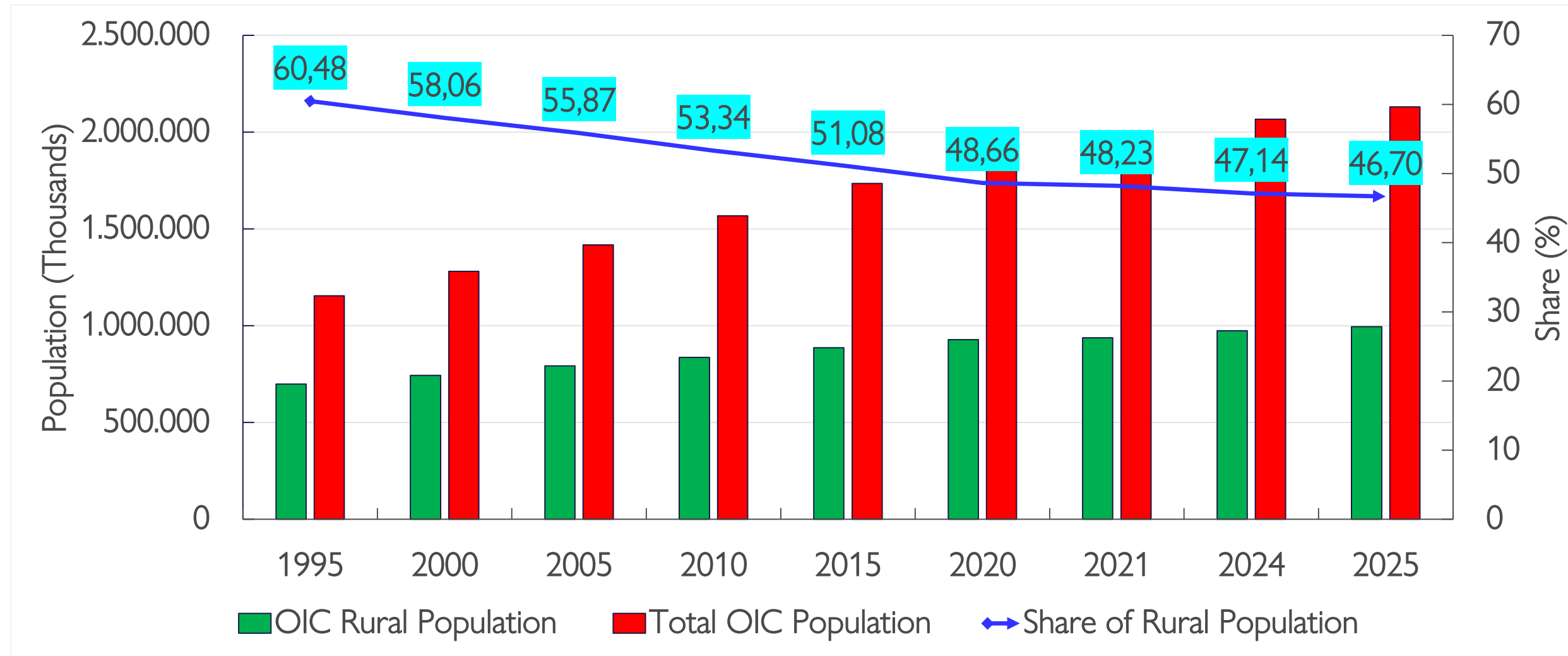
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1. Macro Agricultural Indicators / Sectorial Indicators

➤ Total and Rural Population

Share of Rural Population in the OIC



Source: Calculated from <https://databank.worldbank.org/source/world-development-indicators>



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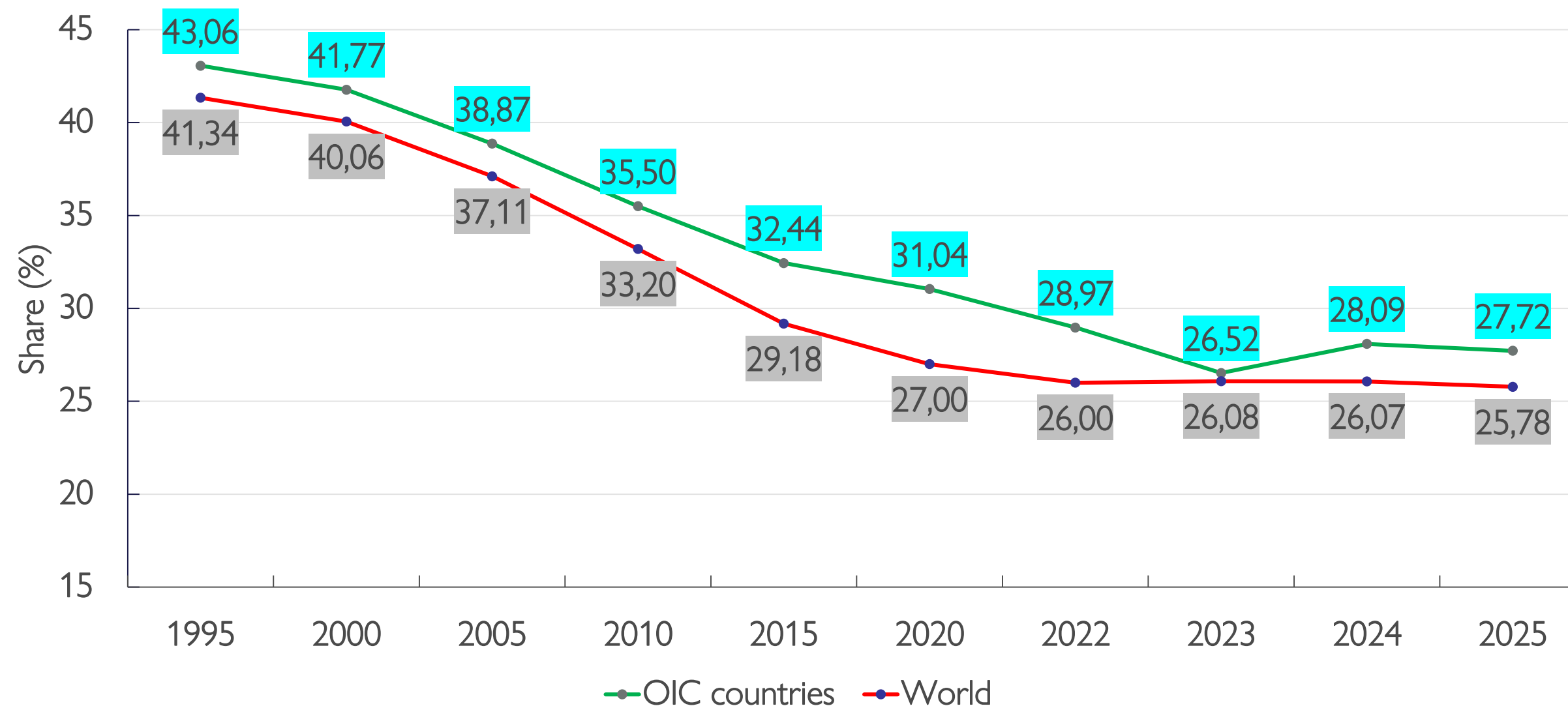
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1. Macro Agricultural Indicators / Sectorial Indicators

➤ Agricultural Employment

Share of Agricultural Employment in the OIC and World



Source: Calculated from ILO (2025); <https://databank.worldbank.org/source/world-development-indicators/Type/TABLE/preview/on#>



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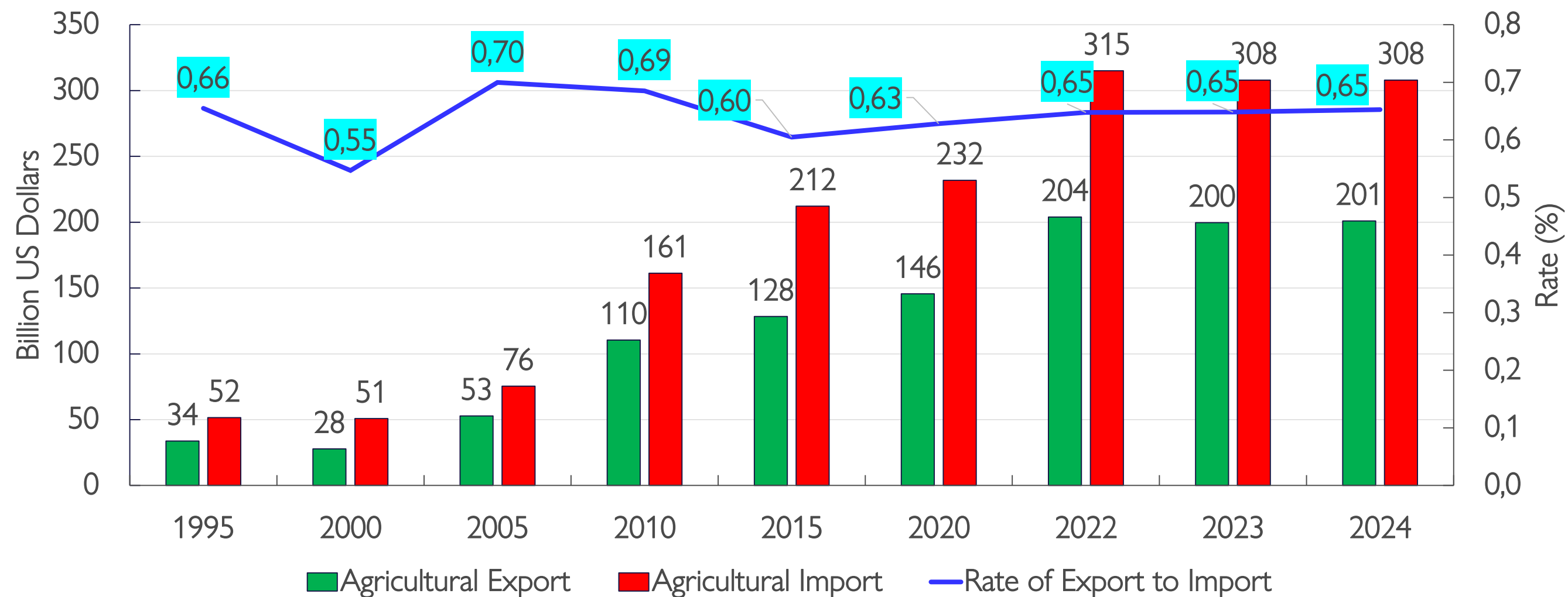
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1. Macro Agricultural Indicators / Sectorial Indicators

➤ International Trade

Agricultural Exports and Import Values of the OIC Members

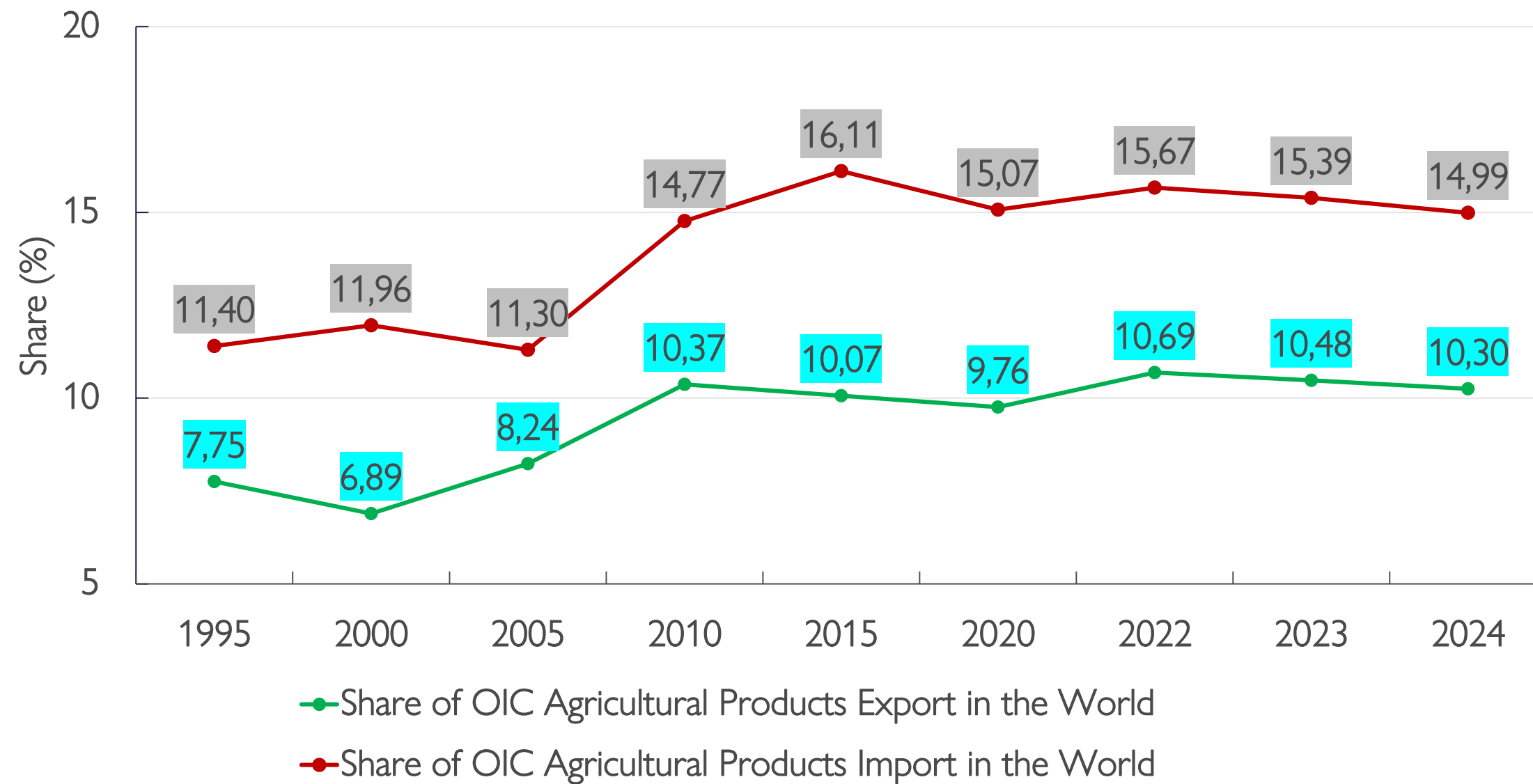


Source: Calculated from <https://www.fao.org/faostat/en/#data/TCL>

1. Macro Agricultural Indicators / Sectorial Indicators

➤ International Trade

OIC Agricultural Trade Performance of OIC Member Countries in the World

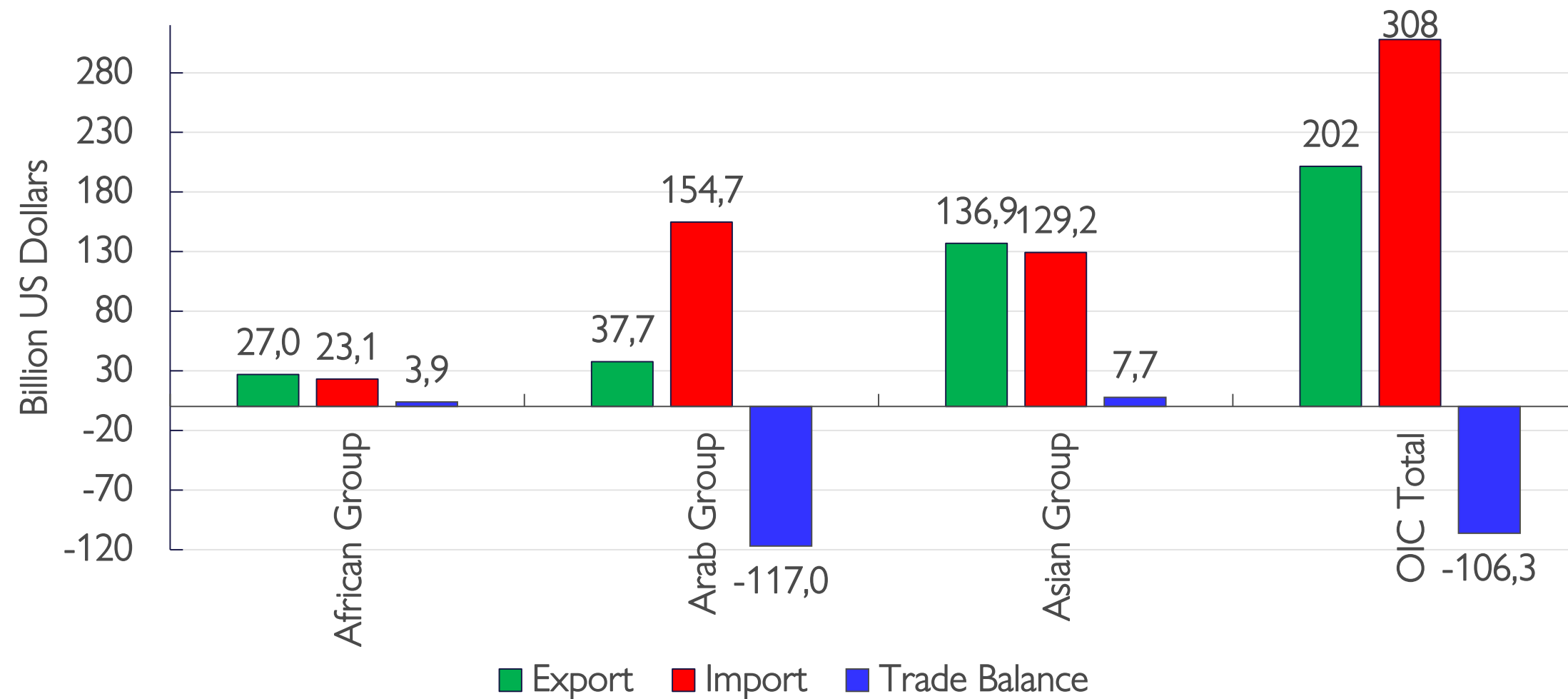


Source: Calculated from <https://www.fao.org/faostat/en/#data/TCL>

1. Macro Agricultural Indicators / Sectorial Indicators

➤ International Trade

Agricultural Products Trade Balance in the OIC by Sub-Regions, 2024



Source: Calculated from <https://www.fao.org/faostat/en/#data/TCL>

1. Macro Agricultural Indicators / Sectorial Indicators

➤ Resource Use (Land)

Land Use in the OIC and its Share in the World (2023)

	Land Area	Agricultural Land	Arable land	Permanent Crops	Permanent Meadows and Pastures
OIC (million ha)	3.137	1417	318	77	1.022
Share in Total Agr. Area (%)	-	100.0	22,44	45,43	72.12
World (million ha)	13.016	4799	1.380	191	3.229
Share of OIC in the World (%)	24.10	29.53	23.04	40.27	31.65

The Shares of Land Use in OIC Sub-Regions (2023)

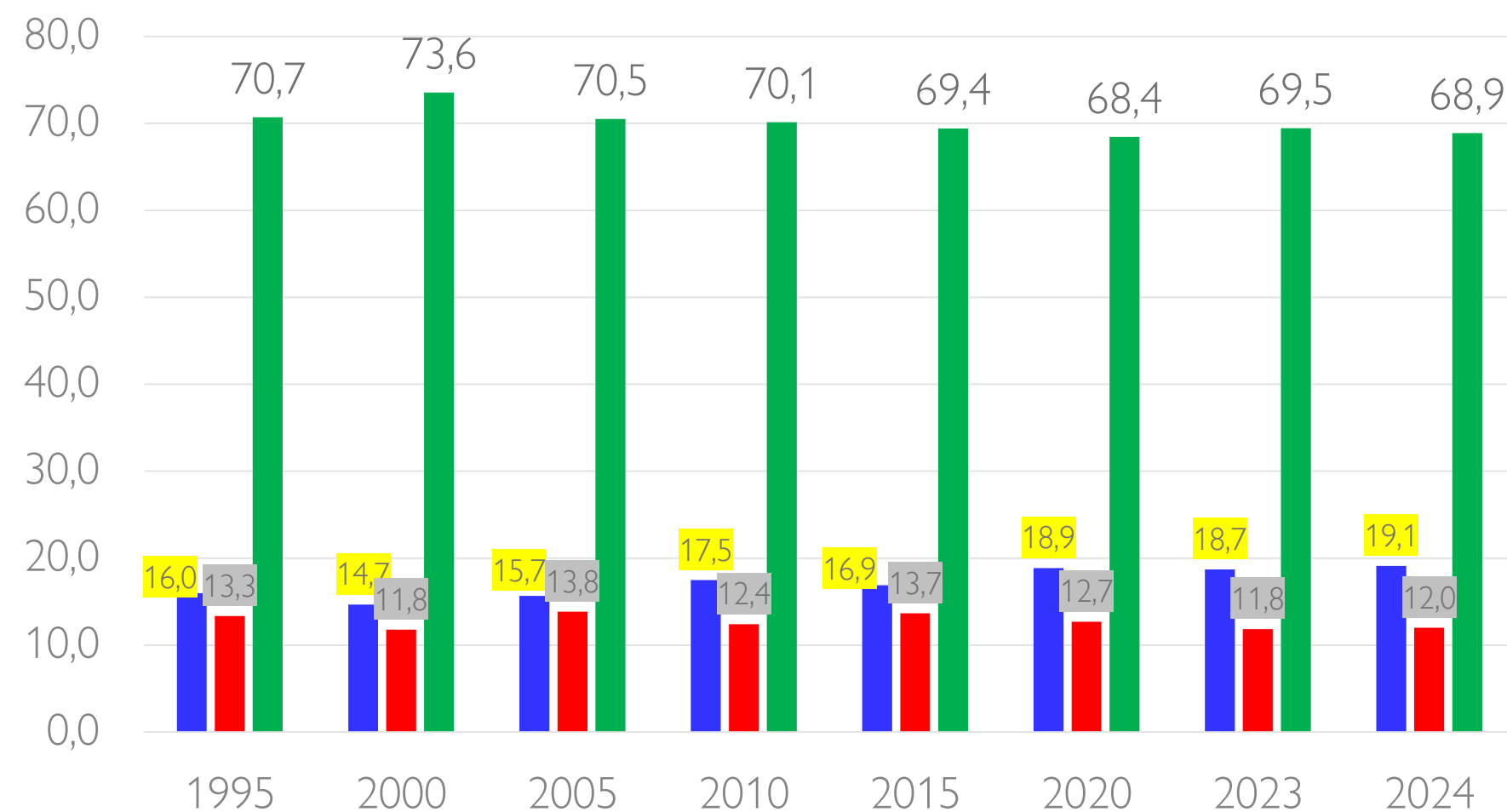
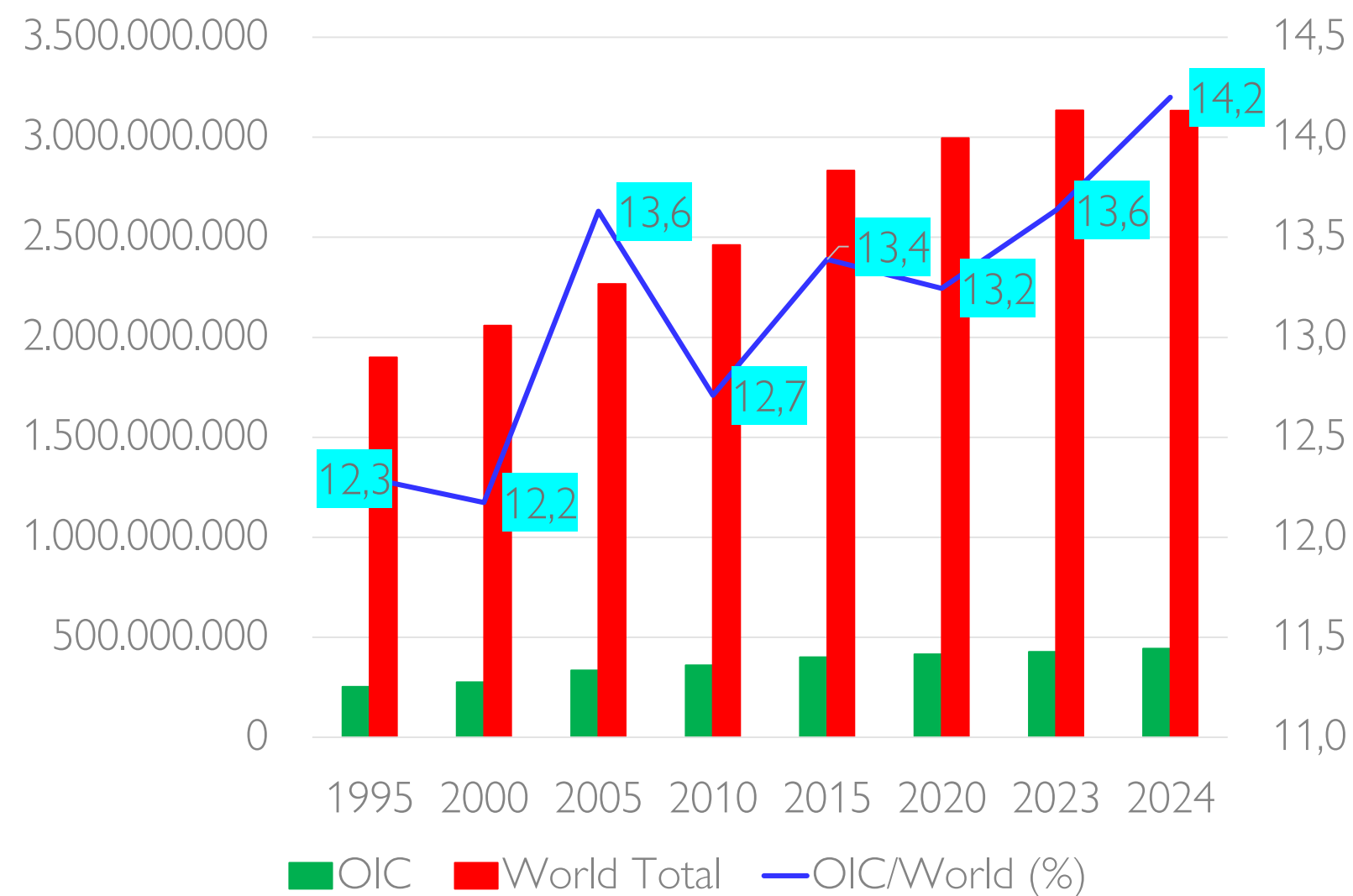
OIC Sub-region (%)	Land Area	Agricultural Land	Arable land	Permanent Crops	Permanent Meadows and Pastures
African Group	24,48	25,48	37,20	32,65	21,30
Arab Group	41,75	36,90	18,59	11,84	44,49
Asian Group	33,77	37,62	44,22	55,51	34,22
OIC Total	100,00	100,00	100,00	100,00	100,00

Source: Calculated from <https://www.fao.org/faostat/en/#data/RL>

1. Macro Agricultural Indicators / Sectorial Indicators

➤ Crop Production

Crop Productions in the OIC and Shares in the World- Cereals (Tonnes -%)



Source: Calculated from <https://www.fao.org/faostat/en/#data/QCL>



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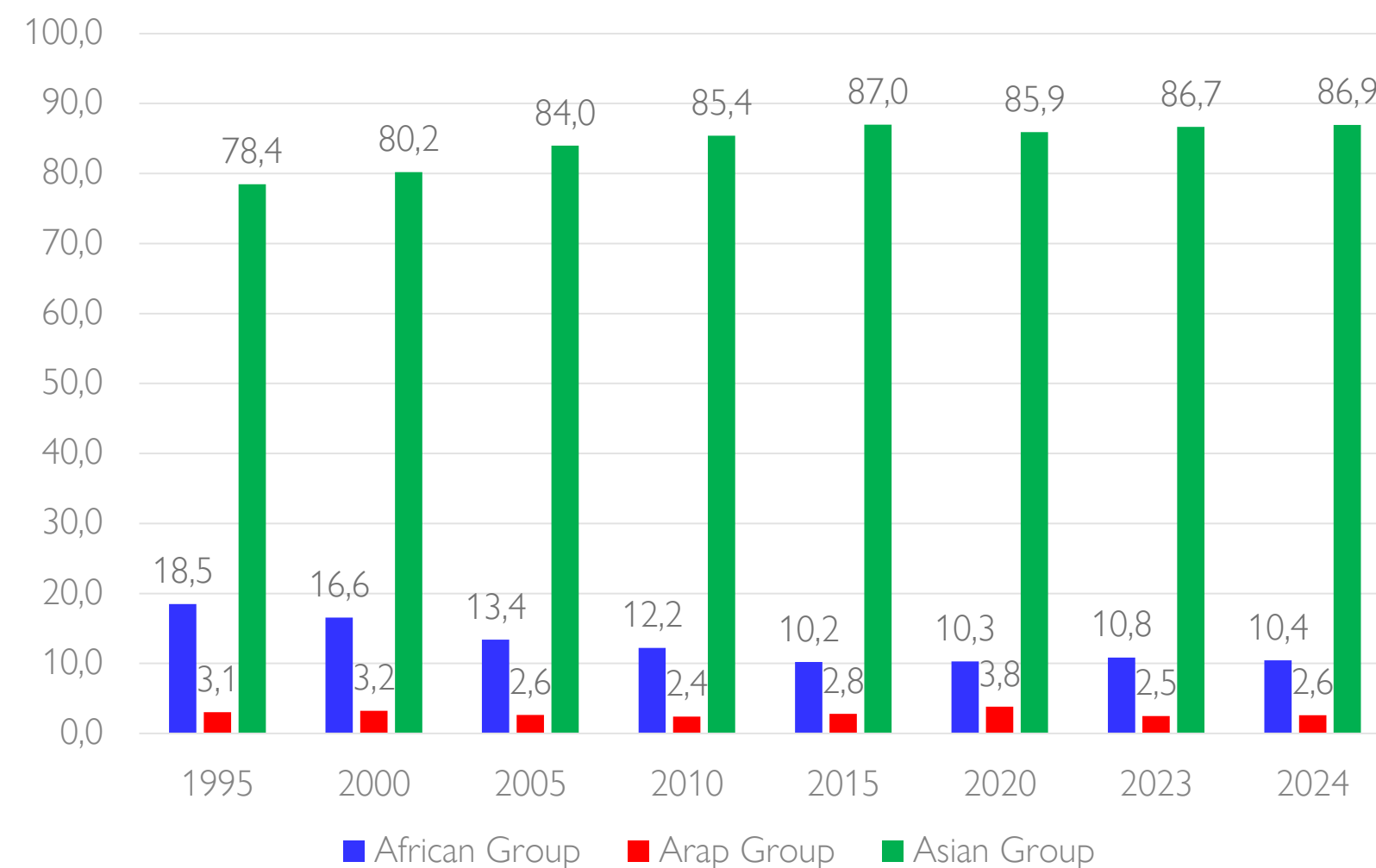
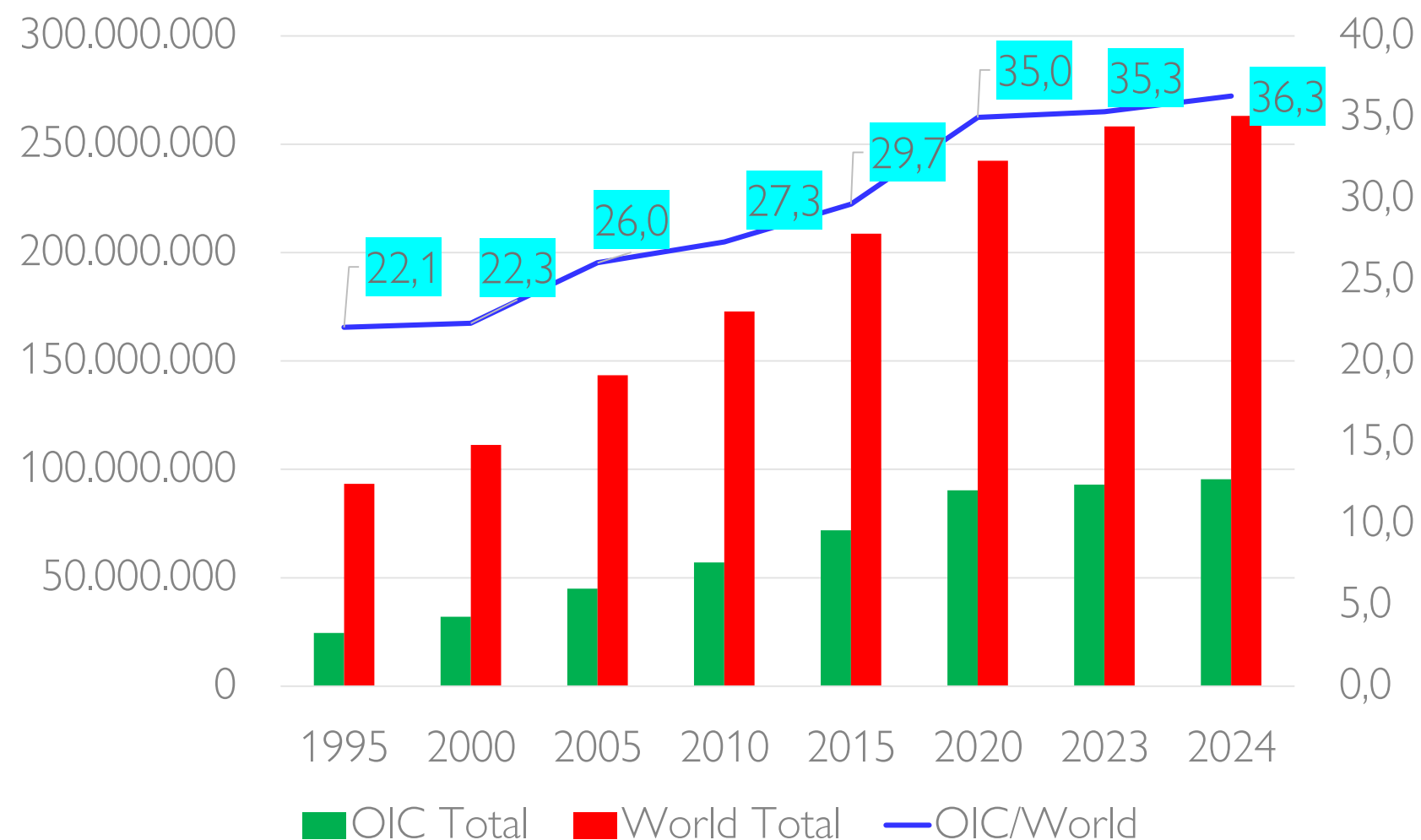
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1. Macro Agricultural Indicators / Sectorial Indicators

➤ Crop Production

Crop Productions in the OIC and Shares in the World- Oilcrops –Oil equivalent- (Tonnes -%)



Source: Calculated from <https://www.fao.org/faostat/en/#data/QCL>



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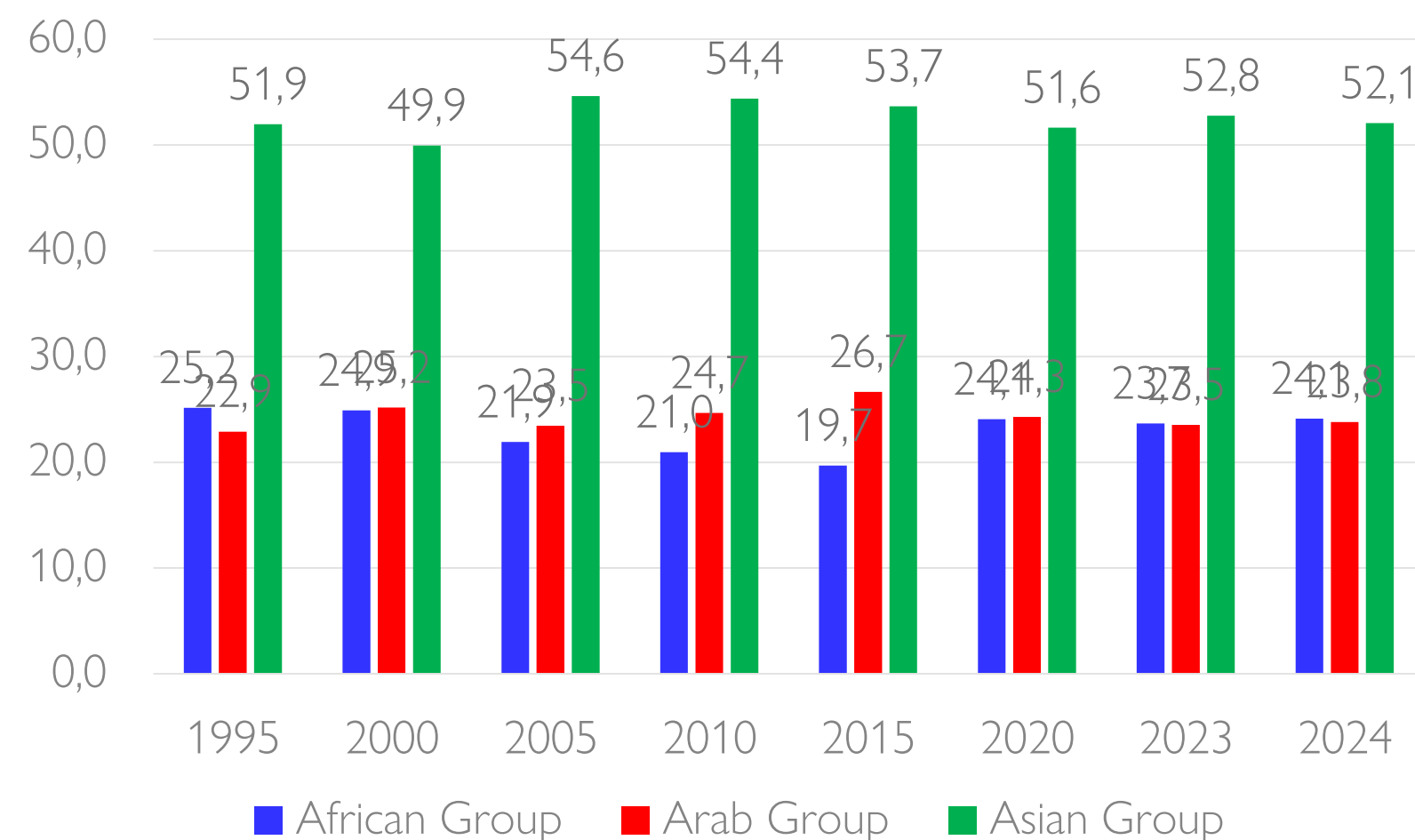
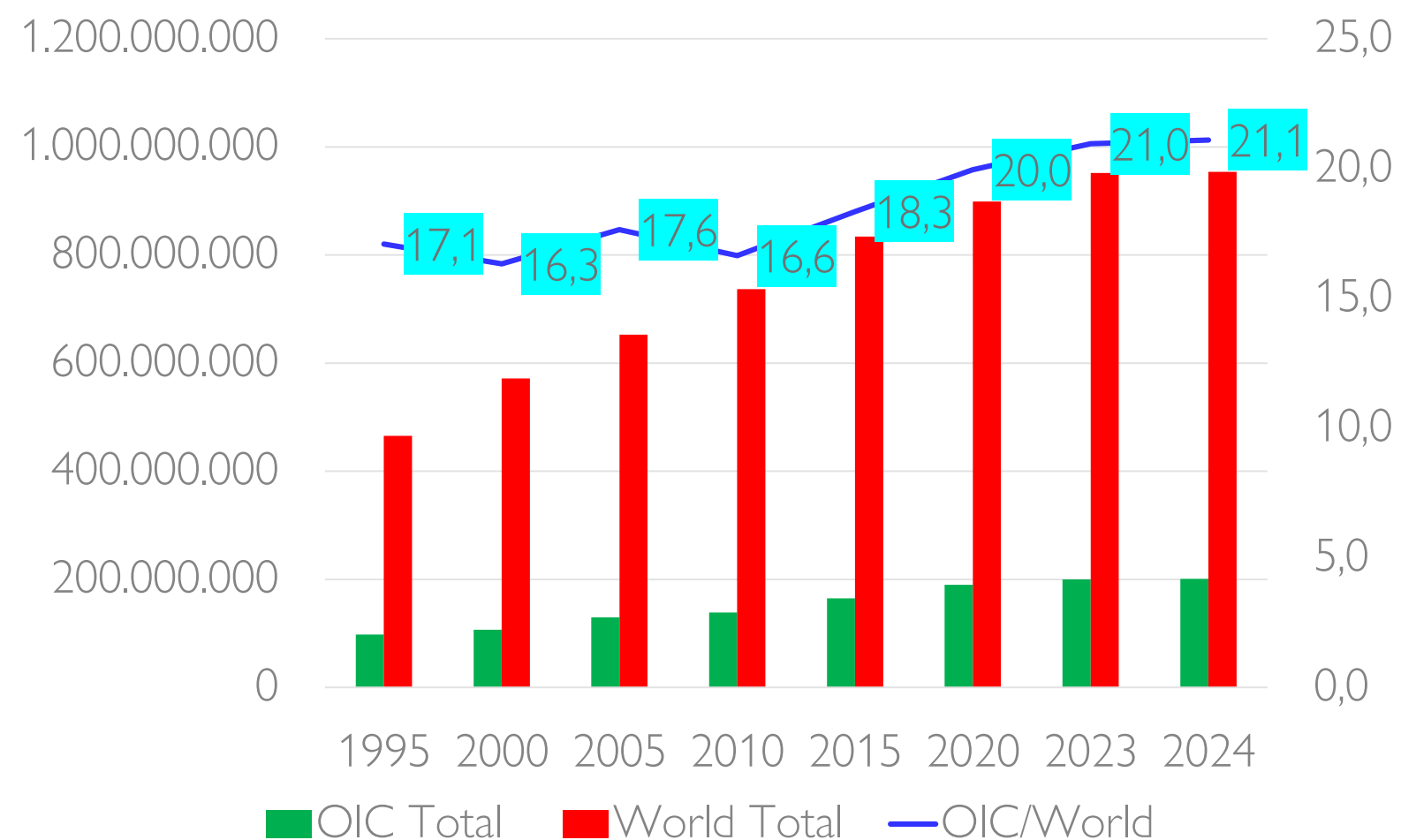
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1. Macro Agricultural Indicators / Sectorial Indicators

➤ Crop Production

Crop Productions in the OIC and Shares in the World- Fruit Tonnes -%)



Source: Calculated from <https://www.fao.org/faostat/en/#data/QCL>



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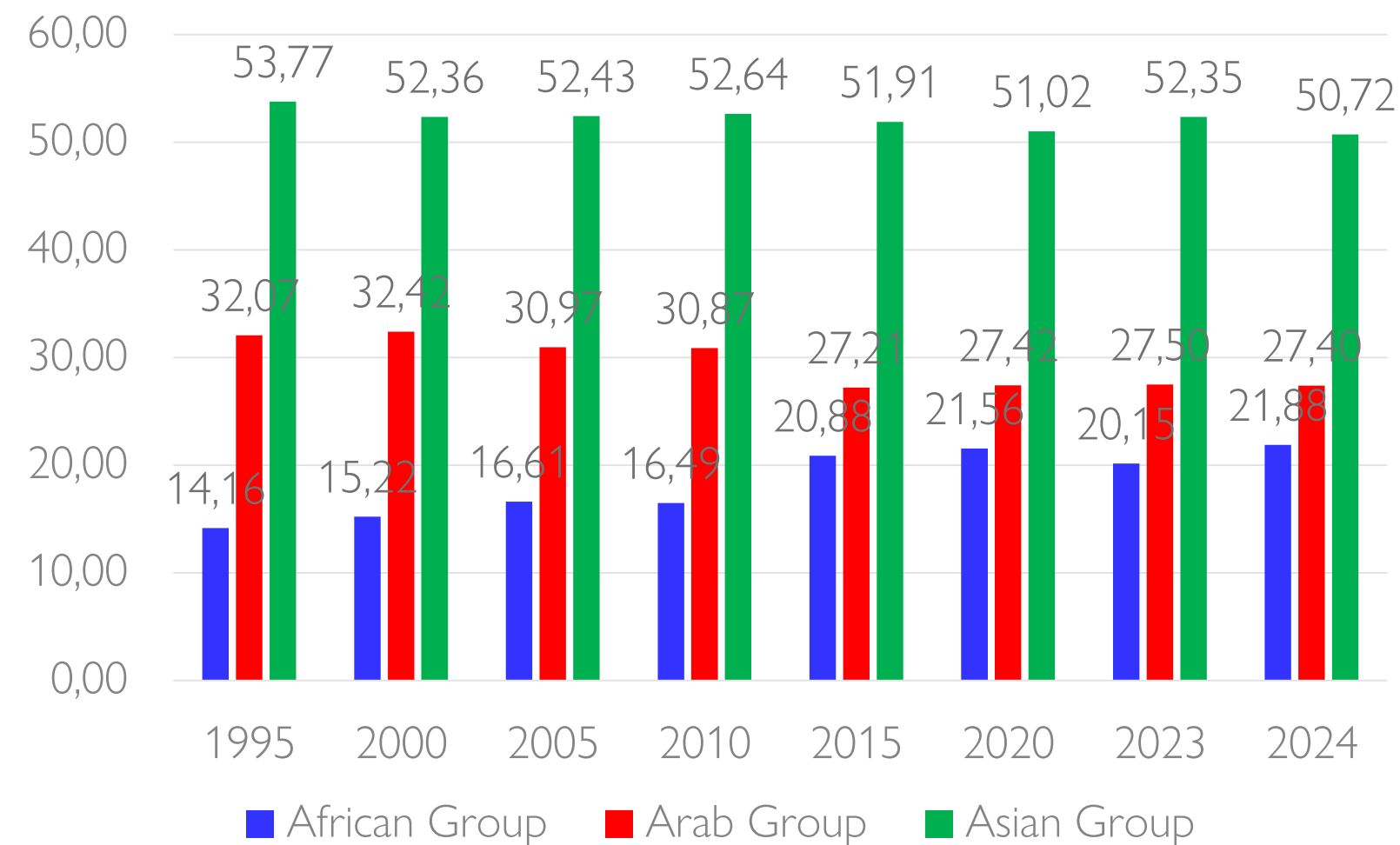
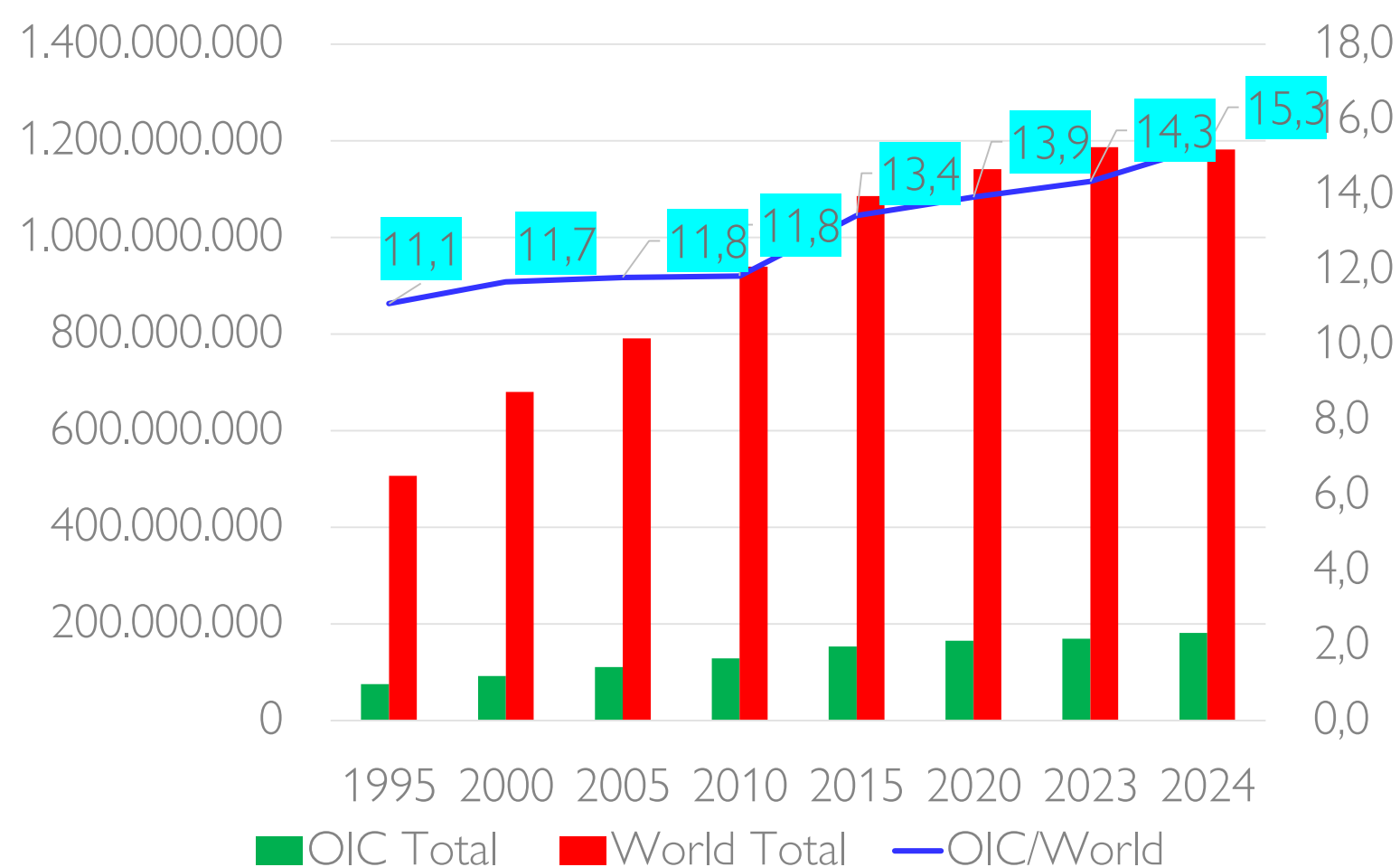
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1. Macro Agricultural Indicators / Sectorial Indicators

➤ Crop Production

Crop Productions in the OIC and Shares in the World- Vegetables Tonnes -%)



Source: Calculated from <https://www.fao.org/faostat/en/#data/QCL>



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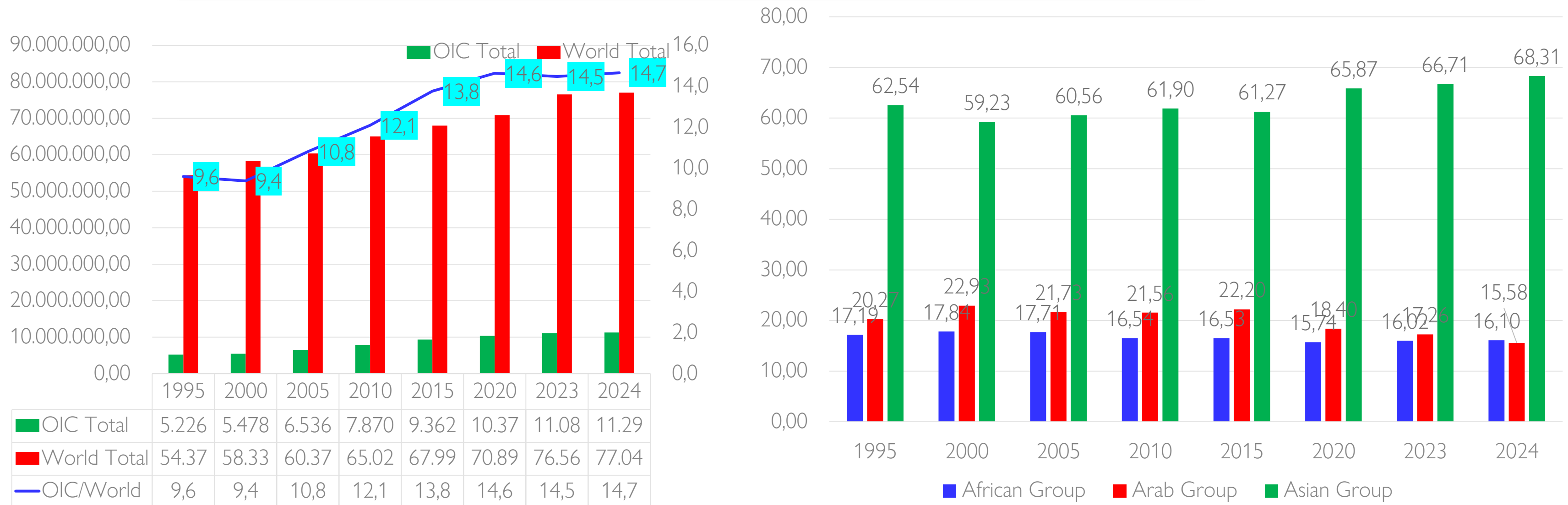
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1. Macro Agricultural Indicators / Sectorial Indicators

➤ Livestock Production

Meat Production in the OIC and the World (Beef and Buffalo Meat)



Source: Calculated from <https://www.fao.org/faostat/en/#data/QCL>



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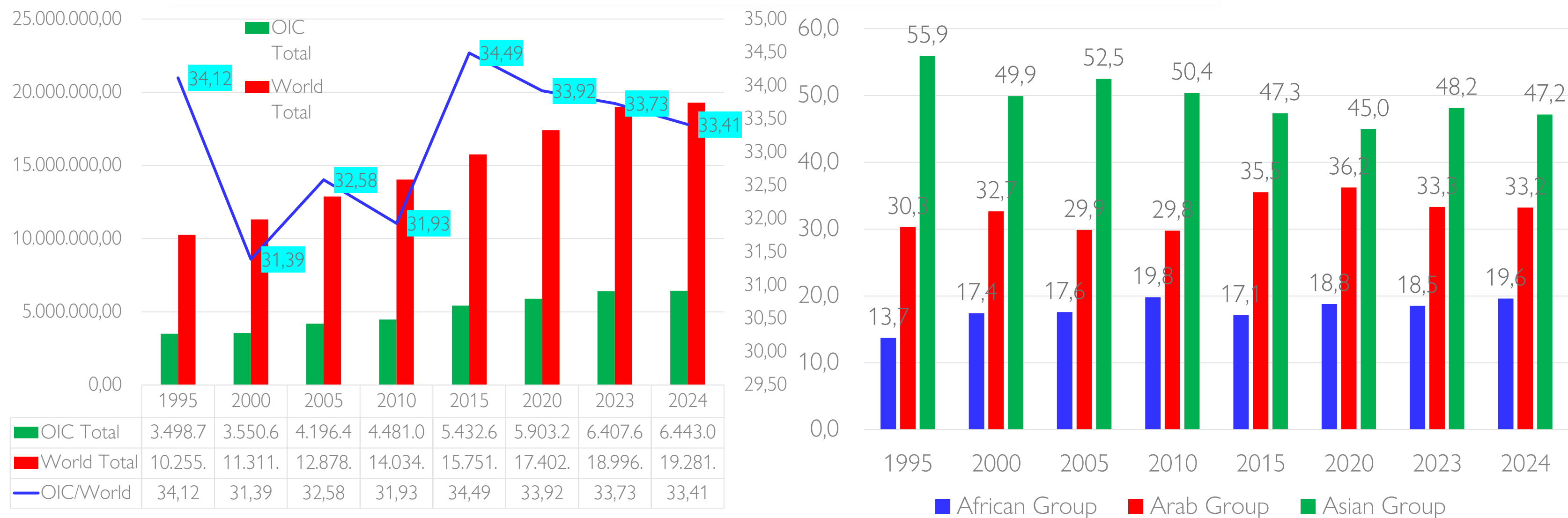
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1. Macro Agricultural Indicators / Sectorial Indicators

➤ Livestock Production

Meat Production in the OIC and the World (Sheep and goat Meat)

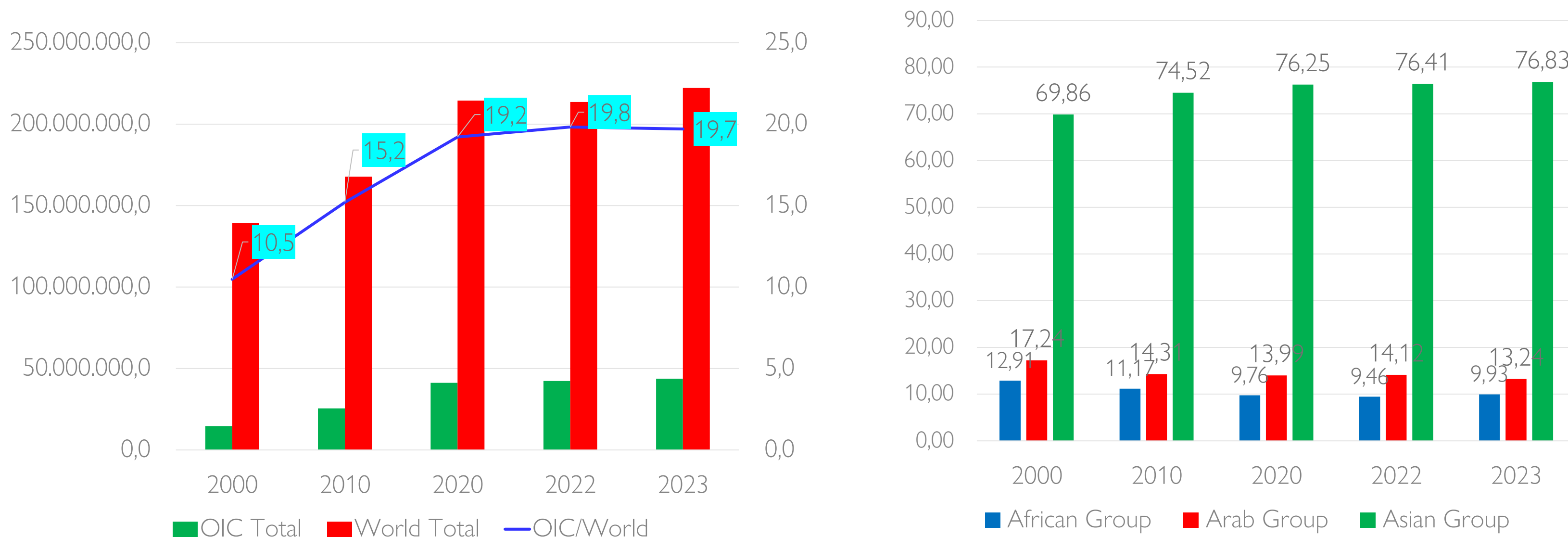


Source: Calculated from <https://www.fao.org/faostat/en/#data/QCL>

1. Macro Agricultural Indicators / Sectorial Indicators

➤ Fishery Production

Fisheries Production in the OIC and the World (Metric Tonnes and %)



Source: Calculated from <https://databank.worldbank.org/source/world-development-indicators#>



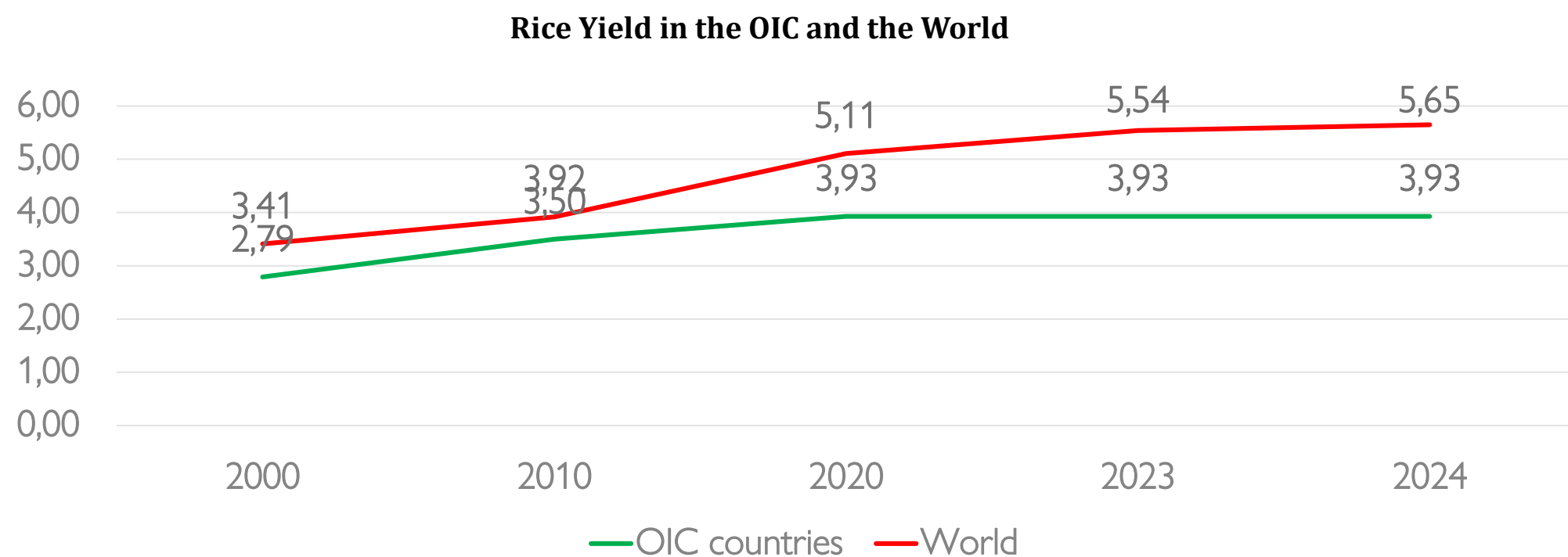
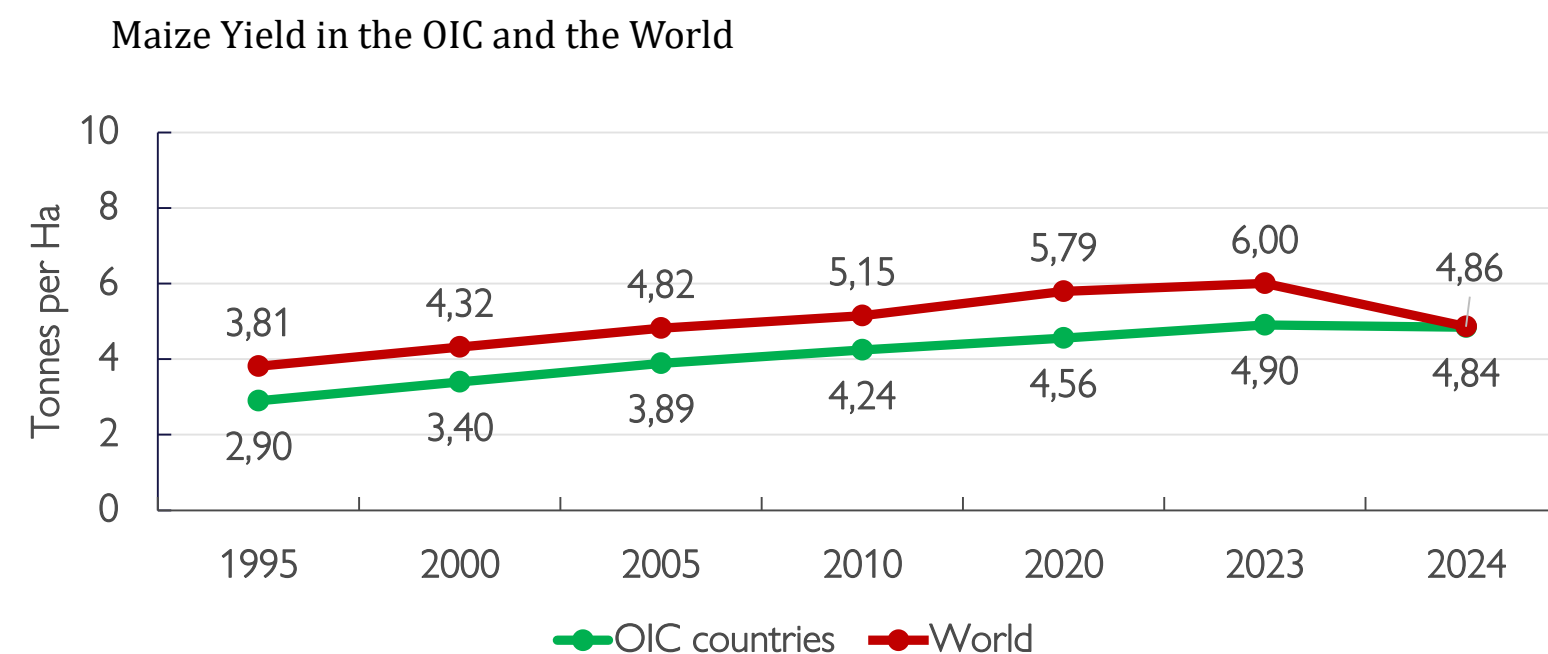
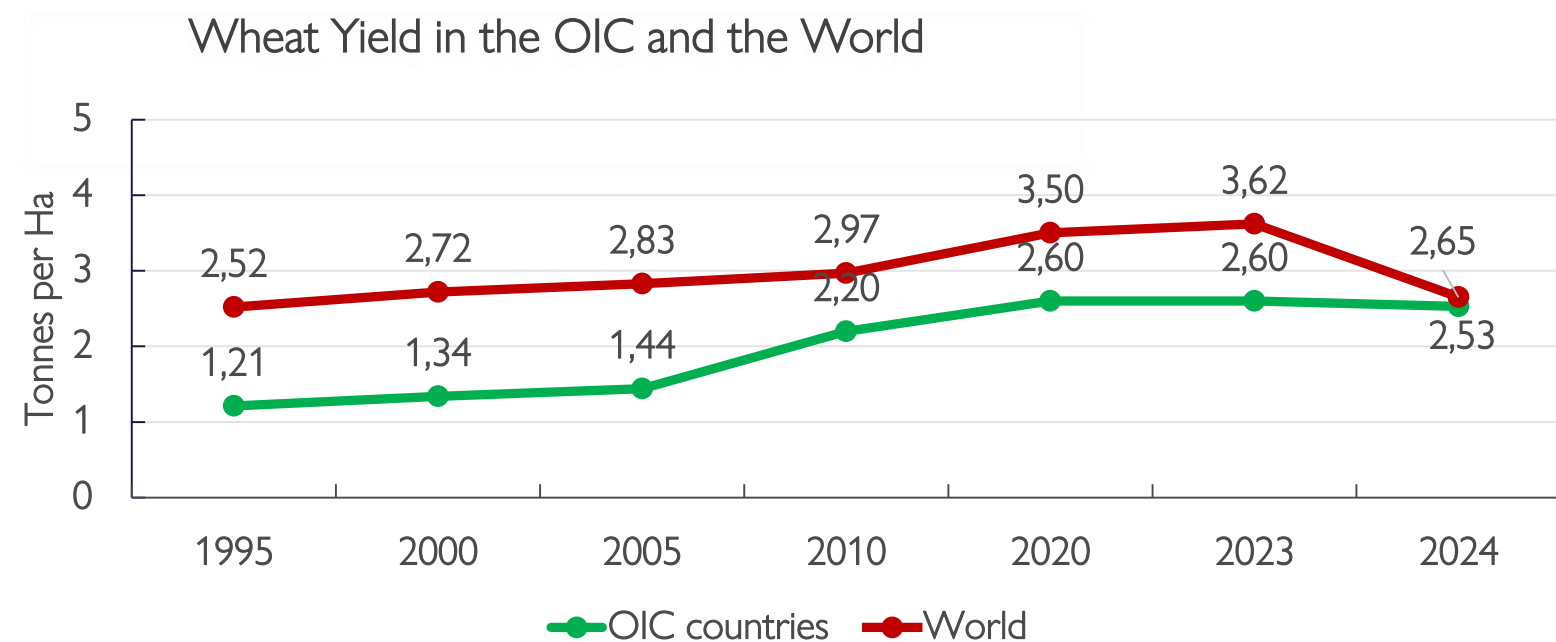
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1. Macro Agricultural Indicators / Sectorial Indicators

➤ Agricultural Productivity-Many Crops



Source: calculated from <https://www.fao.org/faostat/en/#data/QCL>

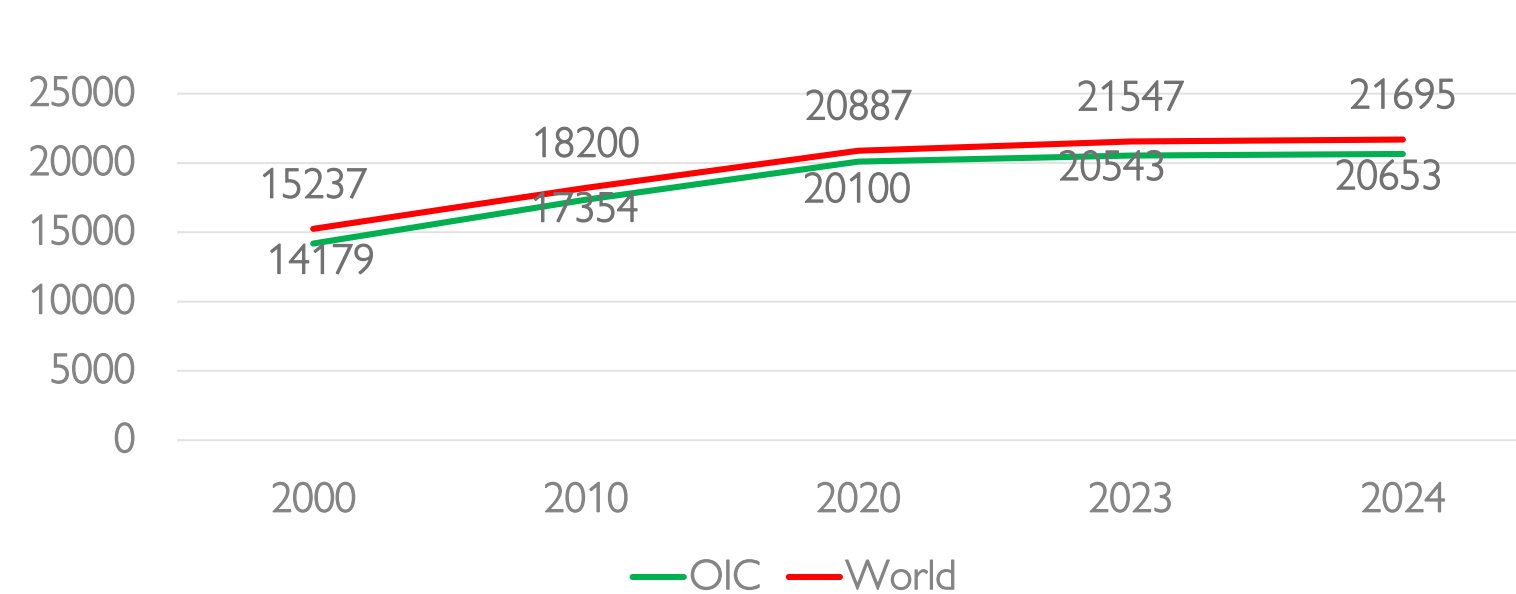
1. Macro Agricultural Indicators / Sectorial Indicators

➤ Agricultural Productivity-Many Crops

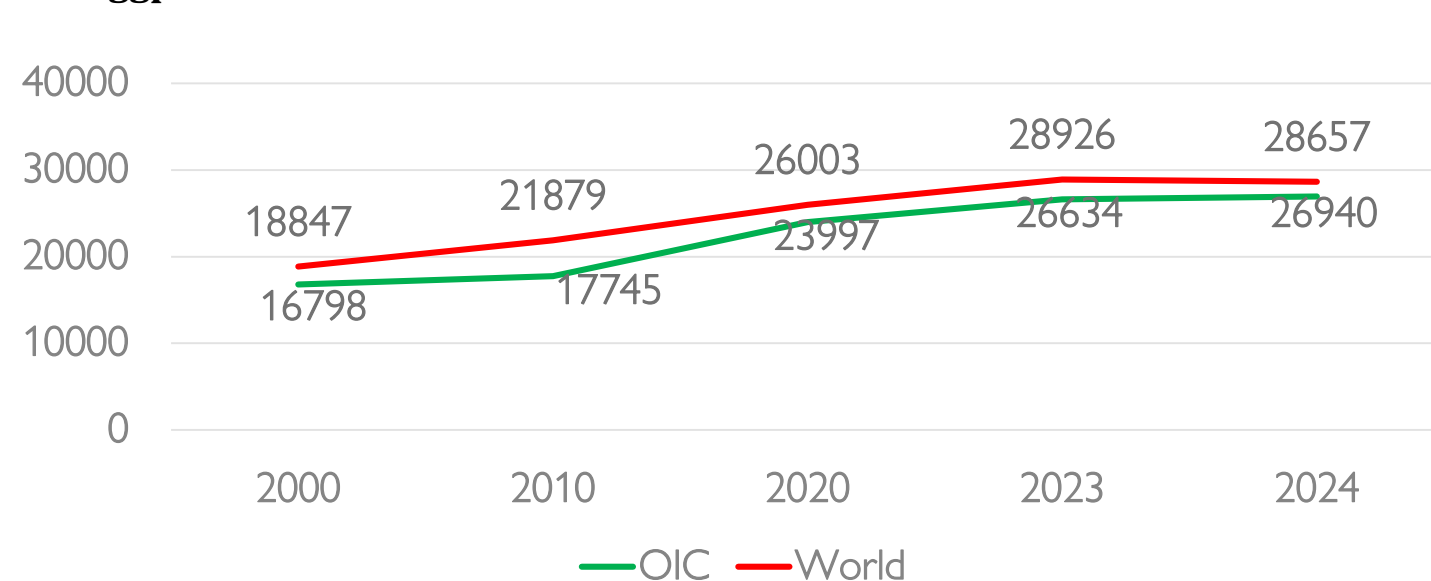
Orange Yield (kg/ha) in the OIC and the World



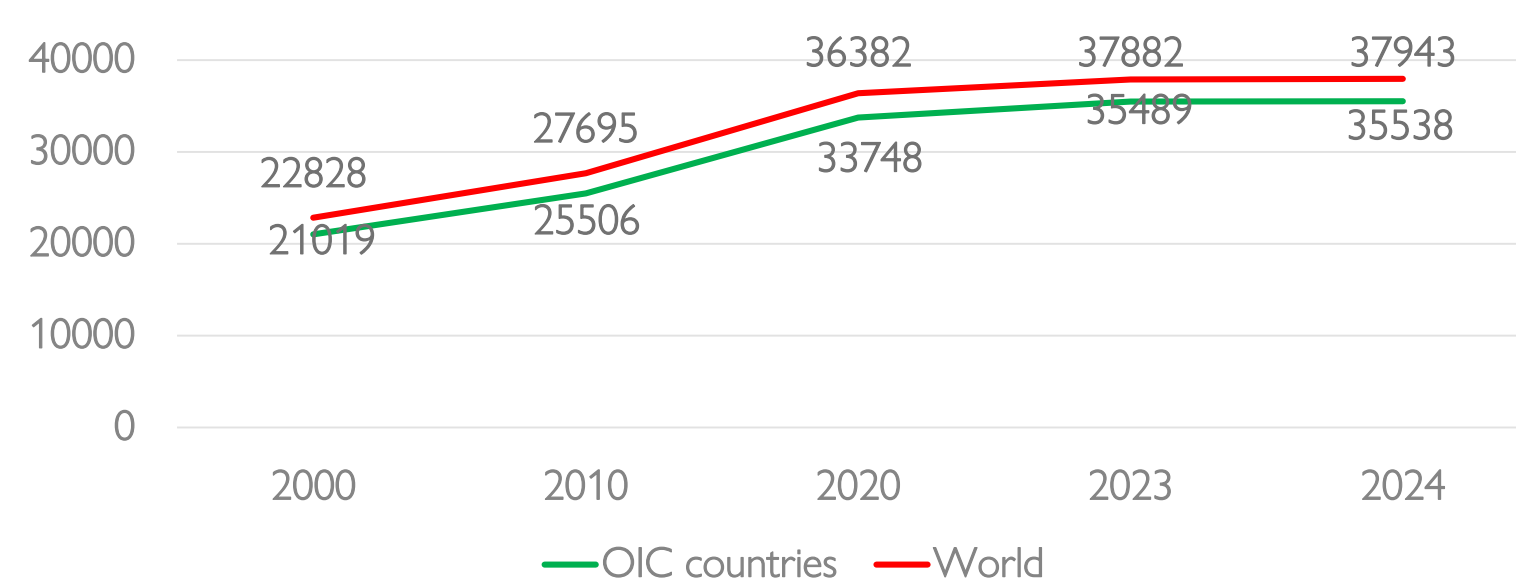
Potatoes Yield in the OIC and the World



Eggplants Yield in the OIC and the World



Tomatoes Yield in the OIC and the World



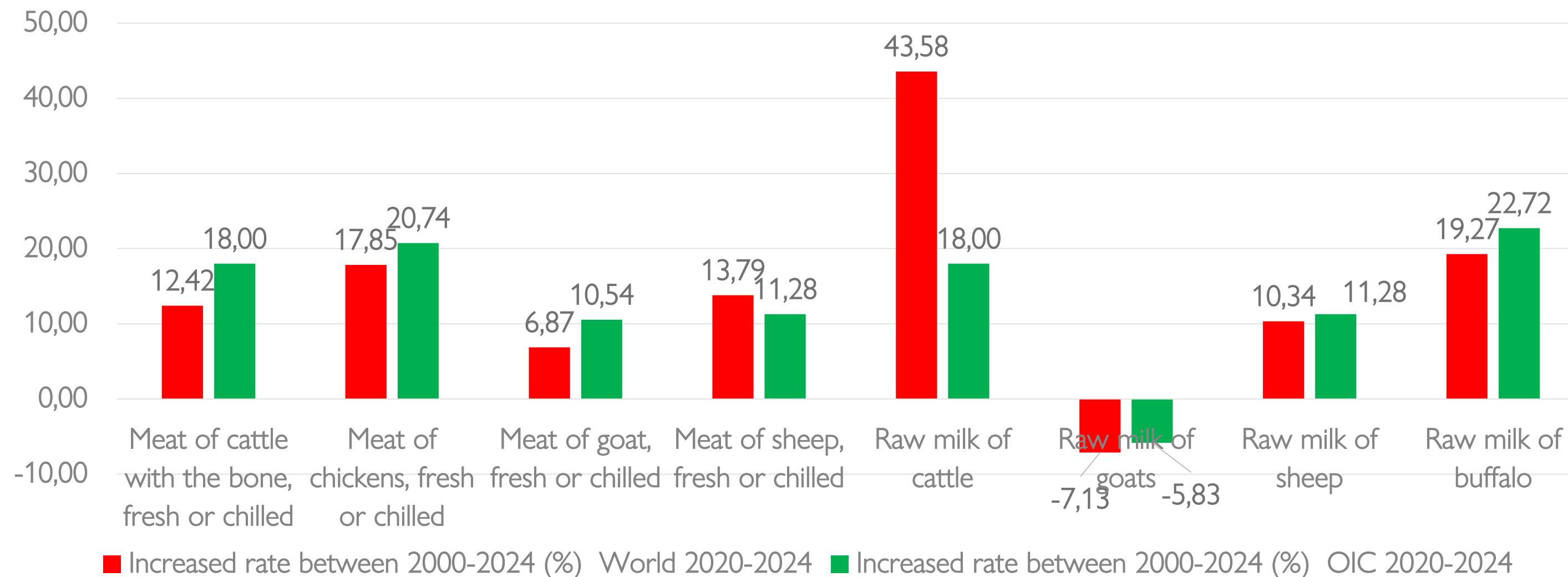
Source: calculated from <https://www.fao.org/faostat/en/#data/QCL>



1. Macro Agricultural Indicators / Sectorial Indicators

➤ Livestock Production

Increased rate of Meat Productivity in the OIC and World (2000-2024)

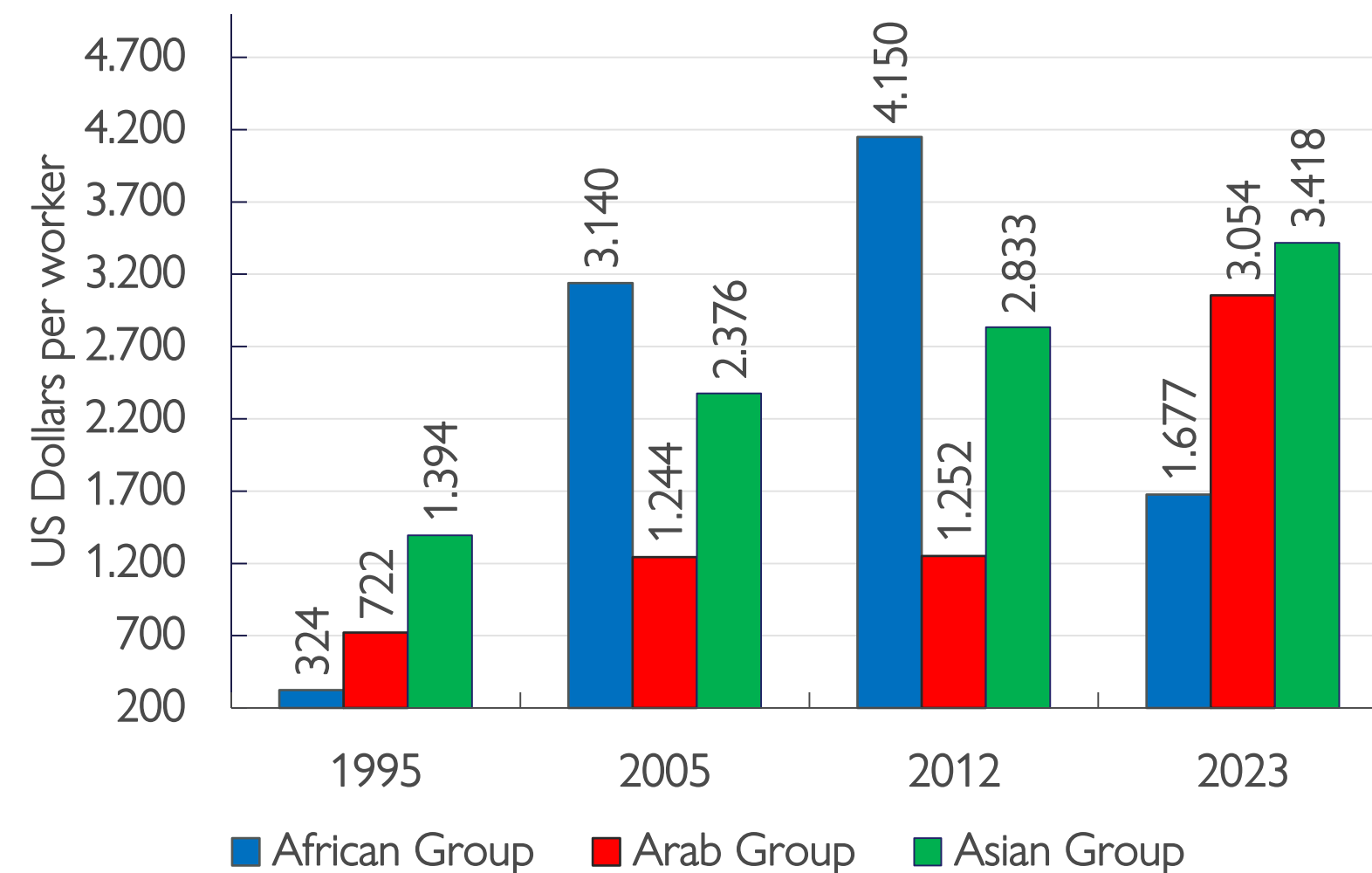
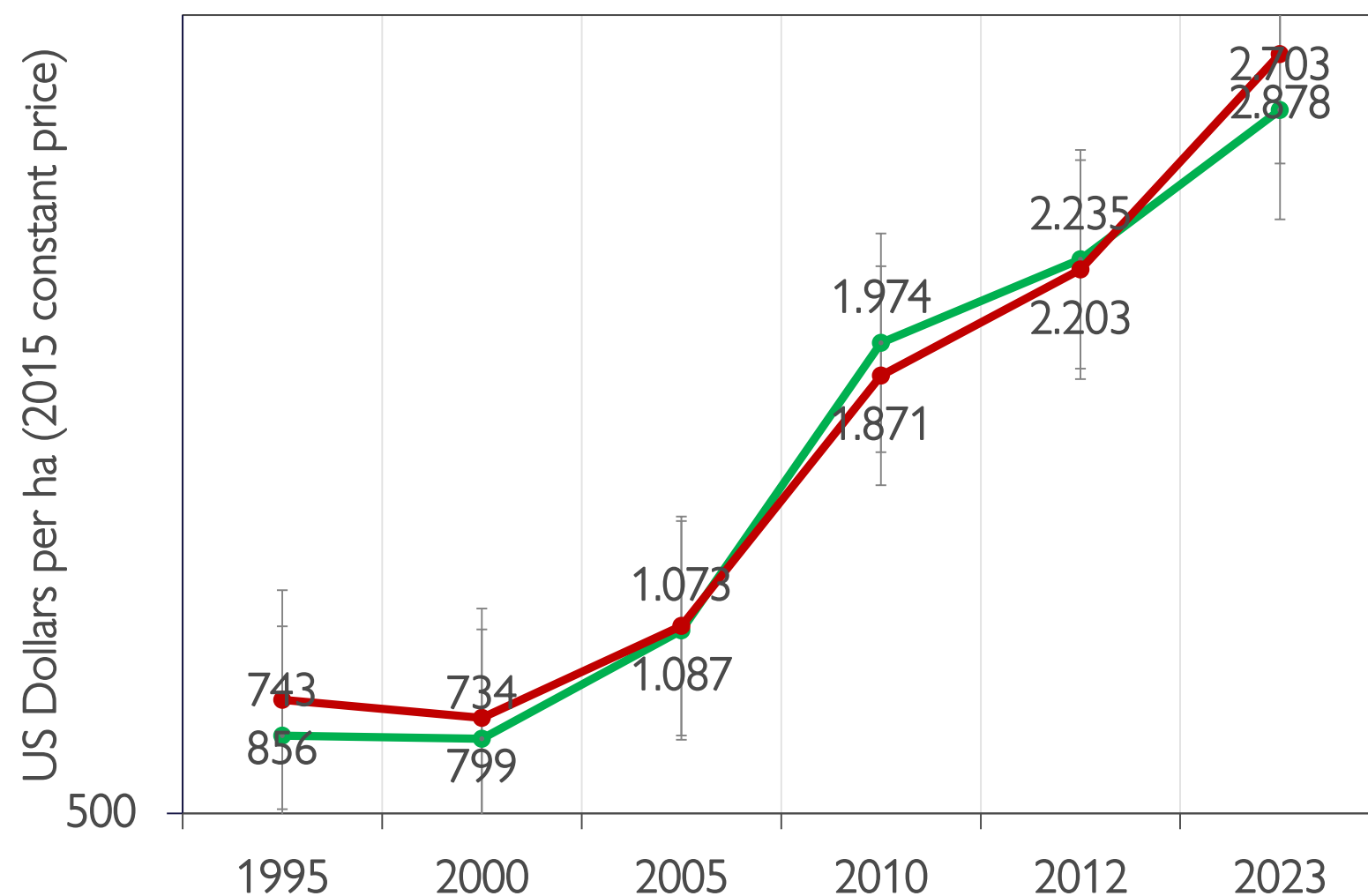


Source: Calculated from <https://www.fao.org/faostat/en/#data/QCL>

1. Macro Agricultural Indicators / Sectorial Indicators

➤ Agricultural Productivity-Land

Land Productivity in the OIC and World (Agr. GDP at 2015 constant prices, US Dollar per hectare)

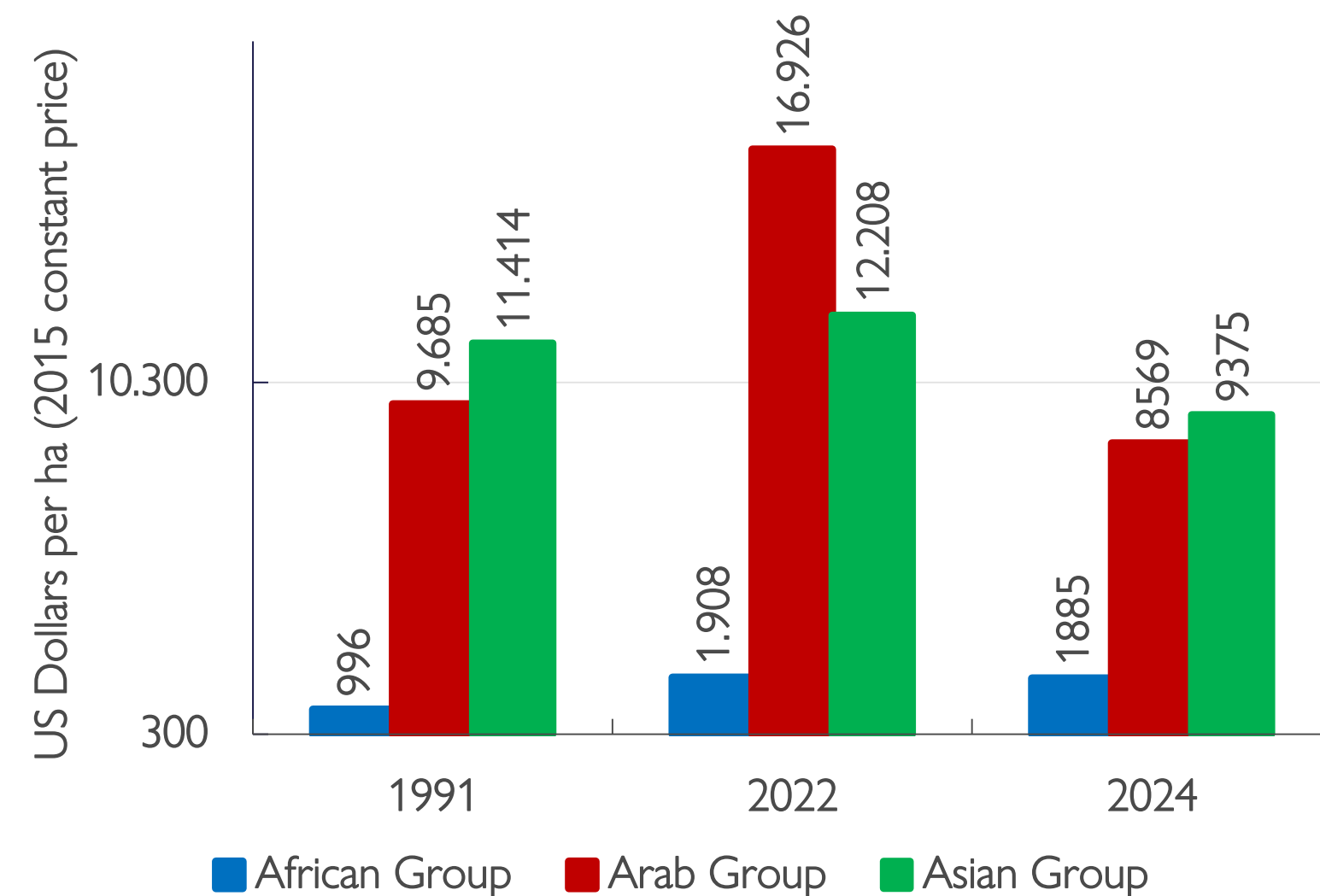
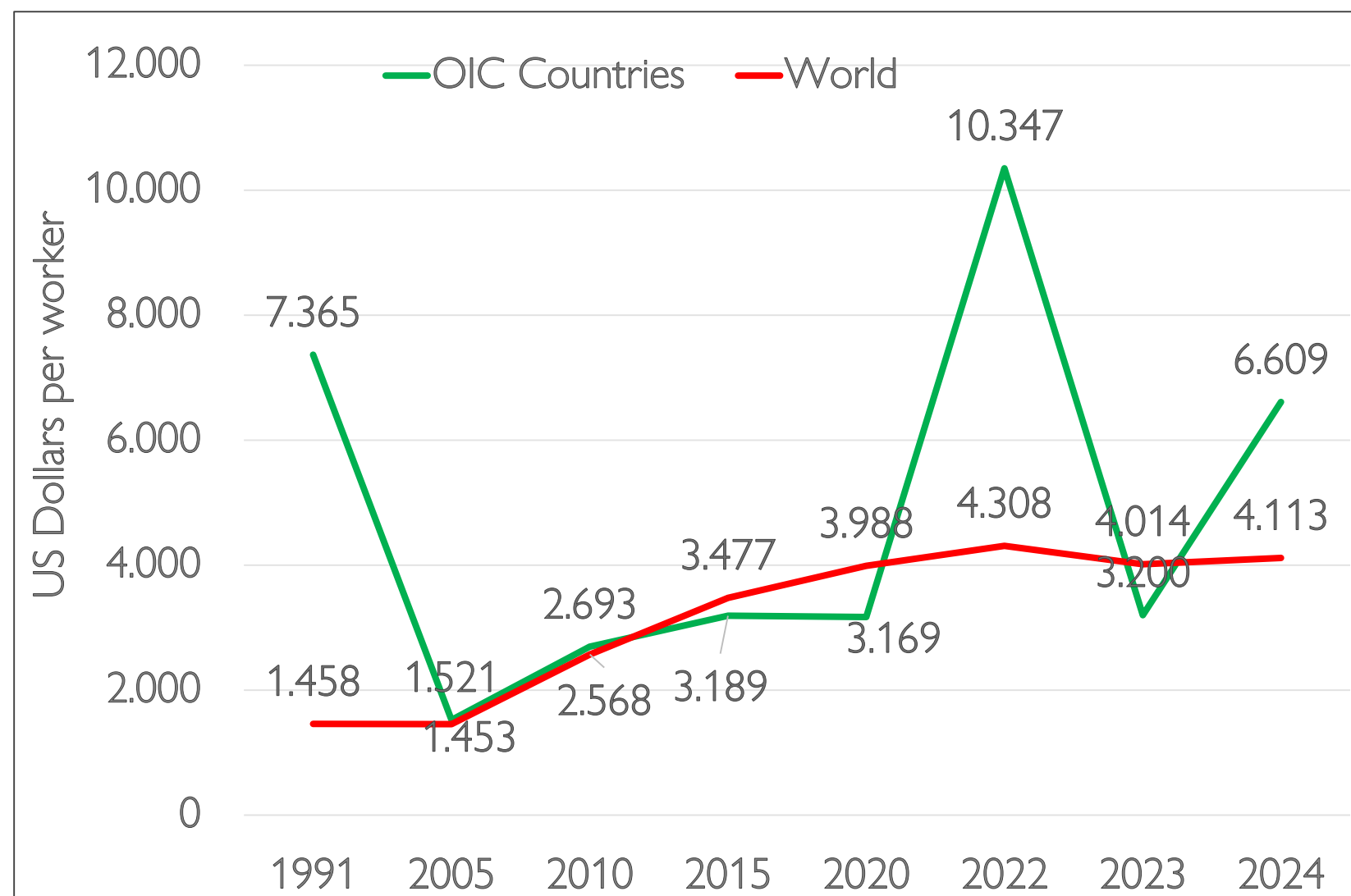


Source: <https://www.fao.org/faostat/en/#data/QCL>

1. Macro Agricultural Indicators / Sectorial Indicators

➤ Resource Use-Labor Productivity

Agricultural Labor Productivity in the OIC and World (US Dollars Per Worker -2015 constant Prices US Dollar)



Source: World Development Indicator
<https://ourworldindata.org/grapher/agriculture-value-added-per-worker-wdi>



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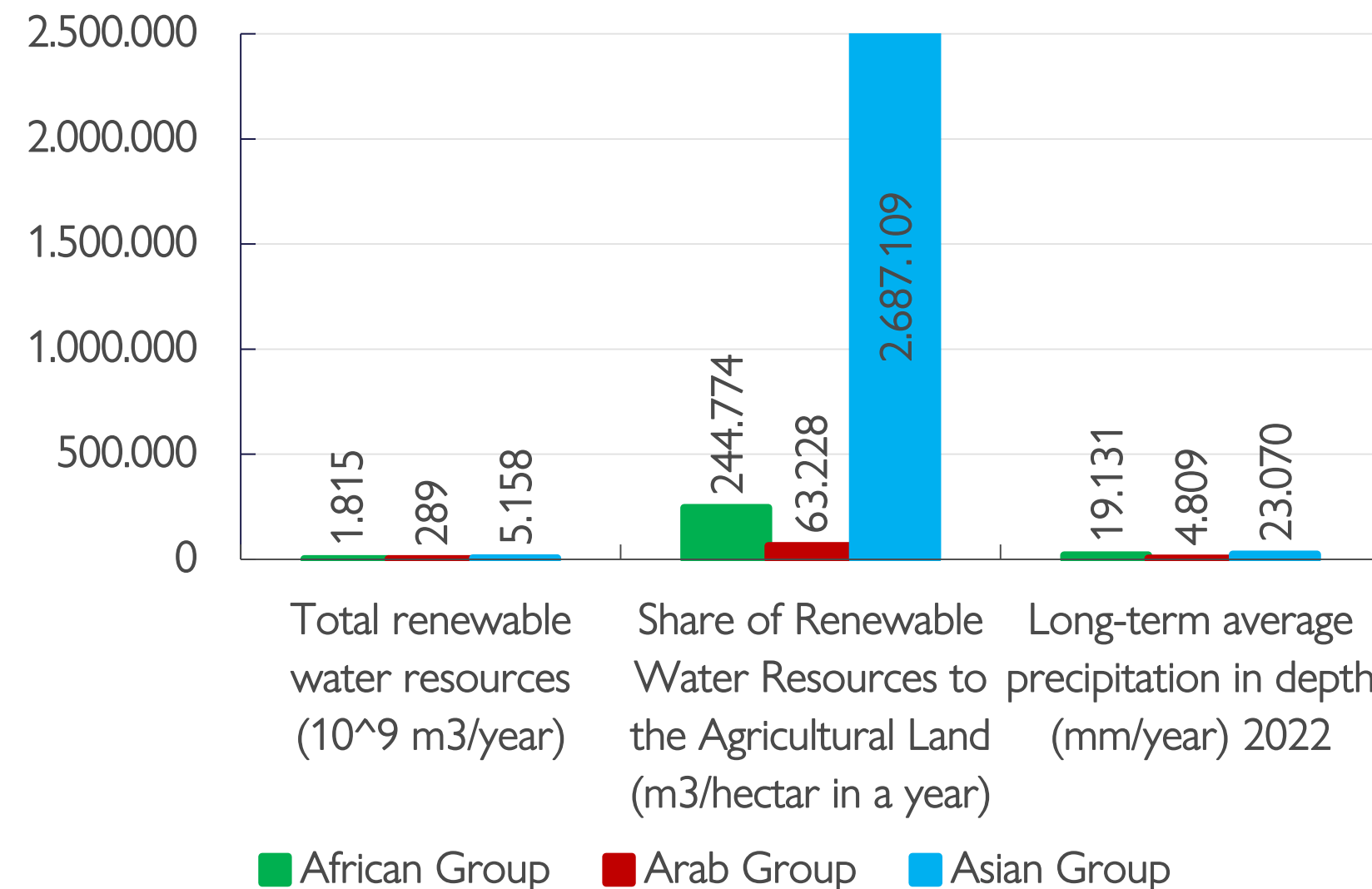
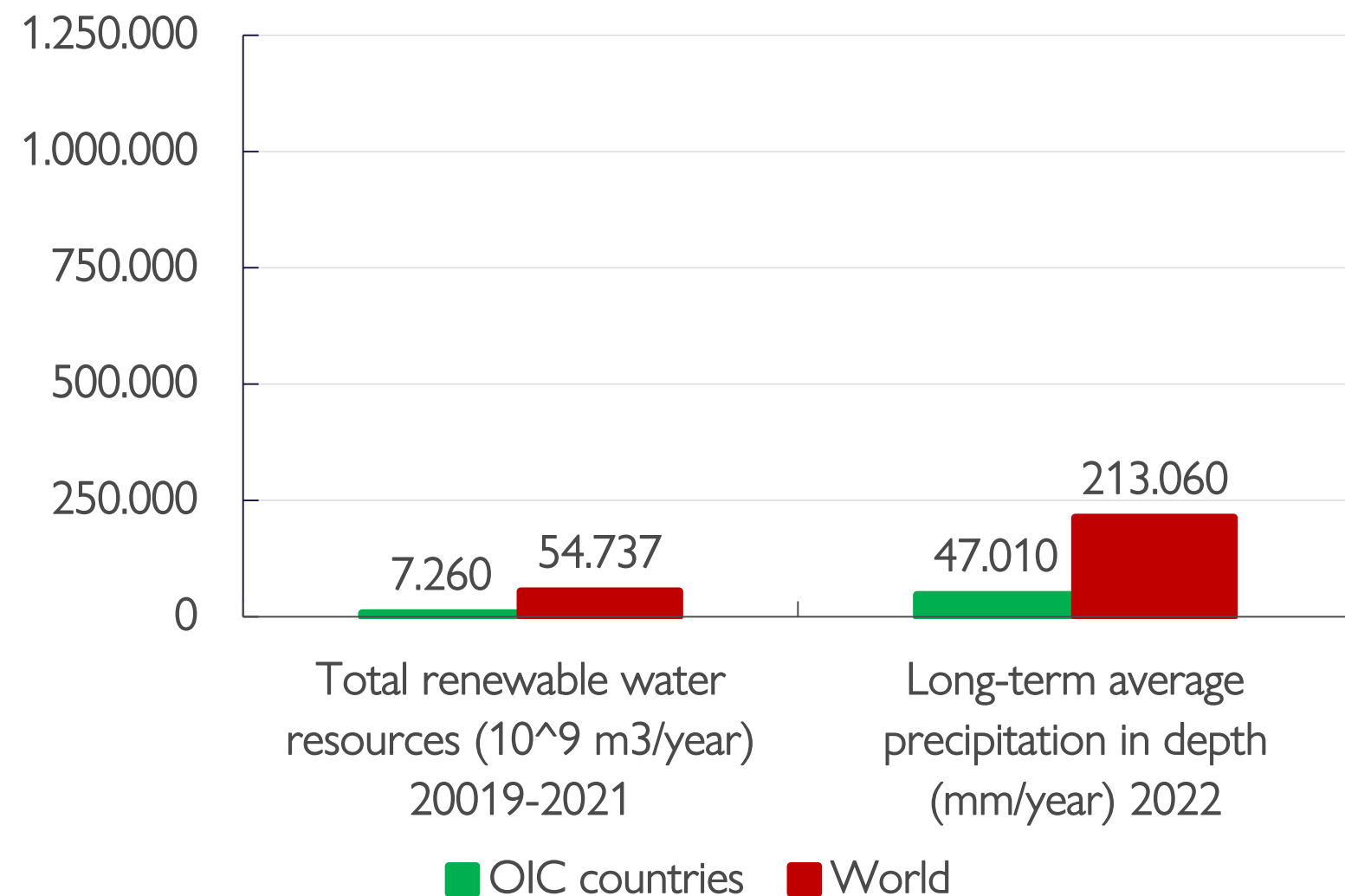
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1. Macro Agricultural Indicators / Sectorial Indicators

➤ Resource Use-Water

Renewable Water Potential in the OIC and OIC by Sub-Regions



Source: <https://data.apps.fao.org/aquastat/?lang=en&share=f-f8046cee-bff4-450a-9ce3-f5ee40bf5ffd>

1. Macro Agricultural Indicators / Sectorial Indicators

➤ Resource Use-Water resources by top countries

Renewable Water-Rich OIC Member Countries (2022)

Renewable Water-Rich Country (Top 10)		Renewable Water Resources Per Hectare (m ³ /ha)
1	Indonesia	2.018,70
2	Bangladesh	1.227,03
3	Malaysia	580,00
4	Guyana	271,00
5	Cameroon	283,15
6	Nigeria	286,20
7	Pakistan	246,00
8	Guinea	226,00
9	Mozambique	217,00
10	Türkiye	211,60

Renewable Water-Poor OIC Member Countries (2022)

Renewable Water-poor Country (Top 10)		Renewable Water Resources Per Hectare (m ³ /ha)
1	Kuwait	0,02
2	Maldives	0,03
3	Qatar	0,06
4	United Arab Emirates	0,15
5	Bahrain	0,12
6	Djibouti	0,30
7	Libya	0,70
8	Palestine	0,84
9	Jordan	0,94
10	Comoros	1,20

Source: <https://data.apps.fao.org/aquastat/?lang=en&share=f-f8046cee-bff4-450a-9ce3-f5ee40bf5ffd>



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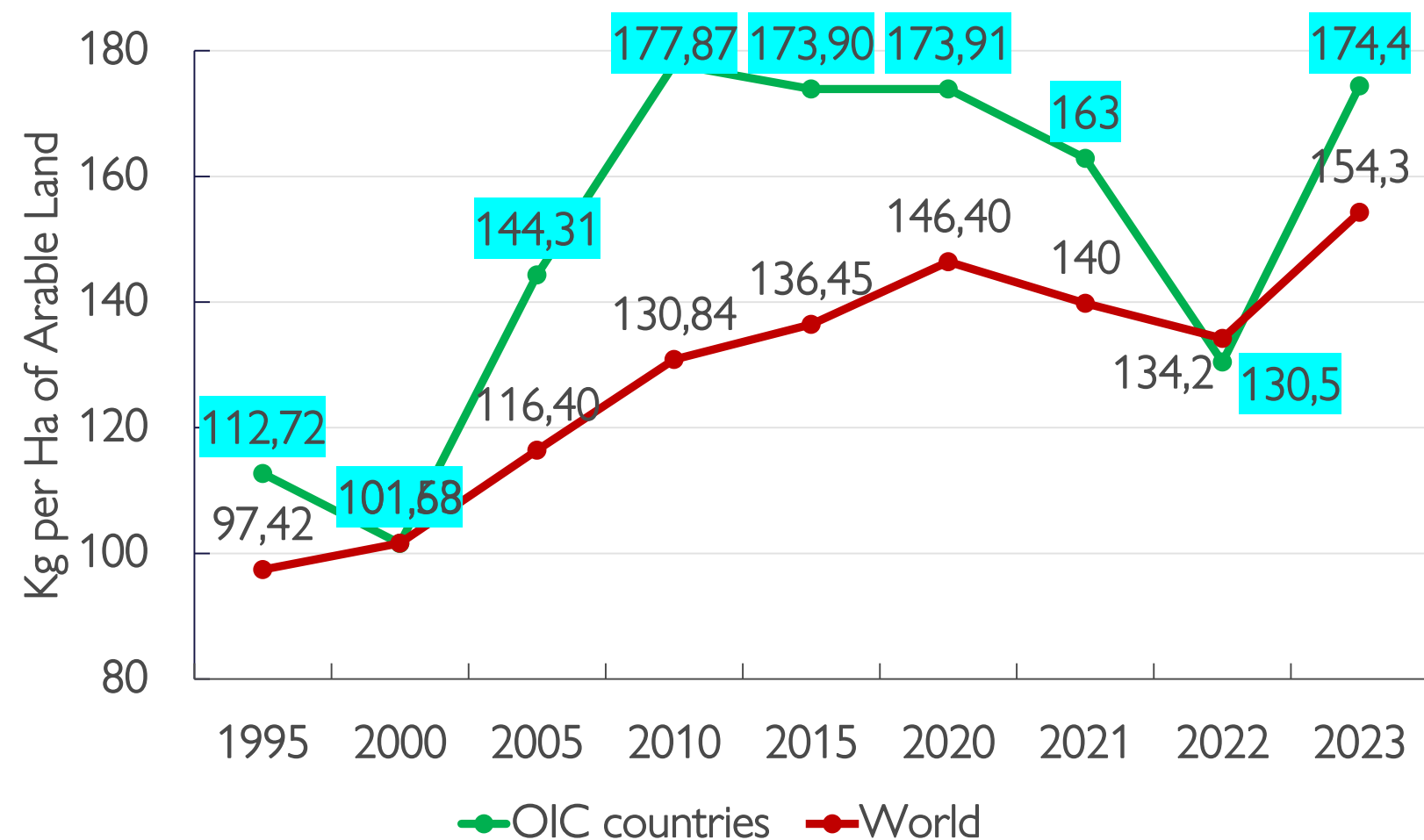
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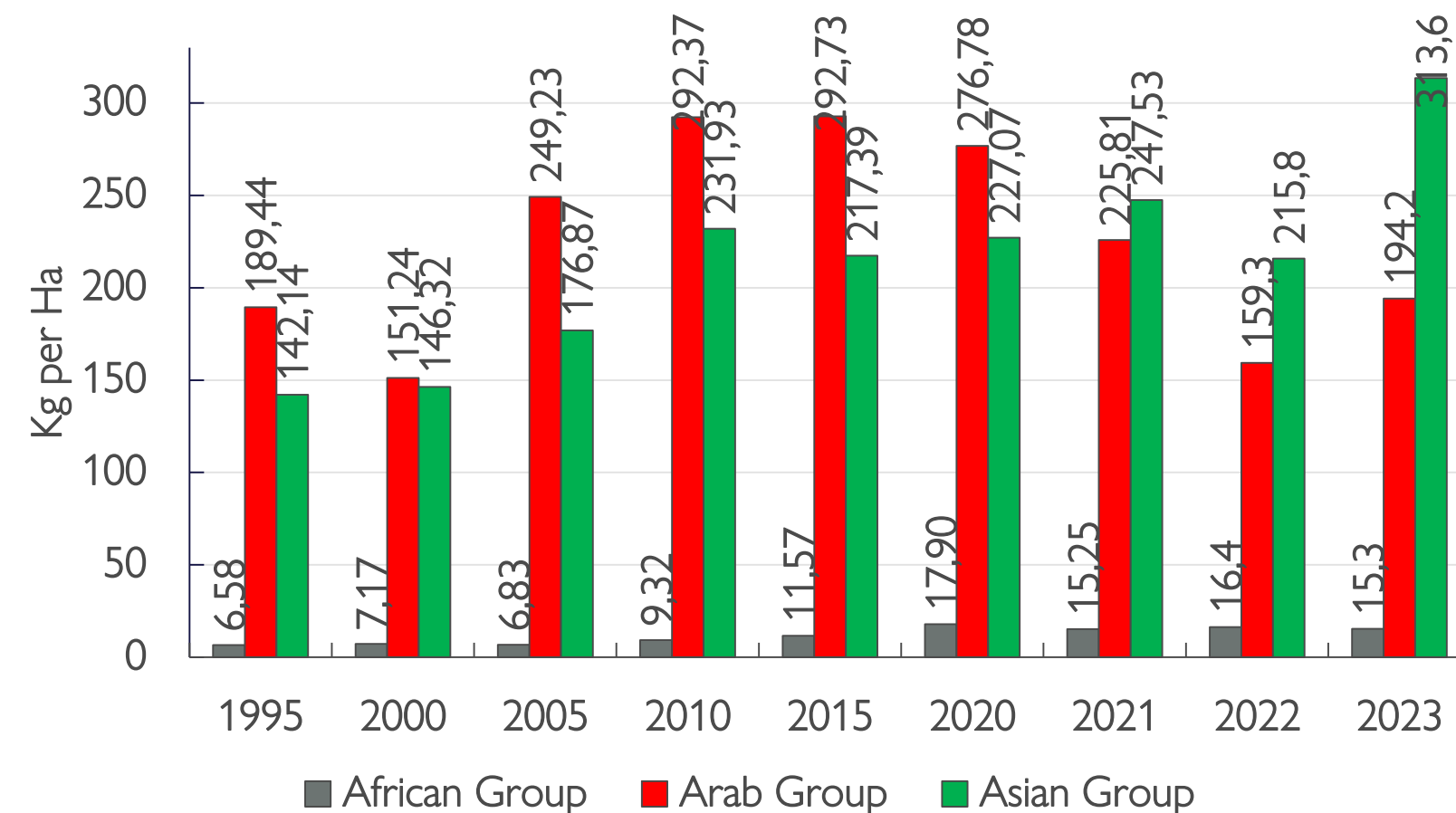
1. Macro Agricultural Indicators / Sectorial Indicators

➤ Resource Use-Fertilizer

Fertilizer Consumption in the OIC and the World



Fertilizer Consumption in the OIC by sub-Regions



Source: <https://databank.worldbank.org/source/world-development-indicators#>
<https://statbase.org/datasets/agriculture/fertilizer-consumption/>



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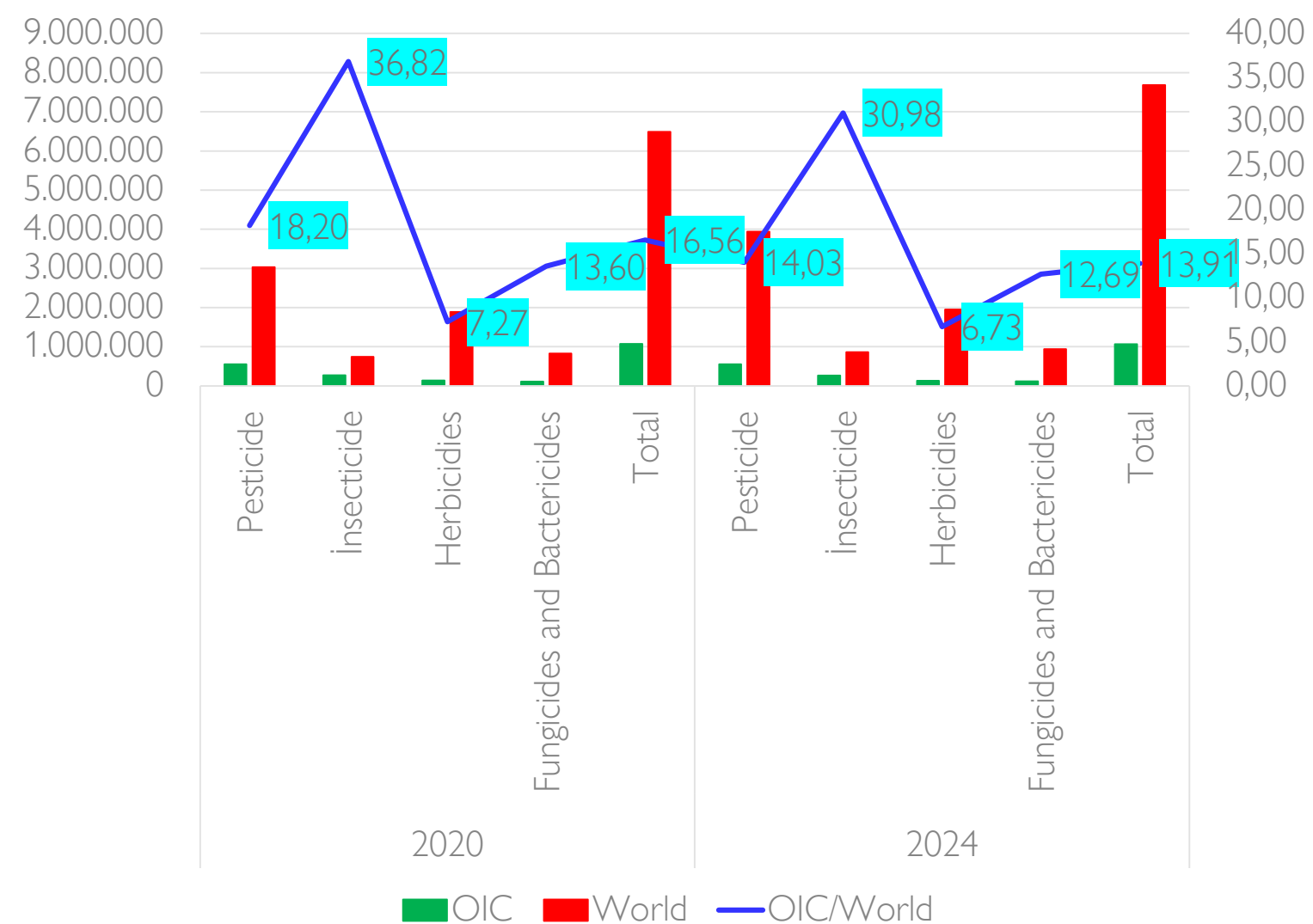
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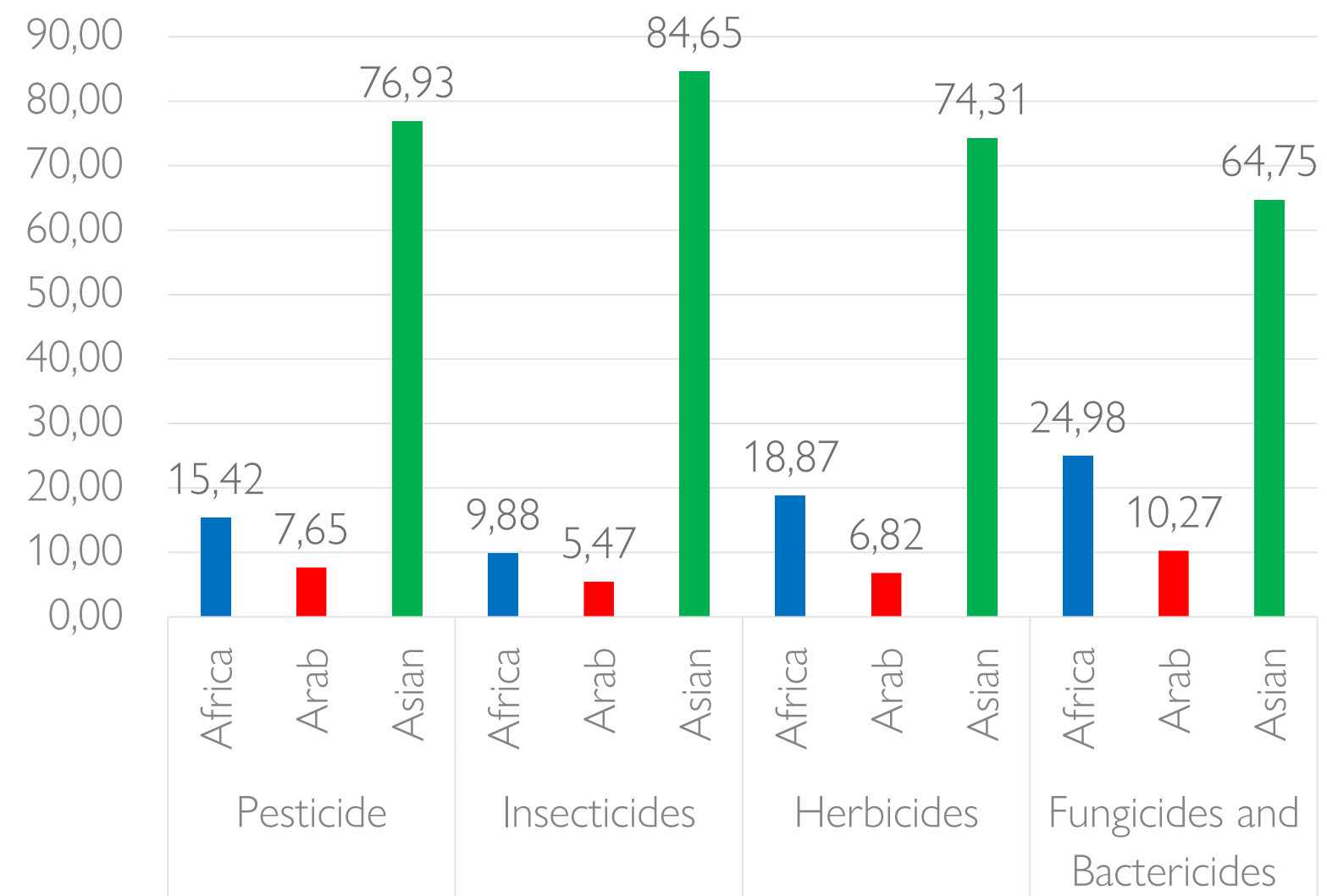
1. Macro Agricultural Indicators / Sectorial Indicators

➤ Resource Use-Pesticide/Insecticide/Herbicide/Fungi-Bactericides

Pesticide and Other Chemical Usage in the OIC and the World



Pesticide and Other Chemical Usage in the OIC by sub-Regions



Source: <https://www.fao.org/faostat/en/#data/QCL>



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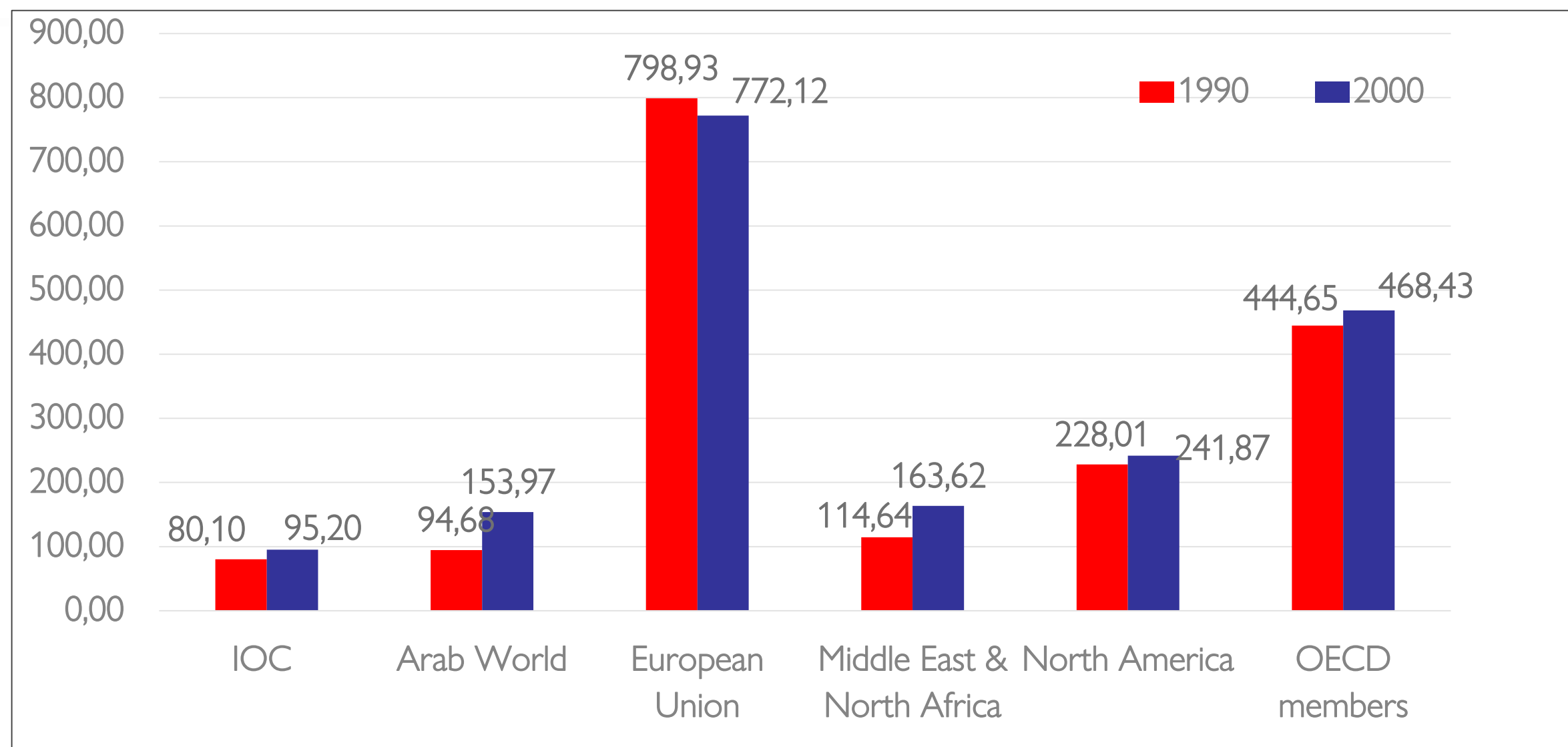
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1. Macro Agricultural Indicators / Sectorial Indicators

➤ Resource Use-Agricultural Machinery

The use of Agricultural machinery in OIC and Other Group Countries (Tractors per 100 sq. km of arable land)



Sources: <https://databank.worldbank.org/source/world-development-indicators/Series/AG.LND.TRAC.ZS#>



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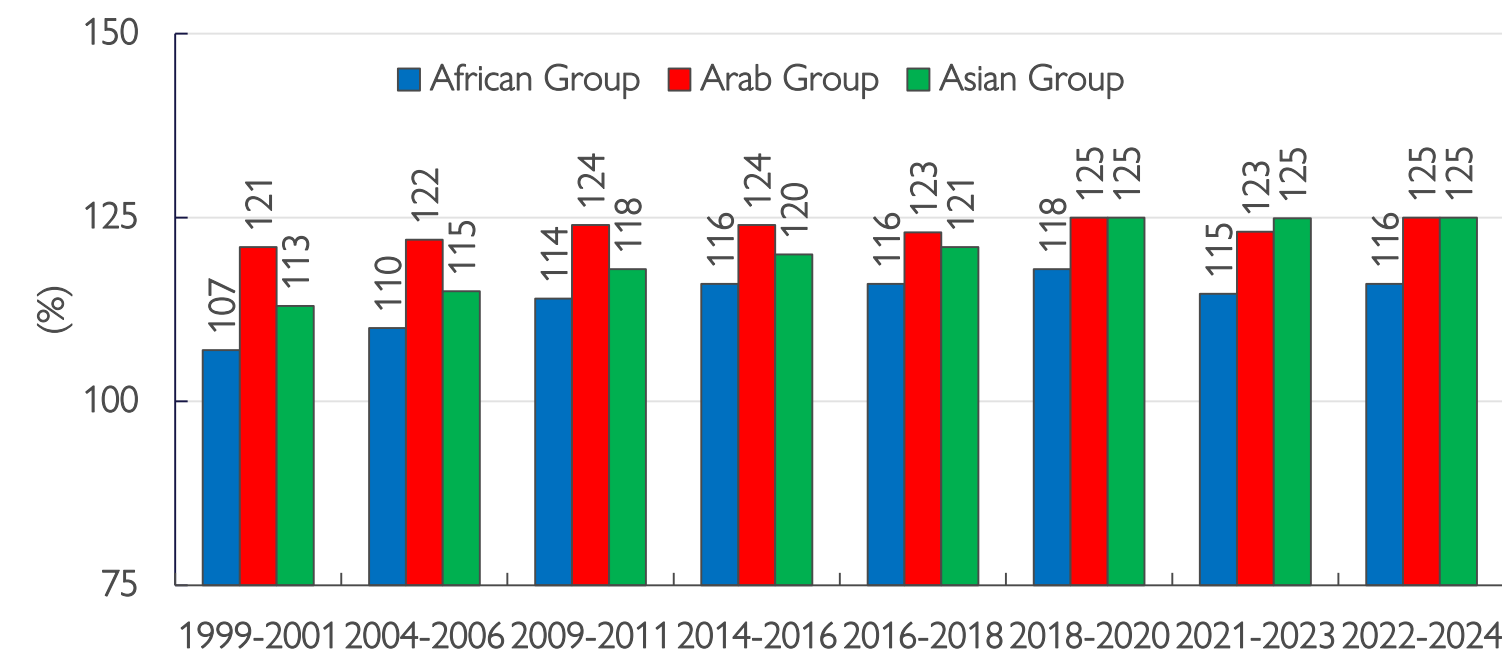
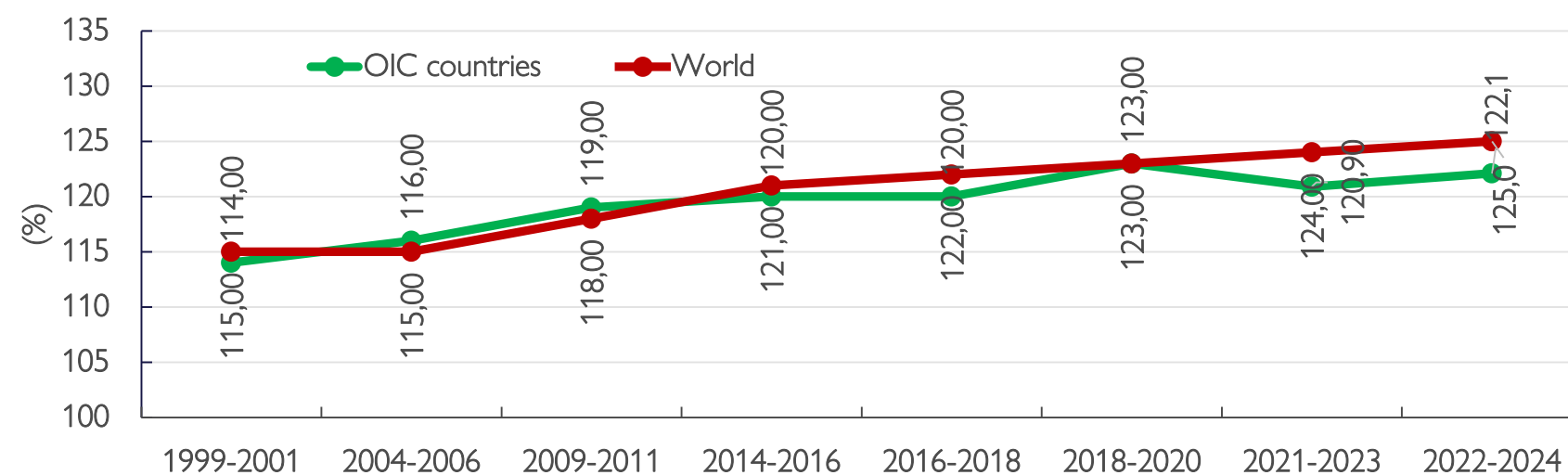
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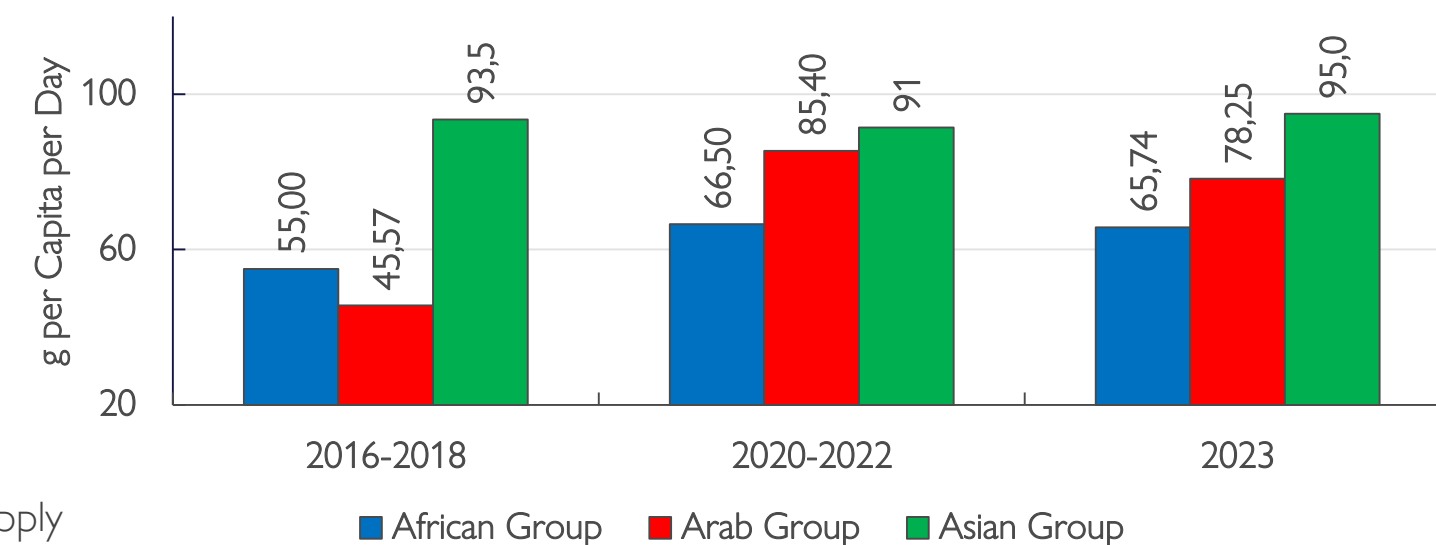
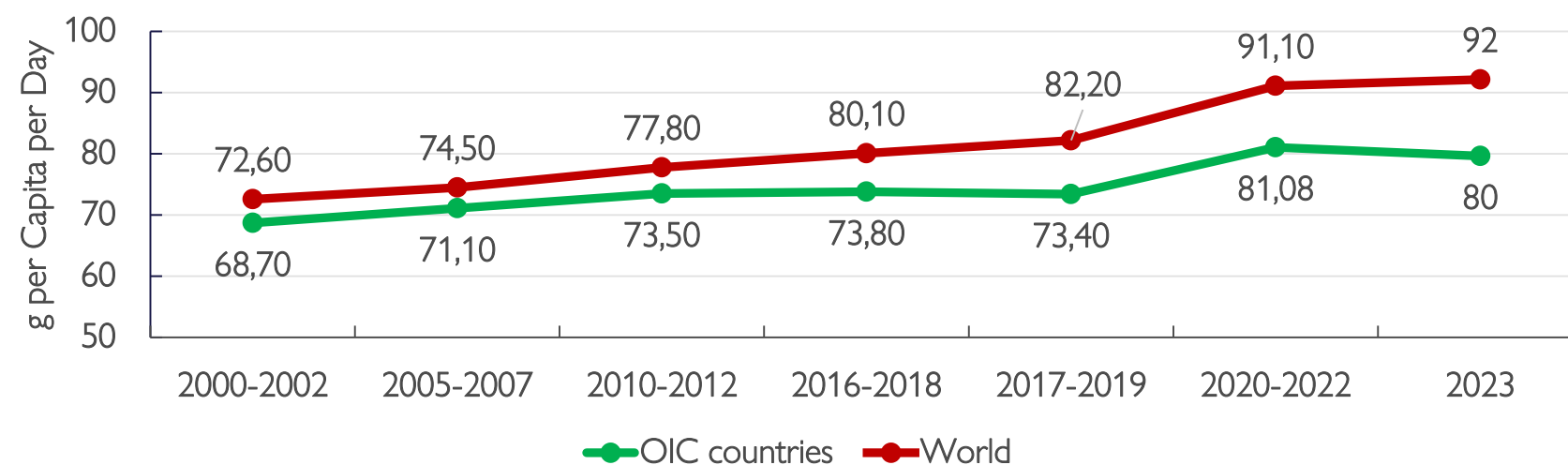
2. The State of Food security

➤ Availability

Average Dietary Energy Supply Adequacy in the OIC (by sub region) and the World



Average Protein Supply in the OIC (by Sub region) and the World



Source: <https://www.fao.org/faostat/en/#data/FS>

<https://ourworldindata.org/grapher/daily-per-capita-protein-supply>



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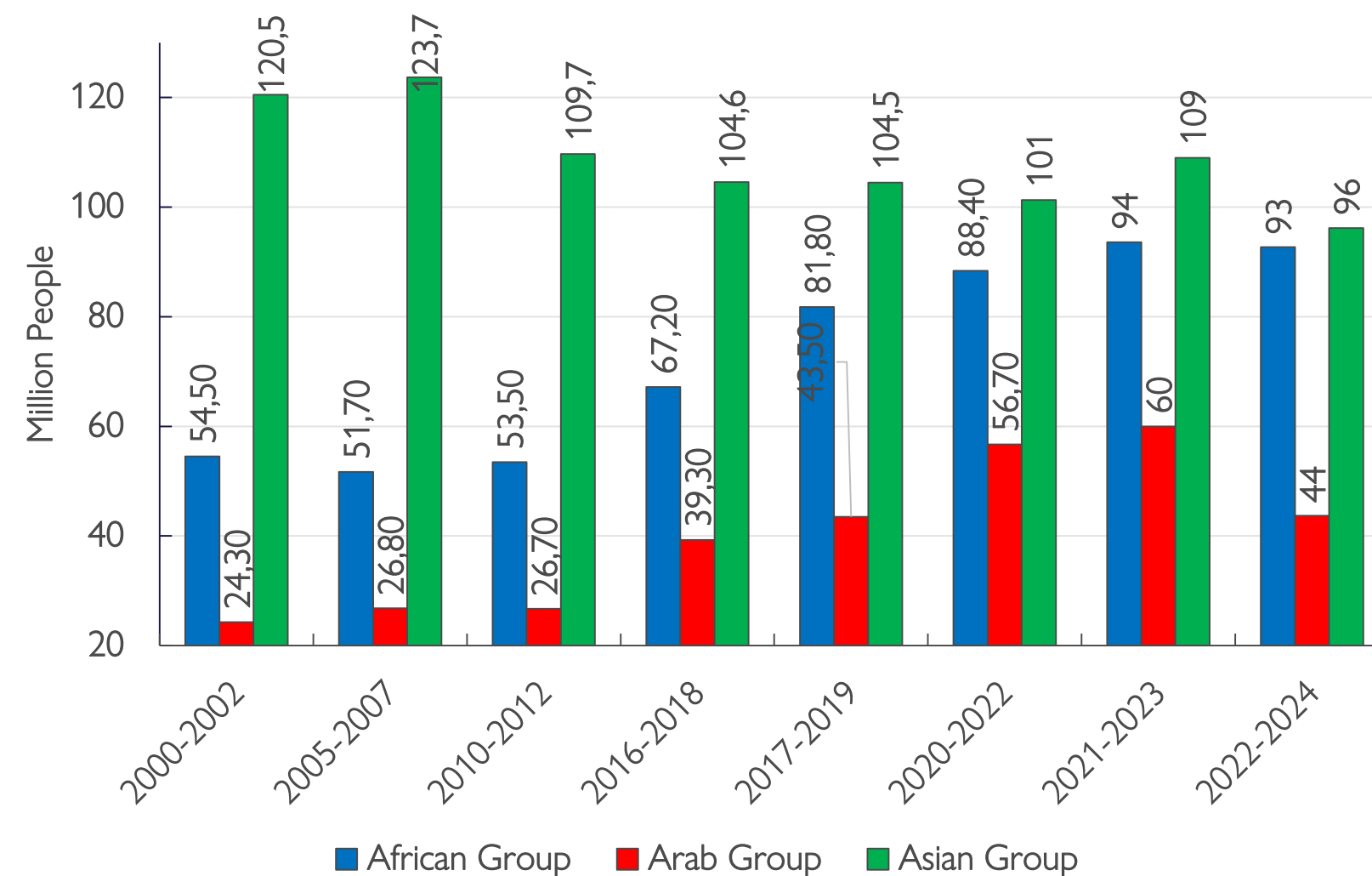
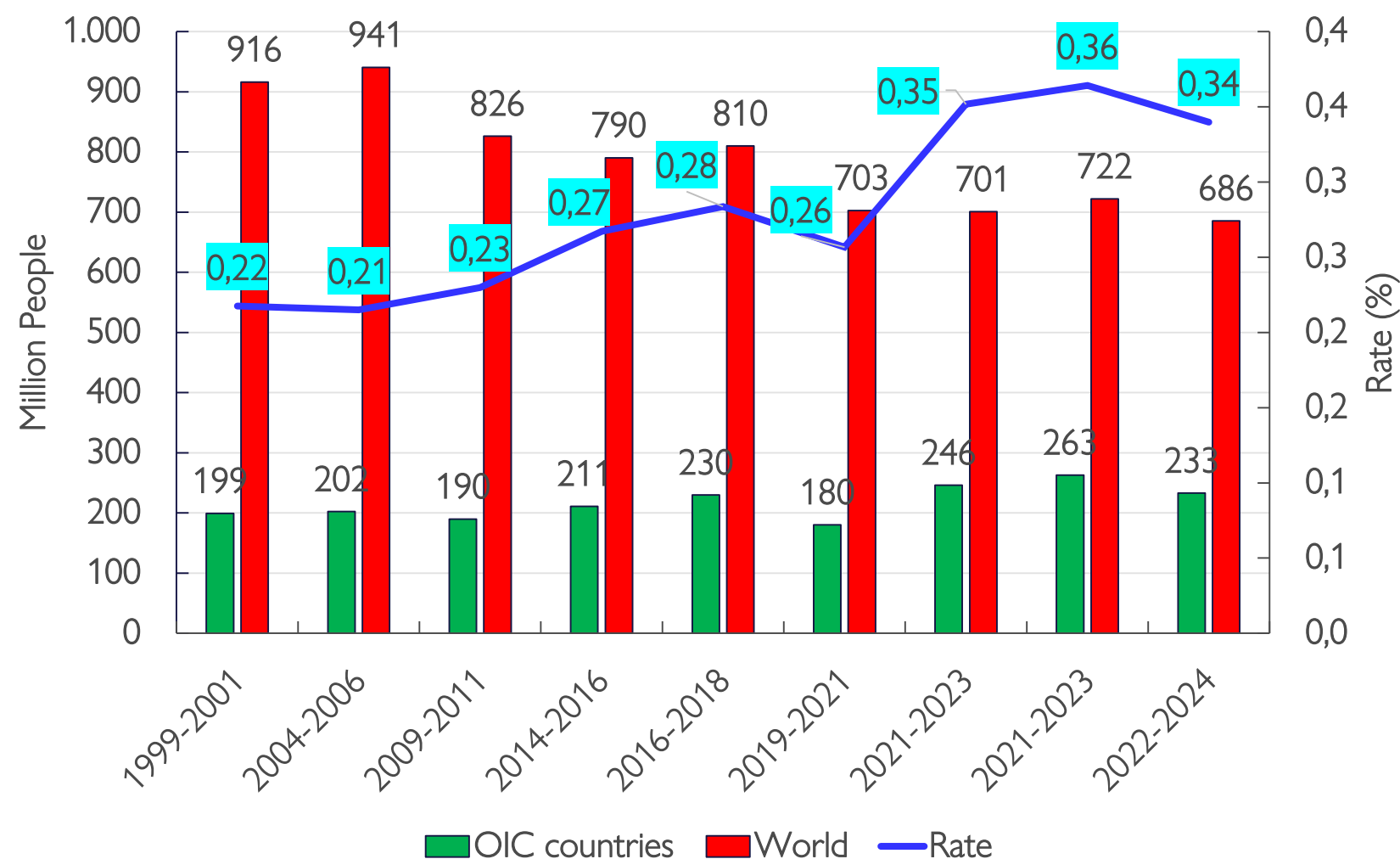
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2. The State of Food security

➤ Undernourished people

Undernourished People in the OIC (by Sun region) and the World

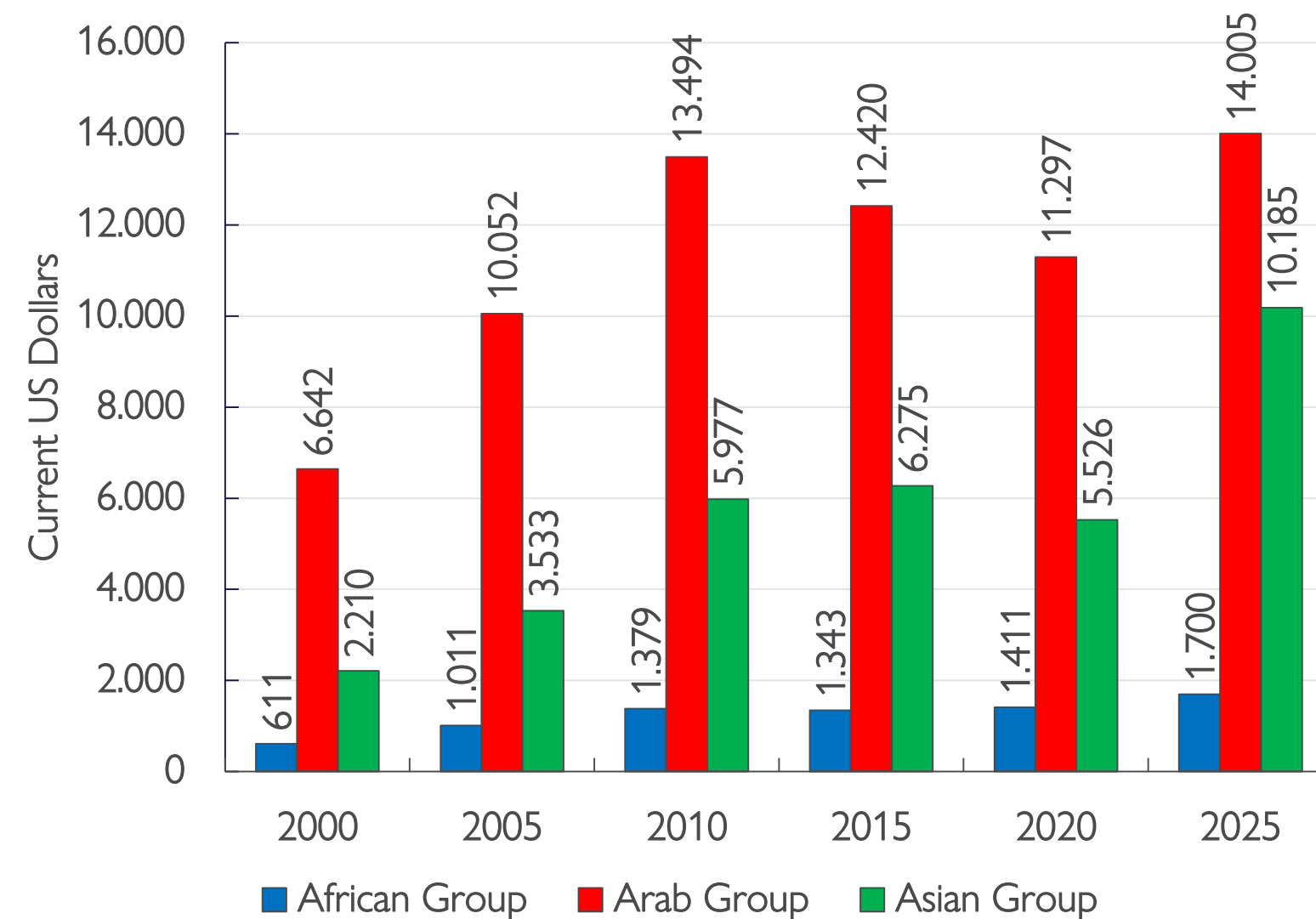
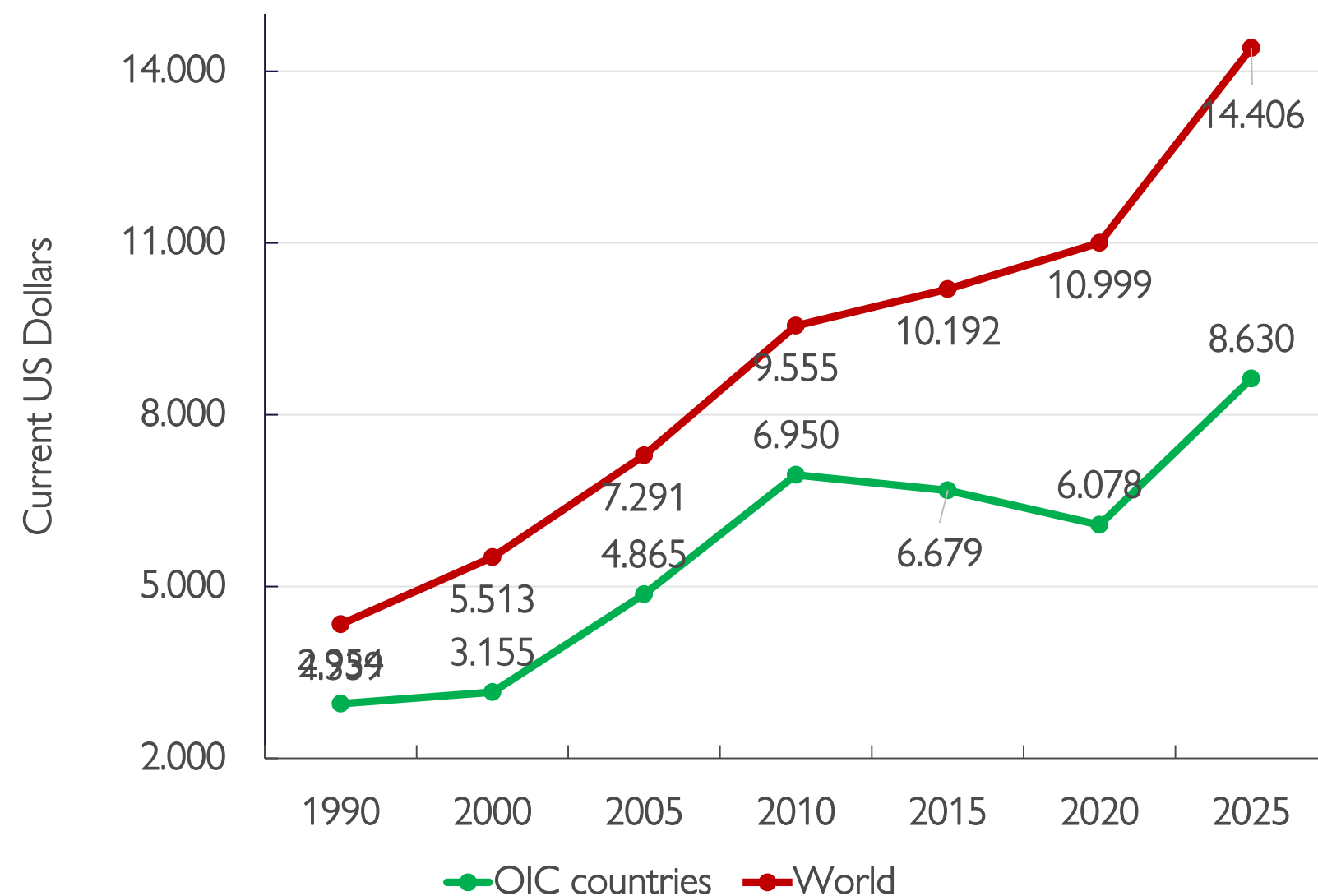


Sources: Calculated from <https://www.fao.org/faostat/en/#data/FS>

2. The State of Food security

➤ Access

GDP Per Capita in the OIC (by sub region) and World



Sources: Calculated From <https://data.worldbank.org/indicator/NY.GDP.PCAP.PP.CD>



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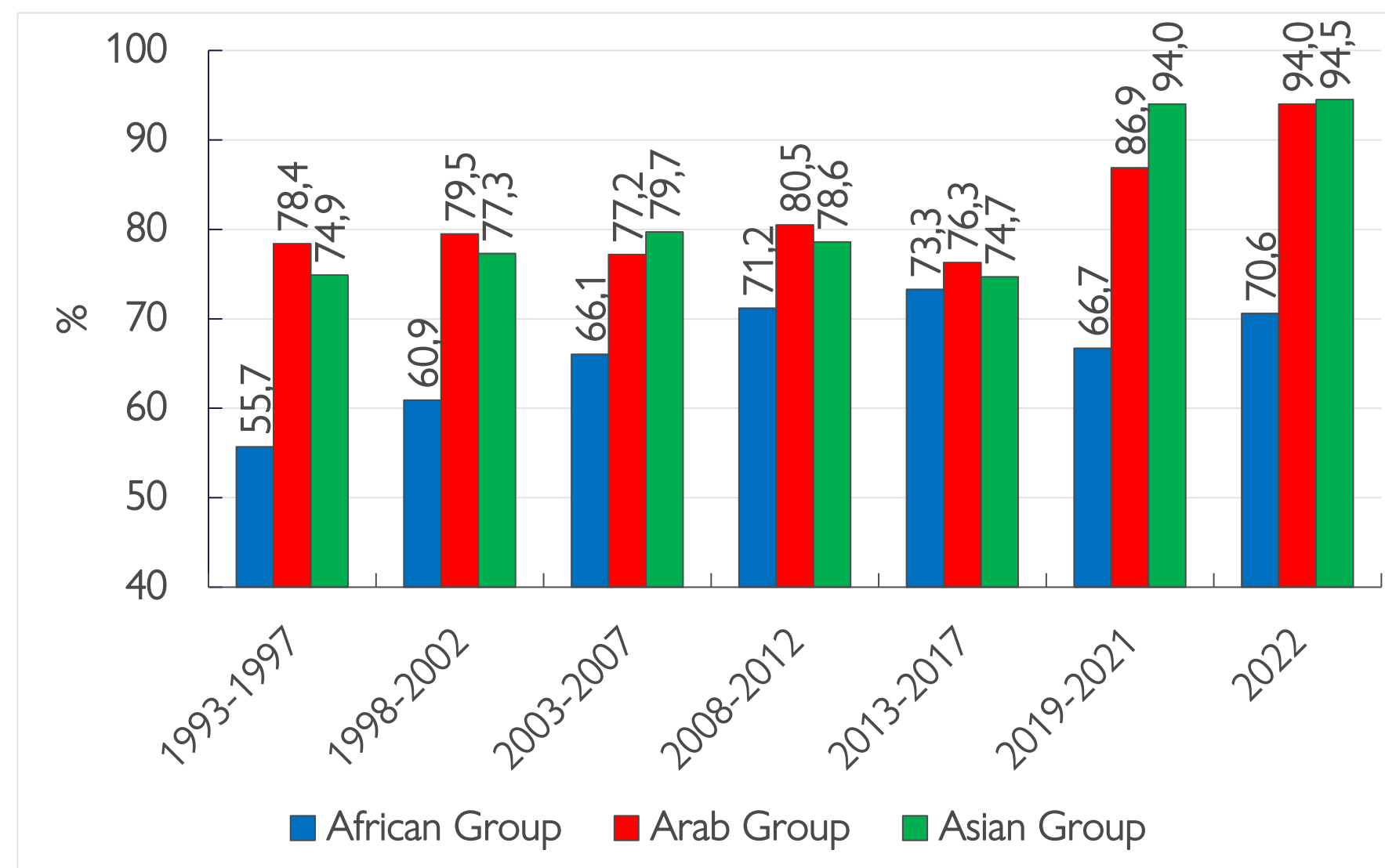
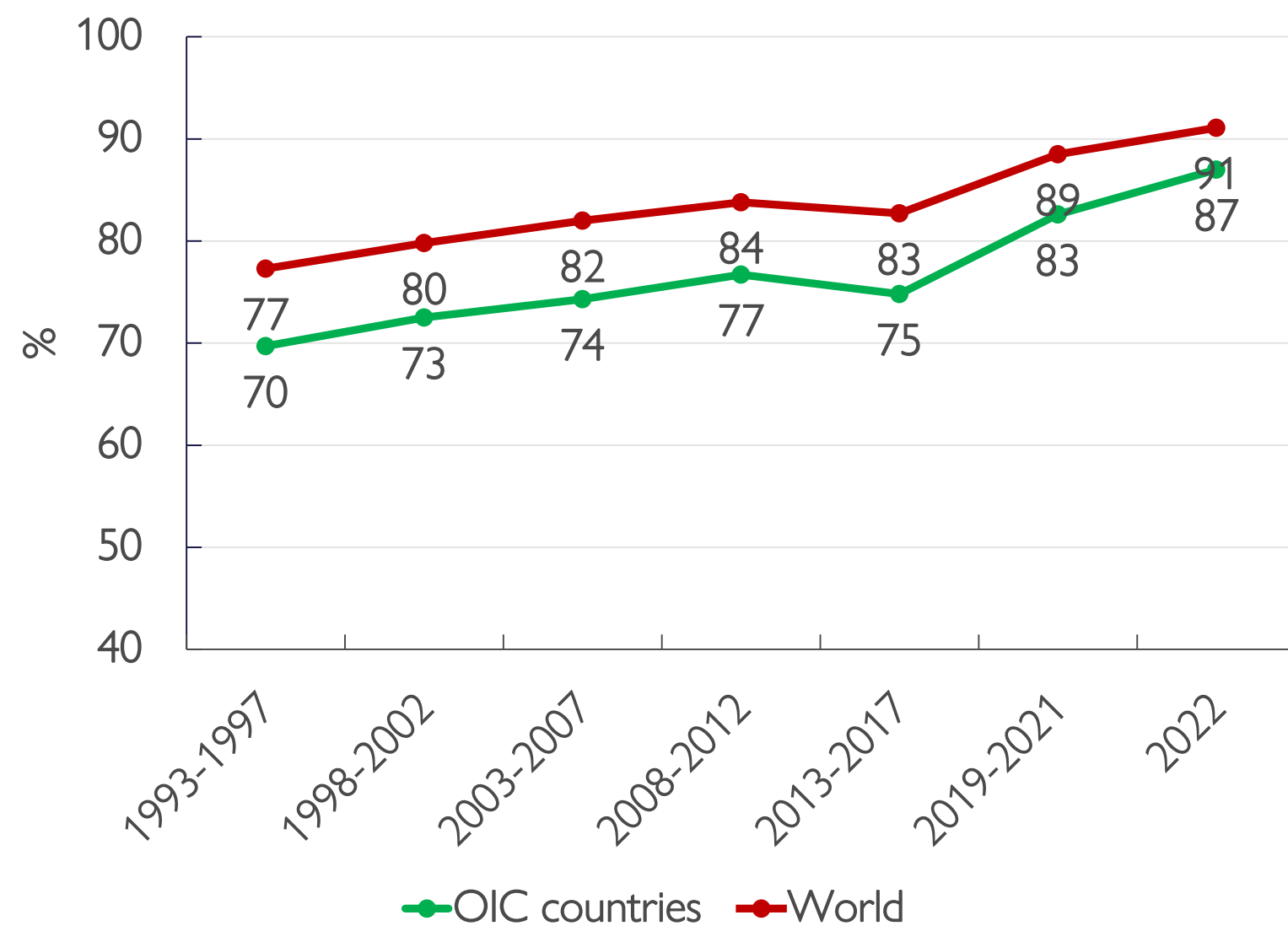
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2. The State of Food security

➤ Utilization

Access to Improved Water Sources in the OIC (by Sub region) and the World

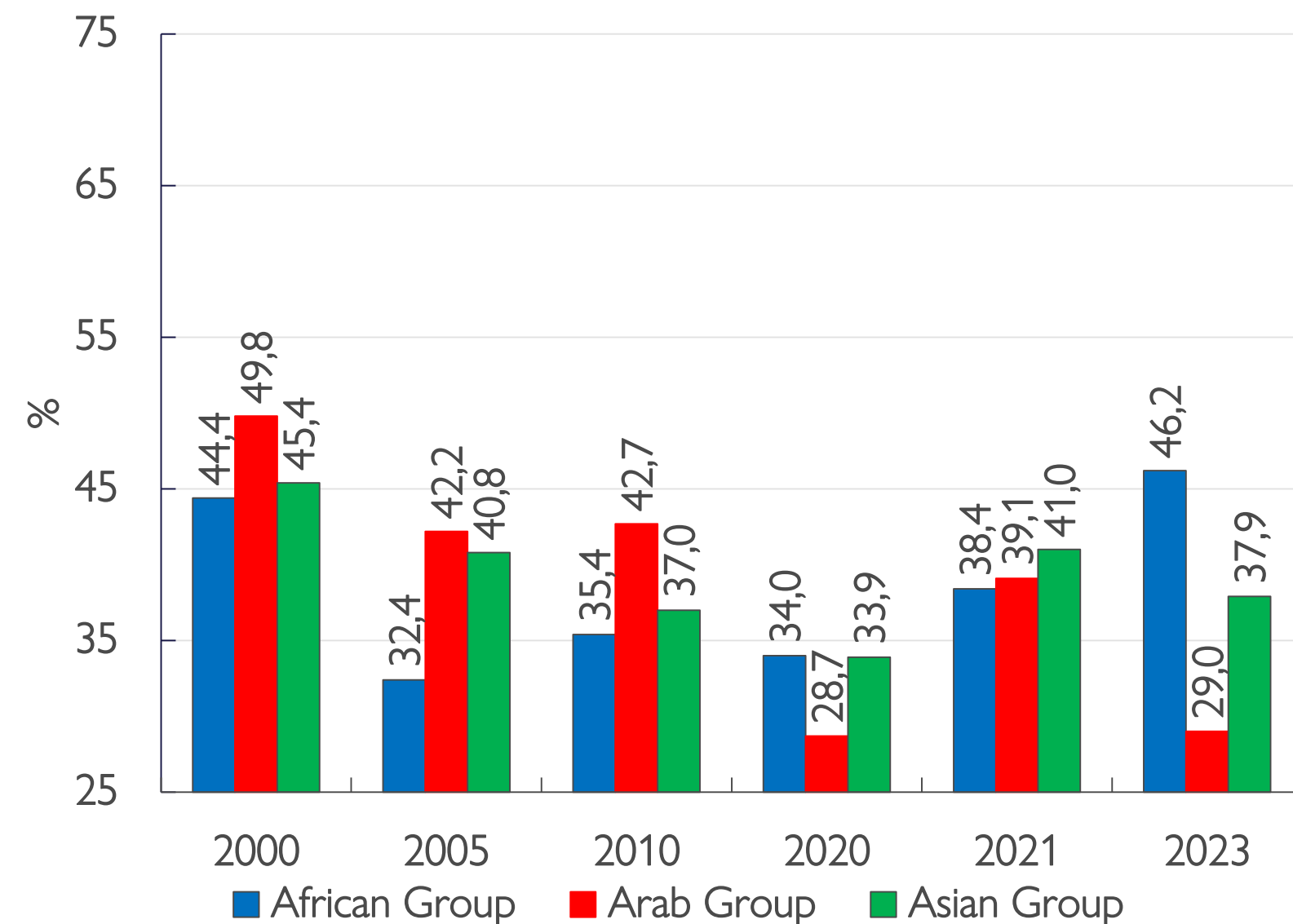
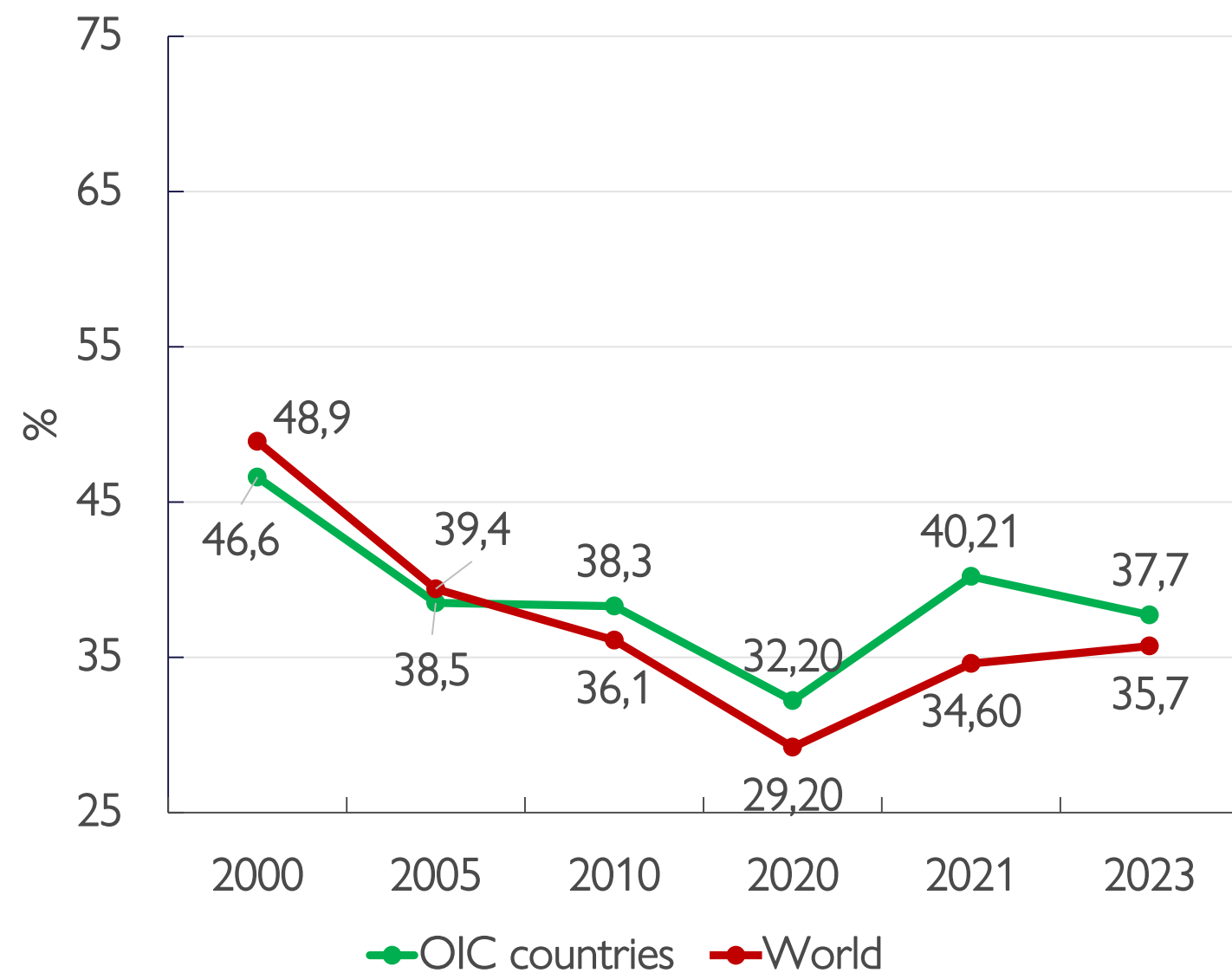


Sources: <https://www.fao.org/faostat/en/#data/FS>

2. The State of Food security

➤ Stability

Per Capita Food Supply Variability, kcal/capita/day (in the OIC (by Sub-Regions) and World



Source: <https://index.nutrition.tufts.edu/data4diets/data-sources-and-methods>

3. Key Agricultural Challenges

01

SOCIO-ECONOMIC & INSTITUTIONAL

- Rapid urbanization, rural poverty & demographic pressures
- Youth disengagement & employment challenges
- Limited access to finance, insurance & investment
- Weak governance & fragmented agricultural policies

02

PRODUCTIVITY, TECHNOLOGY & INFRASTRUCTURE

- Low agricultural productivity & technological gaps
- Weak infrastructure, storage & value chains
- Slow digital transformation & rural digital divide
- Weak research, extension & agricultural data systems

03

NATURAL RESOURCES & CLIMATE

- Water scarcity & inefficient water management
- Climate change & production volatility
- Land degradation, soil erosion & desertification
- Emerging biological & transboundary risks

04

FOOD SECURITY, TRADE & RESILIENCE

- Food insecurity & agricultural import dependence
- Rising production costs & imported-input vulnerability
- Conflict, political instability & displacement
- Insufficient intra-OIC agricultural cooperation & trade integration

KEY MESSAGE OIC agricultural challenges require integrated action across productivity, climate resilience, food security, investment and regional cooperation.

4. Conclusion (I)

- Agriculture remains a key driver of employment, income, rural livelihoods, food security, and export earnings across many OIC countries, particularly in Sub-Saharan Africa, South and Central Asia, and the Middle East and North Africa.
- OIC countries possess considerable agricultural potential in terms of land, labour, and productive resources, but this potential remains underutilized due to structural, environmental, economic, and institutional constraints.
- Agricultural challenges vary considerably across OIC countries due to differences in **land and water availability, climate, production capacity, and food import dependence**.
- Although production has increased, productivity is low and structural problems persist.
- Pandemics, conflicts, migrations and environmental shocks have exacerbated food insecurity, affecting around half of the population.
- Lack of modern infrastructure and rural problems make it difficult to implement innovations.
- Agriculture in OIC countries faces interconnected **socioeconomic, environmental, technological, financial, institutional, and geopolitical challenges** that constrain productivity, food security, resilience, and sustainable agricultural development.



4. Conclusion (II)

- Early warning systems, use of smart technology, regional solidarity and political stability are key to food security.
- There is great potential for cooperation and investments among Member States.
- Addressing agricultural challenges in OIC countries requires climate-resilient and resource-efficient production, stronger infrastructure and value chains, technological innovation, inclusive finance, improved governance, human-capital development, and enhanced intra-OIC cooperation for food security and resilience.
- Agricultural transformation in OIC countries requires an integrated approach combining productivity, sustainable resource management, climate resilience, technology, finance, human-capital development, effective governance, and stronger intra-OIC cooperation.





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Thank You...



27th Meeting of COMCEC Agriculture Working Group
September 21th, 2026, Ankara Türkiye