



HEU DOWN-BLENDING AND INFORMATION BARRIERS

A Thought Experiment for South Asia

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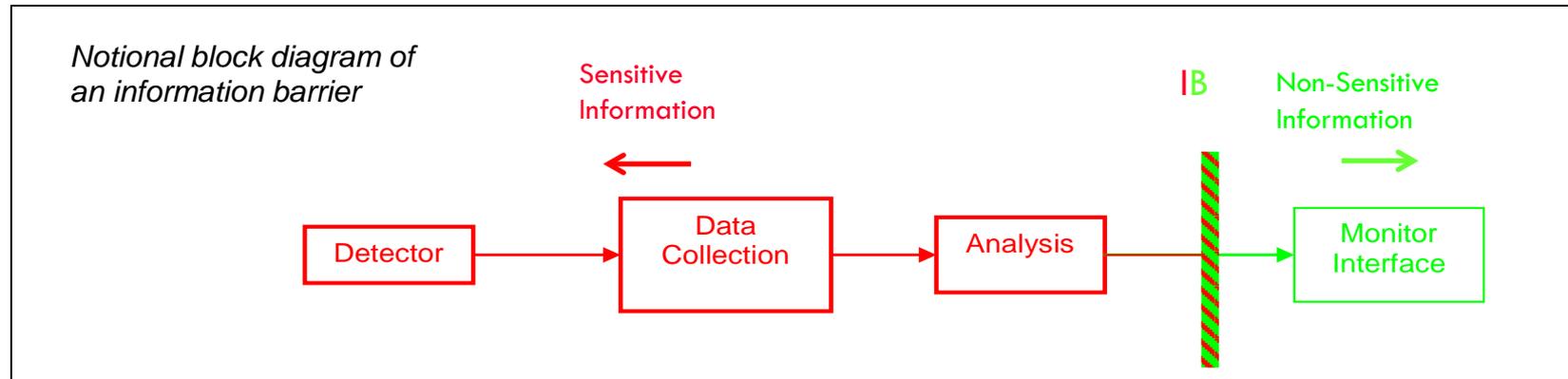
Safeguards Summer Intern 2011



Introduction

- Introduction to Information Barriers
- HEU Down-blending Scenario
- Scenario Assumptions
- Proposed Verification Regime
- Assessment of the Verification Regime
- Steps to Implementation
- Conclusion

Introduction to Information Barriers



- Methodology for protecting sensitive information during monitoring
- Acts as a filter

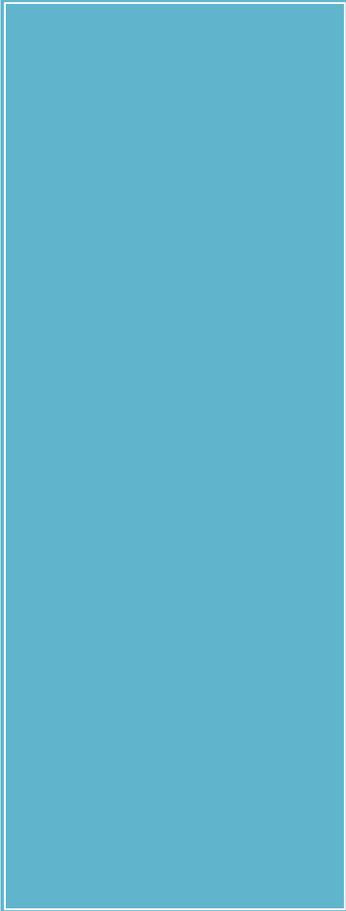
HEU Down-blending Scenario



India and Pakistan have agreed to down-blend a year's production of HEU, enriched to 70% or higher, in a verified process under IAEA safeguards.



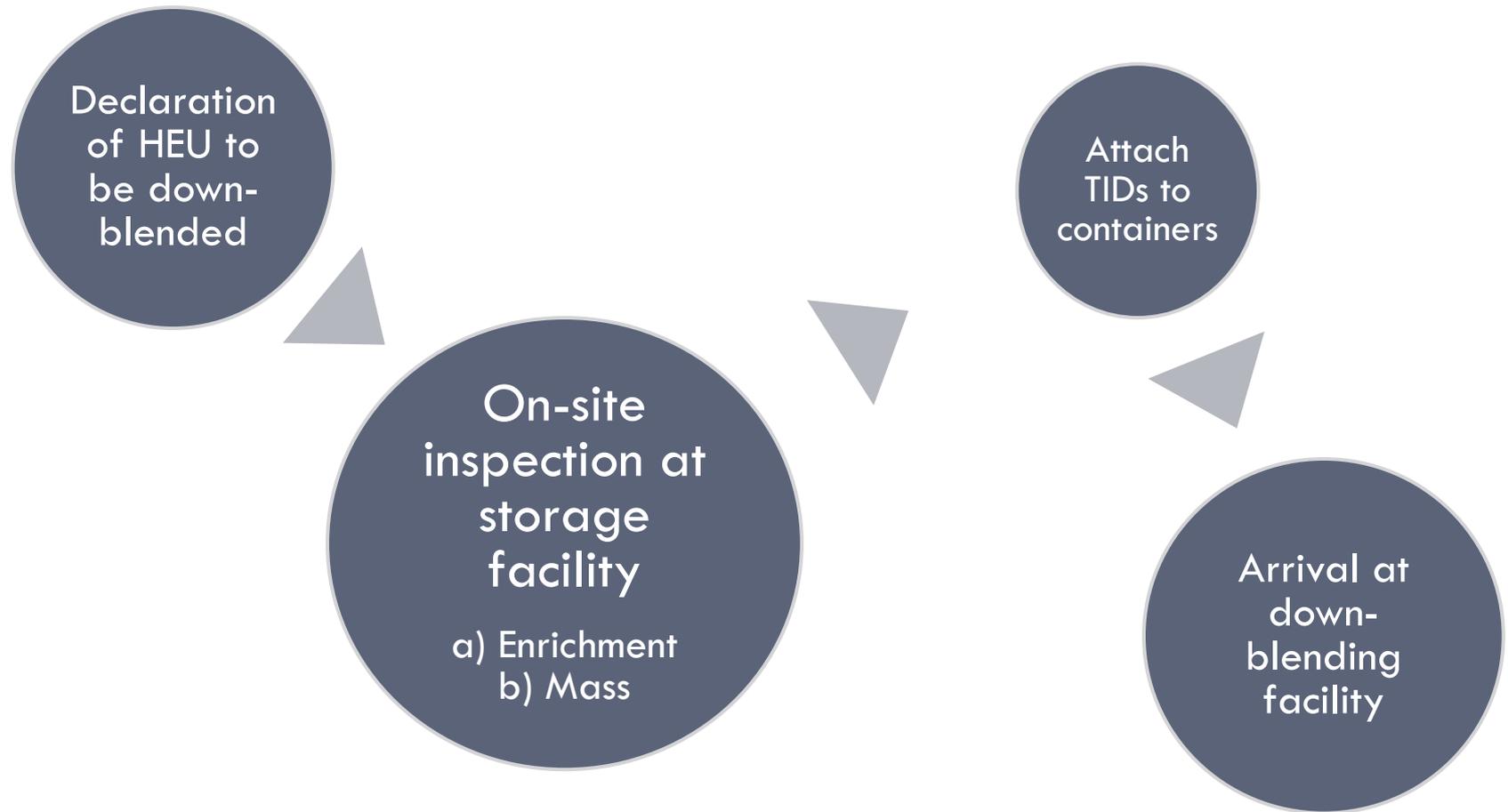
Scenario Assumptions



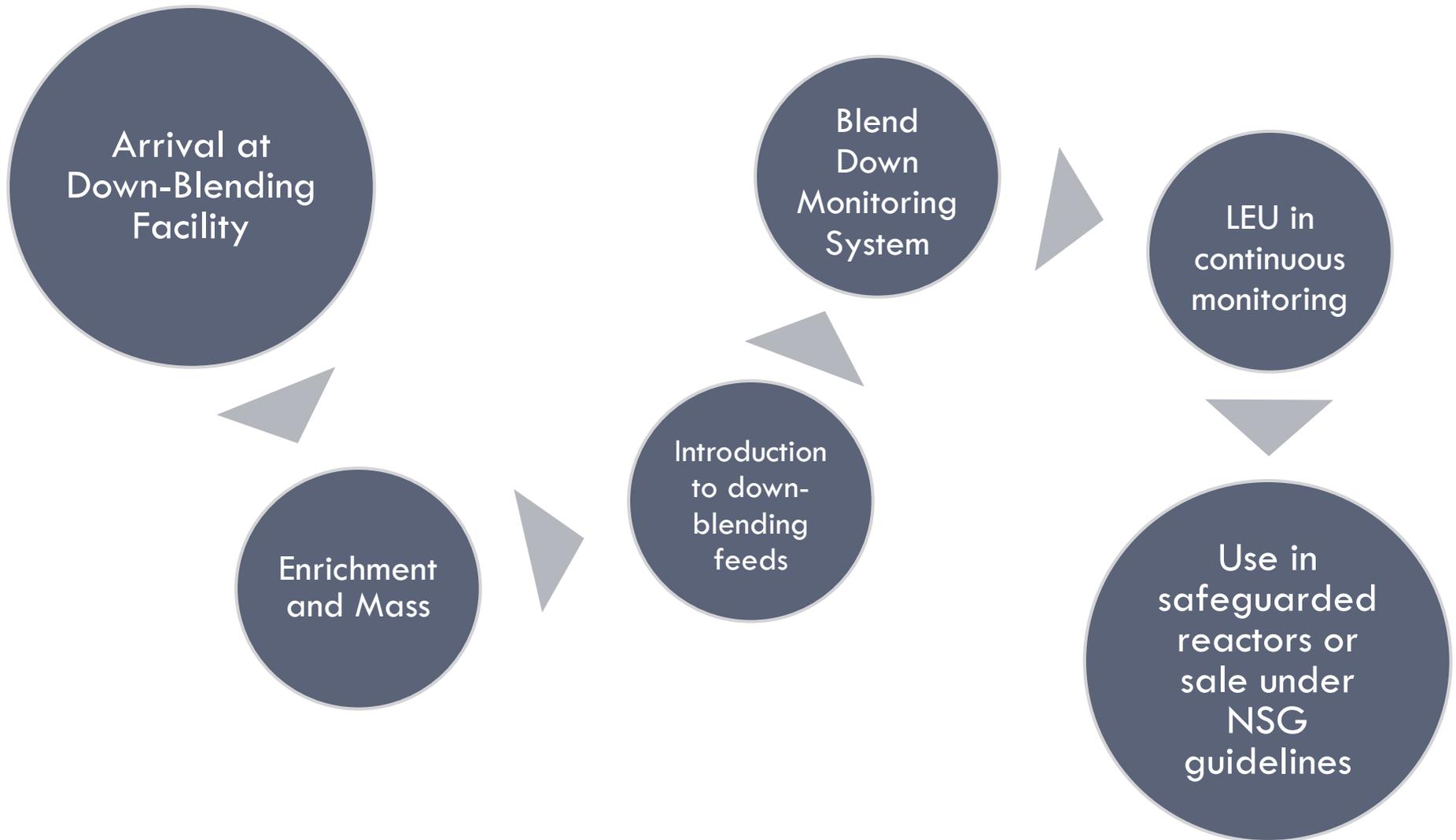
India and Pakistan:

- Are prepared to engage on nuclear issues
- Have experience in technical cooperation
- Agree to down-blend HEU
- Have sensitivities regarding HEU enrichment

Proposed Verification Regime I



Proposed Verification Regime II



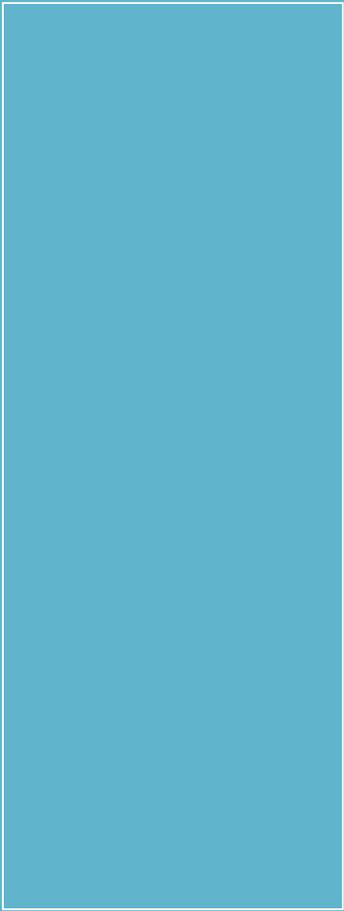


Assessment of the Verification Regime

- Expanded use of information barriers
- Challenges:
 - ▣ Certification
 - ▣ Authentication
- Likelihood of spoofing



Steps to Implementation

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- Pre-negotiation
 - ▣ Technical cooperation
 - ▣ Change in security environment
 - ▣ International pressure
 - Negotiated framework
 - Construction of Information barrier
 - Construction of down-blending facility
 - Implementation
 - Post-implementation dialogue



Conclusion

- Lessons learned
- Steps for the future

Thank you

Questions?

Blend Down Monitoring System

