



Empowering Youth Leadership for Sustainable Nuclear Energy Development in Africa's Embarking Countries

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President, African Young Generation in Nuclear (AYGN) - Network

25th INPRO Dialogue Forum on Nuclear Energy Development in Embarking Countries

17-21 November, 2025. Nairobi, Kenya



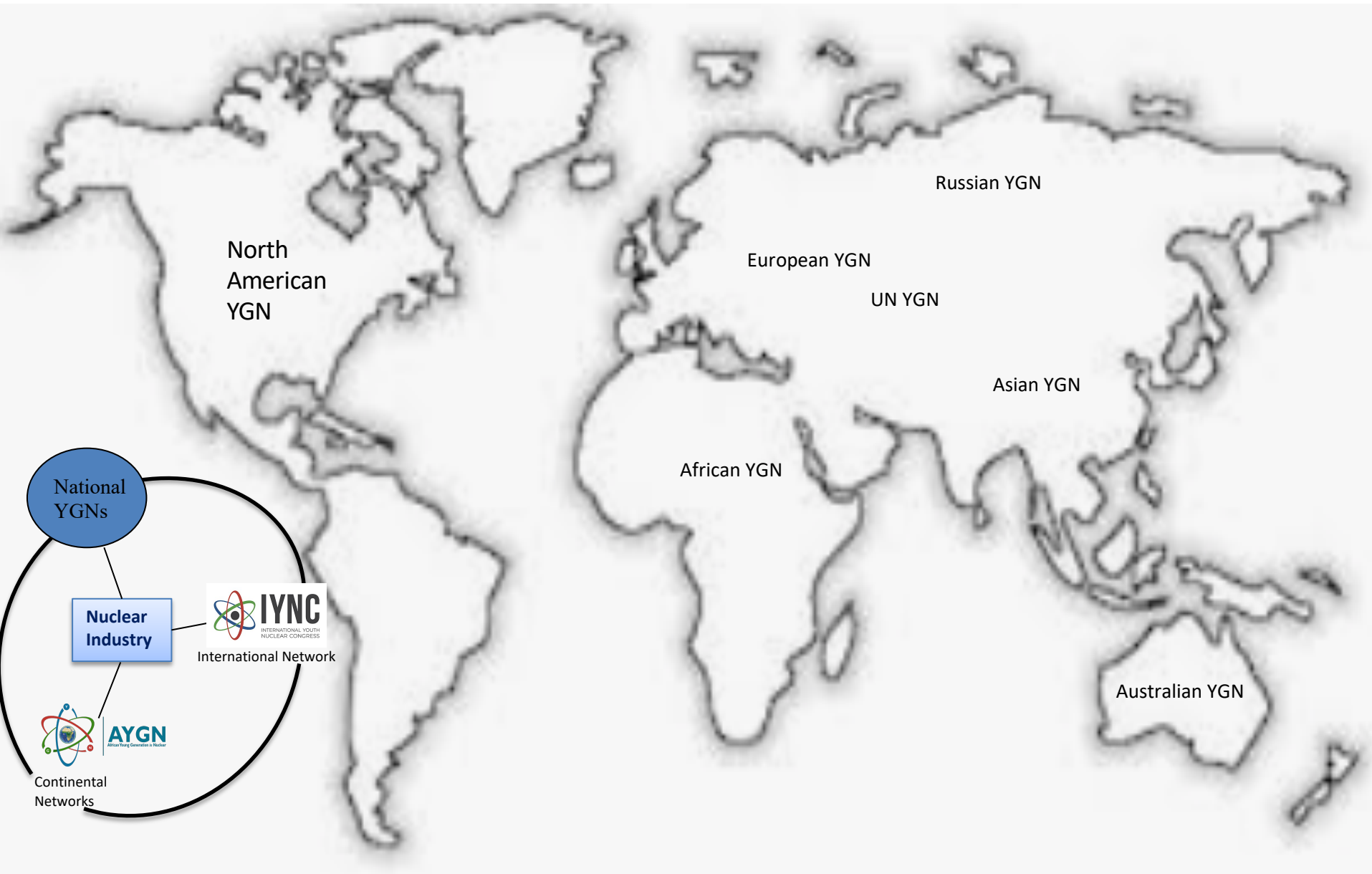


- Warm greetings to organizers and partners
- Honored to represent AYGN and Africa's youth

Presentation Outline

- ❑ About Young Generation Networks (YGNs)
- ❑ Africa's Context in Nuclear Governance
- ❑ AYGN's Contributions and Work
- ❑ Why Nuclear Matter for Africa?
- ❑ Why Youth Leadership Matter?
- ❑ Capacity Building and Innovation
- ❑ Strategies to Inspire & Influence
- ❑ Collaboration for Nuclear Readiness
- ❑ Closing

Young Generation Networks (YGN)



Basic Facts: AYGN

Non-profit organization:

Pan-African youth network in Nuclear Science & Technology (NST) .

Mission:

Promote peaceful applications of NST for SDGs & Agenda 2063.

Representation:

40+ African countries with 22 chapters

Acts as a **bridge**: youth ↔ policy ↔ technical communities.

www.africanygn.org



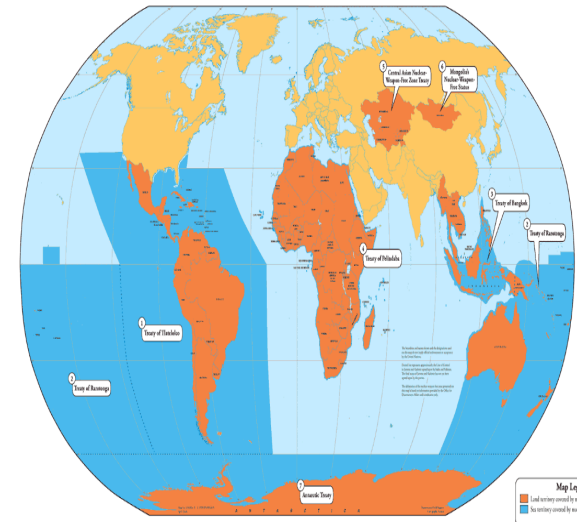
AYGN
African Young Generation in Nuclear

Africa's Context in Nuclear Governance:

- Pelindaba Treaty (1996)
- Enforced by AFCONE;
Africa = *Nuclear-Weapon-Free Zone*.
 - Entered into force on July 15, 2009
 - **Priorities: Peaceful applications** in energy, health, agriculture, water & industry.
 - **Youth perspective: Development-first approach** to AC/DP/NPN.
 - **Climate crisis** demands sustainable solutions

NUCLEAR-WEAPON-FREE AREAS

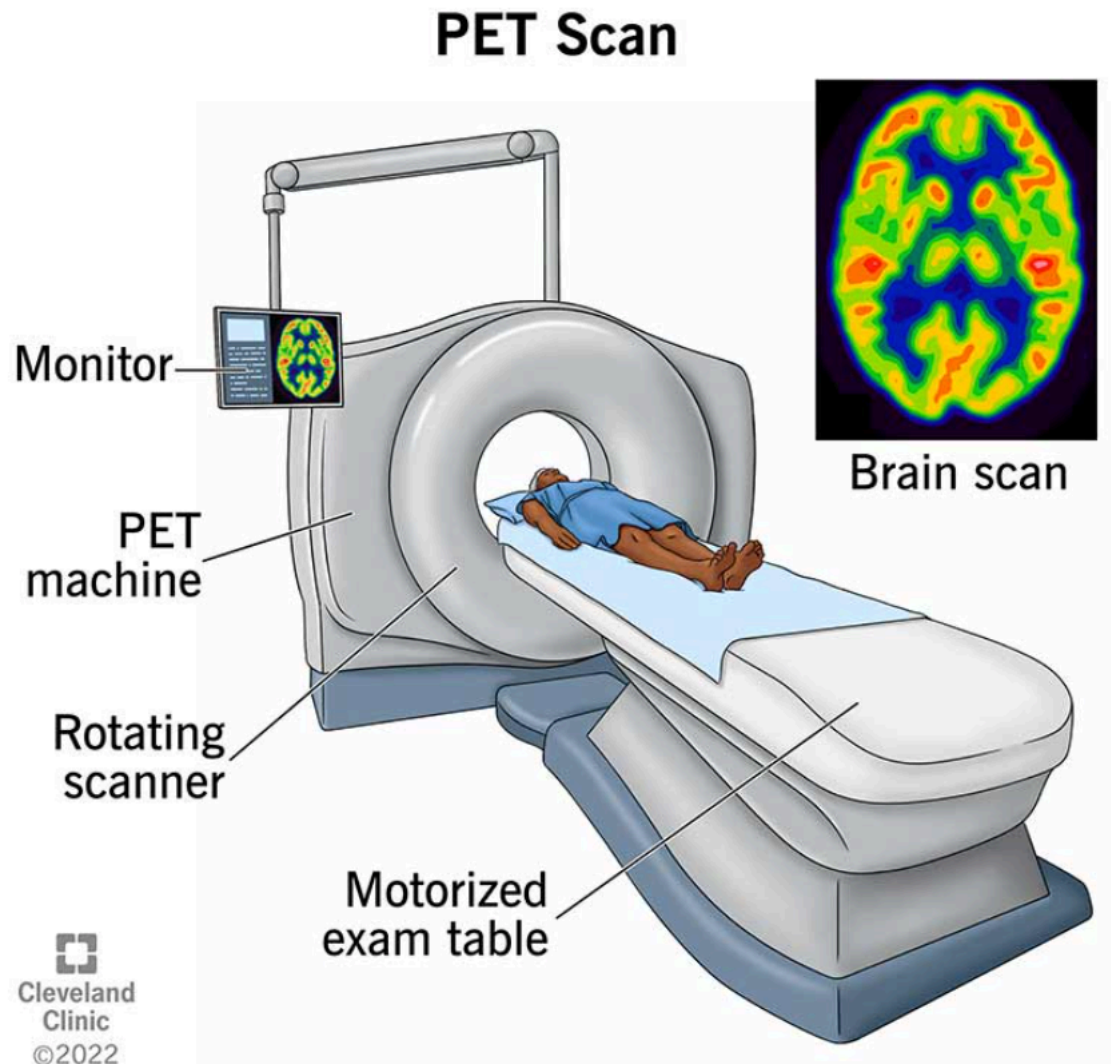
Demarcation of nuclear-weapon-free zones, nuclear-weapon-free status and nuclear-weapon-free geographical regions



TREATIES ESTABLISHING NUCLEAR-WEAPON-FREE AREAS

- Nuclear-weapon-free zones**
1. The 1967 Treaty for the Prohibition of Nuclear Weapons in Latin America and the Caribbean
 2. The 1995 South Pacific Nuclear-Weapon-Free Zone Treaty
 3. The 1995 Treaty on the South-East Asia Nuclear-Weapon-Free Zone
 4. The 1996 African Nuclear-Weapon-Free Zone Treaty
 5. The 1996 Treaty on a Nuclear-Weapon-Free Zone in Central Asia
- The status establishing the nuclear-weapon-free zones, treaty also has nuclear weapons within the respective territories of the zones, including the acquisition, possession, placement, testing and use of nuclear weapons.
- Nuclear-weapon-free status**
6. In 1992, Mongolia declared its nuclear-weapon-free status, which is internationally recognized and protected. Since then, the acquisition, possession, placement, testing and use of nuclear weapons are prohibited.
- Nuclear-weapon-free geographical regions**
7. The 1995 Antarctic Treaty, which also prohibits any measures of military nature on the continent of Antarctica, including any testing of nuclear weapons.
 8. The 1967 Treaty on Principles Governing the Activities of States in the Exploration and Use of Outer Space, Including the Moon and Other Celestial Bodies, which also prohibits placing nuclear weapons in outer space, including their use in the Moon and other celestial bodies as well as authorizing their use in outer space in any other manner.
 9. The 1971 Treaty on the Prohibition of the Employment of Nuclear Weapons and Other Weapons of Mass Destruction on the Sea Bed and the Ocean Floor and in the Subsoil Thereof, which prohibits the employment of nuclear weapons on the bottom of the sea and in the subsoil thereof.
 10. In 2007, the three time zones are in different regions with regard to their signature, ratification and entry into force, as well as with regard to the signature and ratification of their established protocols requesting assistance from the nuclear-weapon-free states.

Why Nuclear Matter for Africa!

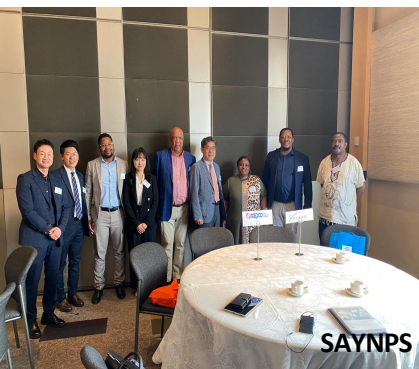



Cleveland
Clinic
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Healthcare: Nuclear Medicine Saves Lives

AYGN Contributions and Work

- **Awareness & Outreach:** Webinars, school/university programs, Student Competition, community outreach.
- **Capacity Building:**
 - Training & mentorship with IAEA, AFCONE, AfDB, WINS, Generation Atomic.
 - AYGN Support Student Exchange Programmes through bilateral cooperations
- **Knowledge Transfer Platforms:** African Youth Nuclear Summit/ Regional Stakeholders fora
- **Policy Engagement:** Youth representation at IAEA GC, NPT Conferences, UNFCCC COP
- **Projects members involve in:** Radiotherapy, radiopharmacy, isotope hydrology, pest control, Radiation protection, Environmental monitoring, NDT etc



Flashback: 4th Edition African Youth Nuclear Summit (AYNS 2023)

Theme « Nuclear Energy: A vista of the future »

Nairobi-Kenya: 4 days from October 23 to 26

200 participants (≈ 40 international participants)

- Plenary and panel sessions addressing all aspects of the theme selected;
- Contest « Innovation for Nuclear Africa »;
- Technical tour to Olkaria Geothermal Power Plants,
- Cultural Tour to National Park of Nairobi
- IAEA-NuPEA-KNRA-KEBS-Anthropocene Institute -LYNC



Hosts: KYGN

I4N Competition

- Annual event targeting university students and early career professionals

- Top 3 winning Teams will compete at the African Youth Nuclear Summit, 2025 in Abuja Nigeria



- Winning team at the continental competition will present at I4N Global Competition during the IYNC2026



Call for Innovations: African Innovation for Nuclear (I4N) Competition 2025!

Categories:

1. Nuclear-Powered Energy Solutions

Innovations addressing Africa's energy access gaps, especially in underserved communities

2. Nuclear Science for Health & Industry

Innovations expanding access to nuclear medicine, radiology access, and industrial applications.

3. Atoms for Agriculture & Food Security:

Innovative uses of nuclear technology for pest control, soil management, and food preservation.

4. Nuclear Innovations for Climate, Environment & Sustainability

Nuclear applications in water management resources, pollution control and circular economy

5. Education & Awareness

Creative tools and campaigns to increase nuclear literacy public engagement.

Important Dates:

29 August:
Deadline for Submission of Abstracts

12 September:
Feedback on abstract Submissions

28 September:
Deadline for Submission of Video Pitches

Act Like a Proton, Be Positive!

Submit your abstract [here](#).

Stand a chance to win a fully paid trip to the African Youth Nuclear Summit 2025 in Abuja, Nigeria.

For questions, contact: african.ygn@gmail.com

 **<https://africanygn.org/>**

NIGERIA TO HOST THE 5TH EDITION OF THE AFRICAN YOUTH, 25-28 NOVEMBER, 2025

MARK THE DATE!

Theme: From Atom to Impact!



van leader launches ultra-modern cancer centre

Flashback: AYGN@COP28: Dubai, UAE,

30th November – 12th December 2023

- Visitation to Pavillons of several organisations (IAEA, WNA, NZN,N4C
- Participation in the Net Zero Nuclear Summit on the 7th and 8th of December;
- Hosting a AYGN COP28 Side Event at the Kenyan Pavilion
- Attendance at the event held by ROSATOM on SMR Day, 4th Dec, 2023
- Panel sessions and discussion in different pavilions, notably the pavilions of NZN, IAEA, and Nuclear for climate (N4C).
- Visitation to Barakah Nuclear Power Plant by some AYGN delegates



AYGN Delegates from; Kenya, Nigeria Morocco, Egypt, South Africa, Sierra Leone, Ghana, Burkina Faso,

AYGN@COP29: Baku, Azerbaijan



COP29
Baku
Azerbaijan

SIDE EVENT

YOUTH EMPOWERMENT A KEY TO DRIVE INNOVATION IN NUCLEAR SECTOR



CHRISTABEL EKEOCHA

DEPUTY SG AYGN
ASST MGR, NNRA



MOHCYNE AITSAID

VP GLOBAL YGN
IYNC



SHIRLY RODRIGUEZ

NUCLEAR ENGINEER
ANS



SHAHRUKH NASSIM

EVENTS AND ACTIVITIES
COORDINATOR-N4C



UMAR FAROUK AHMAD

MODERATOR

 **NOV 20 4-5 PM (GMT+4)**
 **ZAMBIA PAVILLION**



IYNC

Anthropocene Institute



Why Youth Leadership Matter?

Role of the Next Generation!



Rwandan YGN engage university students

- Influence national attitudes on nuclear; bridge trust with policymakers & public
- Africa's embarking countries like Kenya are building new nuclear ambitions
- Empowering youth ensures sustainability, innovation, and acceptance

Capacity Development and Innovation

- 
- Developing future nuclear professionals through mentorship and training
 - Youth-driven innovation strengthens Africa's technical readiness
 - Building local capacity through partnerships in education and research

Strategies to Inspire & Influence

- Education & awareness campaigns
- Early community engagement
- Partnerships with governments & industry
- Showcasing young role models



Bridging Peaceful Uses & Non-Proliferation

- Peaceful nuclear applications
= **trust-building measure** in NPT regime.
- African youth
= **ambassadors of dual responsibility:**
 - Expand peaceful applications.
 - Advocate disarmament & non-proliferation.



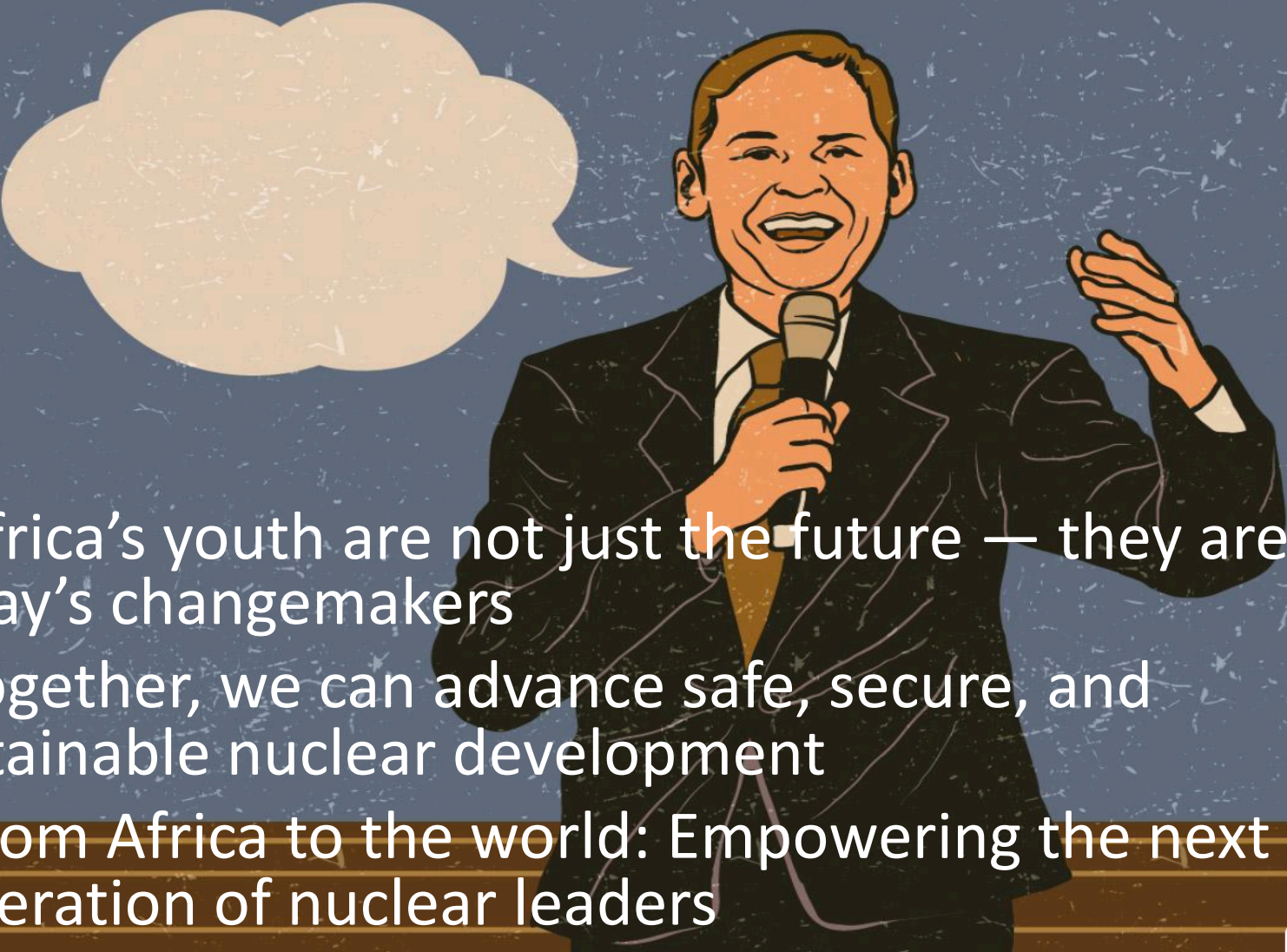
AFCON signing MoU with
World Nuclear Transport
Institute, WTNi

Collaboration for Nuclear Readiness



- Enhanced collaboration between governments, industry, academia, and youth networks (AYGN)
- Partnerships support knowledge transfer and sustainable development
- AYGN facilitates youth engagement in over 40 African countries

Closing

- 
- A stylized illustration of a man with short brown hair, wearing a dark suit, white shirt, and brown tie. He is smiling and holding a microphone in his right hand, with his left hand raised in a gesture. A large, empty, light-brown thought bubble is positioned to his left. The background is a dark blue textured surface with small white specks, and the bottom of the image shows a brown wooden floor.
- Africa's youth are not just the future — they are today's changemakers
 - Together, we can advance safe, secure, and sustainable nuclear development
 - From Africa to the world: Empowering the next generation of nuclear leaders



THANK YOU!!!

For further information, please
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www.africanygn.org

