




Agenda 2063: Role of Space in the SDGs

12 November 2019

Africa in Context

- There are 55 countries in Africa
 - Africa is the world's hottest continent with one third being desert
 - Over 90% of the soil is unsuitable for agriculture
 - Over 240 million Africans suffer from chronic undernourishment
 - The continent's population will more than double to 2.3 billion people by 2050
 - Africa is the world's poorest and most underdeveloped continent – accounts for just 2.4% of global GDP
 - 30% of mineral reserves and is the fourth largest oil producer
- 

Department of Political Affairs**Department of Economic Affairs**

Democracy and Electoral Assistance

✓

Economic Integration and Regional Cooperation

✓

40 Objectives in total**35 require the use of space applications**

Human Resources and Youth

✓

Environmental and Natural Resources

✓

Science and Technology

✓

Rural Economy

✓

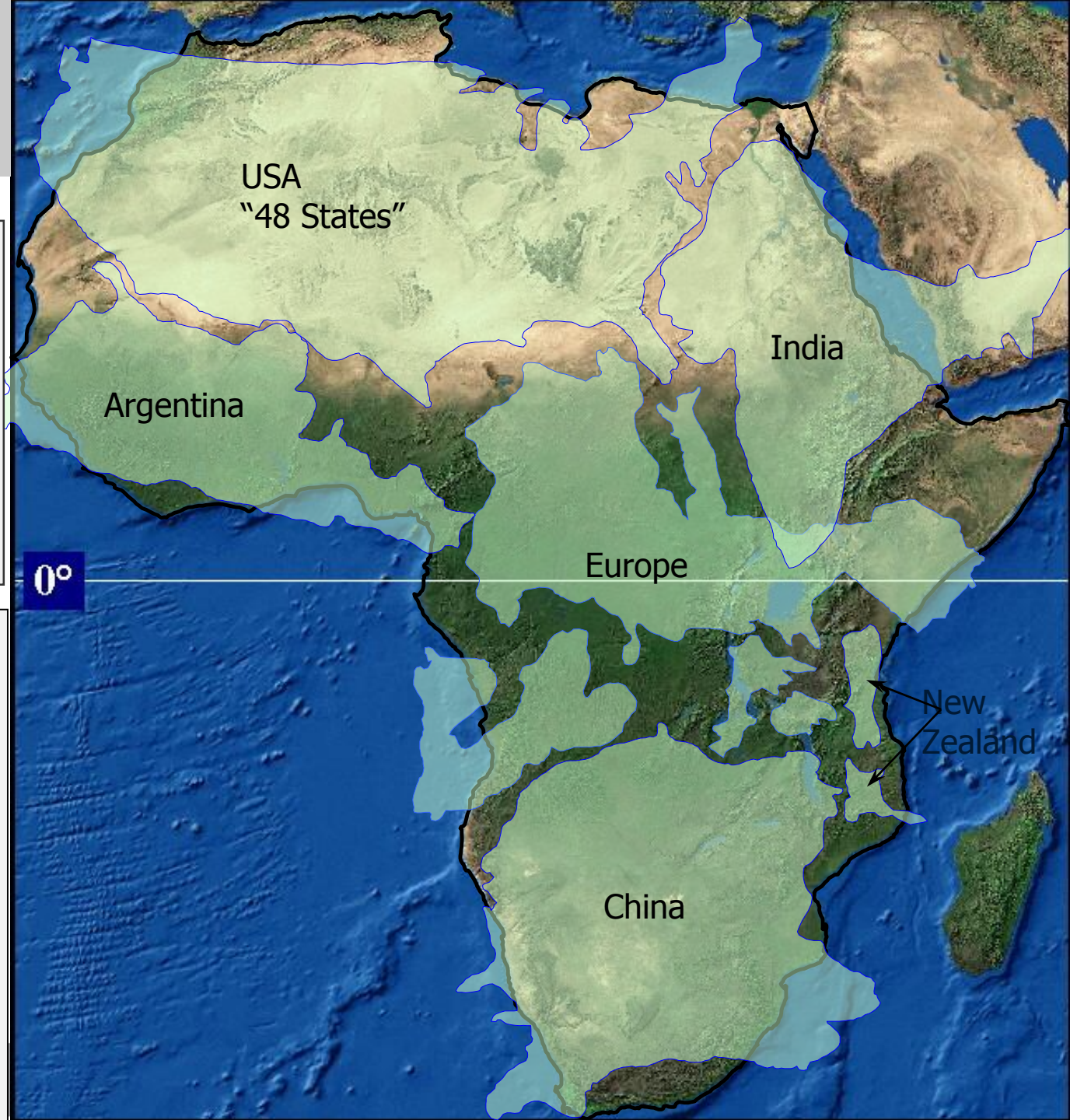
Africa in Context

- Covers 22% of Earth's land surface and 6% of total surface area
- Accounts for 15% of the world's total human population

China	9,596,960 Km ²
USA	9,363,071 Km ²
India	3,287,590 Km ²
Europe	4,936,973 Km ²
Argentina	2,766,890 Km ²
New Zealand	268,680 Km ²
TOTAL:	30,220,164 km²

Africa: 30,318,830 km²

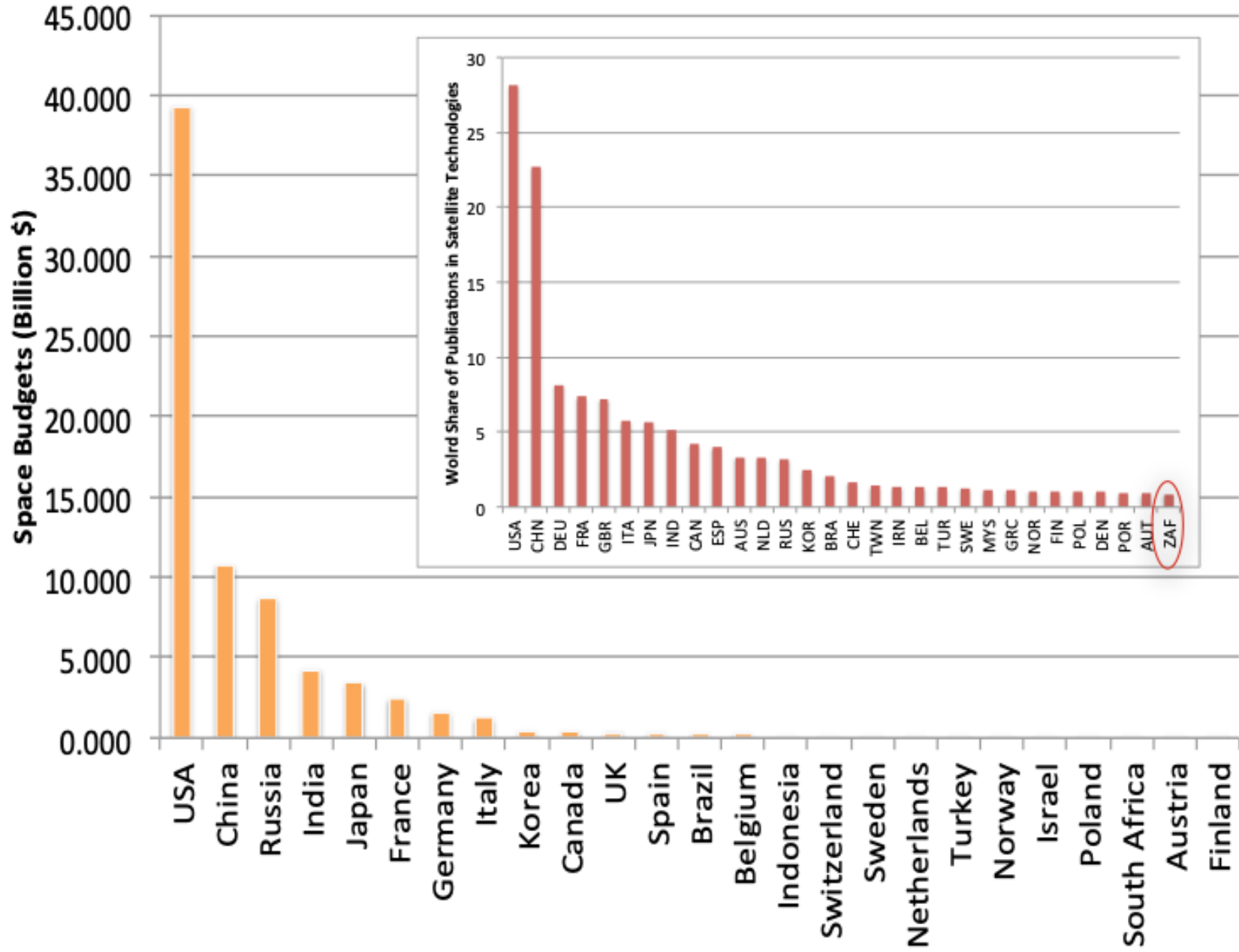
Source: World Factbook



THE GLOBAL GOALS

For Sustainable Development





Goals of Agenda 2063	Goals of Agenda 2030
<ol style="list-style-type: none"> 1. A high standard of living, quality of life and well-being for all citizens 2. Well educated citizens and skills revolution underpinned by science, technology and innovation 3. Healthy and well-nourished citizens 4. Transformed economies 5. Modern agriculture for increased productivity and production 6. Blue/ocean economy for accelerated economic growth 7. Environmentally sustainable and climate resilient economies and communities 8. A United Africa (Federal or Confederate) 9. Continental financial and monetary institutions established and functional 10. World class infrastructure criss-crosses Africa 11. Democratic values, practices, universal principles of human rights, justice and the rule of law entrenched 12. Capable institutions and transformative leadership in place 13. Peace, security and stability is preserved 14. A stable and peaceful Africa 15. A fully functional and operational African peace and security architecture 16. African cultural renaissance is pre-eminent 17. Full gender equality in all spheres of life 18. Engaged and empowered youth and children 19. Africa as a major partner in global affairs and peaceful co-existence 20. Africa takes full responsibility for financing her development 	<ol style="list-style-type: none"> 1. End poverty in all its forms everywhere 2. End hunger achieve food security and improved nutrition and promote sustainable agriculture 3. Ensure healthy lives and promote well-being for all at all ages 4. Ensure inclusive and quality education for all and promote lifelong learning opportunities for all 5. Achieve gender equality and empower women and girls 6. Ensure availability and sustainable management of water and sanitation for all 7. Ensure access to affordable, reliable, sustainable and modern energy for all 8. Promote sustained, inclusive and sustainable economic growth, employment and decent work for all 9. Build resilient infrastructure, promote sustainable industrialisation and foster innovation 10. Reduce inequality within and among countries 11. Make cities inclusive, safe, resilient and sustainable 12. Ensure sustainable consumption and production patterns 13. Take urgent action to combat climate change and its impacts 14. Conserve and sustainably use the oceans, seas and marine resources 15. Sustainably manage forest, combat desertification, halt and reverse land degradation, halt biodiversity loss 16. Promote peaceful and inclusive societies for sustainable development and provide access to justice for all 17. Strengthen the means of implementation and revitalise the global partnership for sustainable development

African Space Policy

African Space Strategy

Framework Instruments

Approved in January 2016

User Needs	Earth Observation											Navigation and Positioning	Satellite Communications	Space Science and Astronomy
	Spatial Resolution								Temporal Resolution					
	<50cm	50cm-1m	1m-2.5m	2.5m-5m	5m-10m	10m-20m	20m-30m	>30m	Daily	Seasonal	Annual			
Disasters	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓
Health					✓	✓				✓		✓	✓	✓
Energy				✓	✓	✓					✓	✓	✓	✓
Climate					✓	✓			✓			✓		✓
Water		✓	✓	✓	✓	✓	✓	✓		✓		✓		
Weather		✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓
Ecosystems				✓	✓	✓	✓	✓		✓		✓		
Agriculture				✓	✓	✓	✓	✓	✓			✓	✓	
Biodiversity				✓	✓	✓	✓	✓			✓	✓		
Peace, Safety and Security	✓	✓	✓		✓			✓	✓			✓	✓	✓
Human Migration and Settlements		✓	✓	✓							✓	✓	✓	
Education and Human Resources				✓	✓	✓	✓	✓			✓	✓	✓	✓
Communications												✓	✓	✓
Trade and Industry			✓	✓	✓	✓	✓	✓		✓		✓	✓	
Transport		✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	
Infrastructure			✓	✓	✓	✓			✓			✓	✓	

		African User Requirements															
		Disasters	Health	Energy	Climate	Water	Weather	Ecosystems	Agriculture	Biodiversity	Peace, Safety and Security	Human Migration and Settlements	Education and Human Resources	Communications	Trade and Industry	Transport	Infrastructure
Sustainable Development Goals	End poverty in all its forms everywhere		✓	✓		✓			✓			✓	✓				
	End hunger achieve food security and improved nutrition and promote sustainable agriculture				✓		✓	✓	✓								
	Ensure healthy lives and promote well-being for all at all ages		✓														
	Ensure inclusive and quality education for all and promote lifelong learning opportunities for all											✓	✓				
	Achieve gender equality and empower women and girls											✓	✓				
	Ensure availability and sustainable management of water and sanitation for all					✓											
	Ensure access to affordable, reliable, sustainable and modern energy for all			✓													
	Promote sustained, inclusive and sustainable economic growth, employment and decent work for all												✓	✓	✓		
	Build resilient infrastructure, promote sustainable industrialisation and foster innovation													✓	✓		✓
	Reduce inequality within and among countries												✓	✓			
	Make cities inclusive, safe, resilient and sustainable		✓	✓		✓						✓				✓	
	Ensure sustainable consumption and production patterns							✓		✓							
	Take urgent action to combat climate change and its impacts	✓			✓		✓	✓									
	Conserve and sustainably use the oceans, seas and marine resources				✓			✓									
	Sustainably manage forest, combat desertification, halt and reverse land degradation, halt biodiversity loss	✓						✓		✓							
	Promote peaceful and inclusive societies for sustainable development and provide access to justice for all	✓									✓						
	Strengthen the means of implementation and revitalise the global partnership for sustainable development													✓	✓		

TOP DOWN
African Space
Agency

African Space
Programme

Role of National
Space Agencies
BOTTOM UP

Thank you