

# Analyzing ABACC as a System

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GINGER WRIGHT

NONPROLIFERATION MENTORSHIP PROGRAM

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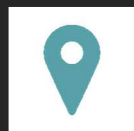
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# Question

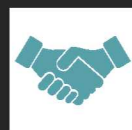
By looking at the Brazilian-Argentine Agency for Accounting and Control of Nuclear Materials (ABACC) as a system, can trends and lessons learned be identified that are applicable to other regions?

# ABACC

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Bi-national  
organization



Established in  
July 1991



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

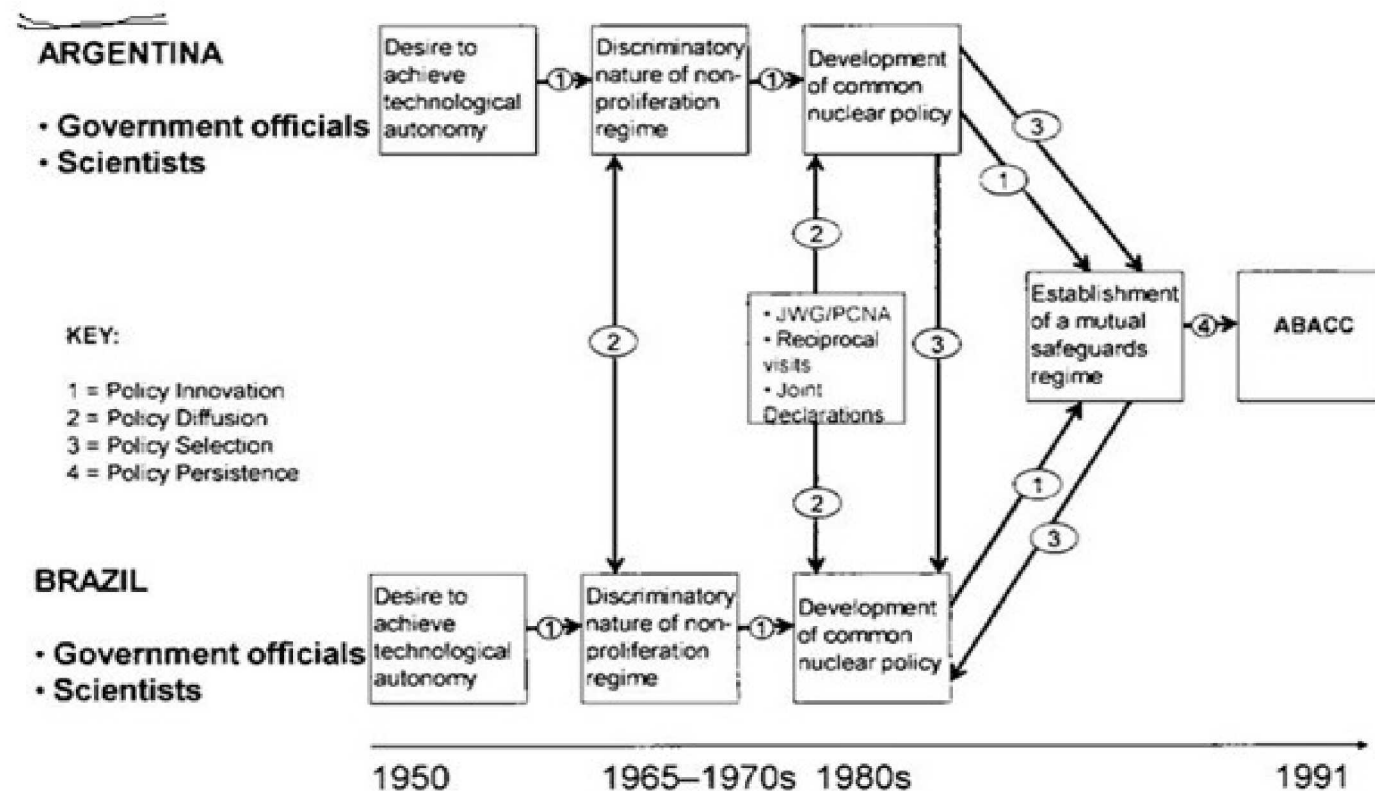


# Brazilian-Argentine Agency for Accounting and Control of Nuclear Materials and the SCCC



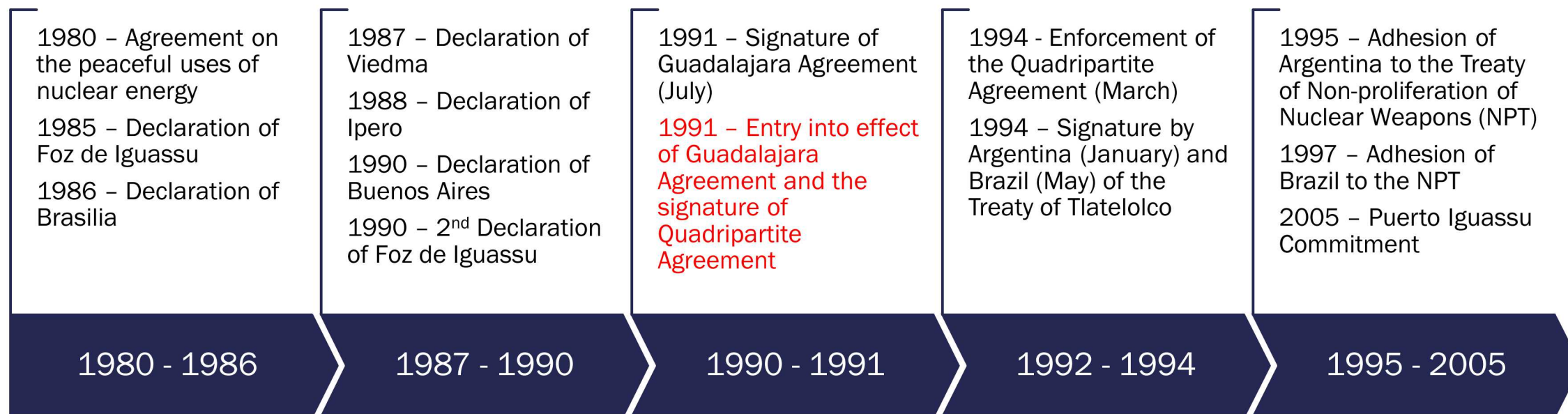
- The Common System of Accounting and Control of Nuclear Materials (SCCC)
  - Full-scope safeguards system
  - Created to verify that nuclear materials are utilized exclusively for peaceful purposes

# Creation of ABACC Path





# 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

## 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

# Lessons Learned

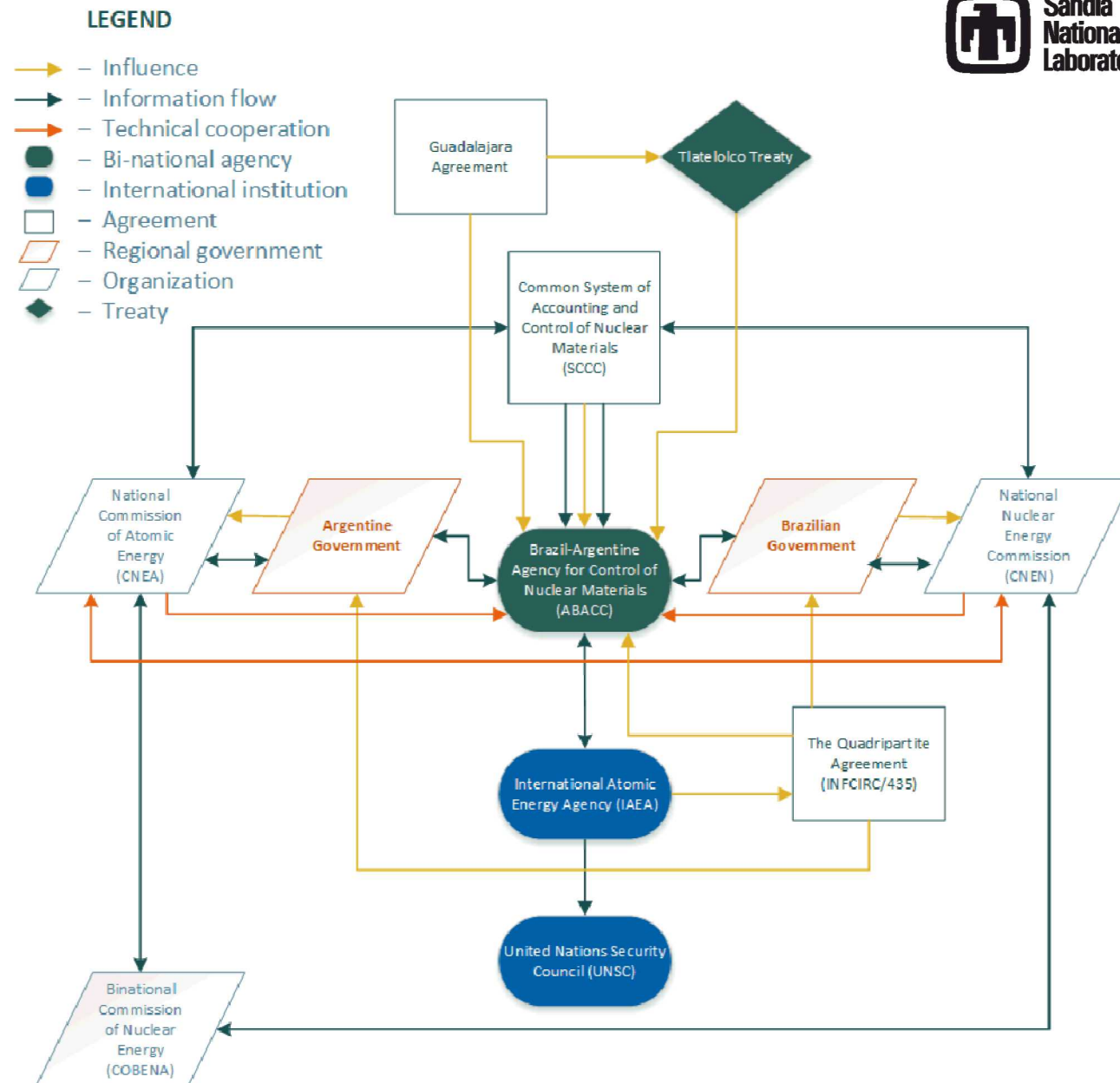
Development of trust and confidence in Brazil and Argentina in the nuclear sector.





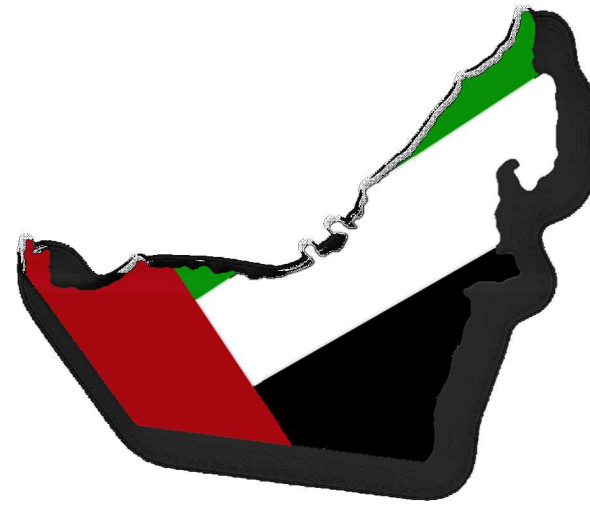
# ABACC as a System

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.



- United Arab Emirates
- Saudi Arabia
- Iran

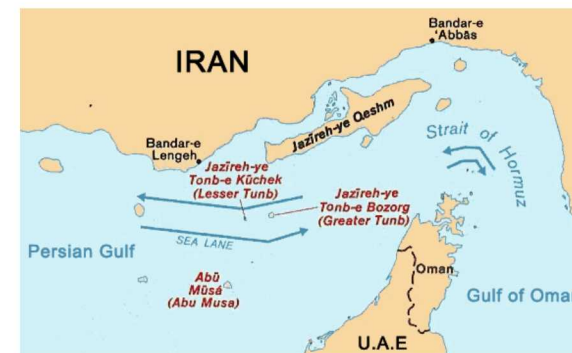


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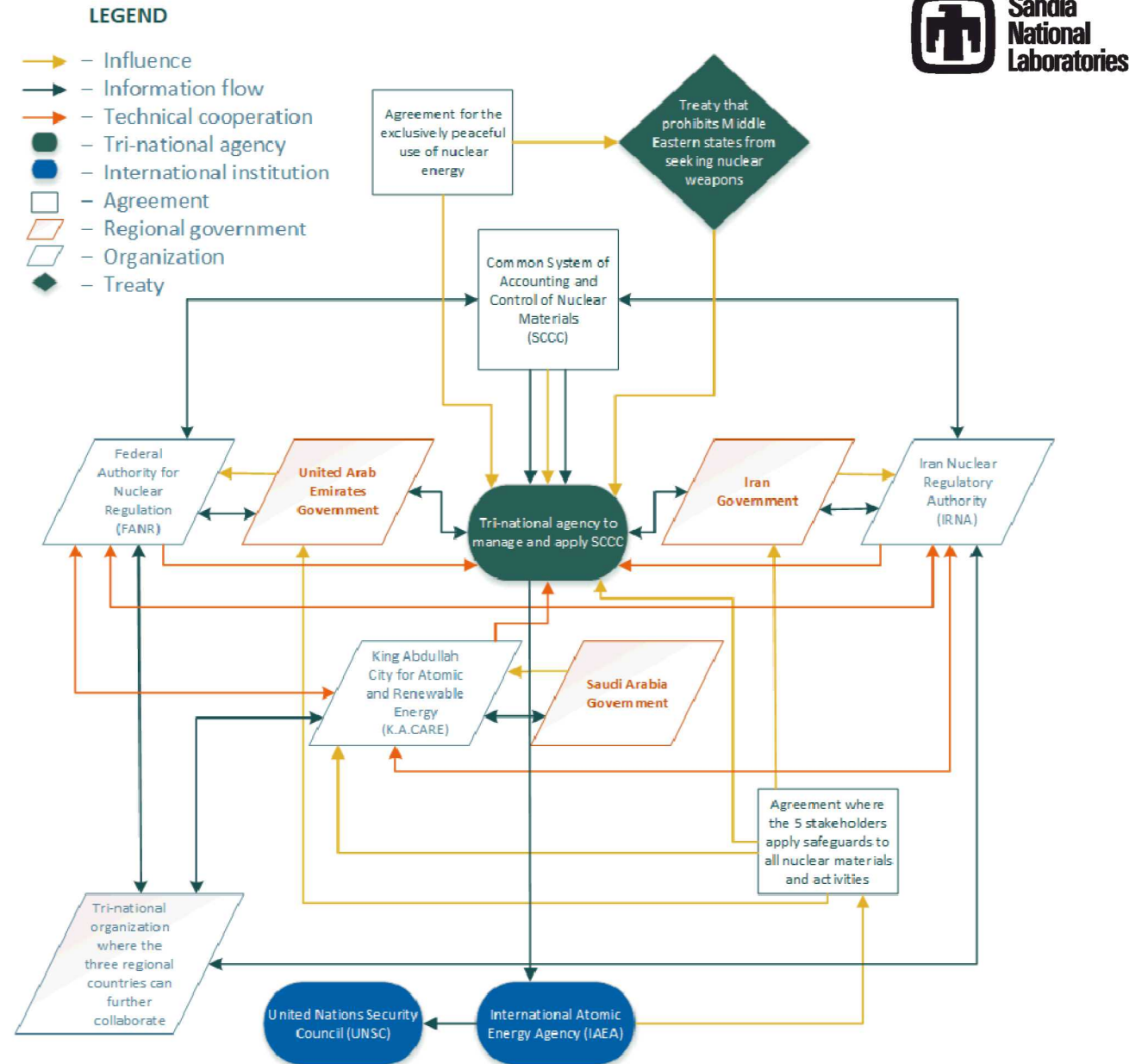


- Commonalities with Brazil and Argentina
  - Seeking technological autonomy
  - Pursuing nuclear energy
  - Regional countries
  - History of tension and cooperation



# 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

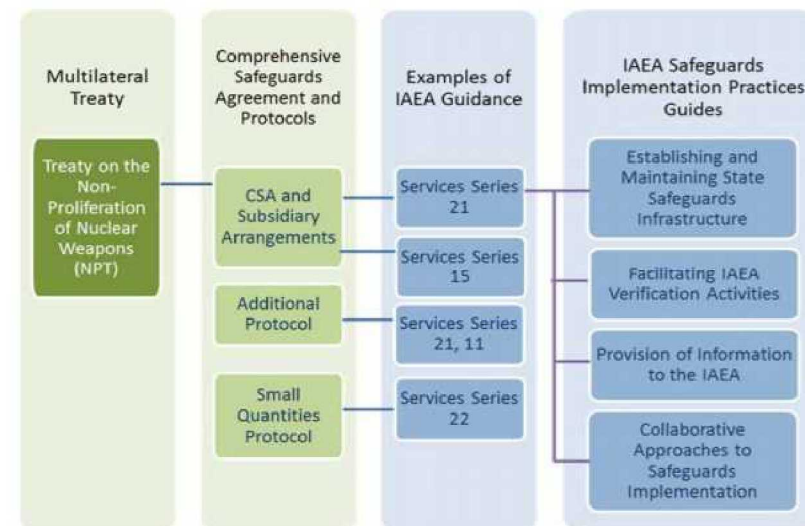


FIG. 1. IAEA safeguards guidance related to comprehensive safeguards agreements.

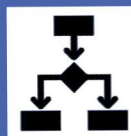


## Key Findings

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Regional cooperation through agreements are beneficial



Common System of Accounting and Control of Nuclear Materials is beneficial



Inspectorate is beneficial



# Sandia National Laboratories Implications

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# Questions?

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