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UNITED STATES NUCLEAR REGULATORY COMMISSION
Protecting People and the Environment

Safe, Secure, *and* Proliferation Resistant

FCIX 09

23 June 2009

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Nuclear Material Safety and Safeguards

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Overview

- Introduction
- Atoms for Peace
- Checking in 50 years later
- Strengthening nonproliferation
- Your role
- Closing the opening

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FCIX Themes

- The Nuclear Fuel Cycle – Building a Safe and Secure Future
  - **Fuel Cycle**
  - **Safety & Security**
  - **Building for Growth**

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Atoms for Peace, December 8, 1953

- Establish an international atomic energy agency
- Protect fissionable material
- Serve peaceful pursuits
- Encourage world-wide investigation

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How Far Have We Come?

- International Atomic Energy Agency
- Sharing material for peaceful uses
- Nuclear Non-Proliferation Treaty

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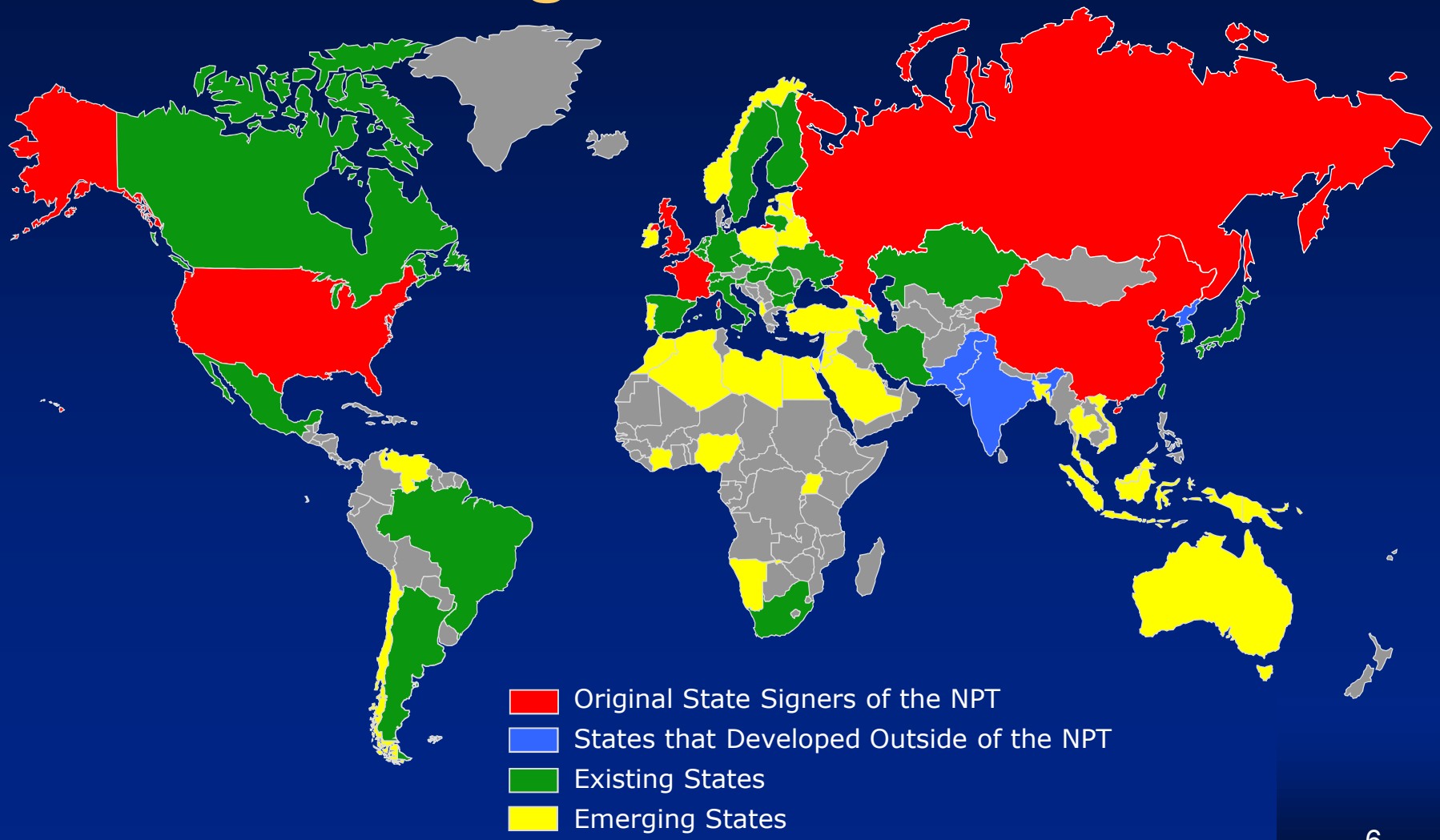
Is it Far Enough? Too Far?



Sharing Nuclear Materials

- Radioactive materials – beneficial uses
- Nuclear materials – nonproliferation controls

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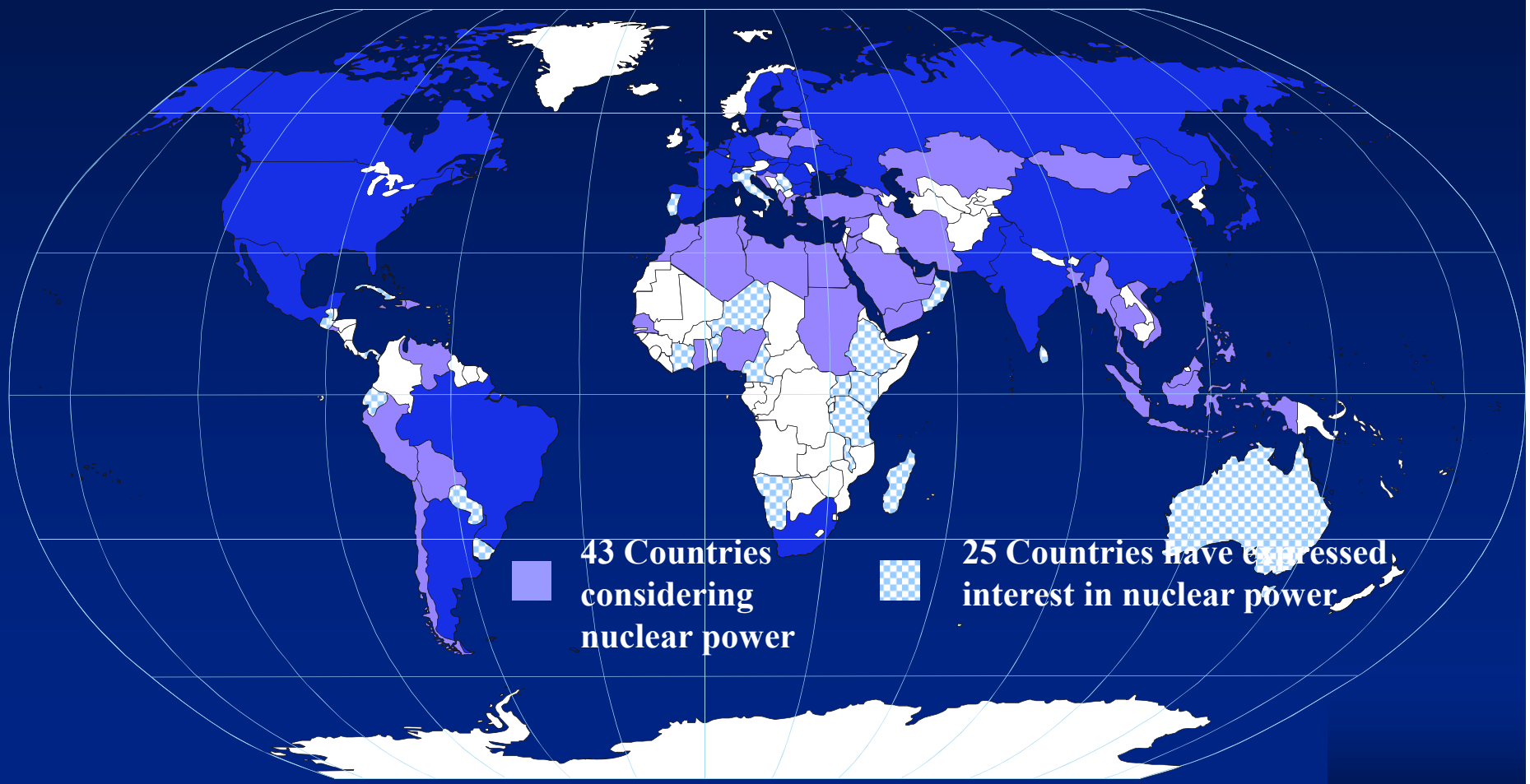
Potential New Entrants



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International Nuclear Fuel Bank

- Making nuclear fuel available for peaceful uses – reliable, reasonable, responsible
- Dissuading the spread of
  - Enrichment technology
  - Reprocessing technology

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World Vision

- Peaceful uses of nuclear energy
- Elimination of nuclear weapons

But – how can these be achieved without increasing proliferation risks?

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Strengthening Nonproliferation

- Support and strengthen the Nonproliferation Treaty
- Secure nuclear weapons and materials, while promoting safe use of nuclear energy
- Support IAEA and stress the importance of international safeguards
- Seek universal adherence to IAEA comprehensive safeguards and additional protocol

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Strengthening Nonproliferation (Cont'd)

- Strengthen cooperation to combat nuclear terrorism
- Support verifiable treaty to end fissile material production
- Work for ratification of the Comprehensive Nuclear Test Ban Treaty
- Minimize civilian use of High Enriched Uranium
- Improve and sustain nuclear security
- Develop mutually beneficial approaches to expand nuclear energy
- Work on international and bilateral basis to resolve regional conflicts

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Your Role in Nonproliferation

- Safeguards and security programs
- Nuclear cooperation agreements
- Fulfillment of NPT and safeguards agreements
- Export controls
- Clandestine program detection
- Arms control and disarmament
- International collaboration and cooperation
- Training and IAEA staffing
- Reporting suspicious incidents

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Enhancing Nonproliferation

- The nuclear industry itself plays an important role in reducing proliferation risks
- The current nuclear renaissance is a unique opportunity to enhance nonproliferation

Madame Lauvergeon, CEO of AREVA, Carnegie International Nonproliferation Conference, April 2009

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Closing the Opening

- What are **you** doing?
  - Participate actively
  - Engage
  - Provide your input
- Thank you for participating

Safe

Secure

Proliferation Resistant