

Analyzing ABACC as a System

GINGER WRIGHT

NONPROLIFERATION MENTORSHIP PROGRAM

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Question

By looking at the Brazilian-Argentine Agency for Accounting and Control of Nuclear Materials (ABACC) as a system, can trends and lessons learned be identified that are applicable to other regions?

ABACC



Bi-national
organization



Established in
July 1991



Purpose to manage and
apply the Common
System of Accounting
and Control of Nuclear
Materials (SCCC)

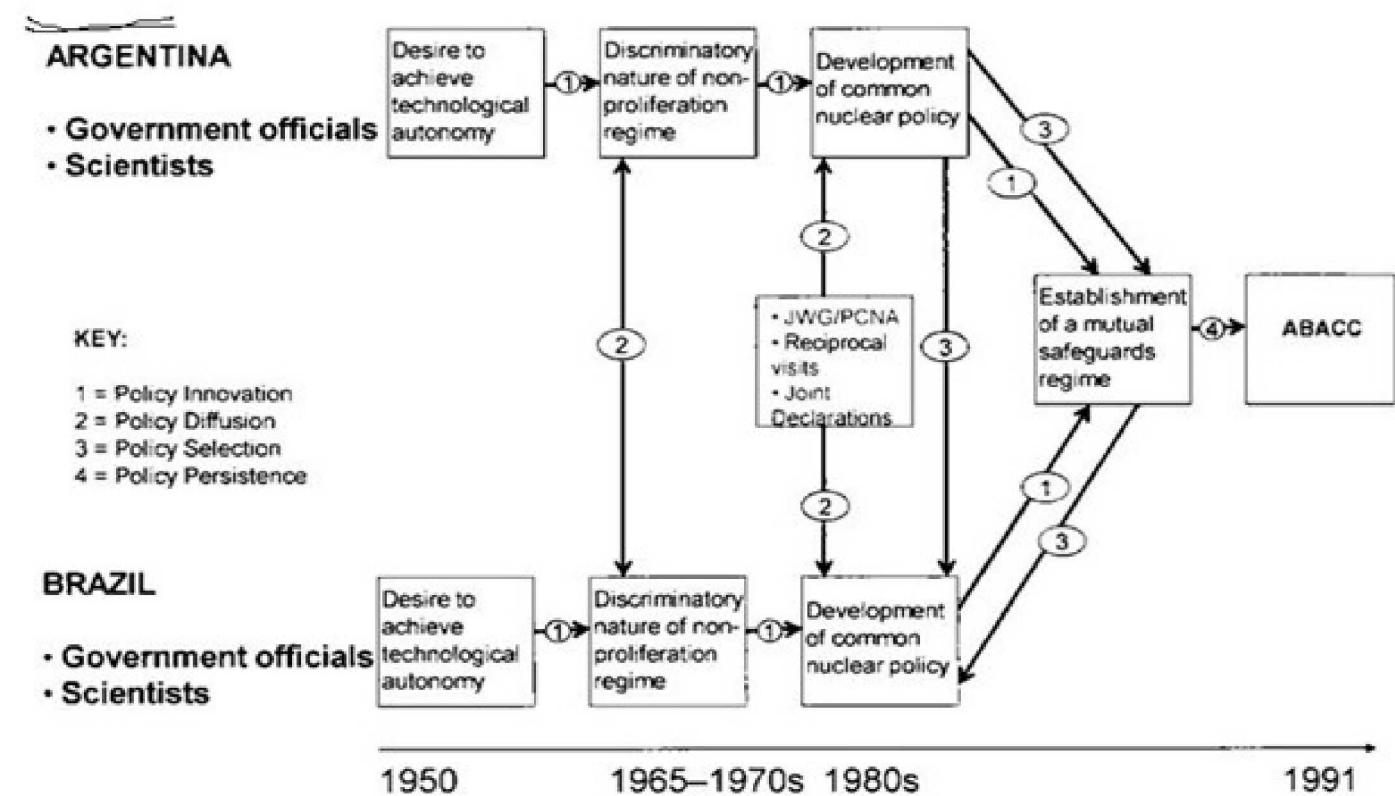


Brazilian-Argentine Agency for Accounting and Control of Nuclear Materials and the SCCC



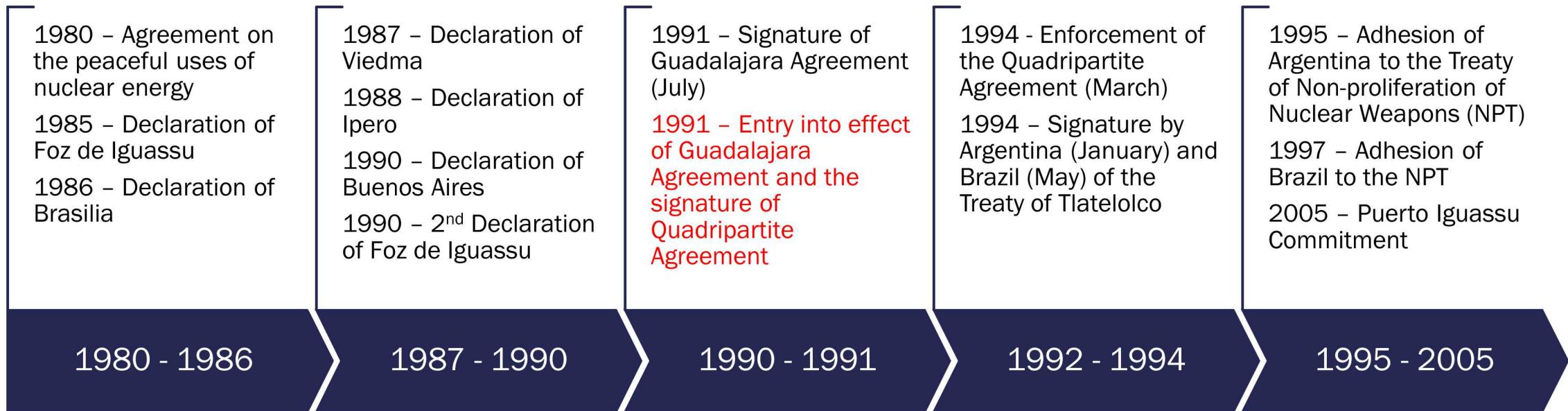
- The Common System of Accounting and Control of Nuclear Materials (SCCC)
 - Full-scope safeguards system
 - Created to verify that nuclear materials are utilized exclusively for peaceful purposes

Creation of ABACC Path



By Sara Zahra Kutchesfahani, PhD.

Highlights in the Field of Nuclear Safeguards in Argentina and Brazil



Lessons Learned

Development of trust and confidence in Brazil and Argentina in the nuclear sector.

1991 – Signature of Guadalajara Agreement (July)

1991 – Entry into effect of Guadalajara Agreement and the signature of Quadripartite Agreement

1990 - 1991



Guadalajara Agreement - for the exclusively peaceful use of nuclear energy

- SCCC was established
- ABACC was created

Quadripartite Agreement - established between Brazil, Argentina, ABACC, and the IAEA

- Stakeholders apply safeguards to all nuclear materials and activities

Lessons Learned

Development of trust and confidence in Brazil and Argentina in the nuclear sector.

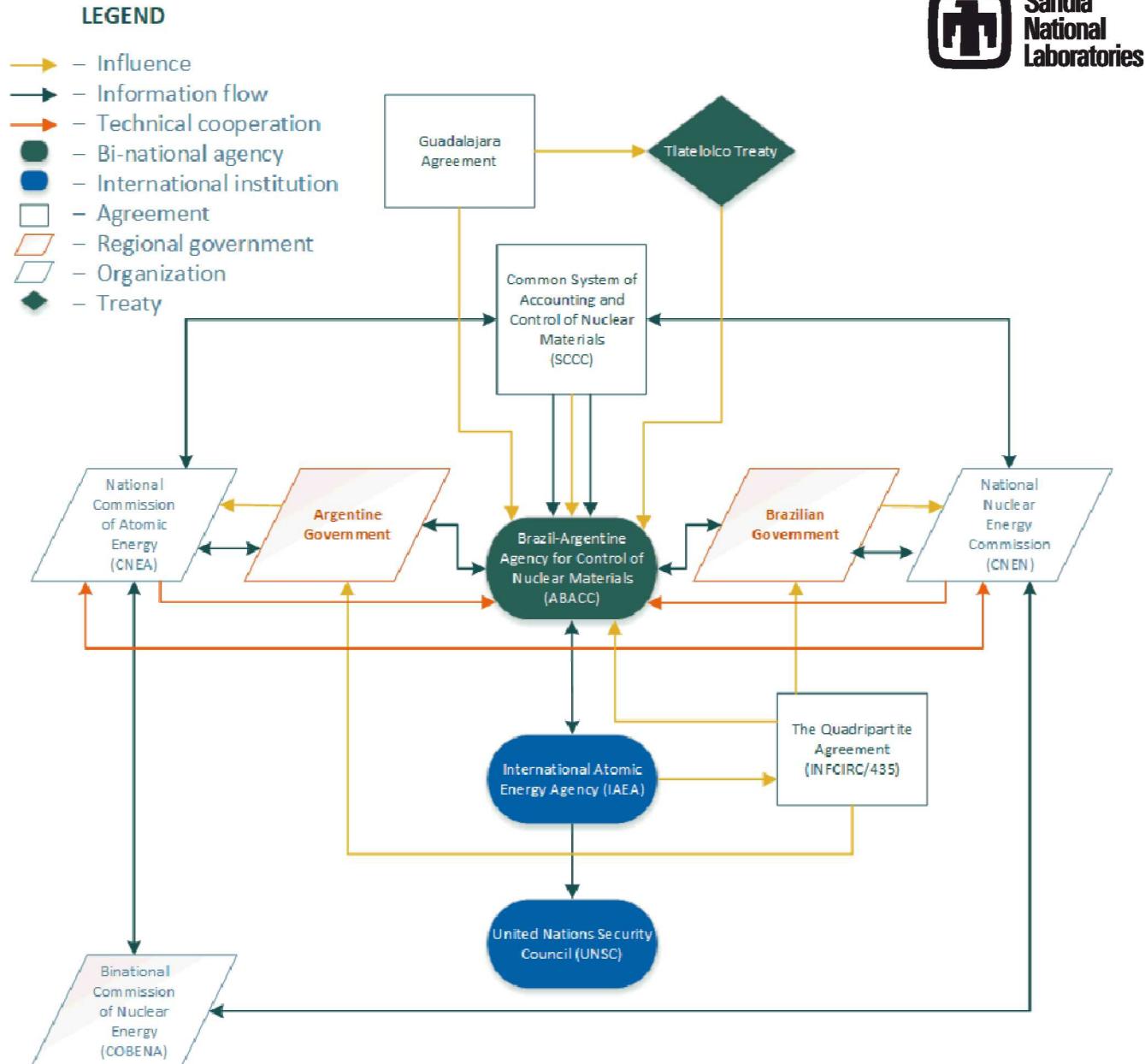
ABACC and IAEA Relationship

- State Parties, ABACC, and IAEA cooperation
- ABACC and IAEA to reach independent conclusions
- ABACC and IAEA have close coordination to avoid duplication



ABACC as a System

Establishment of a regional
Safeguards Regime



Potential Application

Development of trust and confidence among United Arab Emirates, Saudi Arabia, and Iran in the nuclear sector.

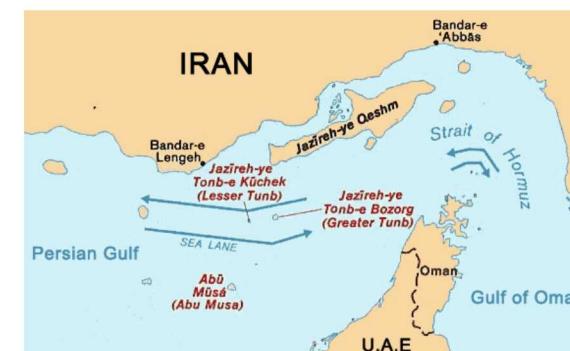


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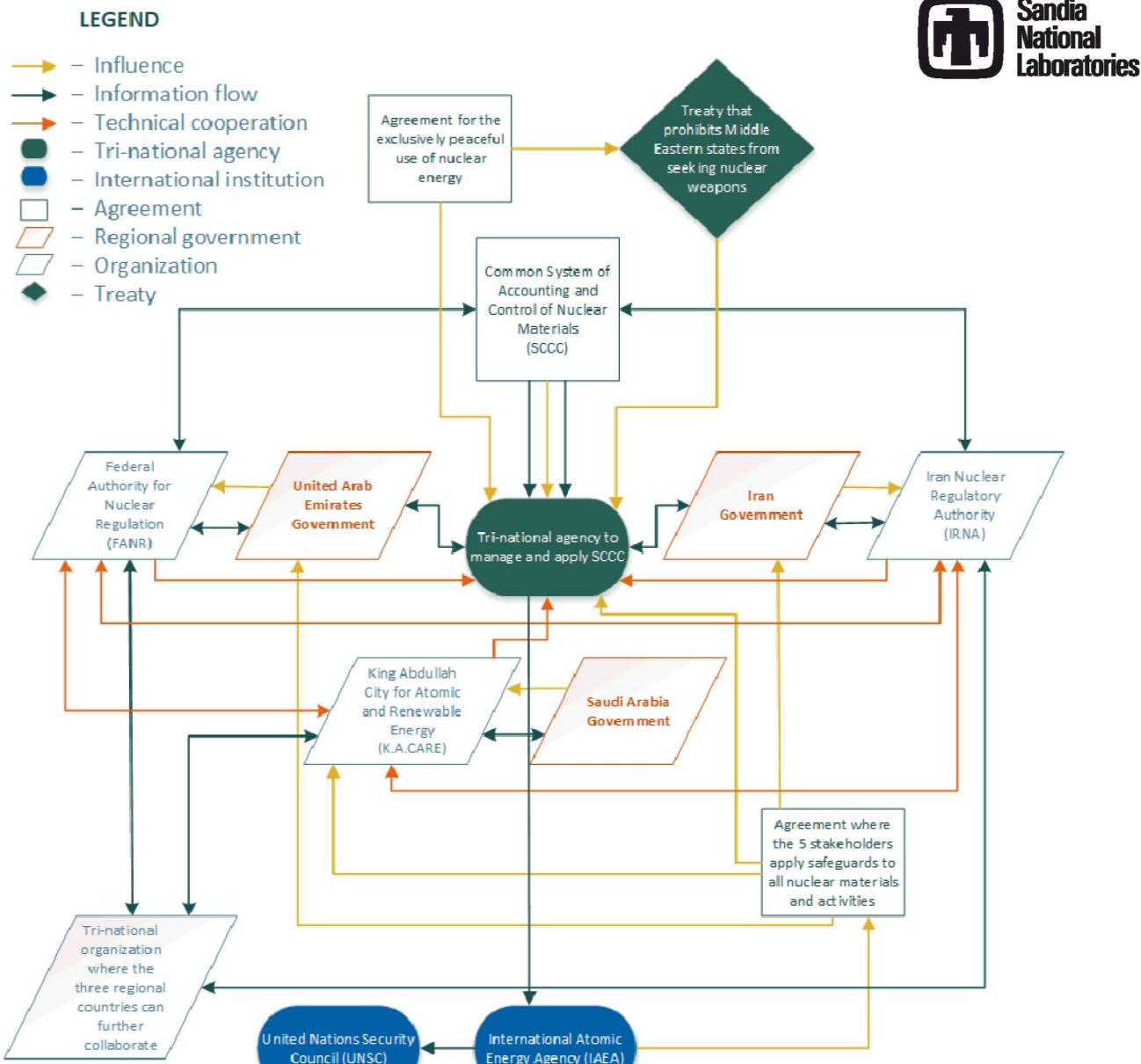


- Commonalities with Brazil and Argentina
 - Seeking technological autonomy
 - Pursuing nuclear energy
 - Regional countries
 - History of tension and cooperation



Can ABACC's system be applied?

Establishment of a regional
Safeguards Regime.



Parallels

Comparison of Argentina and Brazil to the United Arab Emirates, Saudi Arabia, and Iran.

- Nuclear aspirations
- Nuclear reactors (Argentina/Brazil and UAE/Iran)
- IAEA agreements
- Rivalries
- Need for additional trust mechanisms

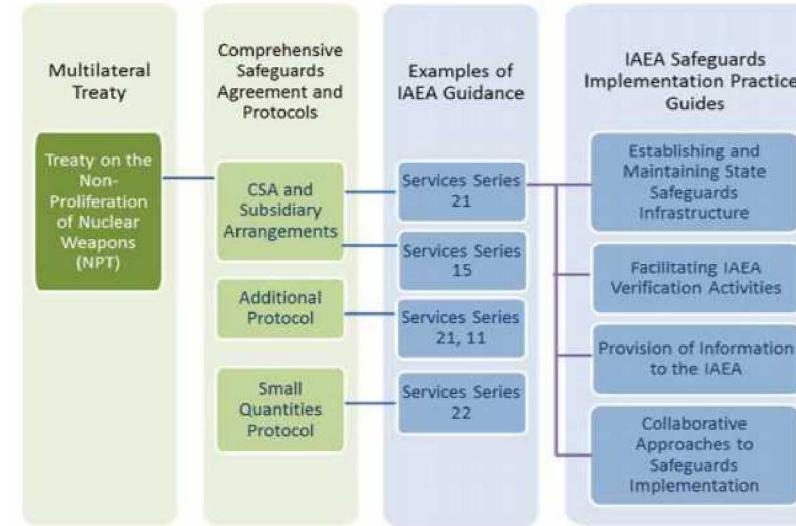
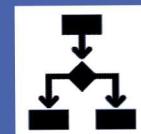


FIG. 1. IAEA safeguards guidance related to comprehensive safeguards agreements.

Key Findings



Regional cooperation through agreements are beneficial



Common System of Accounting and Control of Nuclear Materials is beneficial

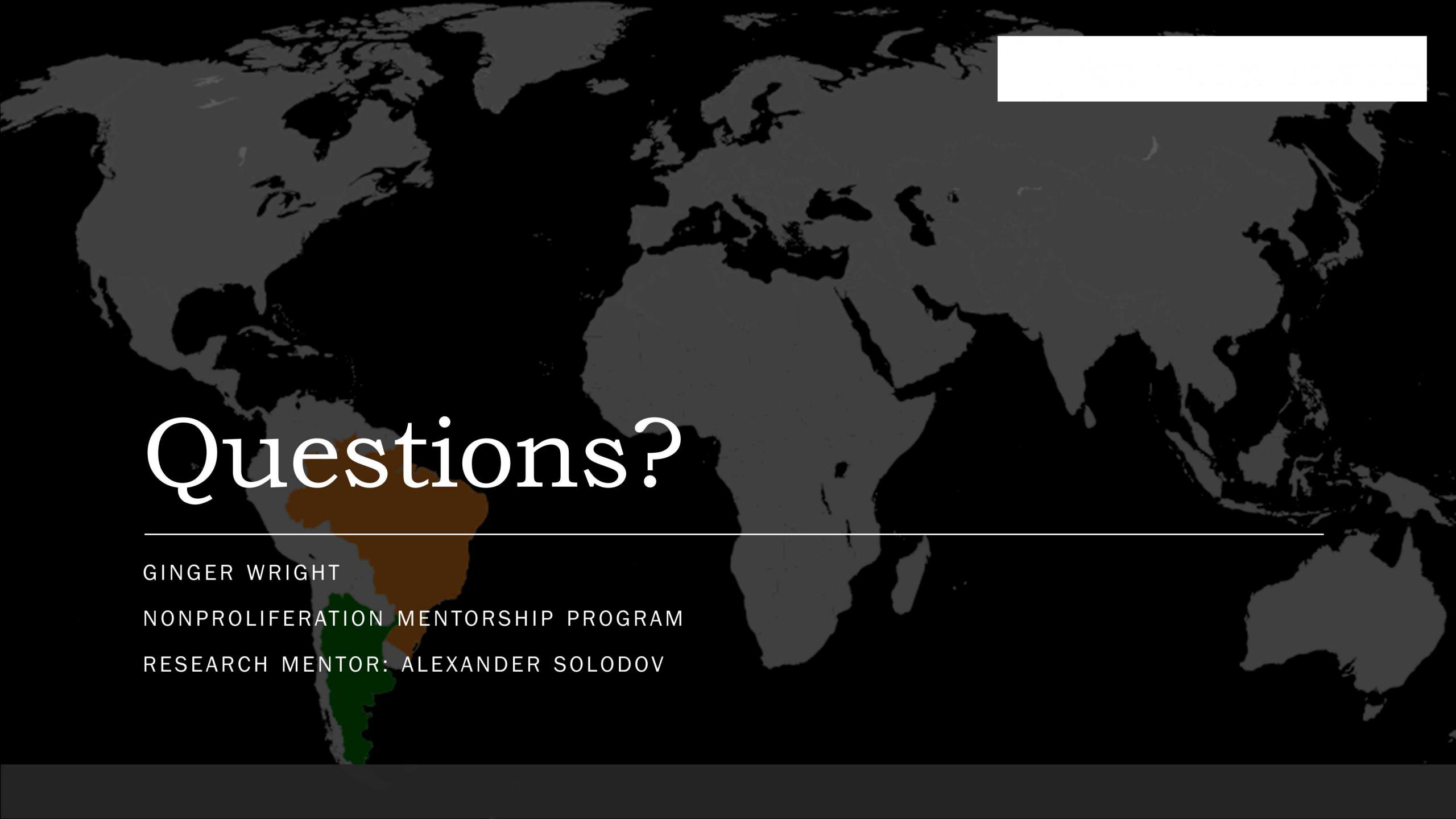


Inspectorate is beneficial



Sandia National Laboratories Implications





Questions?

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