

8th INTERNATIONAL FORUM ON FOOD AND NUTRITION

Milan, December 4-5 2017



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ALEX THOMSON

Anchor and Chief Correspondent Channel 4 News, UK

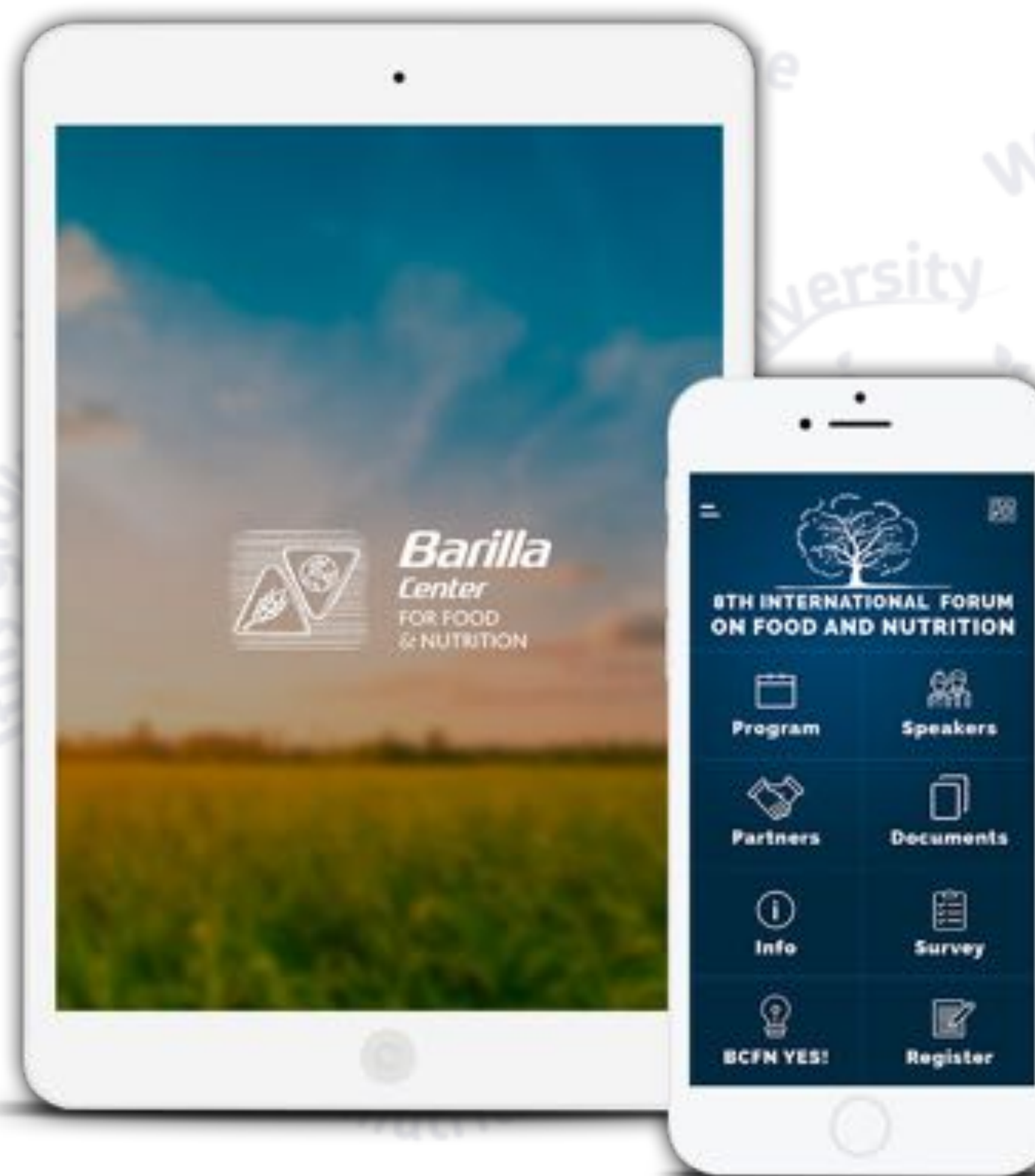


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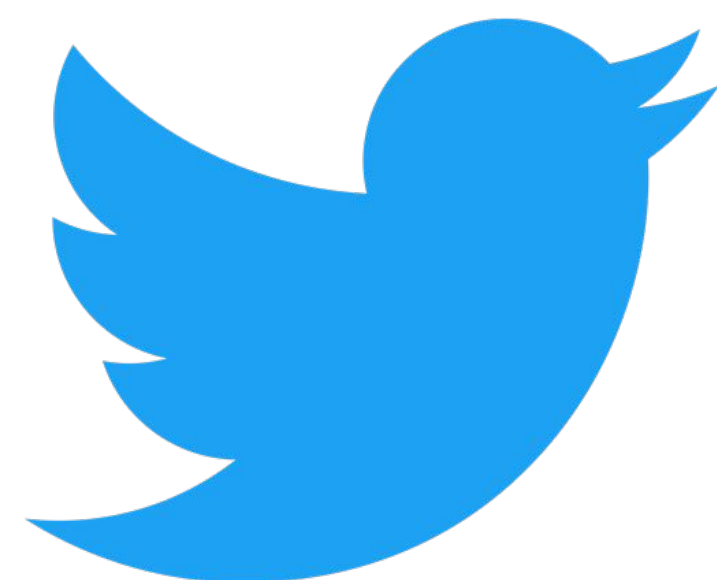
BCFN APP

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@BarillaCFN

live tweet: #BCFNforum



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AMONG THE FOLLOWING SDGS, WHICH IS THE MOST IMPORTANT FOR YOU?

1. NO POVERTY
2. ZERO HUNGER
3. GOOD HEALTH AND WELL-BEING
4. SUSTAINABLE CITIES AND COMMUNITIES
5. RESPONSIBLE CONSUMPTION AND PRODUCTION
6. CLIMATE ACTION



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JEFFREY SACHS

*Director, Earth Institute, Columbia University
and Director, Sustainable Development Solution Networks*



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LEO ABRUZZESE

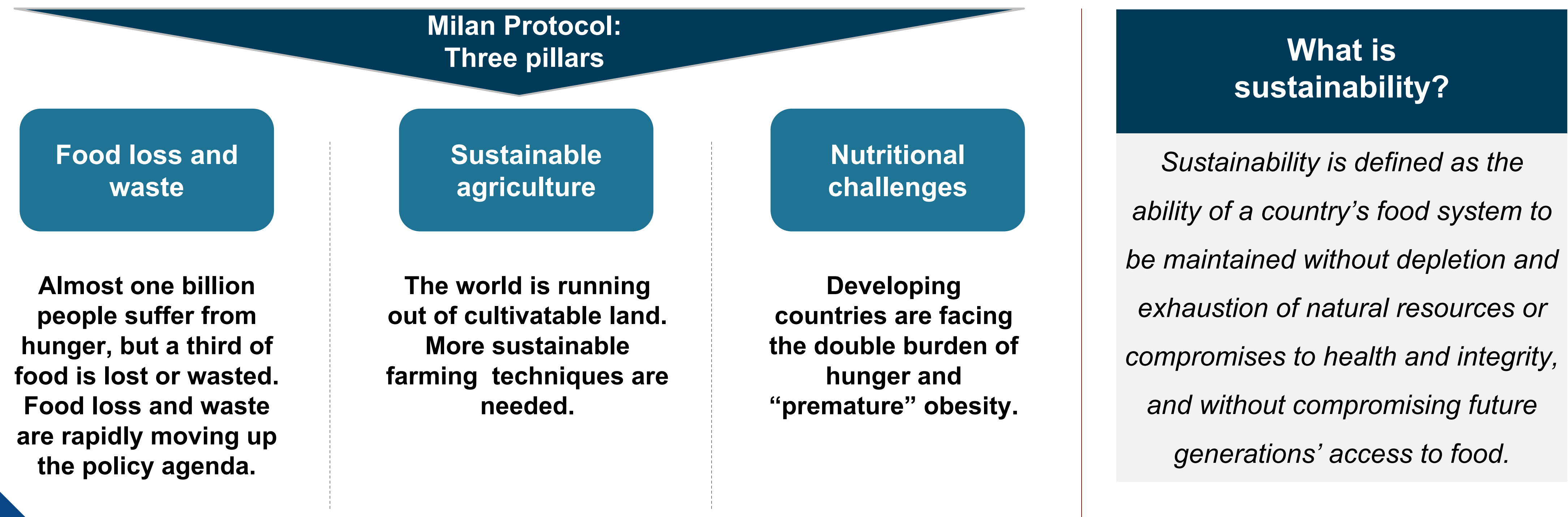
*Global Director, Public Policy,
Economist Intelligence Unit (EIU)*



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- **The Food Sustainability Index (FSI)** measures the sustainability of food systems in 34 countries across three pillars outlined in the 2015 BCFN Milan Protocol, and is designed around the Sustainable Development Goals (SDGs).
- The Index contains 35 indicators, and more than 50 sub-indicators that address societal, environmental and economic themes.



Food Sustainability Index indicator framework

The Economist

Intelligence Unit



- Water footprint
- Ag water withdrawals
- Initiative to recycle water for ag
- Fish stocks
- Nitrogen Use Efficiency
- Land under organic ag
- Sustainable urban farming initiatives
- Laws to protect smallholders
- Quality of ag subsidies
- Biodiversity
- R&D expenditure
- Total factor productivity

- Food lost as % of total food
- Policy response to food loss
- Causes of distribution-level loss
- Solutions to distribution-level loss
- Food waste per capita per year
- Policy response to food waste



- Undernourishment
- Stunting
- Iodine deficiency
- Health life expectancy
- Prevalence of overweight
- DALYs for nutrition deficiencies
- Physical activity
- Sugar in diets
- Meat consumption
- Salt consumption
- GINI coefficient
- Policy response to dietary patterns
- Nutrition education

* Selected indicators only.

2017 Index: Additions and refinements

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Economist

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Unit



Expert feedback and discussion resulted in extensive revisions and additions to the 2017 FSI framework

How has the index been improved?

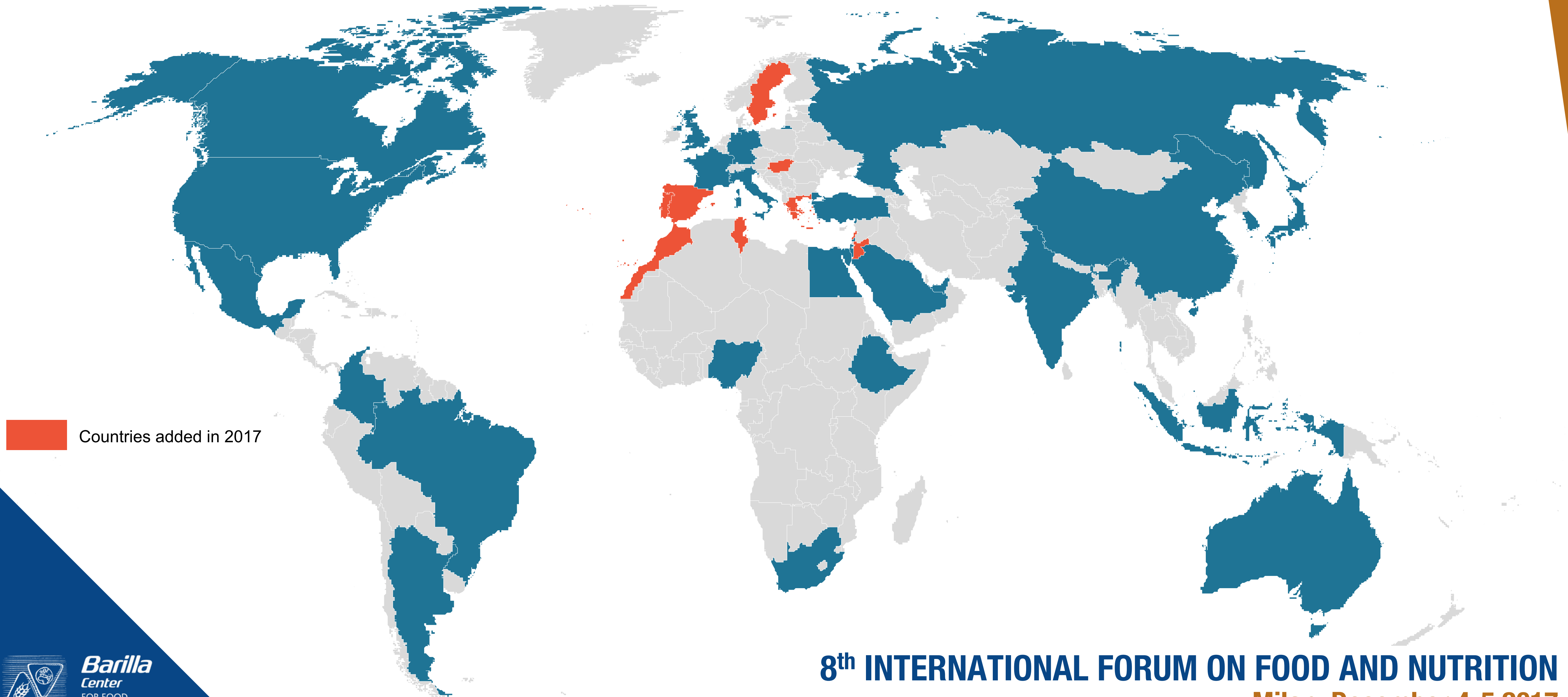
- **Sustainable agriculture additions:** new indicators around nitrogen use efficiency, fish stocks, deforestation and working conditions;
- **Sustainable agriculture refinements:** a new metric for environmental biodiversity and more granular metrics around investment in R&D;
- **Nutritional challenges additions:** new metrics around consumption (meat, fat and salt), nutrition education and nutrition enabling factors (e.g., breastfeeding prevalence and access to improved water sources);
- **Additional background variables** have been added to provide additional context for analysis.

Geographic scope

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The FSI represents over 85% of global GDP and two-thirds of the global population.

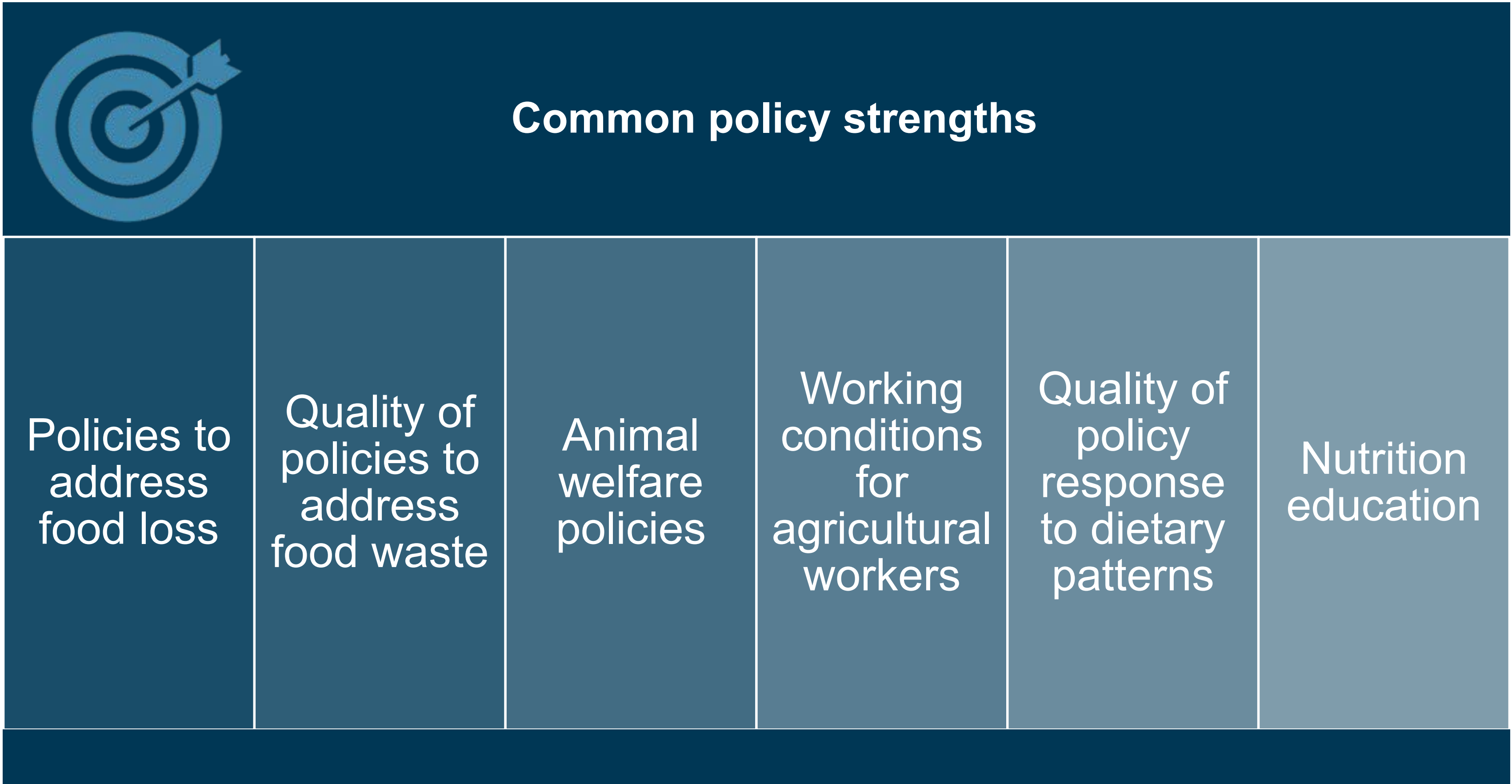


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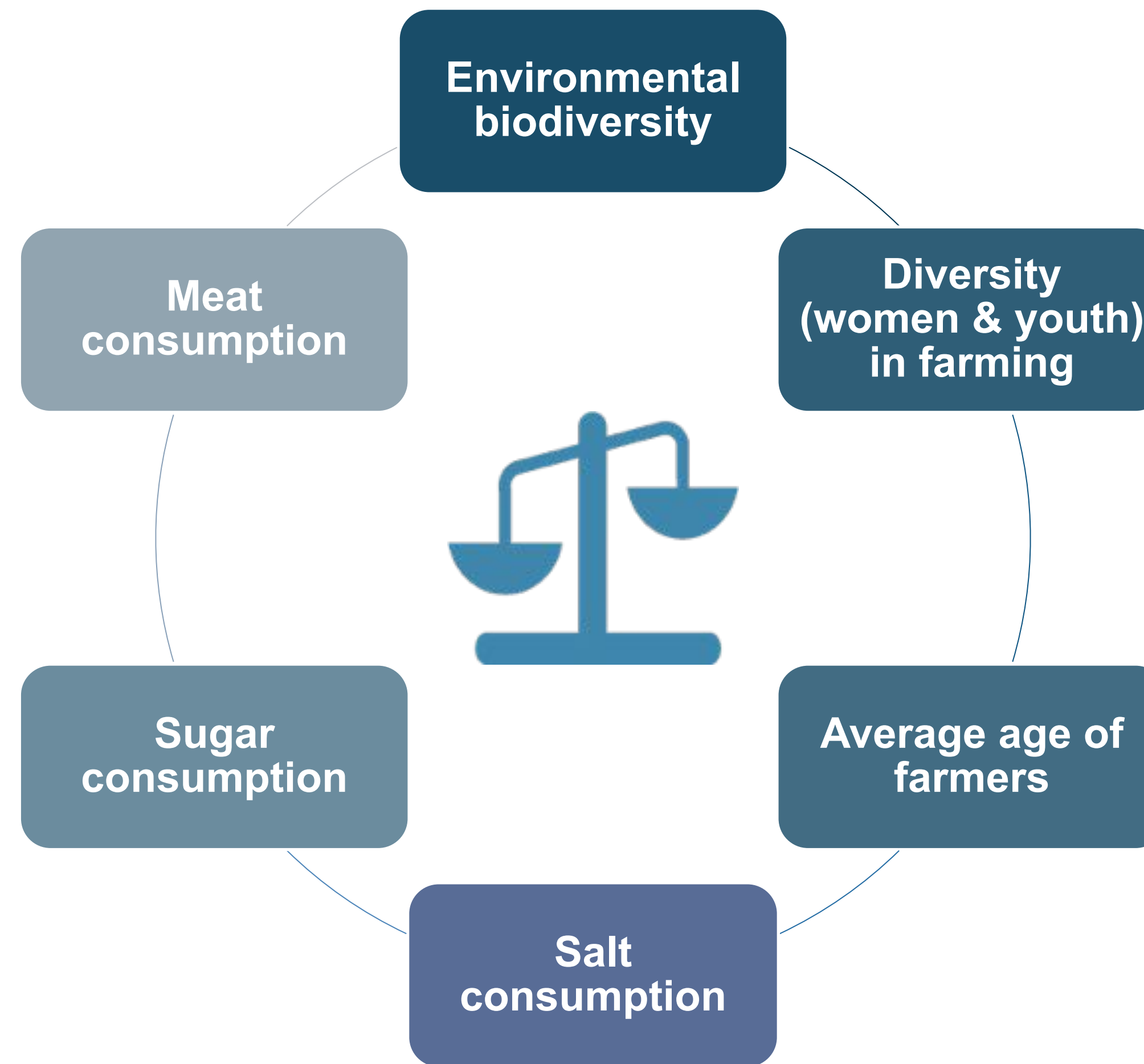
Key Findings: Policy impacts

Countries with robust policy environments have more sustainable food systems.



Key Findings: Food-system gaps

Even high-performing countries have challenges that need to be addressed to maximise long-term food sustainability.



Spotlight: Food sustainability in the Mediterranean

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Unit

While the northern Mediterranean countries perform well across the three index pillars, the southern and eastern countries have less sustainable food systems.

FOOD LOSS & WASTE



- Insufficient policies to address food waste plague the SEMCs
- The northern Mediterranean countries have proactive government policies to limit food loss and waste
- Poor road infrastructure and low investment in transport hurt the SEMCs

WATER



- The water footprint of many SEMCs is lower than their northern counterparts
- Water withdrawal in the Middle East is particularly unsustainable
- Many SEMCs are engaged in local initiatives to recycle water, but projects are small-scale

LAND



- Most countries across the region have embraced organic agriculture
- SEMCs have fewer policies to protect smallholders, and poor animal welfare regulations
- Educated farmers support the overall sustainability of food systems

NUTRITIONAL CHALLENGES



- Malnourishment plagues the SEMCs
- Mediterranean countries suffer from higher obesity rates than Asian countries, but the SEMCs have the fewest DALYs from nutritional deficiencies globally
- SEMCs consume the recommended meat intake, unlike their northern neighbours

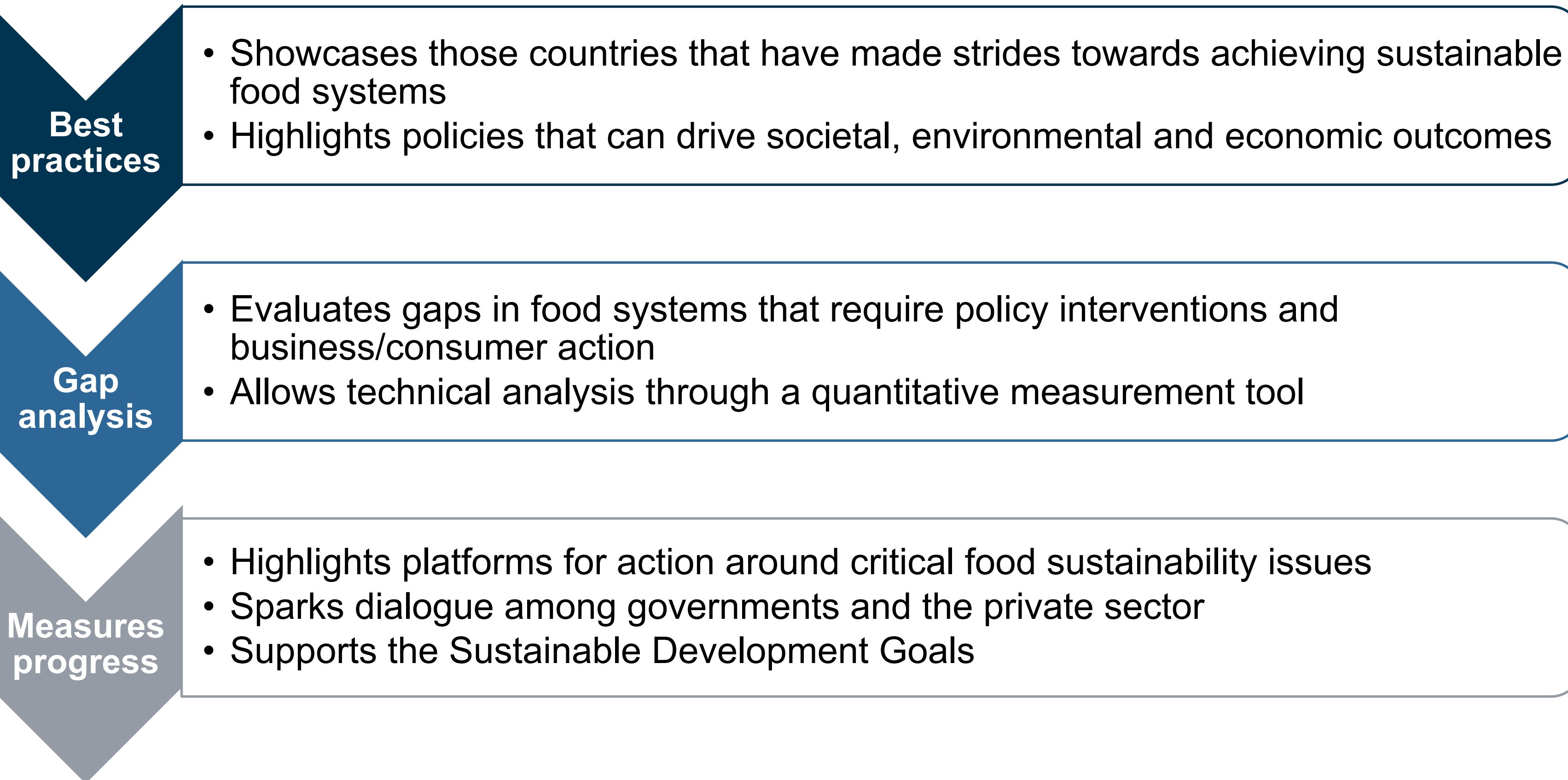


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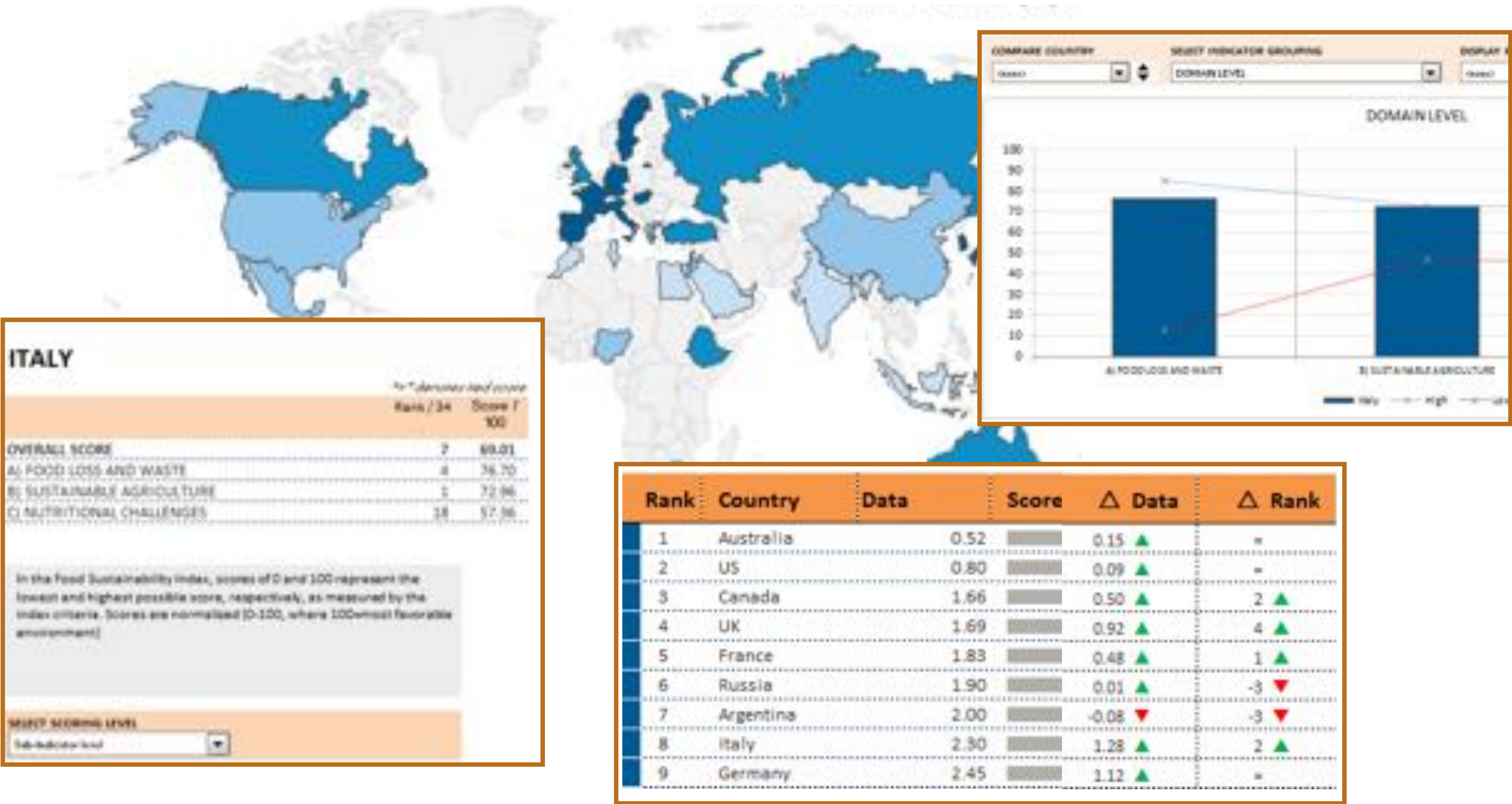
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Using the Food Sustainability Index

The Food Sustainability Index helps stakeholders understand sustainability challenges and identify best practices that can improve food systems globally.



Exploring the index analysis tool



Mapping the SDGs to the FSI



FSI theme	Corresponding SDGs
Food loss and waste	
Food loss	12, 2, 15
End-user food waste	12, 2, 15
Sustainable agriculture	
Water	6, 12, 14
Land	3, 4, 8, 9, 10, 12, 13, 15
Air	13, 15, 11, 12, 7
Nutritional challenges	
Life quality	1, 2, 3
Life expectancy	3, 4
Dietary patterns	1, 3



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WHAT IS THE MOST EFFECTIVE MEASURE TO TACKLE THE EFFECTS OF A CHANGING CLIMATE?

- **INDIVIDUAL LIFESTYLE CHANGE**
- **AWARENESS AND EDUCATIONAL CAMPAIGNS**
- **SCIENTIFIC RESEARCH**
- **INTERNATIONAL PARTNERSHIP AND COOPERATION**
- **POLICIES**



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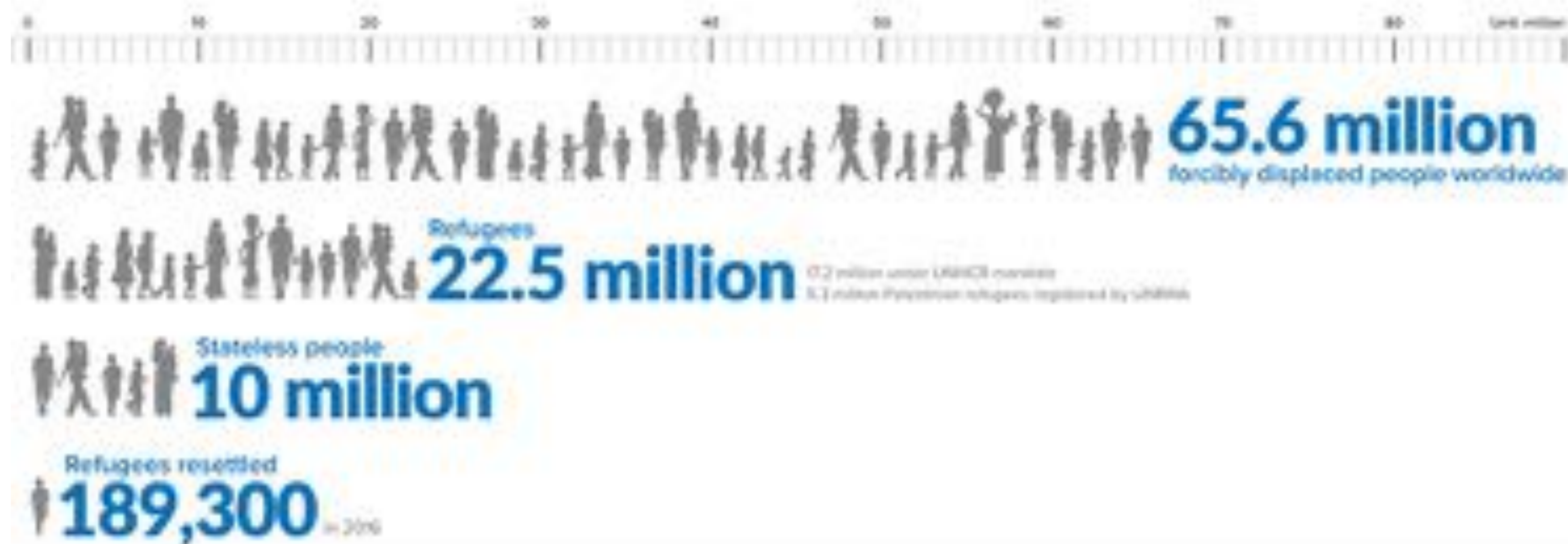
MELISSA FLEMING

*Chief Spokesperson, United Nations
High Commissioner for Refugees (UNHCR)*

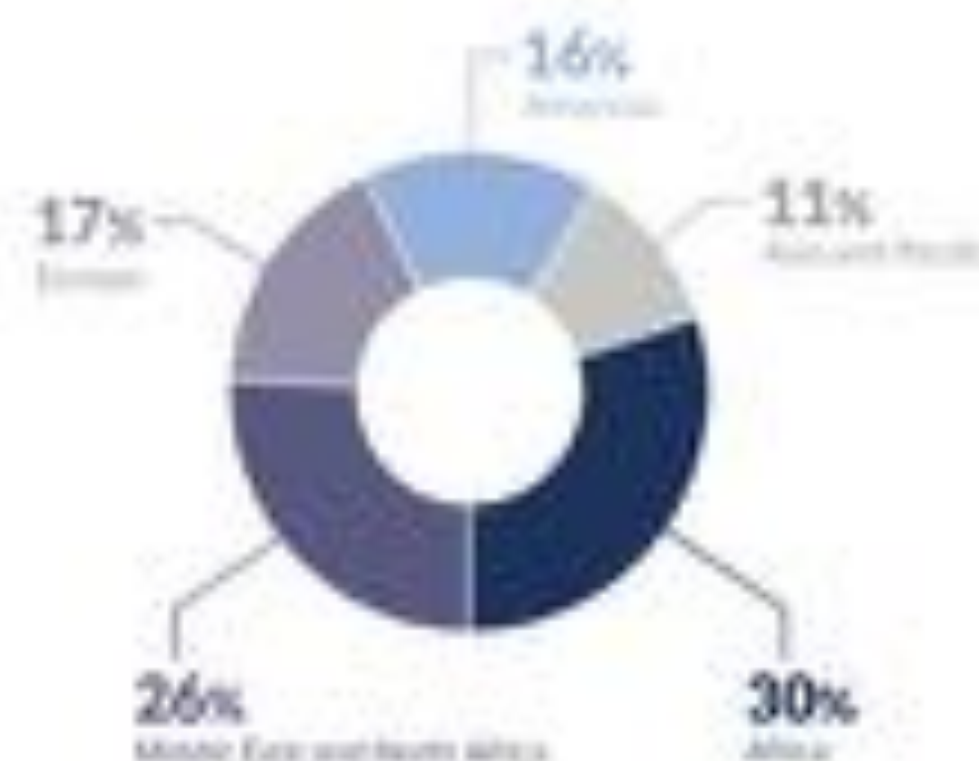


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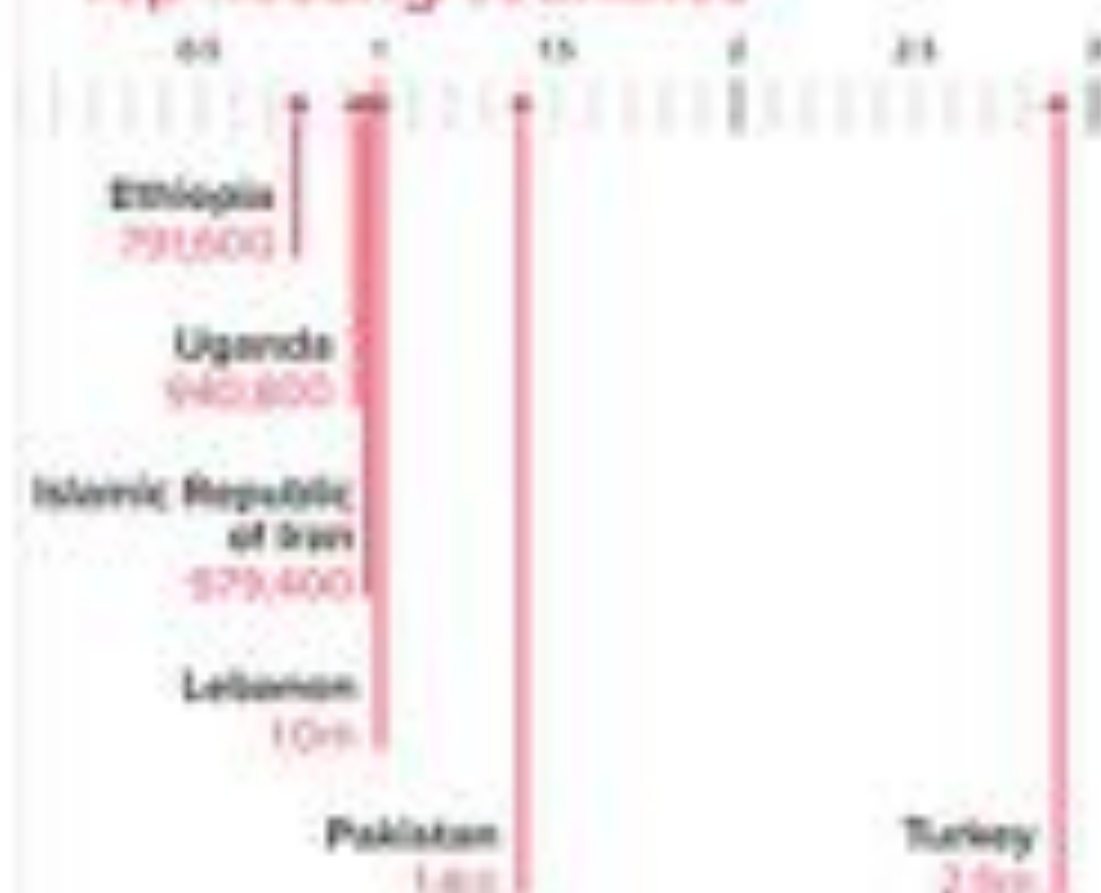
Where the world's displaced people are being hosted



55% of refugees worldwide came from three countries



Top hosting countries



28,300 people
a day forced to flee their homes
because of conflict and persecution

© UNHCR

10,900 staff
UNHCR employs 10,900 staff
as of 31 May 2017

130 countries
We work in 130 countries
as of 31 May 2017

We are funded almost entirely by
voluntary contributions, with 67 per
cent from governments and the
European Union.



**Statistics are human beings
with the tears dried off**























20/10/20

















REFUGEES WELCOME 



**“Compassion is a muscle
that gets stronger with use.”**

– Gandhi

**A
HOPE
MORE
POWERFUL
THAN
THE SEA**

*The Journey of
Doaa Al Zamel*

One Refugee's Incredible Story of
Love, Loss, & Survival

MELISSA FLEMING

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MONIA SANTINI

*Researcher Foundation Euro-Mediterranean Centre
on Climate Change (CMCC)*



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VULNERABILITY

EXPOSURE



SENSITIVITY



ADAPTIVE CAPACITY



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& Food Insecurity *Climate Change*

Key

Vulnerability to food insecurity



LOW

HIGH



PRESENT DAY



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The image displays three vertical posters side-by-side. Each poster has a background image: the first shows a dry, cracked landscape; the second shows a flooded field; the third shows a dry, cracked landscape. Each poster has a white text box in the center. The text in the boxes is as follows:

Climate change is
a **cause** of
human mobility

Human mobility can increase
risks and vulnerabilities

Human mobility is
an **adaptation
strategy** to
climate change

Human mobility can increase
resilience

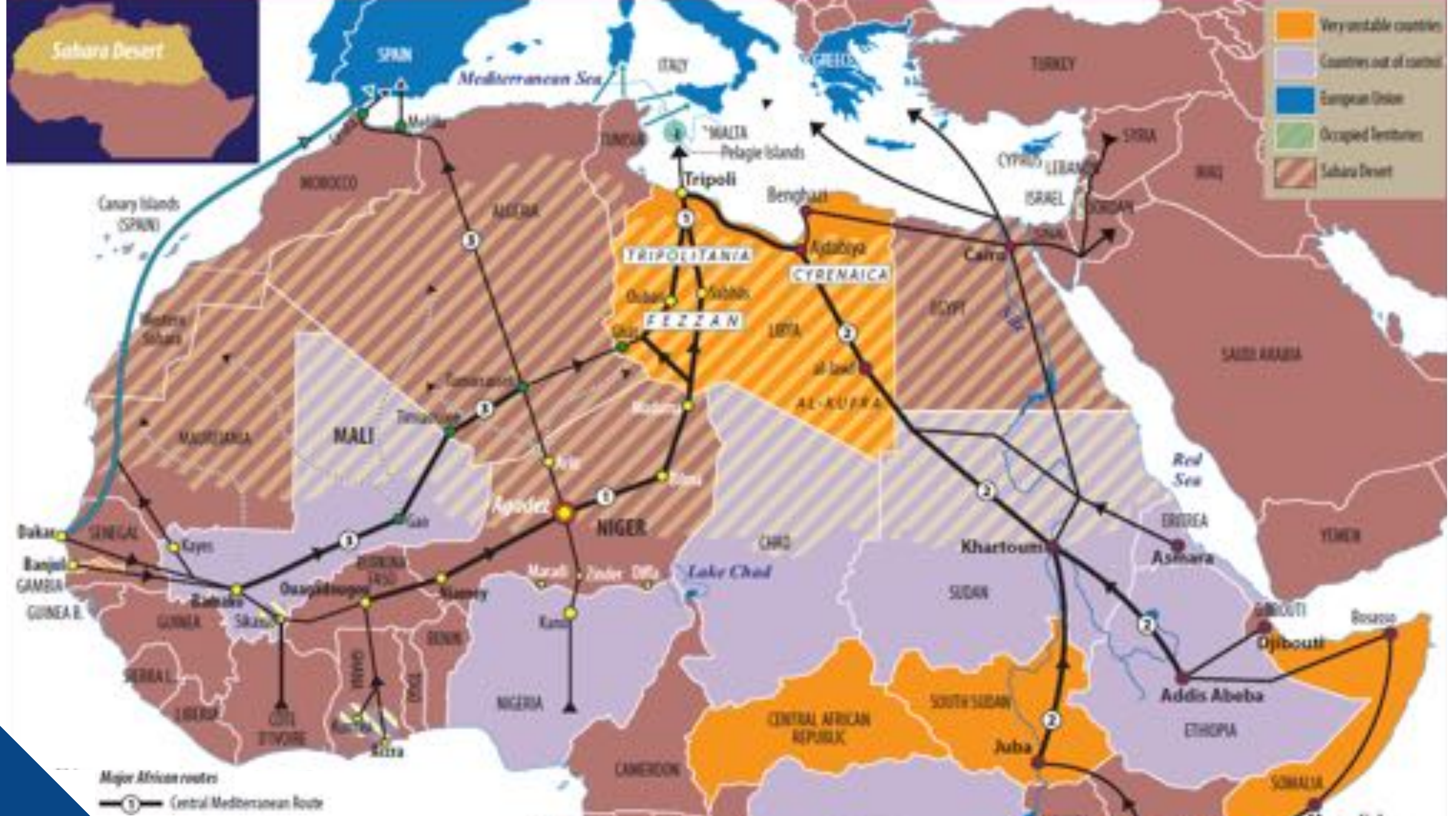
Climate change
**policy should
consider** human
mobility

Capacities to address migration,
displacement and planned
relocation need to be enhanced

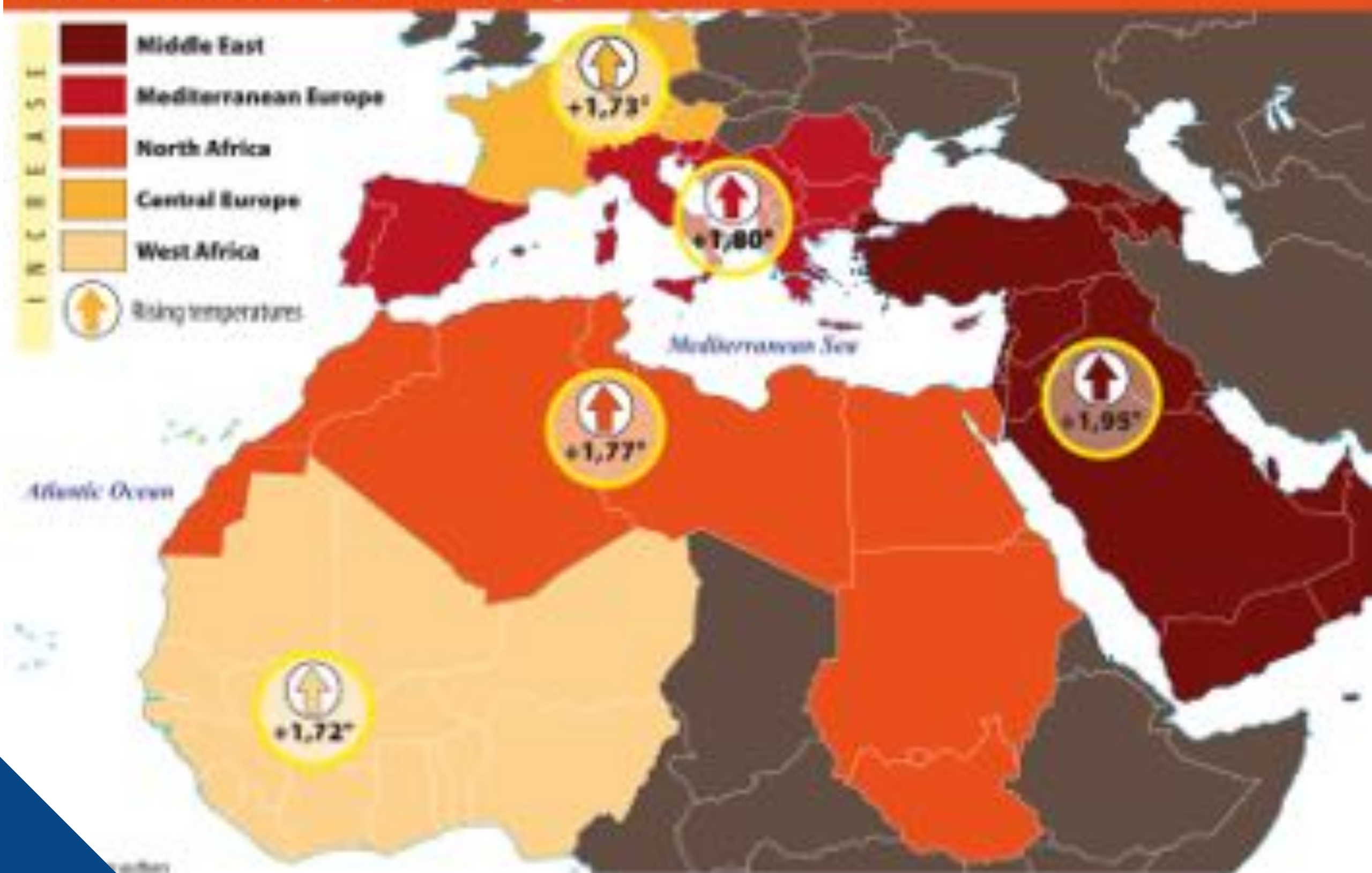


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THE WARMING (2005-2050)



THE DRYING (2005-2050)



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A person is walking away from the camera on a path through a field of tall, dry grass. In the background, a large industrial facility with several tall smokestacks is visible, emitting thick plumes of dark smoke into a cloudy sky. The sun is low on the horizon, creating a hazy, golden light. The overall mood is somber and contemplative, contrasting nature with industry.

Thank you



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LUCIO CARACCILO

President and Head of Geopolitics, Macrogeo



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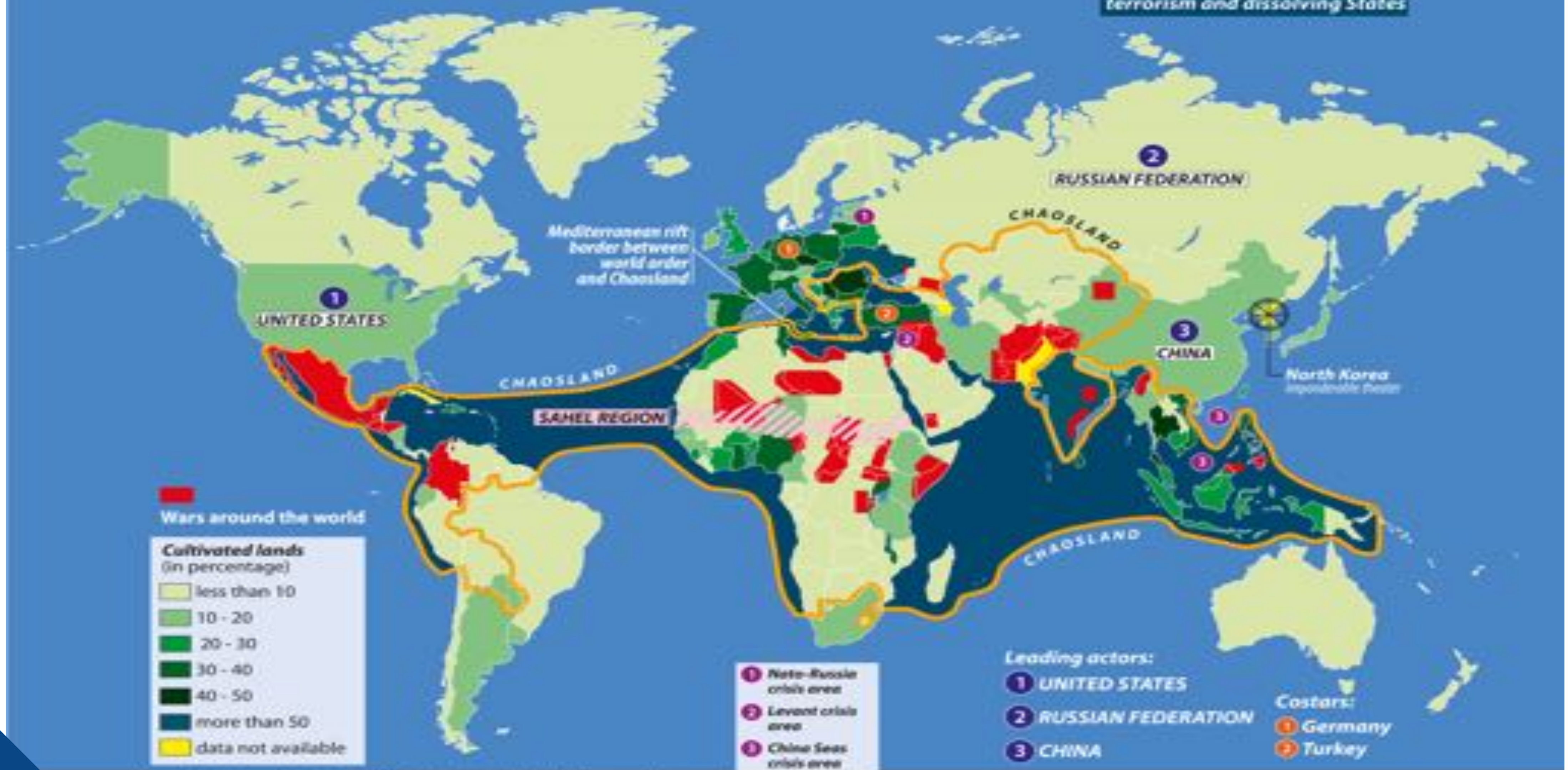


FOOD & MIGRATION

Understanding the geopolitical nexus
in the Euro-Mediterranean

CHAOSLAND

Area with the highest concentration of conflicts, terrorism and dissolving States

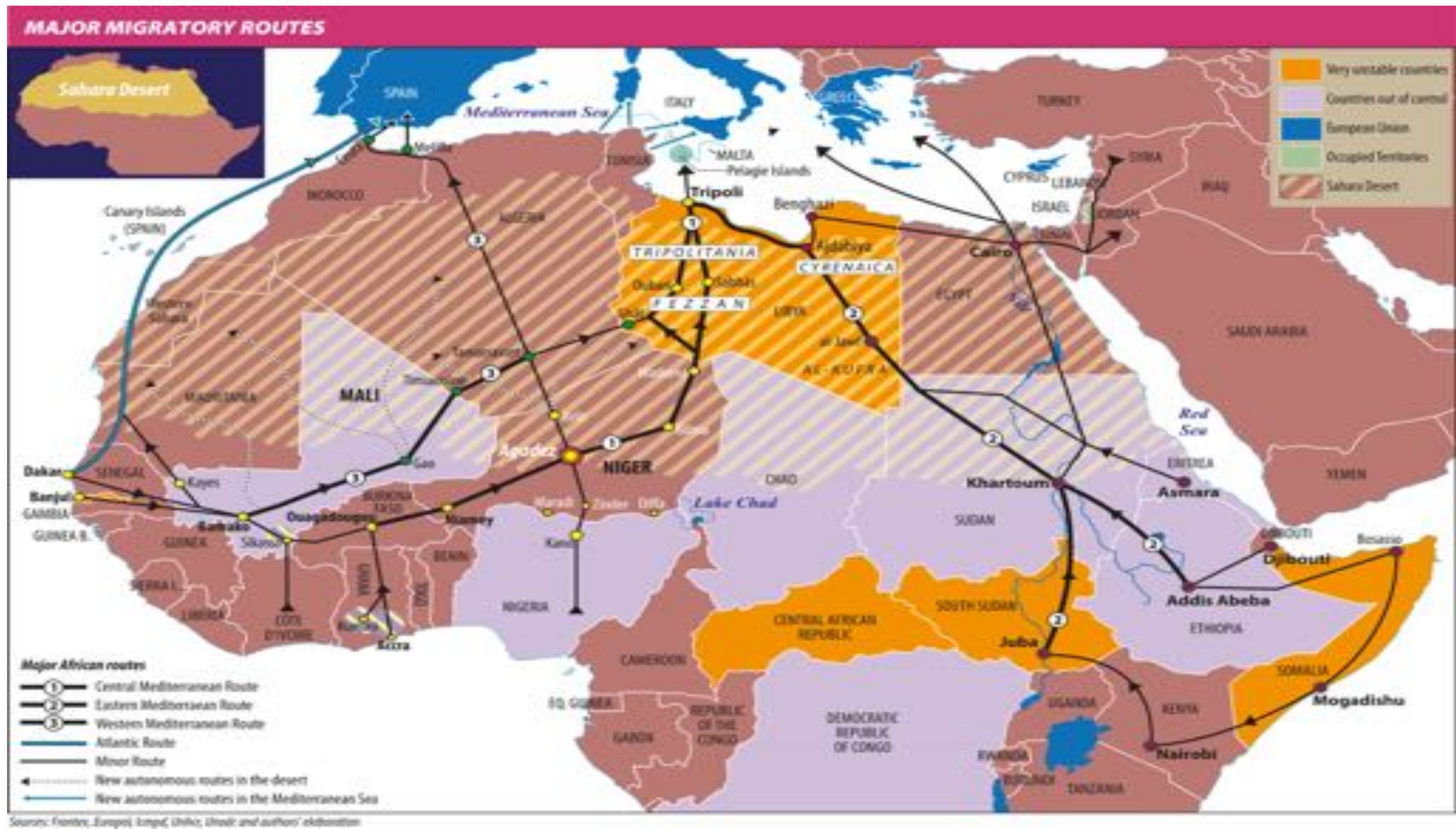


Source: Atlante-Geografico De Agostini 2011 and geopolitical analysis of Macrogeo authors

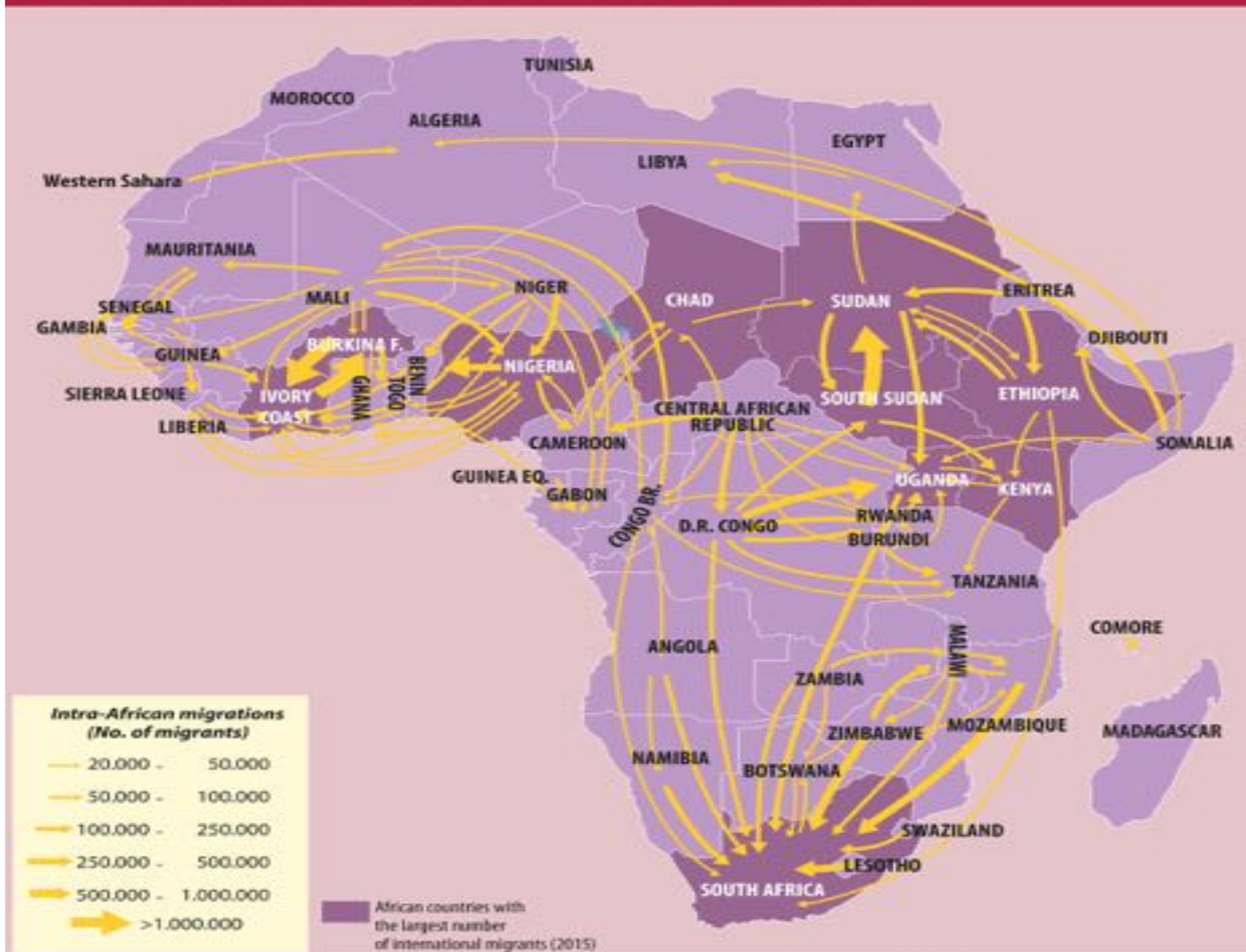


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MIGRATION OF POPULATIONS IN AFRICA



Source: ILO 2014

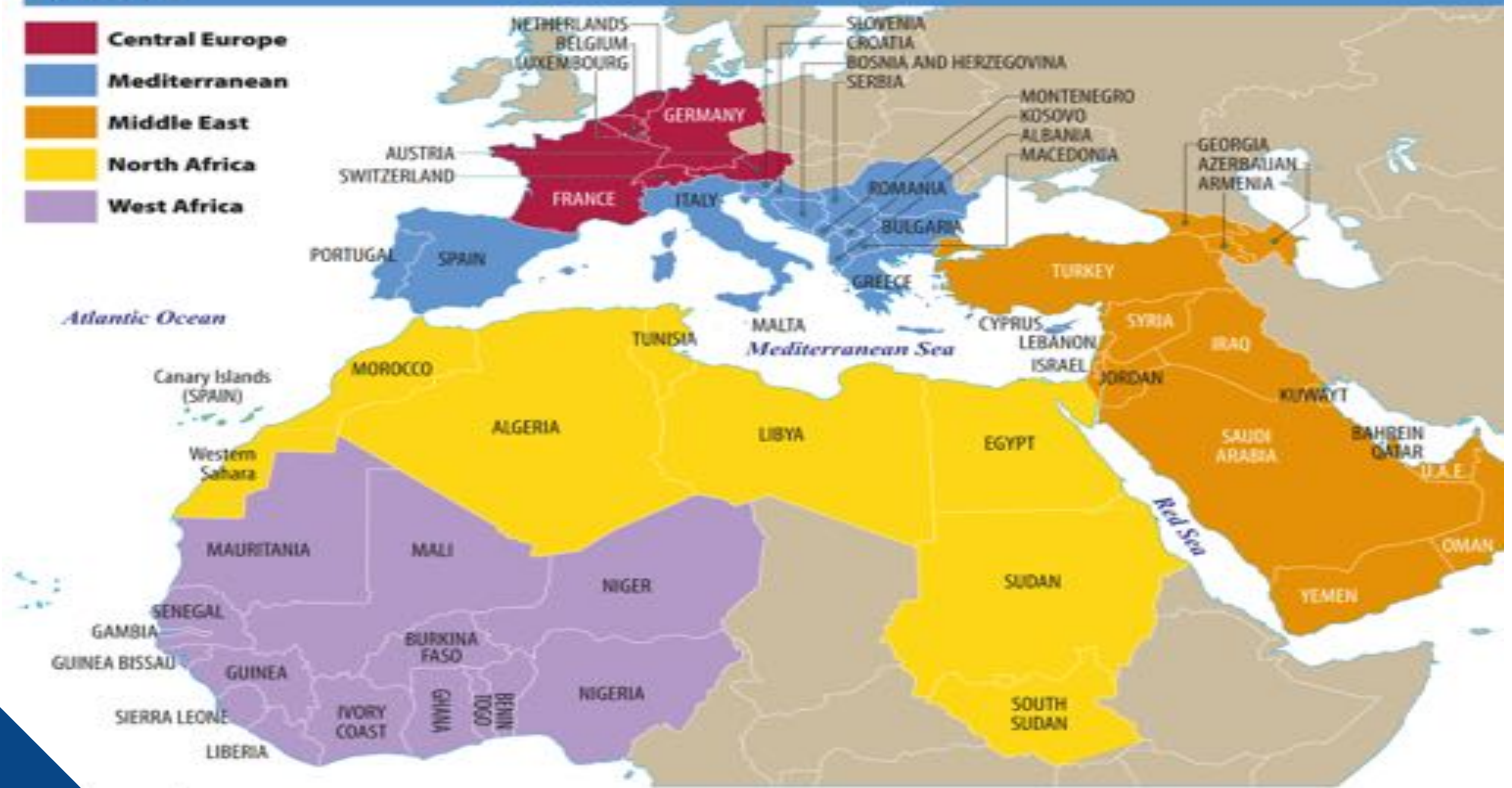


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REGIONS

- Central Europe**
- Mediterranean**
- Middle East**
- North Africa**
- West Africa**



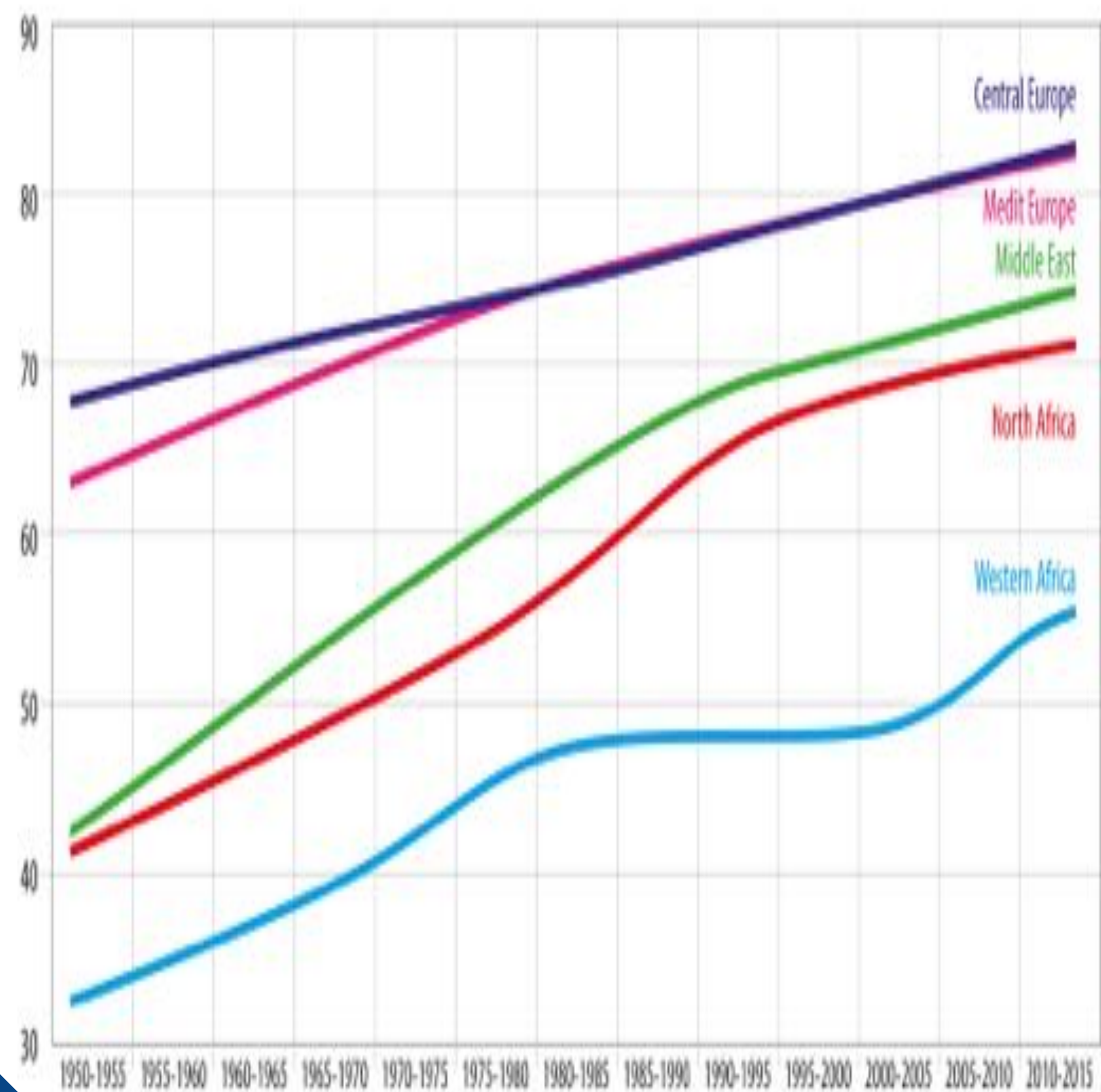
Map authors



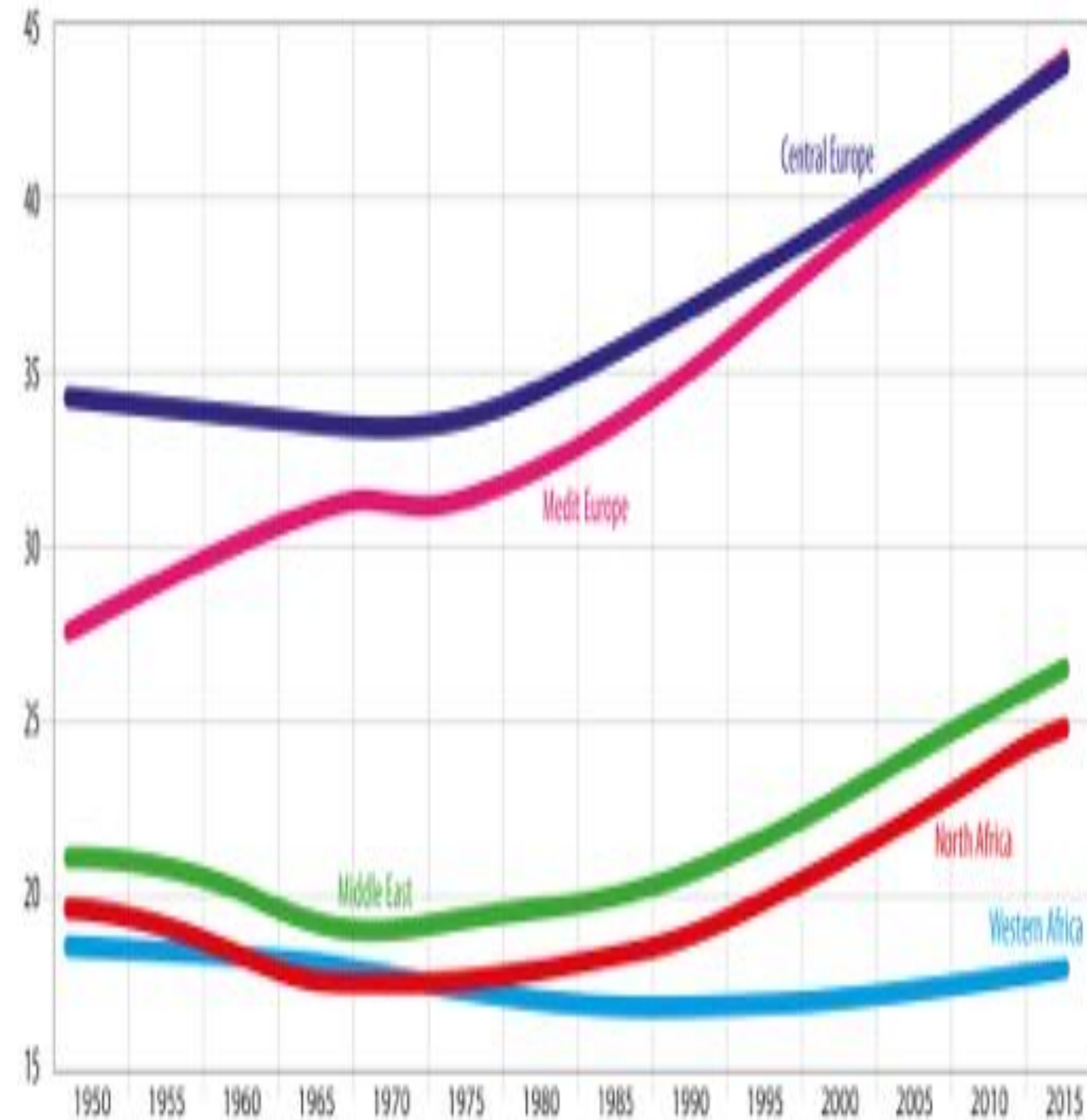
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EXPECTATION OF LIFE



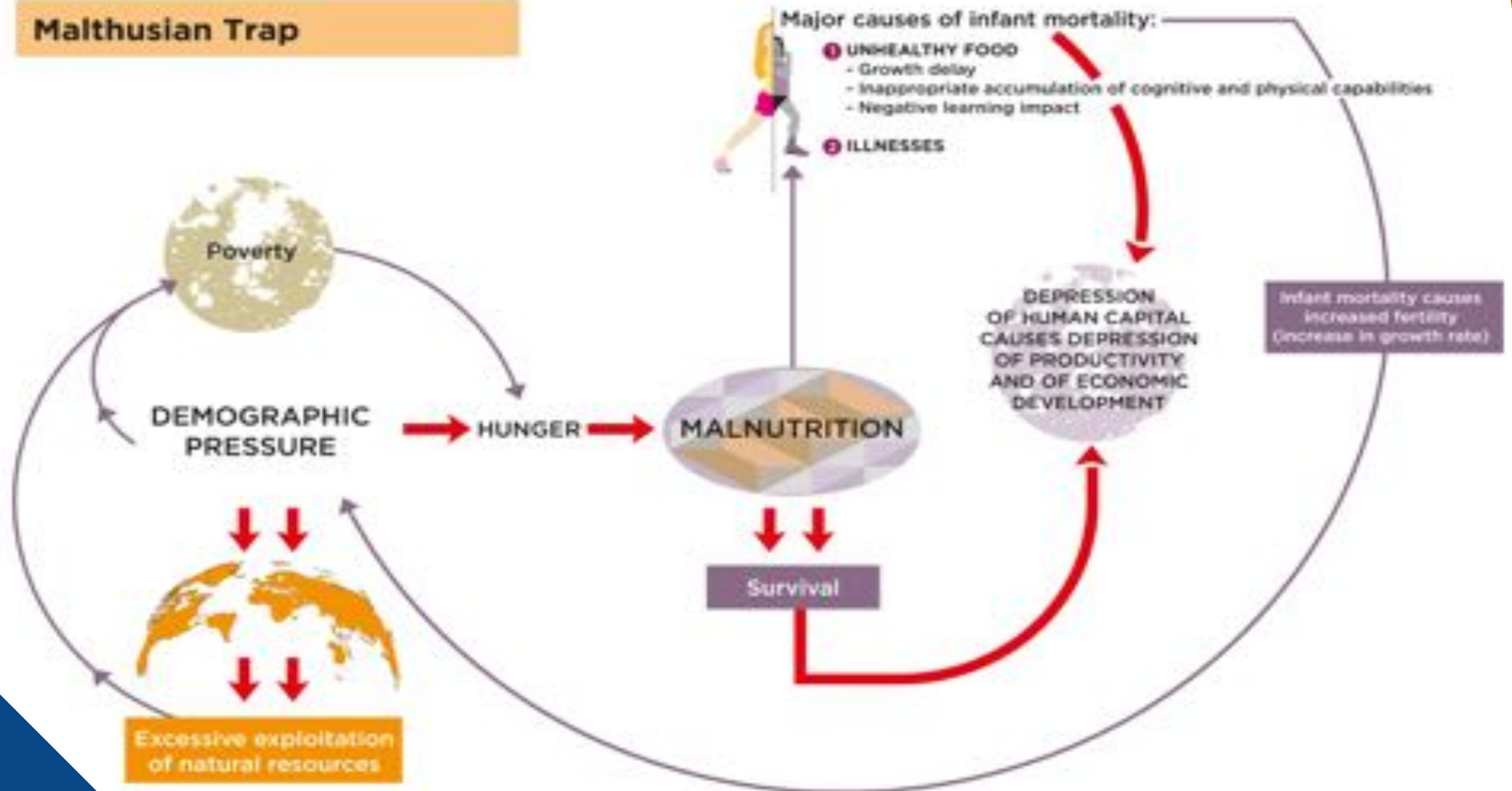
MEDIAN AGE



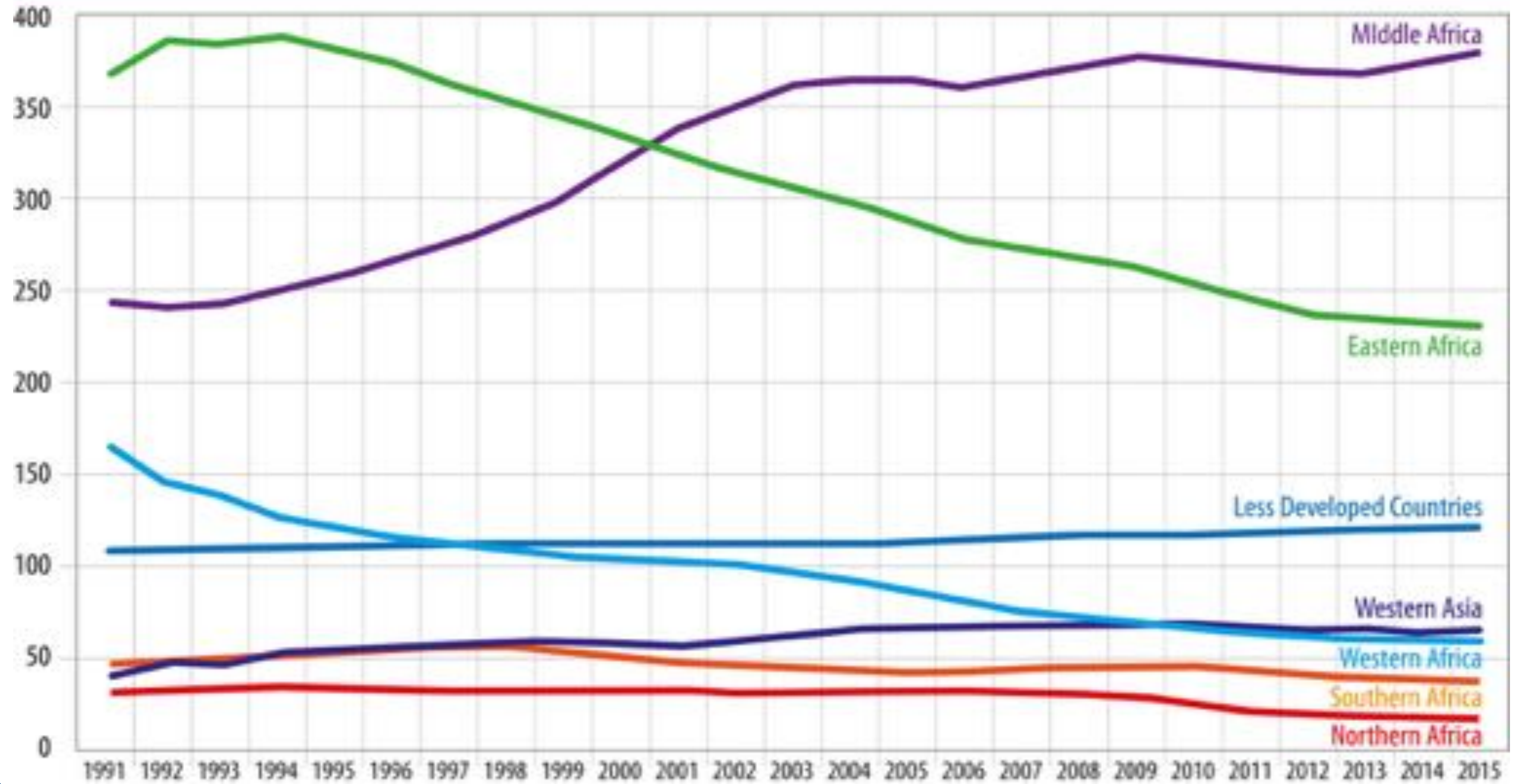
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Malthusian Trap



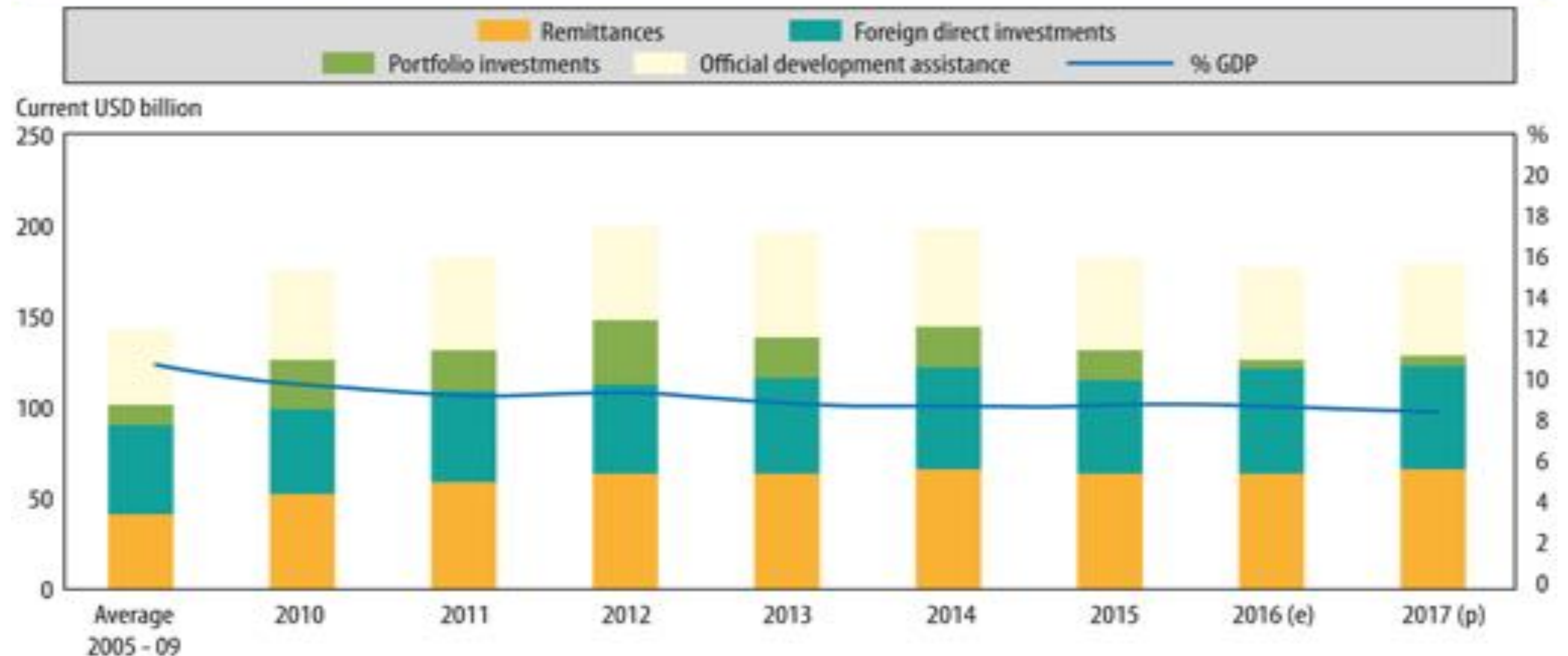
DEPTH OF FOOD DEFICIT



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EXTERNAL FINANCIAL FLOWS TO AFRICA, 2015-17



Note: ODA estimates (e) and projections (p) are based on real increase in Country Programmable Aid (CPA) in OECD (2016). The forecast for remittances is based on the projected rate of growth according to the World Bank. (This graph excludes loans from commercial banks, official loans and trade credits.)

Sources: Adapted from *African Economic Outlook* data, IMF (2016a), OECD (2016) and World Bank (2016b).

Statlink  <http://dx.doi.org/10.1787/888933474975>

REMITTANCES: FIFTEEN LARGEST RECIPIENT COUNTRIES IN AFRICA (RANKED BY % OF GDP), 2016

Country	%GDP	USD per capita	Current USD billion
<i>Liberia</i>	30.4	150	0,66
<i>Comoros</i>	21.4	161,4	0,13
<i>Gambia</i>	21	91,3	0,19
<i>Lesotho</i>	17.7	165,3	0,32
<i>Senegal</i>	13.2	127,4	1,96
<i>Cabo Verde</i>	12.1	384,7	0,20
<i>Togo</i>	10	60,3	0,45
<i>Morocco</i>	6.8	209,9	7,10
<i>Mali</i>	6.6	55,6	0,94
<i>Egypt</i>	5.7	204,9	18,66
<i>Guinea-Bissau</i>	5.6	36,3	0,07
<i>Sao Tome and Principe</i>	5.5	93,5	0,02
<i>Ghana</i>	5	78,1	2,15
<i>Nigeria</i>	4.8	108,9	20
<i>Tunisia</i>	4.8	180	2,02

Sources: Adapted from IMF (2016a) and World Bank (2016b).



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CASE STUDY:

REFOODGEEES OVERTURNING THE VICTIM ROLE OF ASYLUM SEEKERS BY EMPOWERING THEM THROUGH FOOD



According to a survey by the Organization for Economic Cooperation and Development, Germany is the second most popular migration destination in the world after the United States. It is estimated that about 11 million of the people currently living in Germany were actually born elsewhere, meaning that over one in eight members of the German population is an immigrant. Since the 1960s, Germany has been one of Europe's major

migrant destinations but, with the beginning of the recent refugee crisis in 2015, more than a million of asylum seekers from outside EU have arrived in the country. During such a crisis, it has been calculated that German states spent around €23 billions on refugees in 2016 to be able to welcome them all. Because Germany is federally organised and migrants are distributed very heterogeneously, a vast variety of different initiatives can be found at

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MILLION BELAY

*Founder, Alliance for Food Sovereignty in Africa (AFSA)
and Researcher at the Stockholm Resilience Centre*



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Outline of presentation

What is AFSA

What is food sovereignty

Why do African migrate

What happens to their
food sovereignty when
Africans migrate?



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Purpose is creating single African voice

36 networks of networks – the biggest in the Continent
Representing food producers (*farmers, fisher folks and pastoralists*), women, youth, faith based organizations, consumer groups and indigenous groups.

Potentially reaching 200 Million Africans

AFSA believes in:

- Championing small African family farming/production systems – through Agro-ecology and Farmers Managed Seed System
- Promoting healthy and nutritious food systems in the context of food sovereignty.

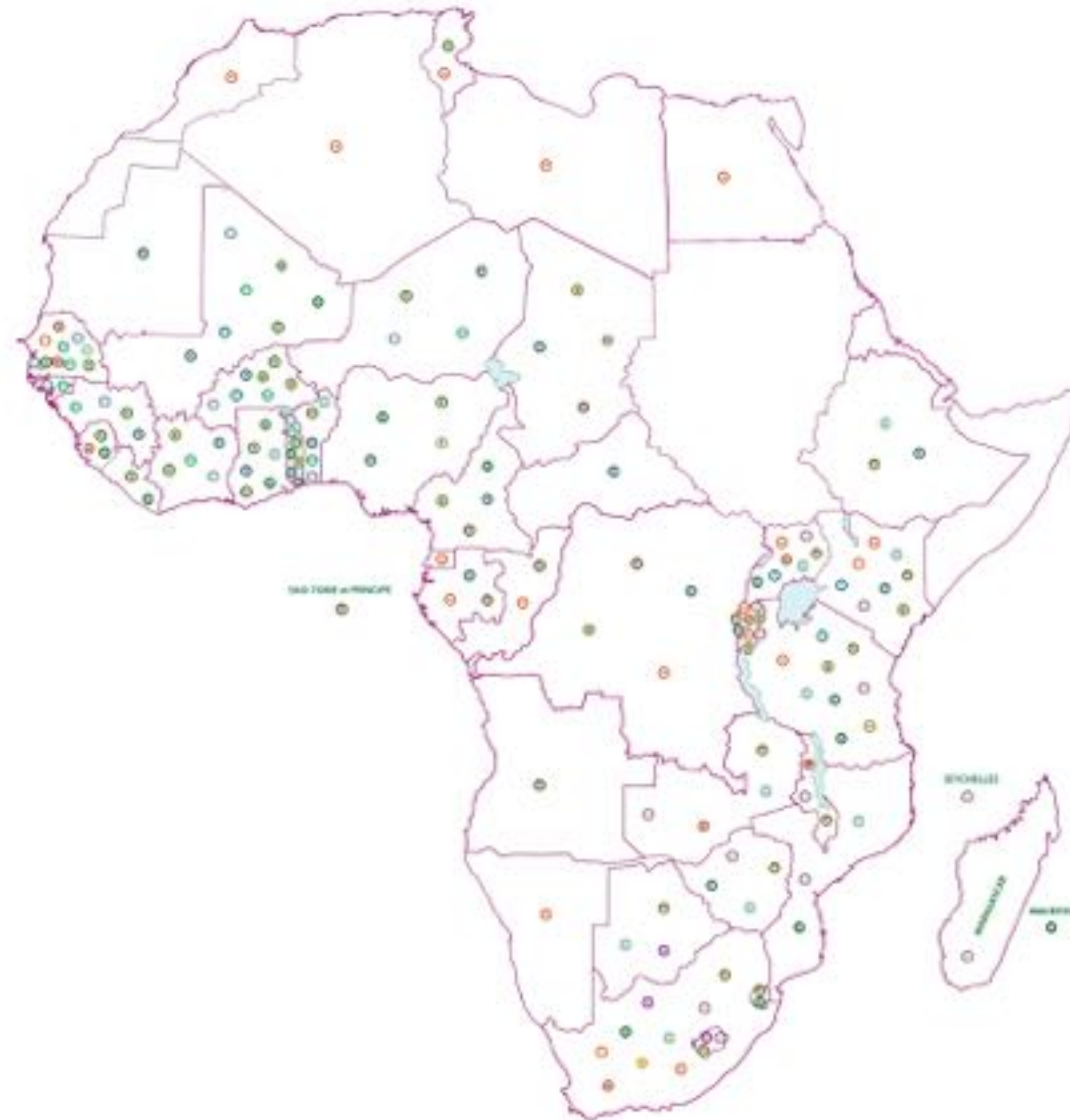
AFSA MEMBERS



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Countries where members of AFSA are active



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Four of the board members, including the chair person, are women



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Food security

"Food security exists **when all people, at all times, have physical and economic access to sufficient, safe and nutritious food to meet** their dietary needs and food preferences for an active and healthy life."

the availability of food,
access to food,
the biological use of food,
and stability [of the other three elements over time]".



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Food sovereignty

Right based approach

Fixing trade rules

Change from industrial to
agroecological food
production system



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Difference with food security

- Neutral to power Vs Criticizes the asymmetry of power in the food system as well as the trade relationships
- Not worried how food is produced vs small scale agriculture and preferably organic or agroecological.
- Cultural appropriateness

Kind of migration and causes

Rural urban migration

- Opportunity
- Land shortage
- Poverty

Internally displaced people

- Conflict
- Drought and famine
- Climate change



Causes of migration contd

Inside the continent migration – Majority of migration.

- Conflict
- Drought
- Bad governance
- Transit to for intracontinental migration

Outside the continent – Mainly to Europe, USA and Middle East

- War and conflict
- Environmental stress – e.g. water
- **Opportunity/ Aspirations**



Common among all kinds of migration

Bad governance

Ethnicity

Nepotism

Corruption

Capacity

Opportunity

Adventure

Cultural attraction



Positive aspects

- Better economic opportunity for migrants
- Importance of remittance – income for the family
- Reducing conflict both at household and more
- Other opportunities

Challenges

- Bringing foreign ideas and ideals – bad development models
- Political influence
- Creating the impetus for migrating
- Participating in bad investment e.g. Sheka forest investments
- Encouraging corruption

Impact on Food sovereignty

- Can disrupt the food system through dumping food during emergency relief.
- Can reduce resilience through promoting bad model of agriculture.
- Can impact on health of the environment through monoculture and this might push young people out of the farming system
- Mechanization might lead to job loss, fuelling migration

Impact on Food sovereignty

- Land grabbing can lead to mass migration.
- Rural urban migration may lead to industrializing agriculture and this may lead to food insecurity
- Food remains the cultural link for immigrants but this is problematic because the ingredients for cultural change and this change might lead to unhealthy food
- Culture impact – people do not get their cultural food
- Eating cheap food – saving for remittance but with severe health impact

Challenges of Refugees as farm workers



- Pesticide exposure
- Injuries
- Air quality
- Animal waste
- Generation of novel flues
- Social and mental health impacts
  - Low income
  - Limited education
  - Substance abuse
  - Lack of medical care
  - Poor working conditions
  - Substandard housing



The way forward

- Improve governance
- Immigrant education on food system
- Better integration of immigrants
- Economic improvement at source countries
- Collaboration among source and hosts
- Promote agroecology



Thanks



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ARIF HUSAIN

Chief Economist and Director of the Food Security Analysis and Trends Service, World Food Programme (WFP)



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Food security overview



Reasons for aggravated food insecurity



Conflict



Weather shocks

Effects on food security



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Drivers of displacement

For each
additional year of conflict



an extra 40 out of 10,000
people will flee their country

For each
1% rise in hunger



an extra 200 out of 10,000
people will flee their country



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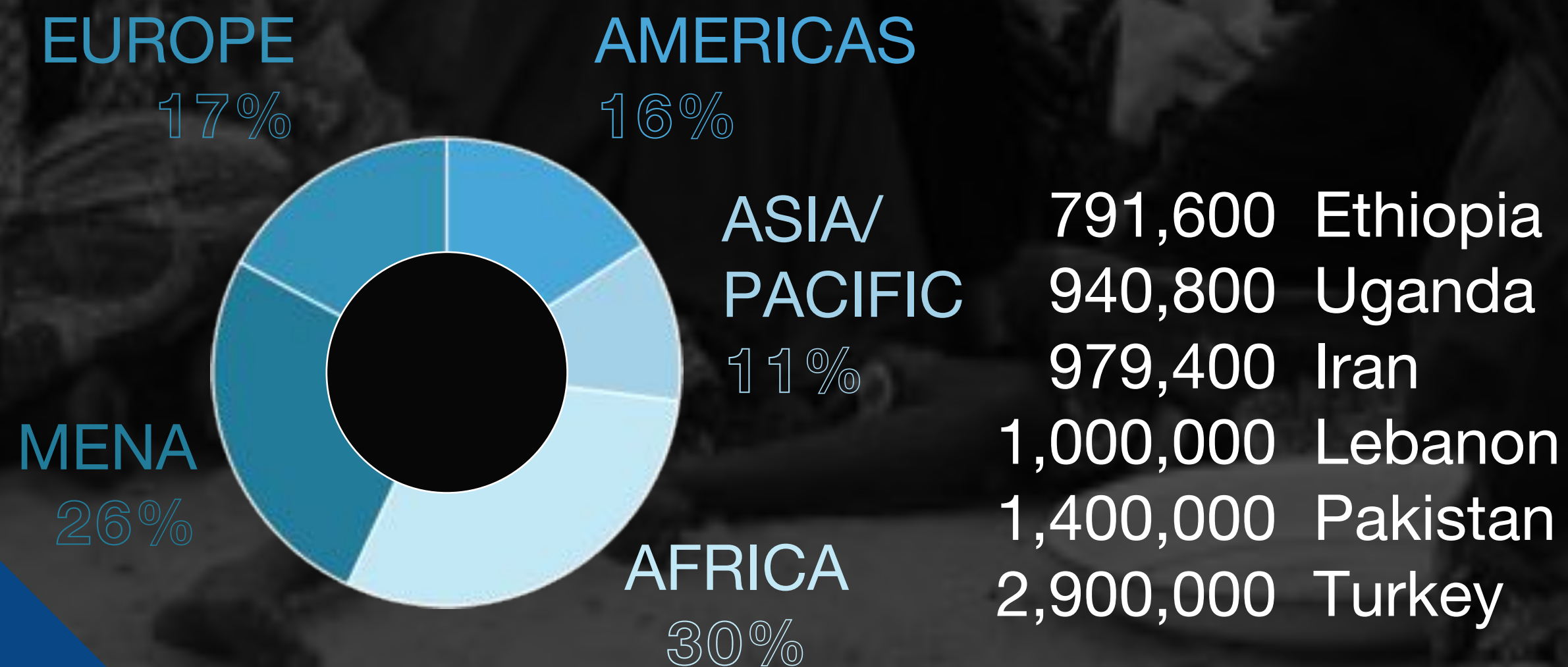
Displacement figures at a glance

65 million
FORCIBLY DISPLACED

22.5 million
REFUGEES

10 million
STATELESS

Where are they hosted?



55%
OF REFUGEES COME FROM 3 COUNTRIES



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So what will it take to achieve Zero Hunger?



“By 2030, end hunger and ensure that all people have access to safe, nutritious and sufficient food all year round”



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Political solution to conflicts



Humanitarian access



Adequate funding



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Leaving no one behind

767

million people

Live below the
international
poverty line

815

million people

Are
chronically
hungry

663

million people

Don't have
access to
clean water



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Hunger is not about

Insufficient production or inefficient economics



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Food production

We produce more than enough food (4 billion tons), even after:



1/3 of all food produced
is lost or wasted

At an environmental cost of:

- 250 cubic km of water
- 1.4 billion hectares of land
- 3.3 billion tons of CO₂ equivalent GHG



Relative cost of ending hunger

\$3.5 trillion/year
Money lost due to hunger
and malnutrition



\$750 billion/year
Cost of food waste



\$270 billion x 15 years
Cost of ending hunger



Recognizing that hunger is not a one-off



Political will



Sustained
commitment



Adequate
financing



Coordinated
response



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Investing in the future



Empowering
women



Childhood
development
and nutrition



Quality
education



Supporting
grassroots
economy



Rural
infrastructure



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“It always seems impossible until it’s done”
- Nelson Mandela



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