



## For Building an Interdependent Islamic World

E. Emrah HATUNOGLU



# OUTLINE

## 1. Macro Agricultural Indicators

- Agricultural Value Added
- Growth Rates
- Population
- Employment
- Trade

## 2. Sectoral Indicators

- Land Use
- Crop Production
- Agricultural Productivity
- Irrigation
- Fertilizer Use
- Mechanization

## 3. The State of Food Insecurity

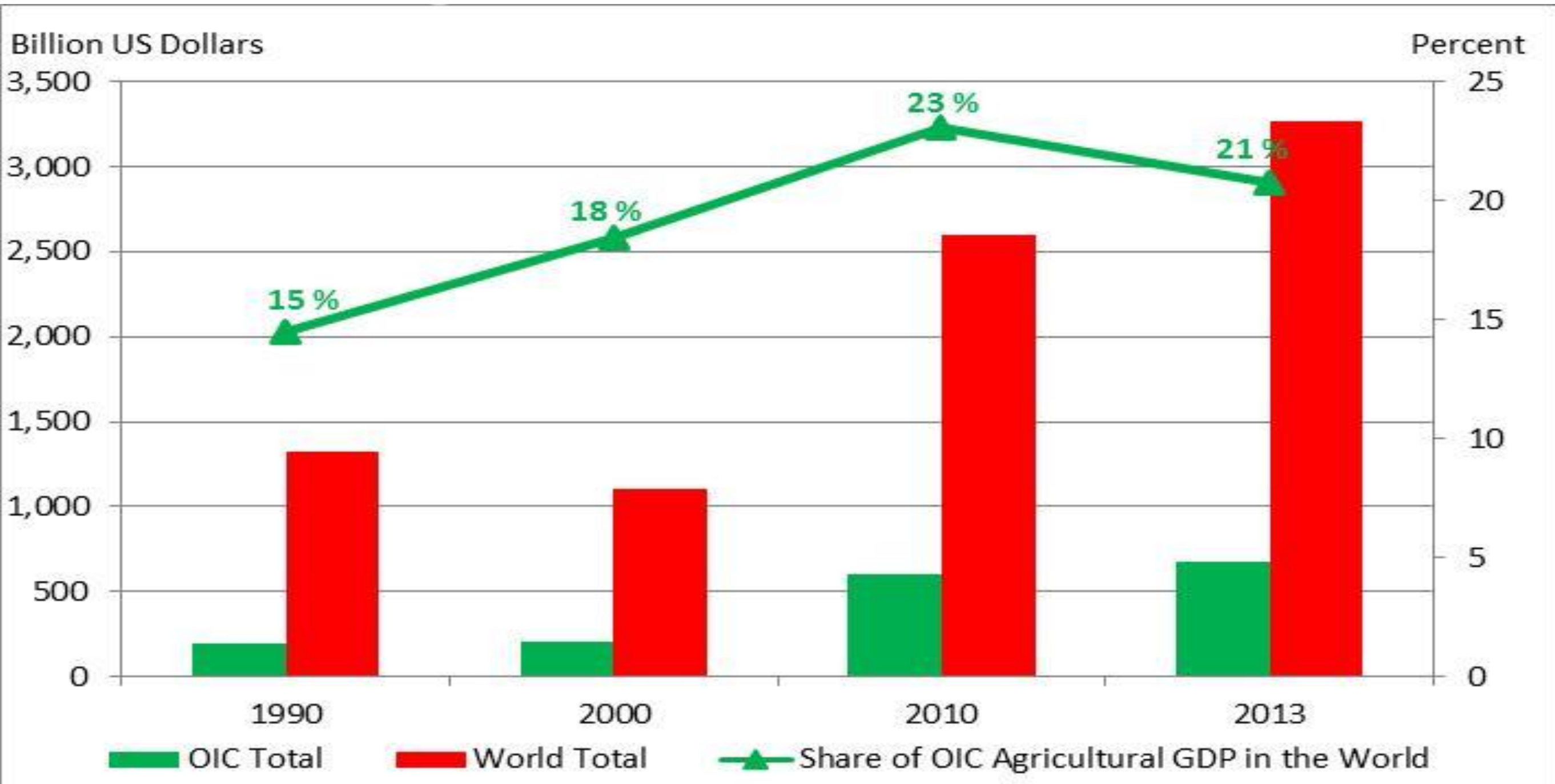
- Availability
  - Access
  - Utilization
  - Stability
  - Food Security Index
  - Food Losses and Wastes
- Undernourishment



# 1. Macro Agricultural Indicators

## ➤ Agricultural Value Added

### OIC Agricultural GDP and its Share in the World



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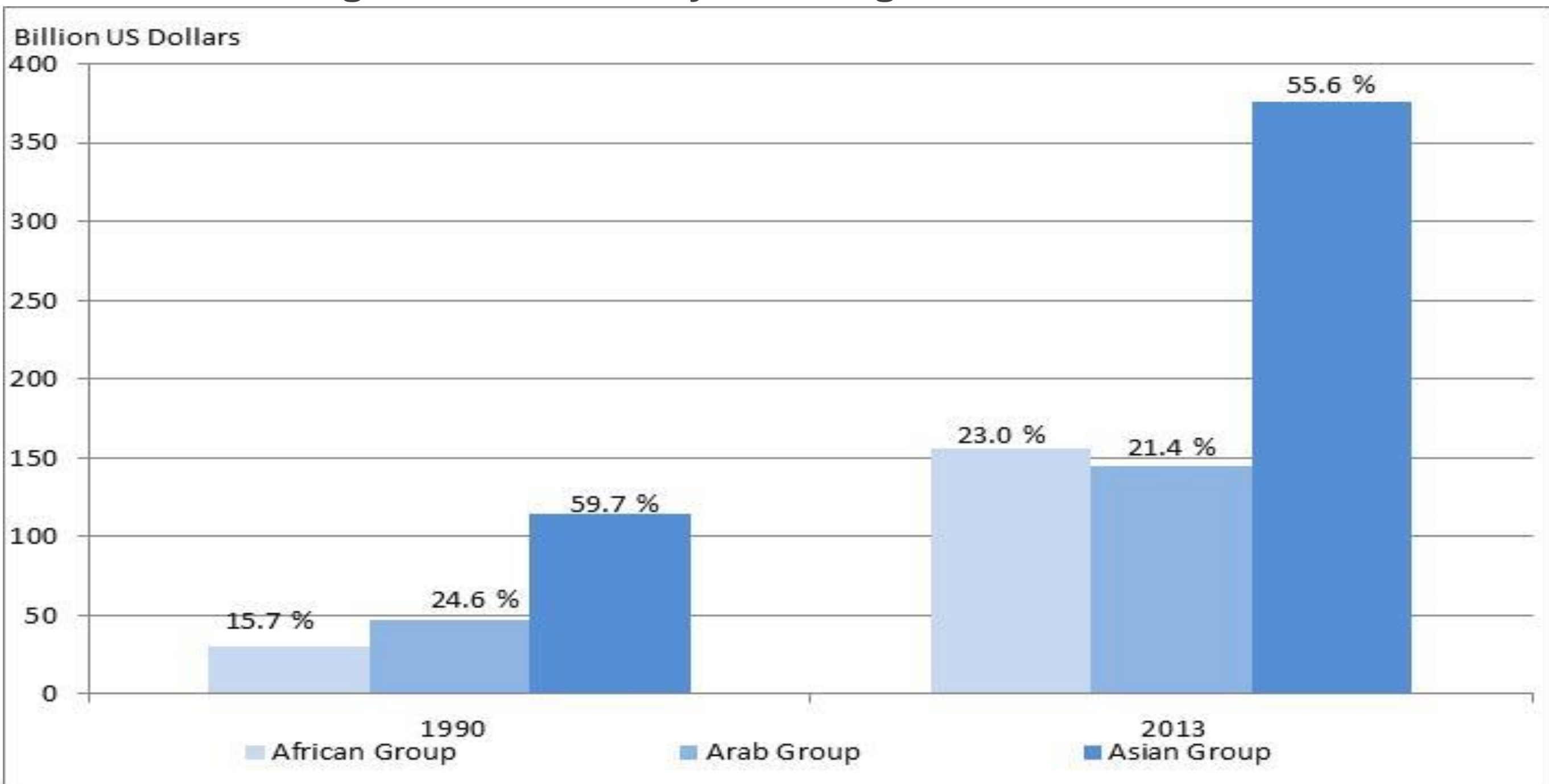
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# 1. Macro Agricultural Indicators

## ➤ Agricultural Value Added

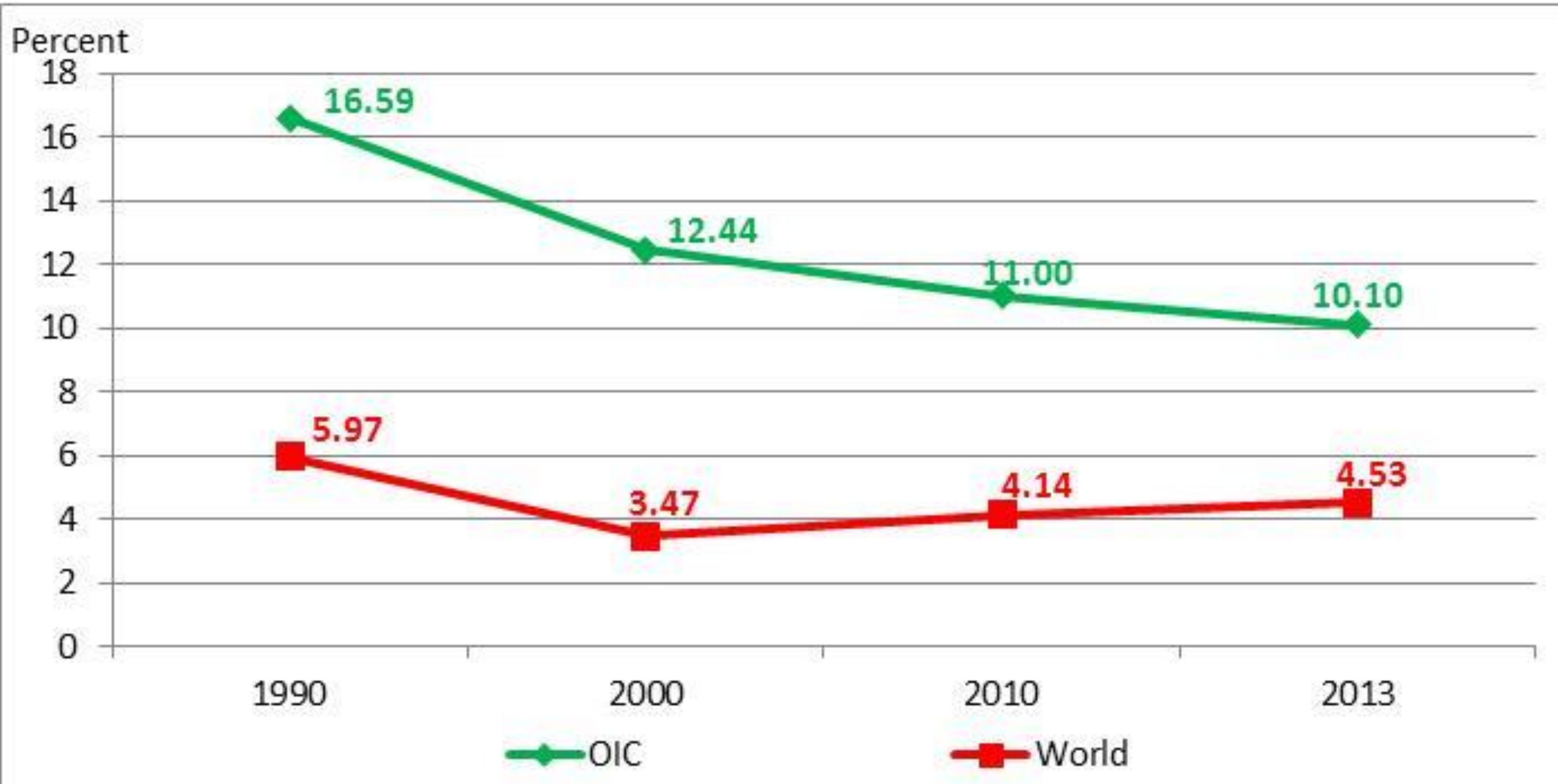
### Agricultural GDP by Sub-Regions and their Share



# 1. Macro Agricultural Indicators

## ➤ Agricultural Value Added

### Share of Agricultural GDP in the OIC and World



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# 1. Macro Agricultural Indicators

## ➤ Agricultural Value Added

### Agricultural GDP Rankings in the OIC (2013)

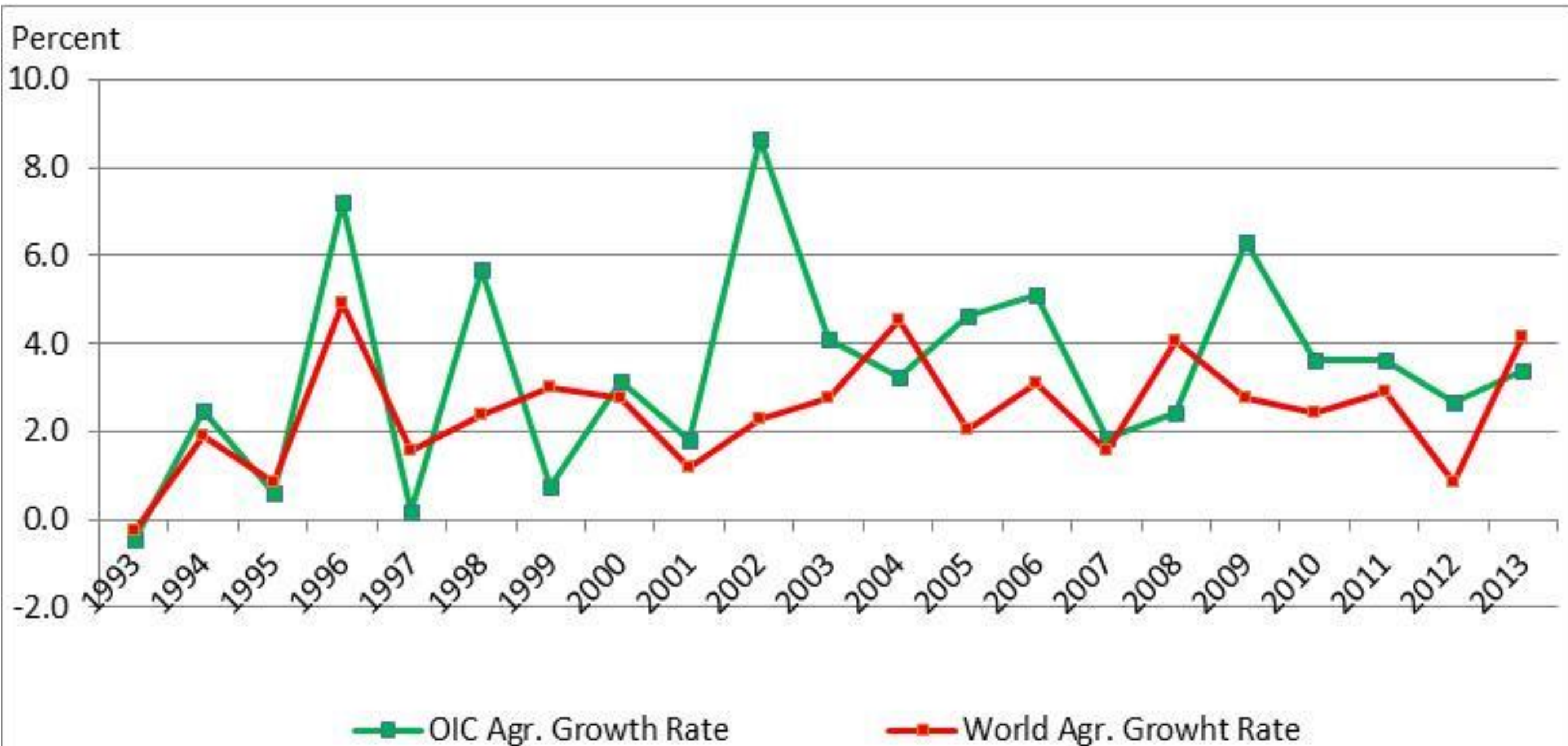
Top Ten Country		Agricultural GDP (Billion US Dollars)	Share of Agr. GDP (Percent)
1	Indonesia	125.3	14.4
2	Nigeria	106.9	21
3	Turkey	60.8	8.3
4	Pakistan	53.9	25.3
5	Iran	41.4	8.5
6	Egypt	34.4	13.9
7	Malaysia	29.1	9.4
8	Bangladesh	23.8	16.3
9	Sudan	23.1	42.6
10	Algeria	20.5	10.2
Top Ten Total		519.1	



# 1. Macro Agricultural Indicators

## ➤ Growth Rates

### Agricultural Growths in the OIC and World



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# 1. Macro Agricultural Indicators

## ➤ Growth Rates

### Agricultural Growths in the OIC and World

Period	OIC		World	
	Agr. Growth	Economic Growth	Agr. Growth	Economic Growth
1993-2003	3.37	3.54	2.32	2.8
2003-2013	3.61	5.14	2.79	2.54
1993-2013	3.49	4.34	2.56	2.67





# 1. Macro Agricultural Indicators

## ➤ Growth Rates

### Agricultural Growths in the OIC and World

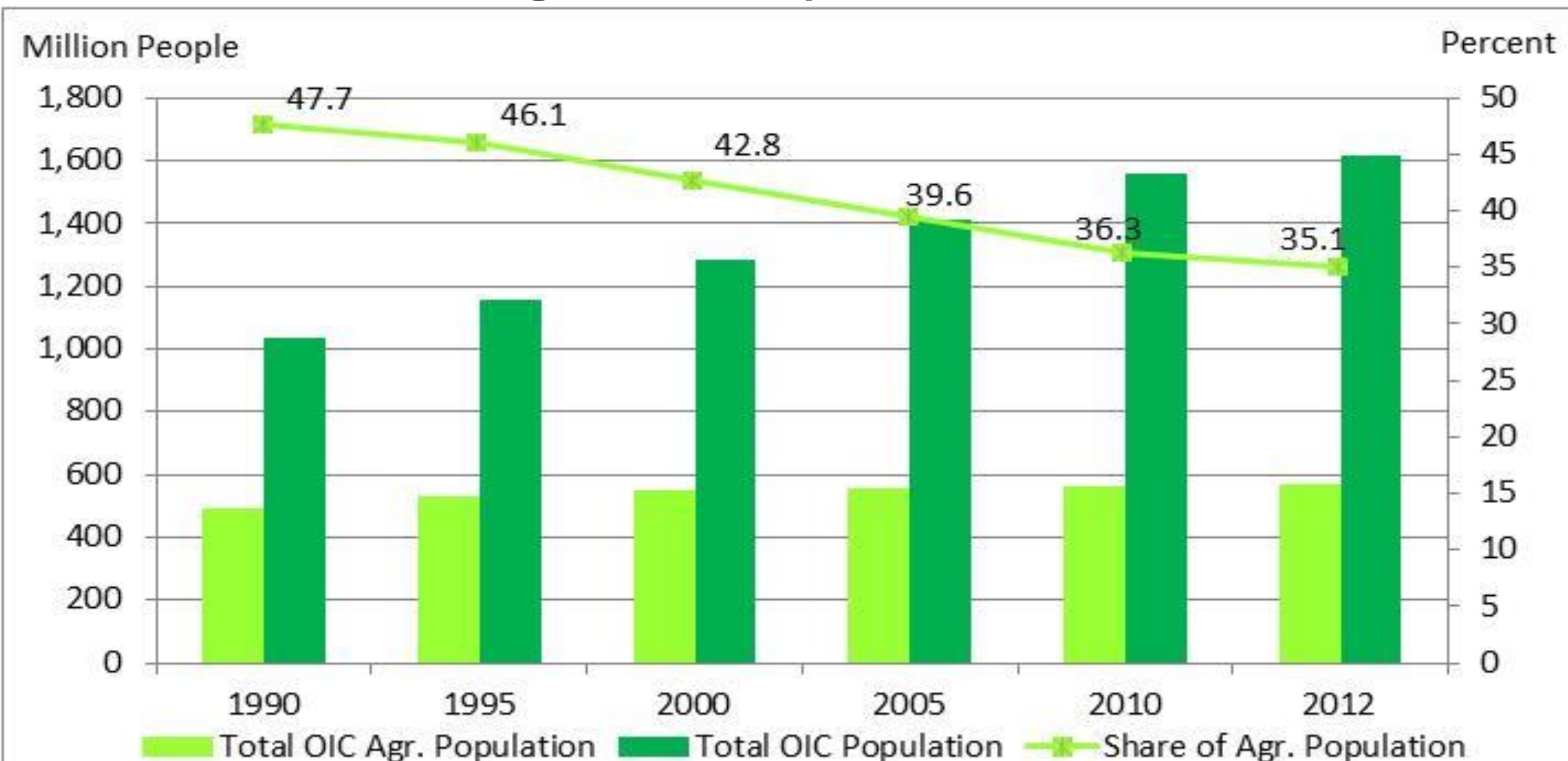
Period	African Group		Arab Group		Asian Group	
	Agr. Growth	Econ. Growth	Agr. Growth	Econ. Growth	Agr. Growth	Econ. Growth
<b>1993-2003</b>	6.39	4.41	4.01	3.57	2.04	3.35
<b>2003-2013</b>	4.91	5.84	3.03	5.03	3.32	5.08
<b>1993-2013</b>	<b>5.65</b>	<b>5.12</b>	<b>3.52</b>	<b>4.3</b>	<b>2.68</b>	<b>4.22</b>



# 1. Macro Agricultural Indicators

## ➤ Population

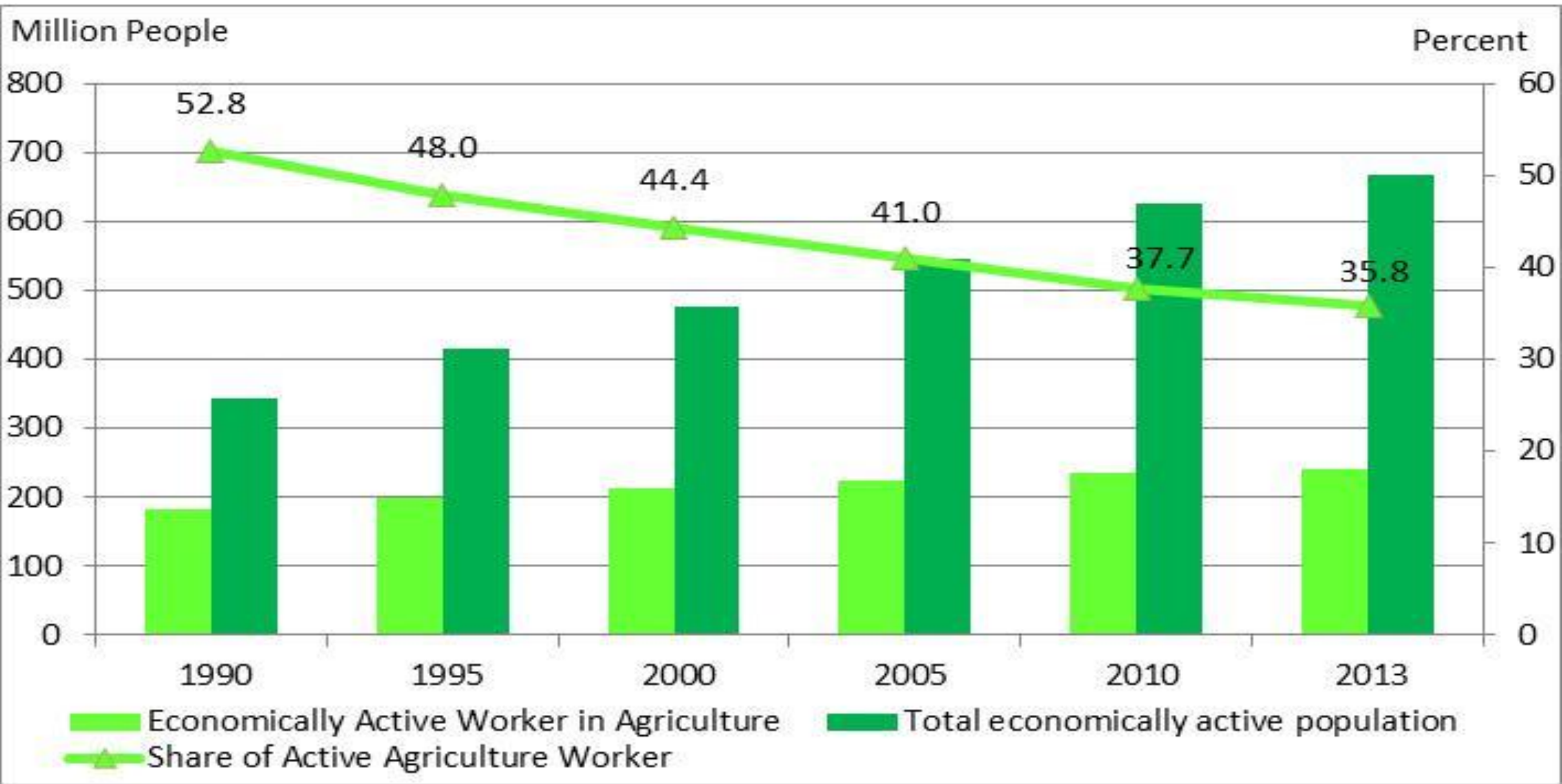
### Share of Agricultural Population in the OIC



# 1. Macro Agricultural Indicators

## ➤ Employment

### Agricultural and Total Employment in the OIC



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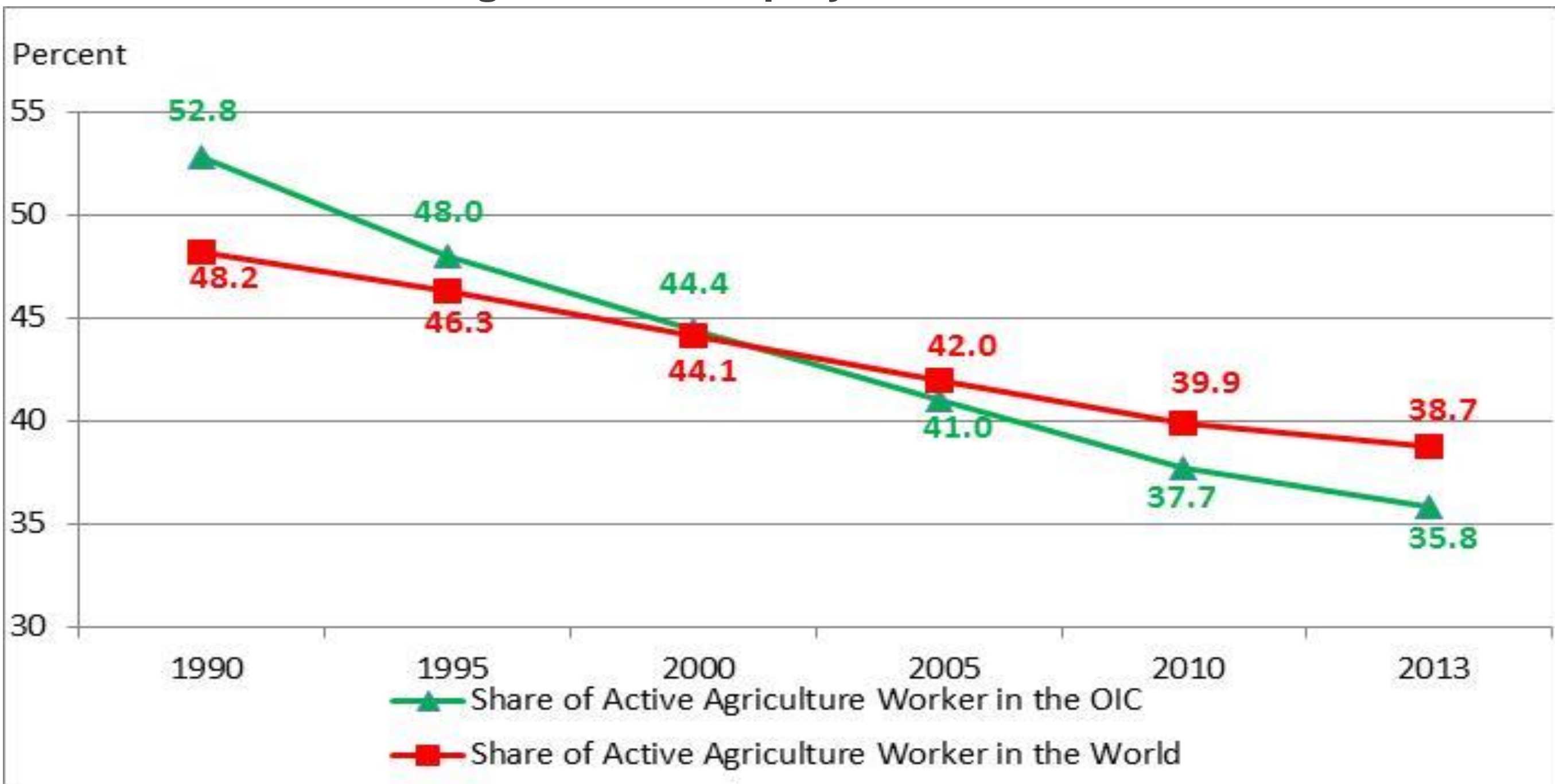
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# 1. Macro Agricultural Indicators

## ➤ Employment

### Share of Agricultural Employment in the OIC and World

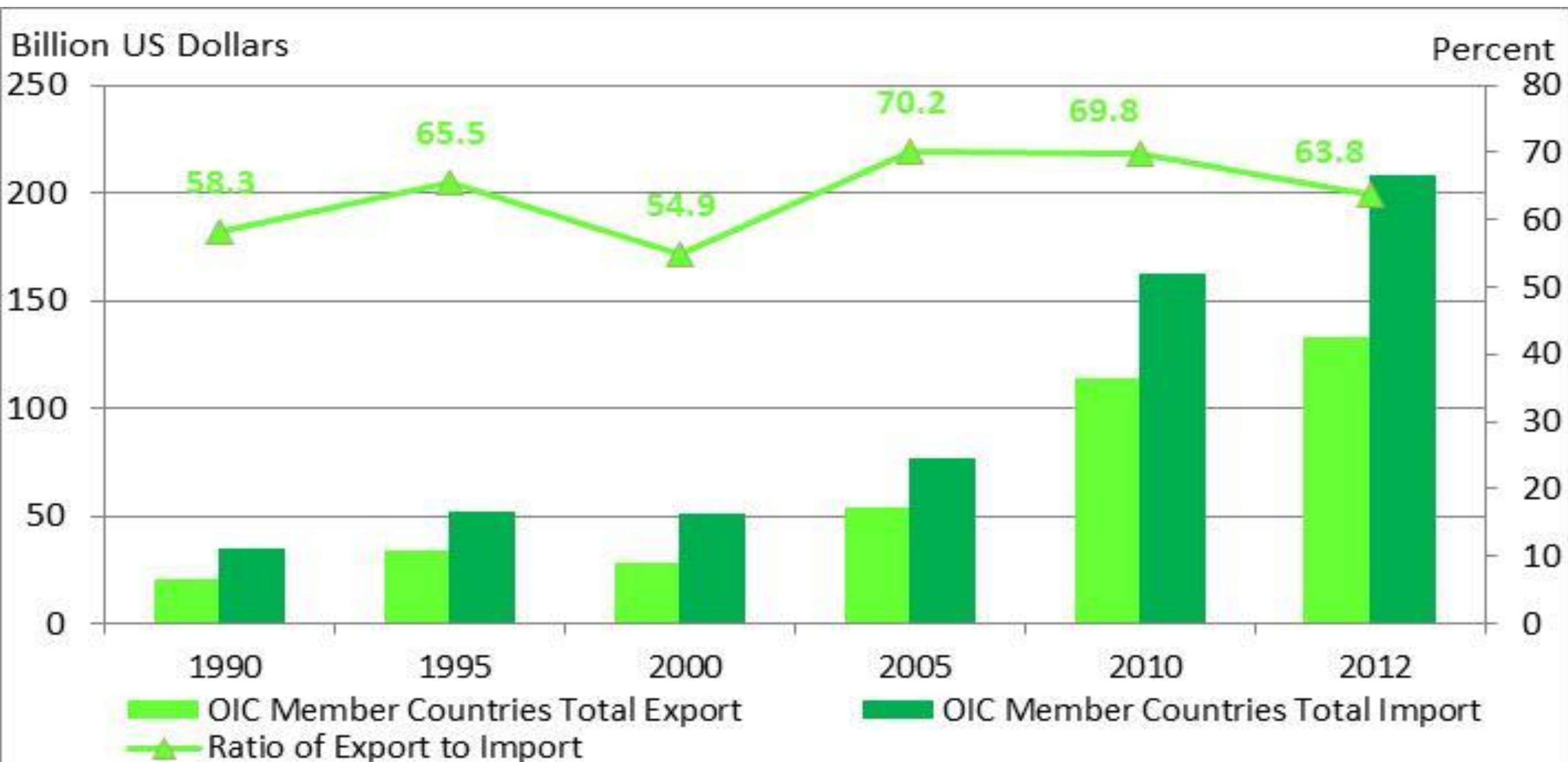




# 1. Macro Agricultural Indicators

## ➤ Trade

### Agricultural Exports and Imports in the OIC



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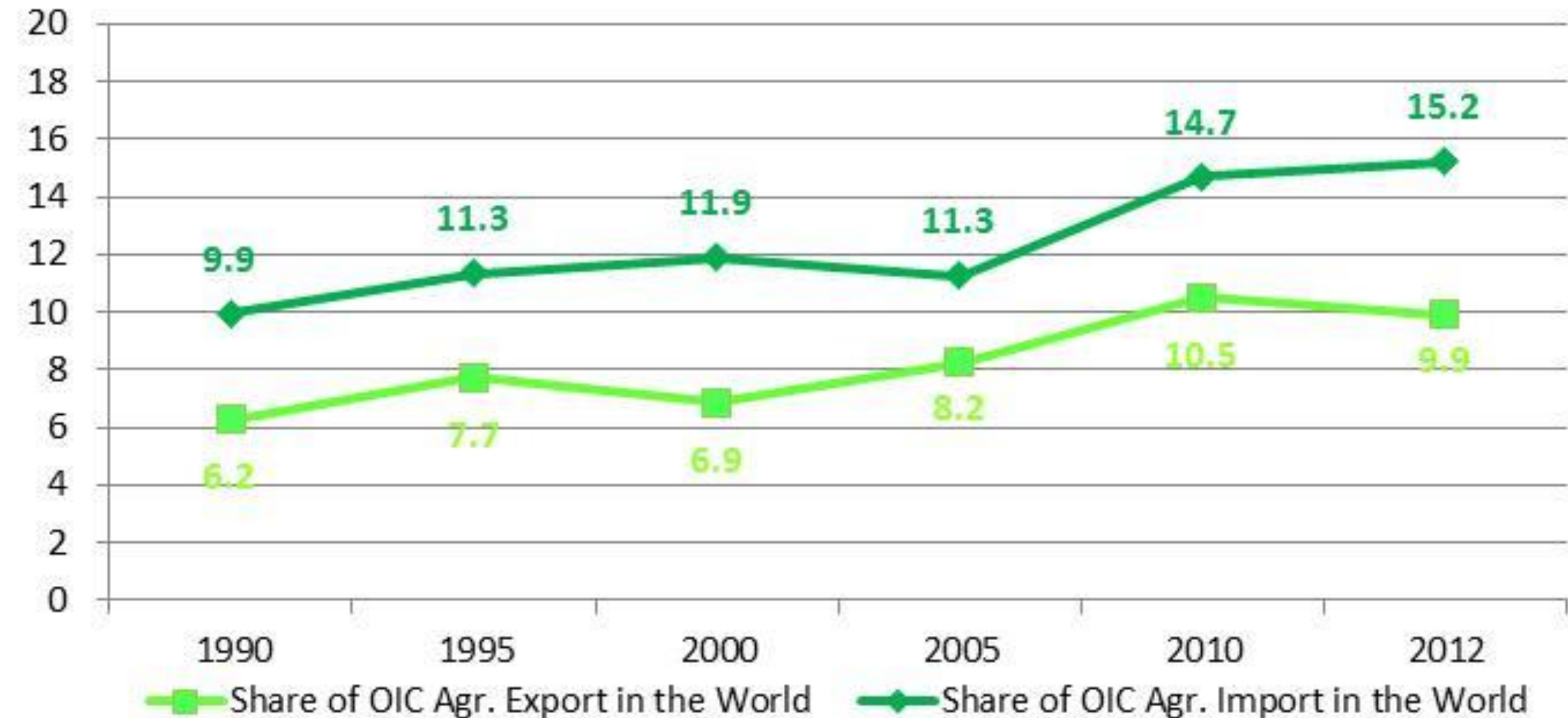


# 1. Macro Agricultural Indicators

## ➤ Trade

### OIC Agricultural Trade Performance in the World

Percentage



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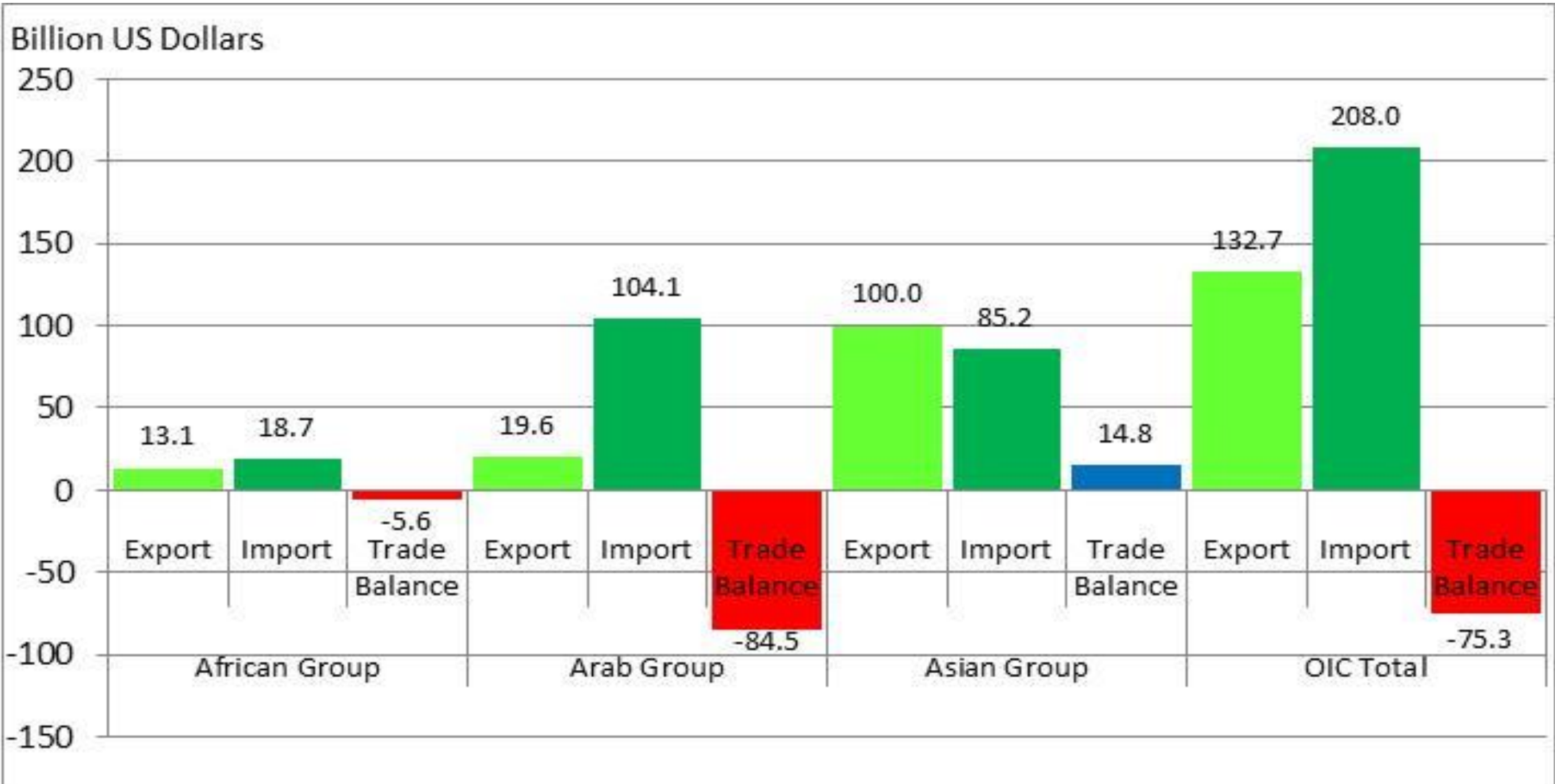
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# 1. Macro Agricultural Indicators

## ➤ Trade

### Agricultural Trade Balance in the OIC by Sub-Regions, 2012



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## 2. Sectoral Indicators

### ➤ Land Use

#### Land Use in the OIC and its Share in the World, 2012

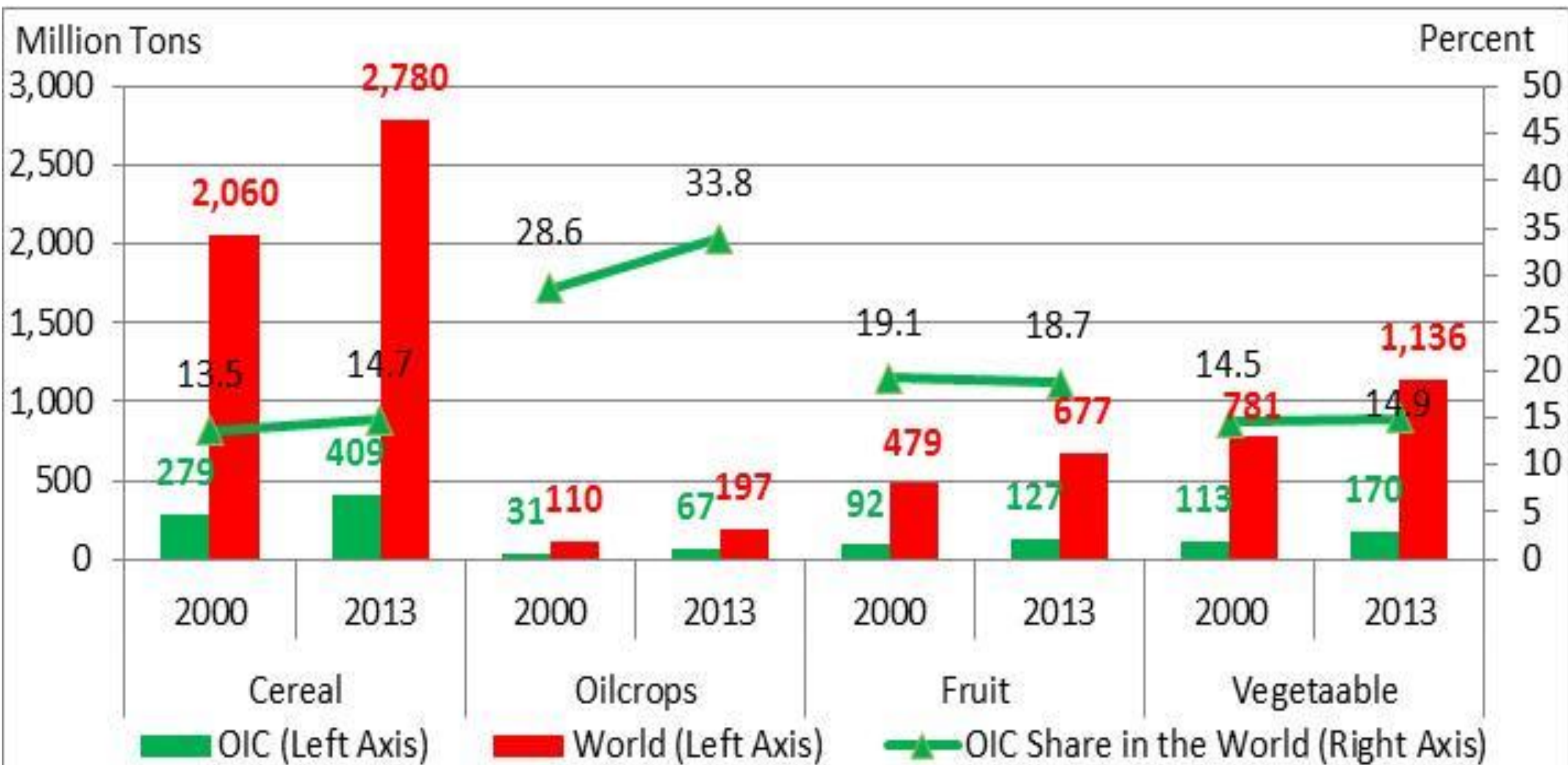
	Land area	Agricultural Area	Arable land	Permanent Crops	Permanent Meadows and Pastures
<b>OIC (million ha)</b>	3,179	1,397	297	63	1,037
<b>Share in Total Agr. Area (%)</b>		<b>100</b>	<b>21.27</b>	<b>4.48</b>	<b>74.25</b>
<b>World (million ha)</b>	13,009	4,922	1,396	164	3,360
<b>Share of OIC in the World (%)</b>	<b>24.44</b>	<b>28.38</b>	<b>21.29</b>	<b>38.14</b>	<b>30.87</b>



## 2. Sectoral Indicators

### ➤ Crop Production

#### Crops Production in the OIC and its Share in the World



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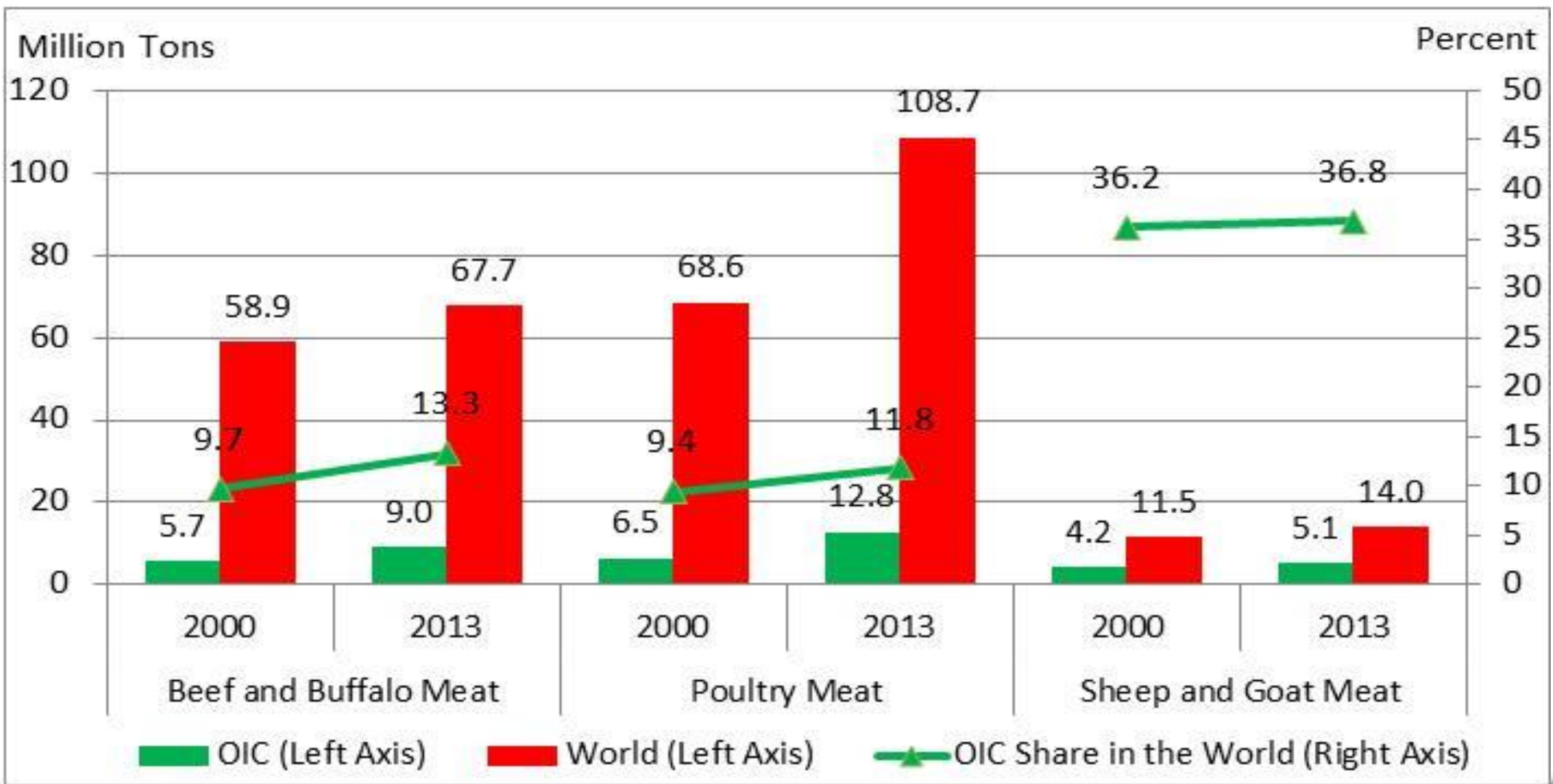
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## 2. Sectoral Indicators

### ➤ Livestock Production

#### Meat Production in the OIC and its Share in the World

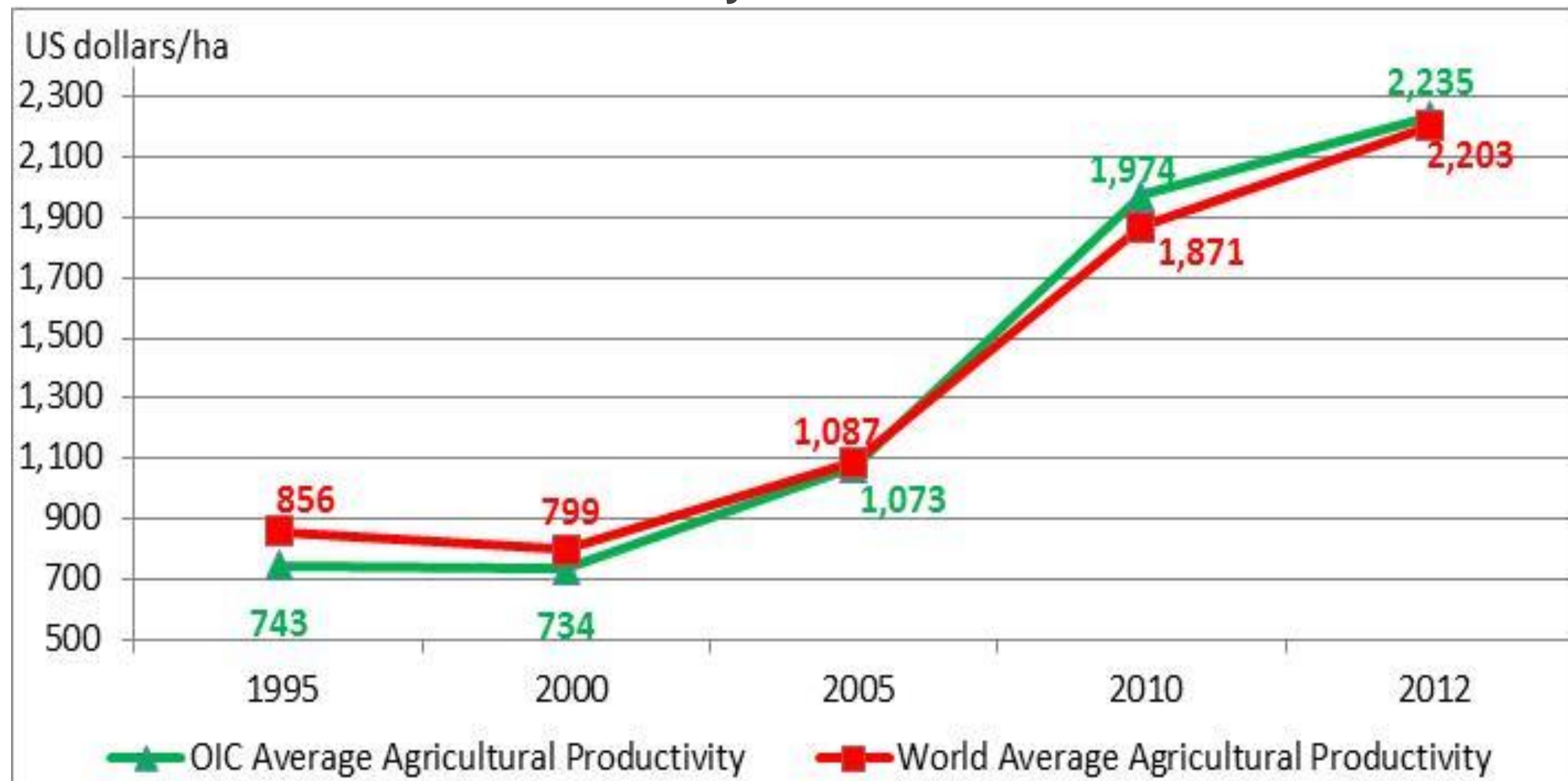




## 2. Sectoral Indicators

### ➤ Agricultural Productivity

Land Productivity in the OIC and World



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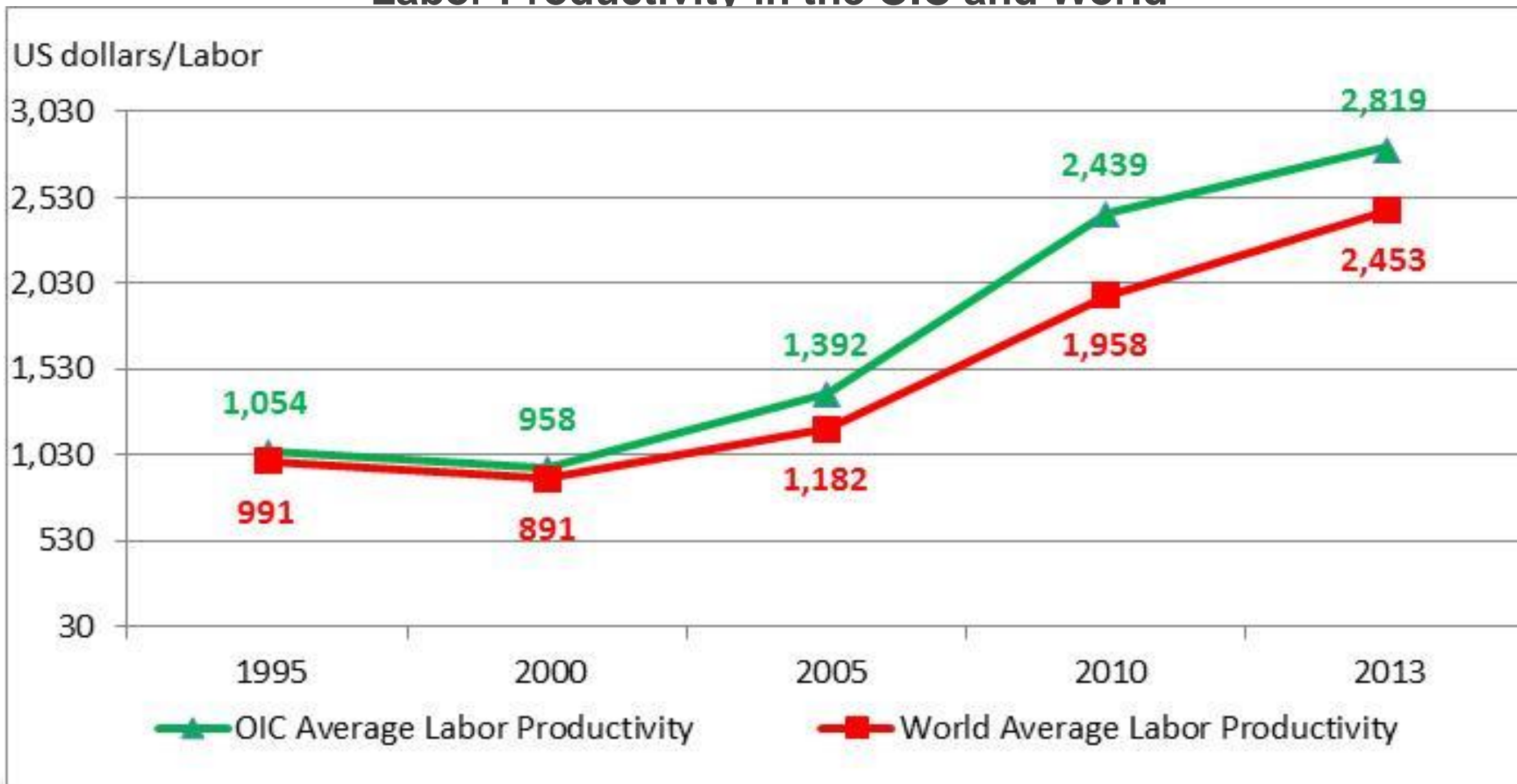
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## 2. Sectoral Indicators

### ➤ Agricultural Productivity

#### Labor Productivity in the OIC and World



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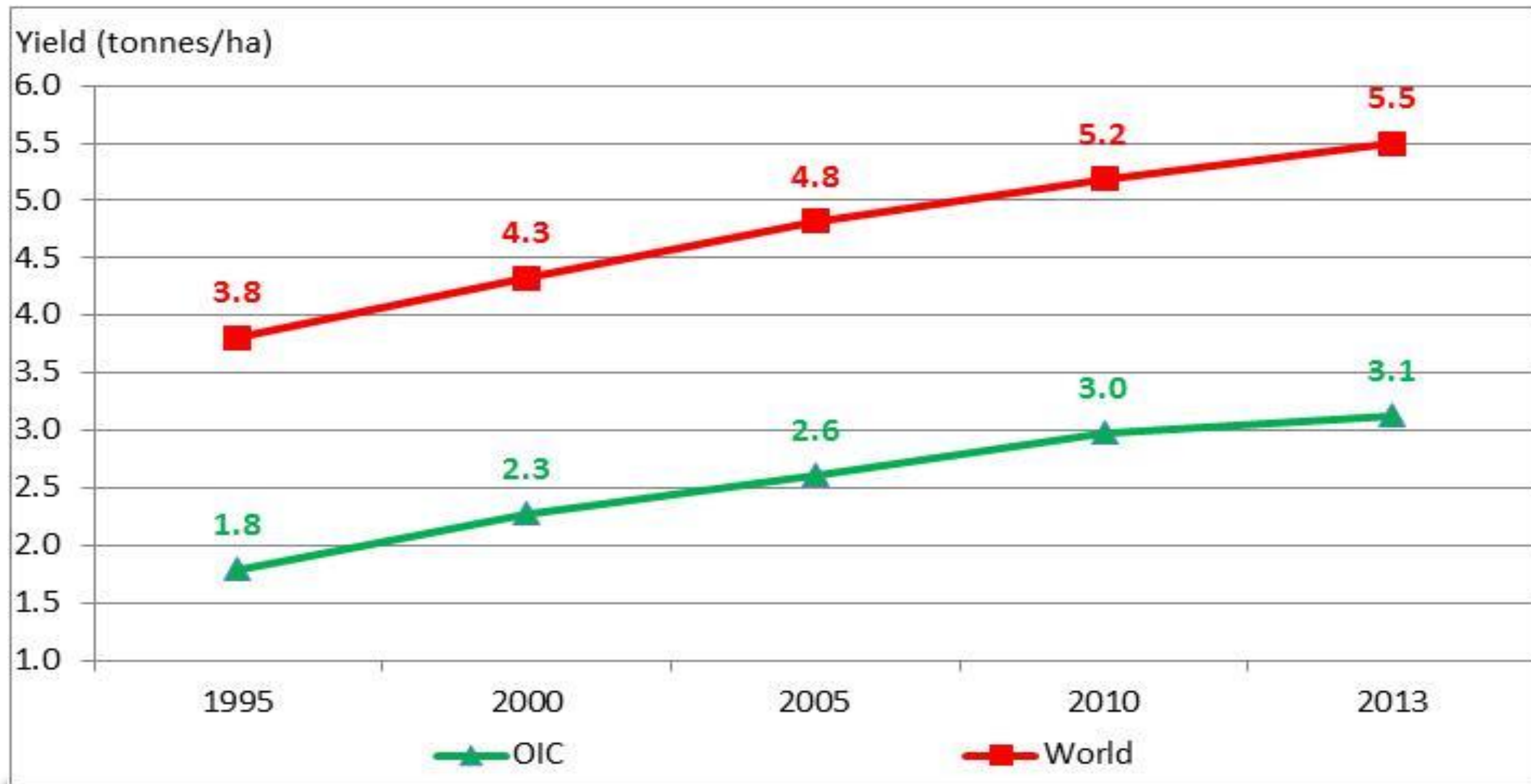
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## 2. Sectoral Indicators

### ➤ Agricultural Productivity

Maize Yield in the OIC and World

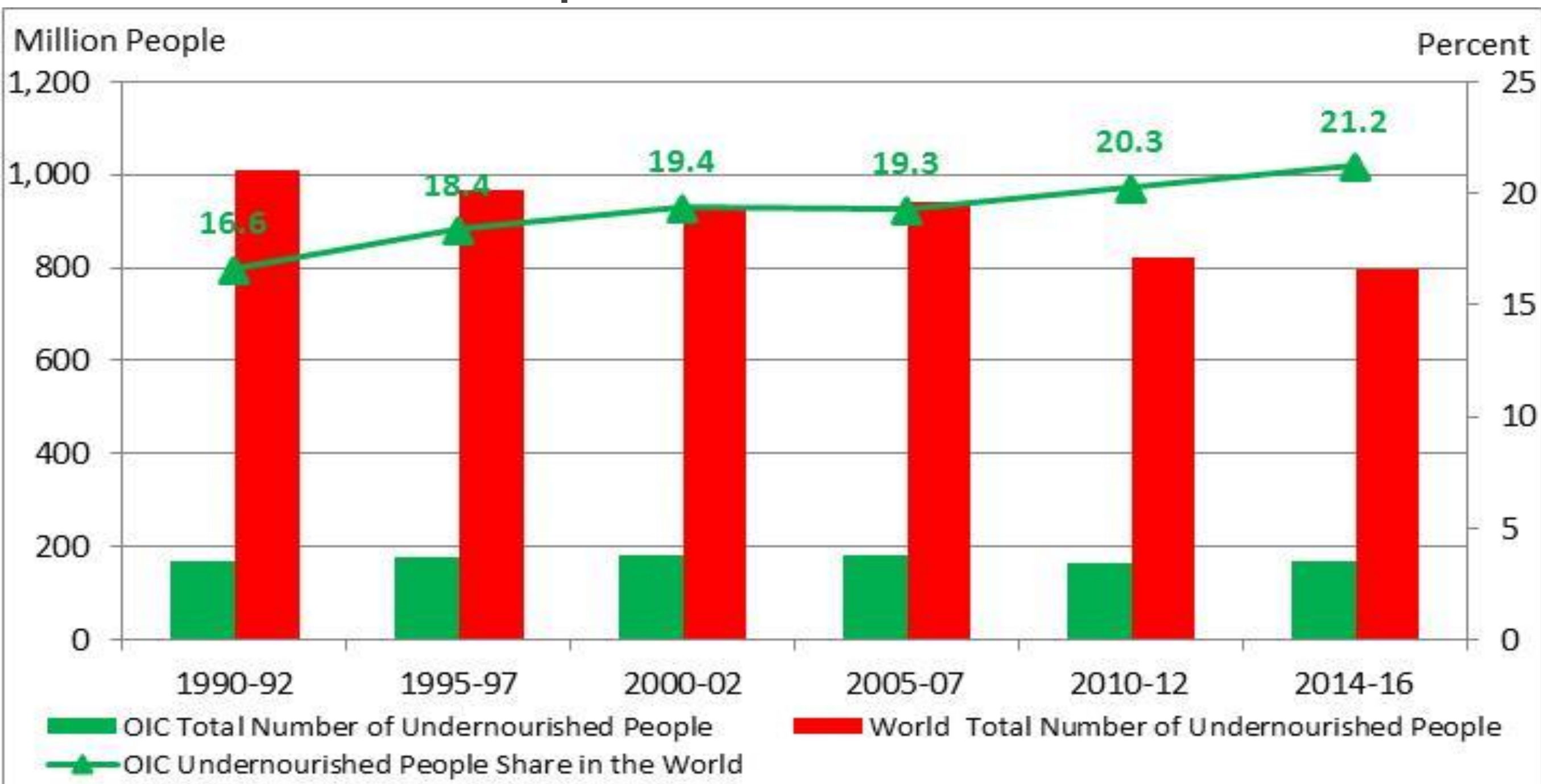




# 3. The State of Food Insecurity

➤ Availability, Access, Utilization, Stability

## Undernourished People in the OIC and its Share in the World



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### 3. The State of Food Insecurity

#### ➤ Food Security Index

#### **Global Food Security Index, 2014**

- ❑ The Global Food Security Index considers the core issues of affordability, availability, quality and safety across a set of 109 countries.
- ❑ The overall goal of the study is to assess which countries are most and least vulnerable to food insecurity through the categories of Affordability, Availability, and Quality and Safety.
- ❑ All scores are normalized on a scale of 0-100 where 100=most favorable.





# 3. The State of Food Insecurity

## ➤ Food Security Index

### Global Food Security Index, 2014

Best Environment Score 72-89			Good Environment Score 54-72			Moderate Environment Score 38-54			Needs Improvement Score 25-38		
<b>1</b>	United States	89,3	<b>2</b>	Un. Arab Emirates	70,9	Kazakhstan	53,3		Cameroon	38,1	
<b>2</b>	Austria	85,5	<b>3</b>	Saudi Arabia	69,6	Jordan	53,0		Nigeria	36,5	
<b>3</b>	Netherlands	84,4	<b>4</b>	Malaysia	68,0	Azerbaijan	50,3		Bangladesh	36,3	
<b>4</b>	Norway	84,4	<b>5</b>	Turkey	63,8	Morocco	50,1		Sierra Leone	35,8	
<b>5</b>	Singapore	84,3				Egypt	49,3		Yemen	35,2	
<b>6</b>	Switzerland	84,2				Algeria	47,5		Mali	33,4	
<b>7</b>	Ireland	84,0				Indonesia	46,5		Sudan	32,7	
<b>8</b>	Canada	83,7				Uzbekistan	46,0		Guinea	32,5	
<b>9</b>	Germany	83,7				Uganda	45,6		Burkina Faso	31,6	
<b>10</b>	France	83,4				Cote d'Ivoire	44,7		Mozambique	31,0	
...	...	...				Pakistan	43,6		Niger	30,5	
...	...	...				Ghana	43,1		Togo	28,4	
<b>1</b>	Kuwait	72,2				Syria	40,3		Chad	25,5	
						Tajikistan	38,7				
						Benin	38,4				
						Senegal	38,4				



# 3. The State of Food Insecurity

## ➤ Food Security Index

### Global Food Security Index, 2014

	SCORE IMPROVED			SCORE DECLINED	
1	Uganda	5,8		Egypt	-2,9
2	Togo	5,2		Tunisia	-2,9
3	Benin	4,8		Niger	-1,6
4	Mali	4,7		Bangladesh	-1
5	Sierra Leone	4,7		Mozambique	-1
6	Sudan	4,7		Burkina Faso	-0,4
7	Azerbaijan	4,6		Morocco	-0,4
8	Cote d'Ivoire	4,3		Jordan	-0,2
9	Nigeria	3,4			
10	Saudi Arabia	2,5			
	26/34 Score Improved			8/34 Score Declined	



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*Thank You...*

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Agriculture Working Group Meeting  
October 8<sup>th</sup>, 2015  
Ankara, Turkey