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The Sandia Center  
for  
Global Security and Cooperation

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# Sandia Center for Global Security and Cooperation (SCGSC)

SAND2013-6824P

## *Overview for Dr. Khammar Mrabit*

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*Exceptional service in the national interest*



Sandia National Laboratories is a multi-program laboratory managed and operated by Sandia Corporation, a wholly owned subsidiary of Lockheed Martin Corporation, for the U.S. Department of Energy's National Nuclear Security Administration under contract DE-AC04-94AL85000. SAND NO. 2011-XXXXP

# The Sandia Center for Global Security and Cooperation

We seek a SAFE, SECURE  
WORLD through global  
technical engagement



RESEARCH, DEVELOP, and  
APPLY innovative SCIENCE  
AND ENGINEERING  
SOLUTIONS to strengthen  
nonproliferation and  
reduce global threats.

# Sandia's engagement in global security challenges spans over 50 years

## The Cold War



- NPT
- INFCIRC/225
- Open Skies Treaty
- INF Treaty
- Convention for the Physical Protection of Nuclear Materials (CPPNM)

## Post Cold War



- START I/II
- CTR
- CTBT
- International Convention for the Suppression of Acts of Nuclear Terrorism (ICSANT)

## Post 9/11



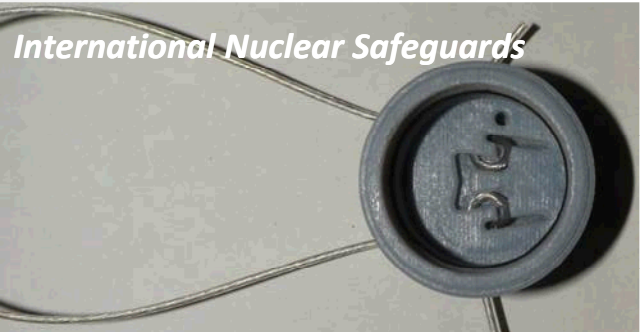
- New START
- Proliferation Security Initiative
- UNSCR 1540
- CPPNM Amendment



*Afghan Veterinary Capacity Building*



*International Nuclear Safeguards*



- ENDURING PARTNERSHIPS
- POLICY ENGAGEMENT
- SYSTEM SOLUTIONS



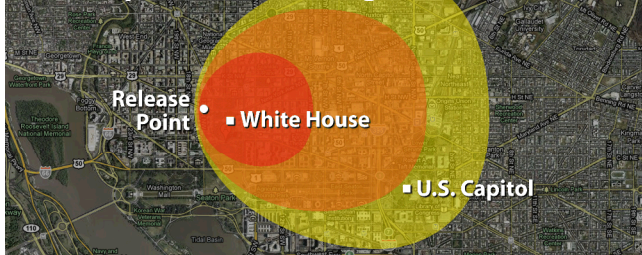
- RESEARCH and DEVELOPMENT
- SYSTEMS ANALYSIS
- SOLUTIONS ENGINEERING



*Mobile Radiation Detection and Identification System*



*Consequence Modeling*



*China Center of Excellence*



What emerges is a systems approach where S&T intersects to both inform and implement policy...

**National Nonproliferation Systems**



**International  
Treaties and  
Negotiated  
Agreements**

**Global Cooperative Threat Reduction**

... and focuses on risk reduction

# Looking ahead, reducing global nuclear dangers continues to be at the forefront of our work...

## ***NONPROLIFERATION SYSTEMS***



## ***TREATIES and NEGOTIATED AGREEMENTS***



## ***COOPERATIVE PROGRAMS***



...but the threat has evolved to include the misuse of chemical, biological, and radiological materials.

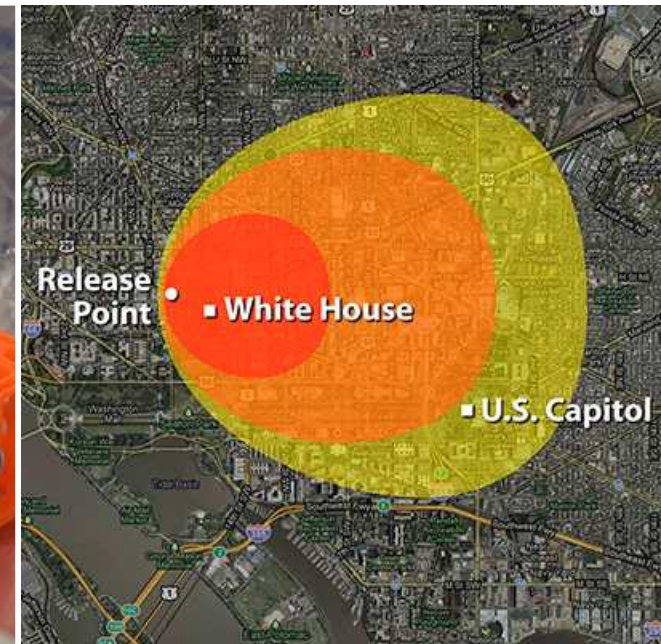
**CHEMICAL**



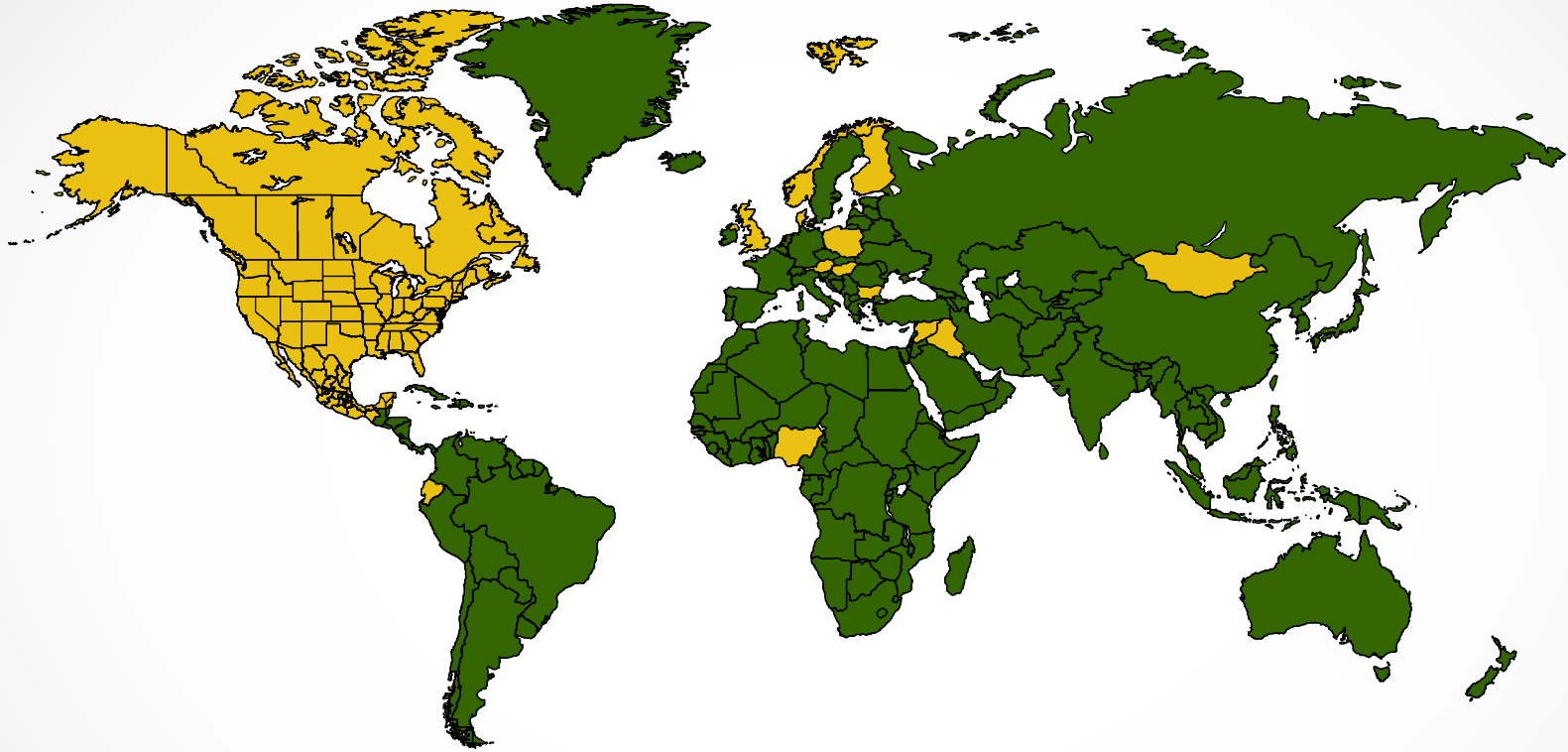
**BIOLOGICAL**




**RADIOLOGICAL**



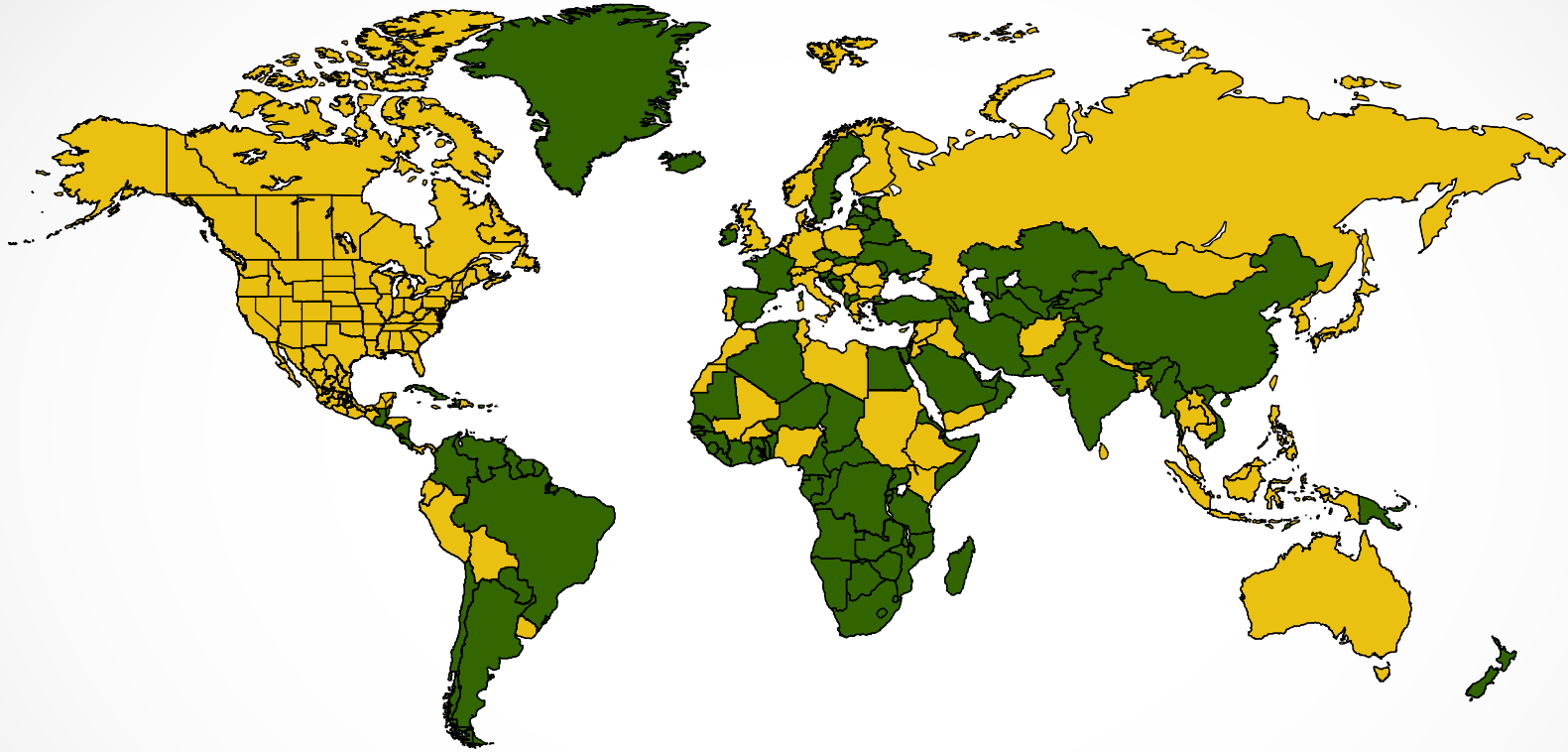
This work has expanded to include efforts in over 120 countries



**1960s**


 Active Engagement

This work has expanded to include efforts in over 120 countries

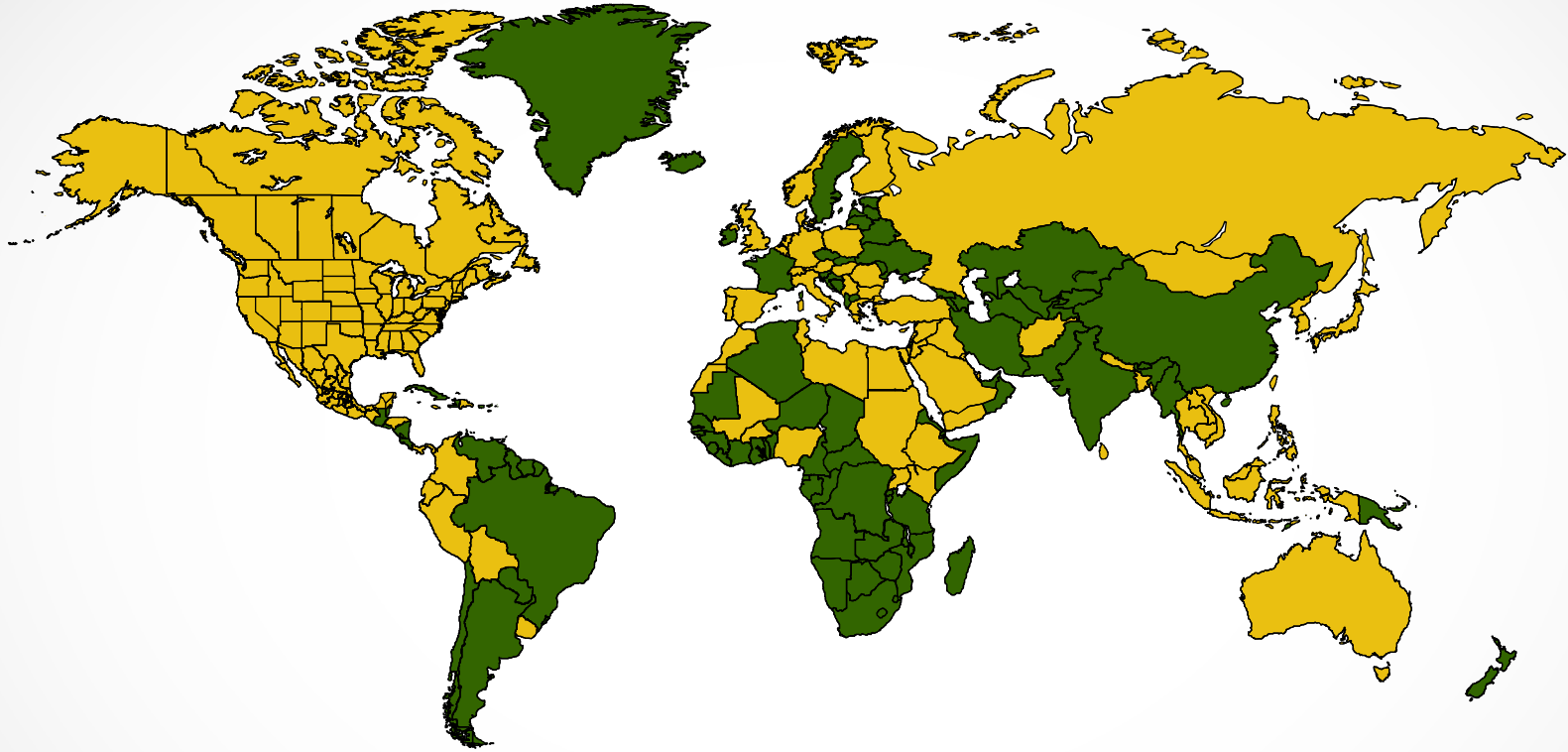


**1960s**

**1970s**

 Active Engagement


This work has expanded to include efforts in over 120 countries



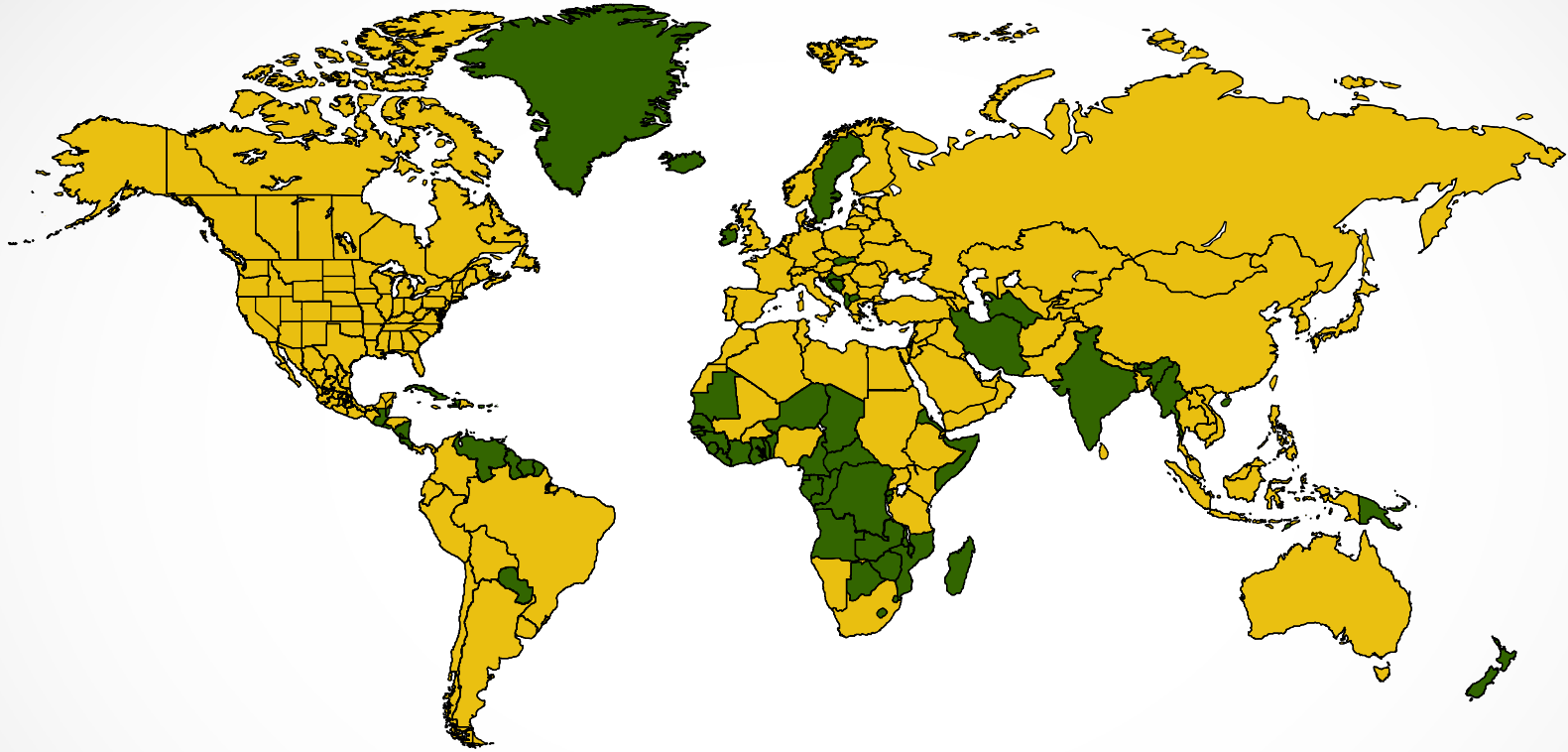
**1960s**

**1970s**

**1980s**

 Active Engagement

This work has expanded to include efforts in over 120 countries




**1960s**

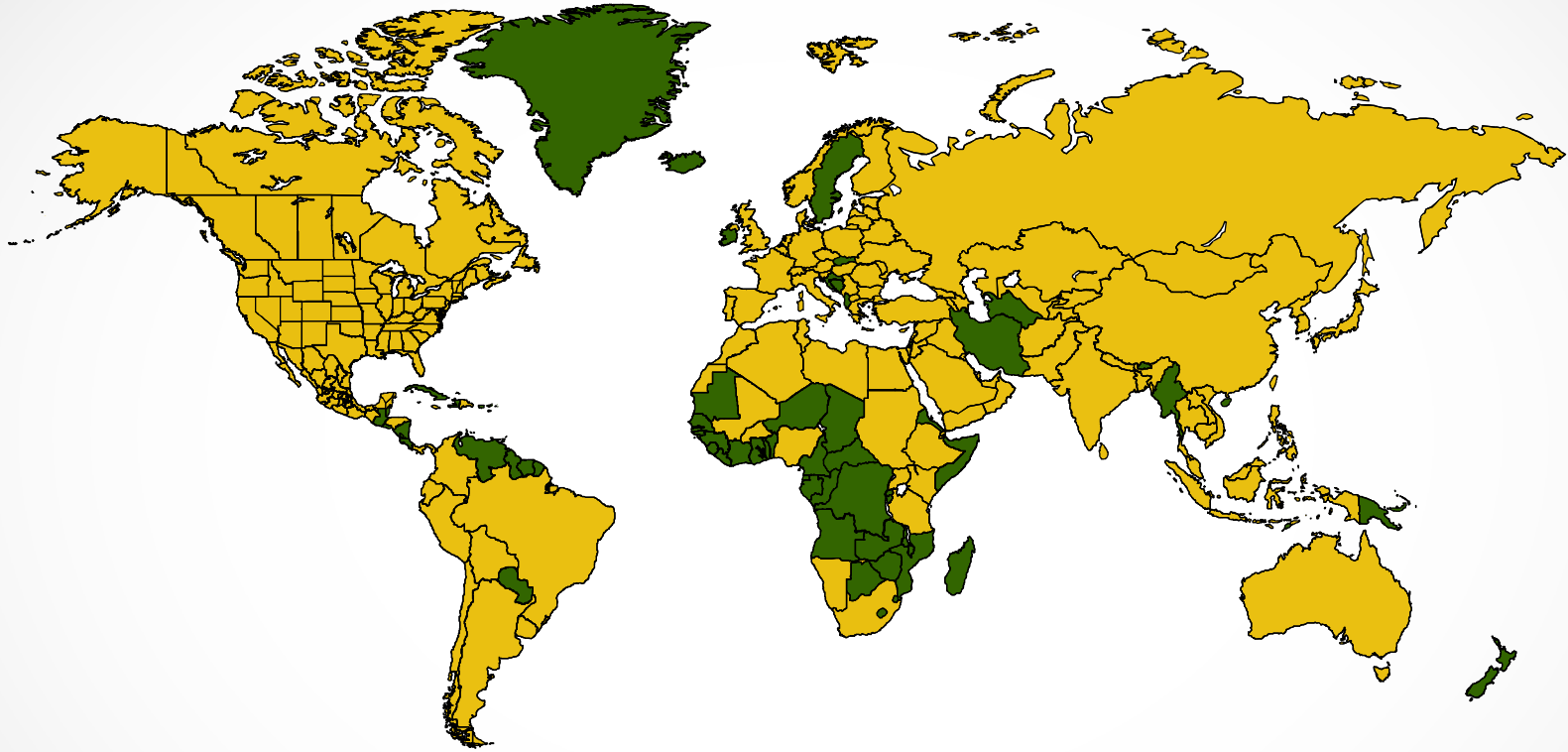
**1970s**

**1980s**

**1990s**

 Active Engagement

This work has expanded to include efforts in over 120 countries




**1960s**

**1970s**

**1980s**

**1990s**

**2000s**

 Active Engagement

# Summary

As the threats from the misuse of NCBM materials continue to increase and evolve, Sandia will anticipate US needs and develop systems solutions to create a global capacity that meets the challenges presented in a dynamic and complex international environment

- Building on Sandia's science and technology foundations that are strengthened by strong relationships with the nation's top universities
- Building on more than 50 years of experience in domestic and international security
- Building on strong relationships with the nation's industrial base
- Building on relationships with and experiences in more than 120 countries

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