



Joint Science and Technology Panel for Chemical Biological Defense

# **Overview of International Programs in Chemical and Biological Defense**

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**And**

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# OUTLINE

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- **What is International Collaboration?**
- **Why Have International Collaboration?**
- **What is Needed for International Collaboration?**
- **What Can You Do in International Collaboration?**





# Cooperation with the U.S. DOD

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**U.S. DOD to Industry**

**CRDAs  
TSAs**

**U.S. DOD to Foreign  
Government**

**International Agreements**





## Joint Science and Technology Panel for Chemical Biological Defense

**It is a capital mistake to theorize before one has data.  
Insensibly one begins to twist facts to suit theories  
instead of theories to suit facts.**

**Sherlock Holmes**



Joint Science and Technology Panel for Chemical, Biological, Defense

# THE TRIANGLE OF RELATIONSHIPS





# Restrictions

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- **In Order to Have Any International Collaboration, International Agreements (IAs) are Required.**
- **Arms Export Control Act (AECA) and the International Traffic in Arms Regulations (ITARs) Restrict the Release of Information**
- **Without an Applicable IA**
  - **Public Domain Information Only**
  - **Nothing Sensitive**
  - **Nothing on MCTL**
- **IAs Required to Pass Information/Material/Equipment Government to Government**
- **DEAs/IEAs Permit Exchange of Information Only**
  - **No Laboratory Materials or Equipment**
  - **No Materiel**
- **Section 65 Loans/Section 67 Leases Required for Transfer of Equipment**



# Types of Agreements

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**Foreign Comparative Testing**



**Cooperative Research and Development**



**Foreign Military Sales**



**Cooperative Production**

**Exchange of Personnel**



**Loans**

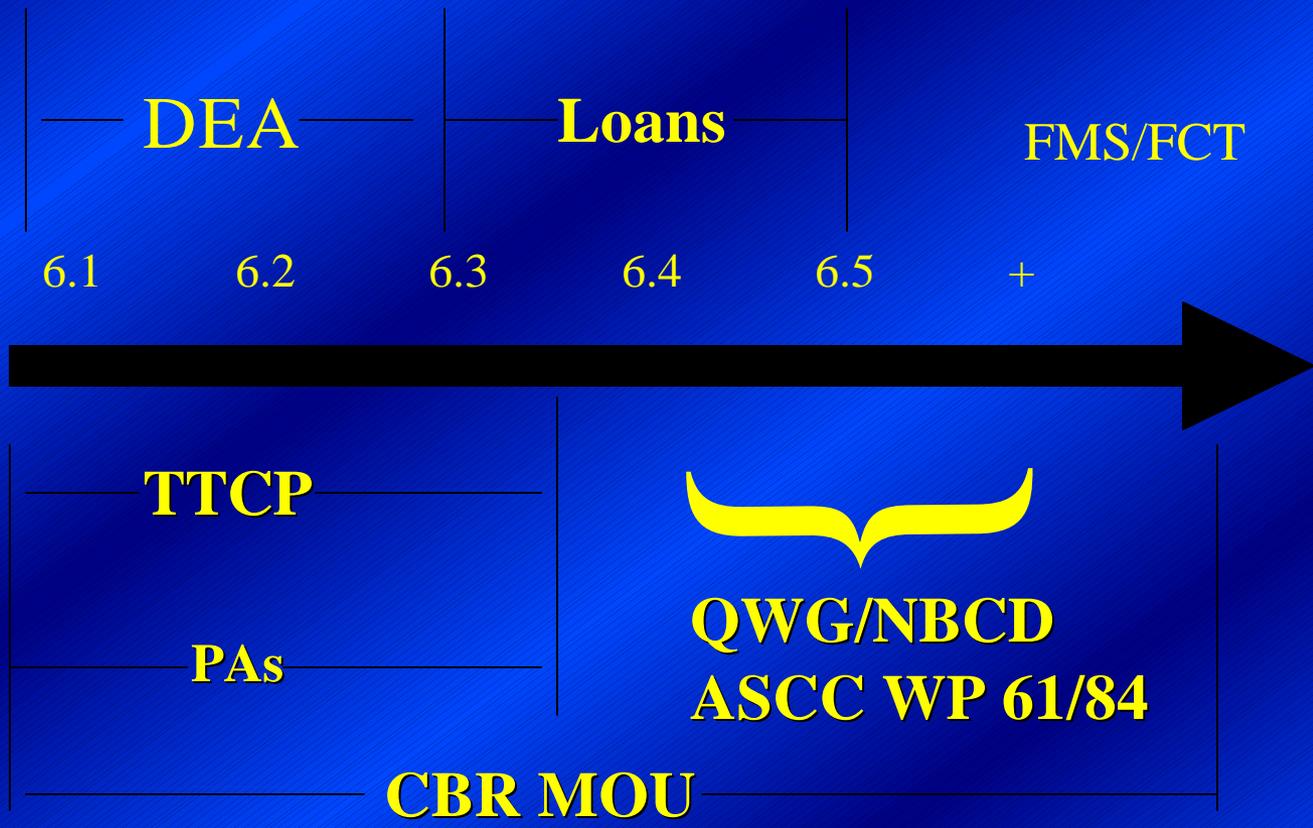
**Exchange of Information**





# Range of Agreements

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# What Each Agreement is for

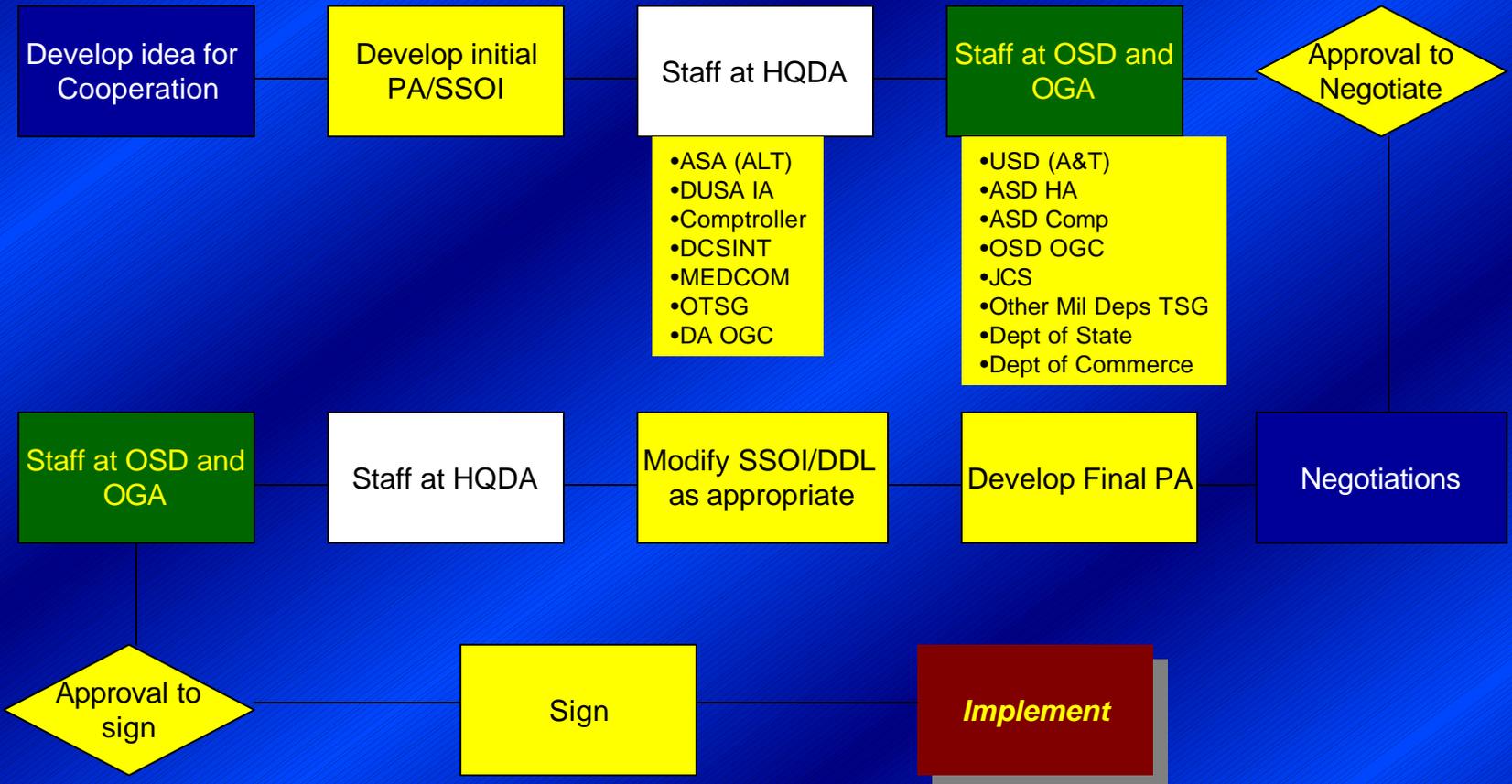
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- **DEA/IEAs**
  - **Information Exchange Only**
  - **No Transfer of IPR**
  - **“Evaluation Purposes Only”**
- **Project Agreements/Arrangements**
  - **Technology Base Projects Only (Except CBR MOU Pas)**
  - **Joint Ownership of IPR**
  - **Collaborative Program: Joint Commitment**
- **MOUs**
  - **Same a Pas, but permits greater flexibility**
- **Loans**
  - **Transfer of equipment**
  - **Can be done under Pas, or as a standalone**
- **ESEP**
  - **Exchange of Scientists and Engineers**
  - **Allows for the Assignment of a Foreign S&E to a DOD Lab (and the Reverse)**



# International Program Process

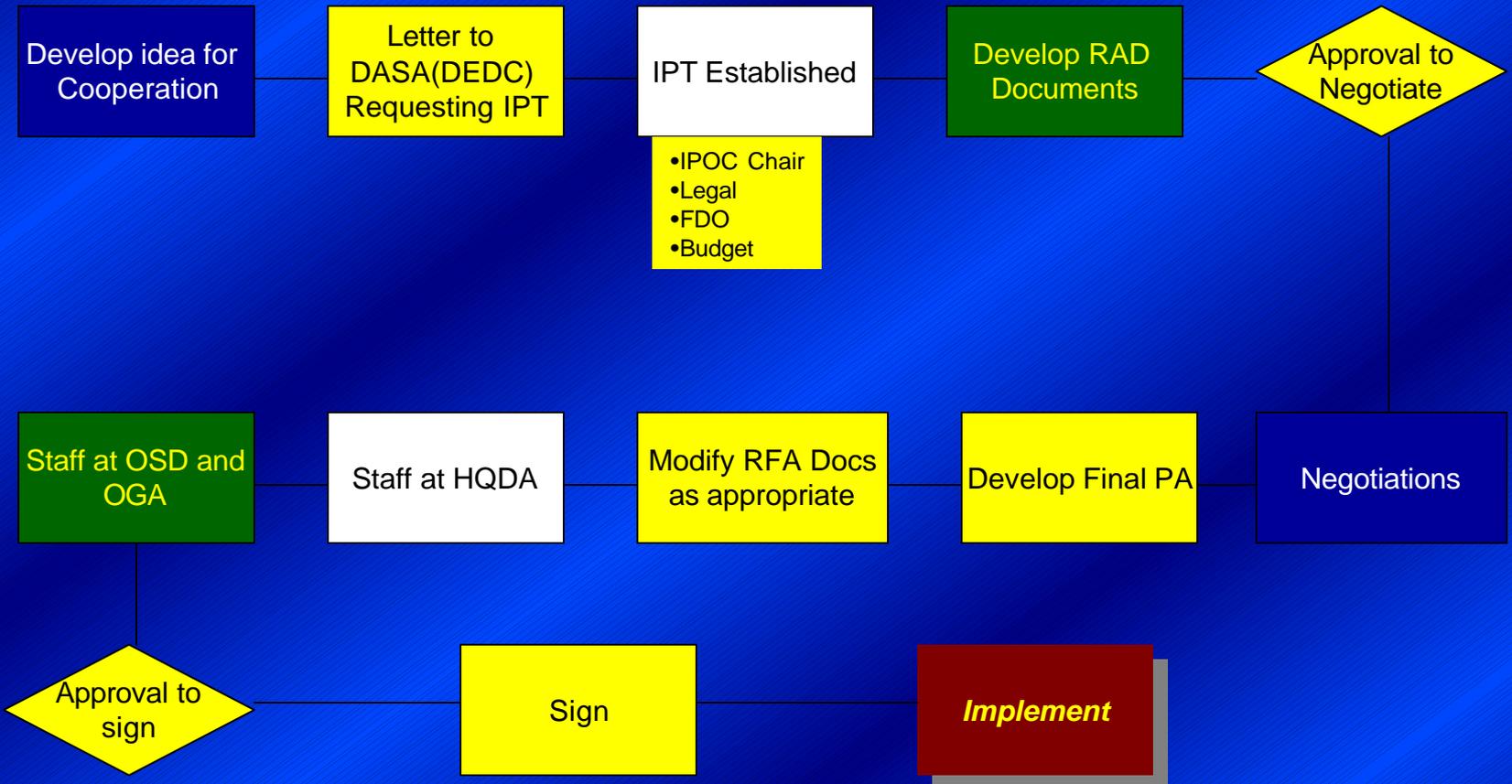
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# International Program Process

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# The Strategic Goal(s)

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- **Develop Stronger, More Comprehensive Ties in the Science and Technology Areas with Cooperative Partners and Potential Partners**
- **Develop DEAs/IEAs to Permit Maximum Flexibility (Number of Countries/Topics)**
- **Develop Cooperative Programs Beyond “Information Exchange”**
- **Have an International Agreement in Place for Everything We Want to Do Cooperatively**
  - **Exchange of Equipment, Materials/Loans are a BIG Problem**
  - **Due to Time to Conclude Agreements, Want Something In Place As Early as Possible**

# SBCCOM FOCUS WORLDWIDE

U.S. Army Soldier and Biological Chemical Command

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Political Map of the World, June 1997



**TTCP**  
**CBD**  
**JSA**  
**MAT**

**Pas/MOUs**  
**CBR LSCD**  
**MS Fox**  
**Env Tox Water Monitor**  
**Body Armor Soft Shelters**

**56 DEAs**  
**CB Defense**  
**Soldier Systems**  
**Clothing**  
**Food**  
**Shelters**  
**Smoke**

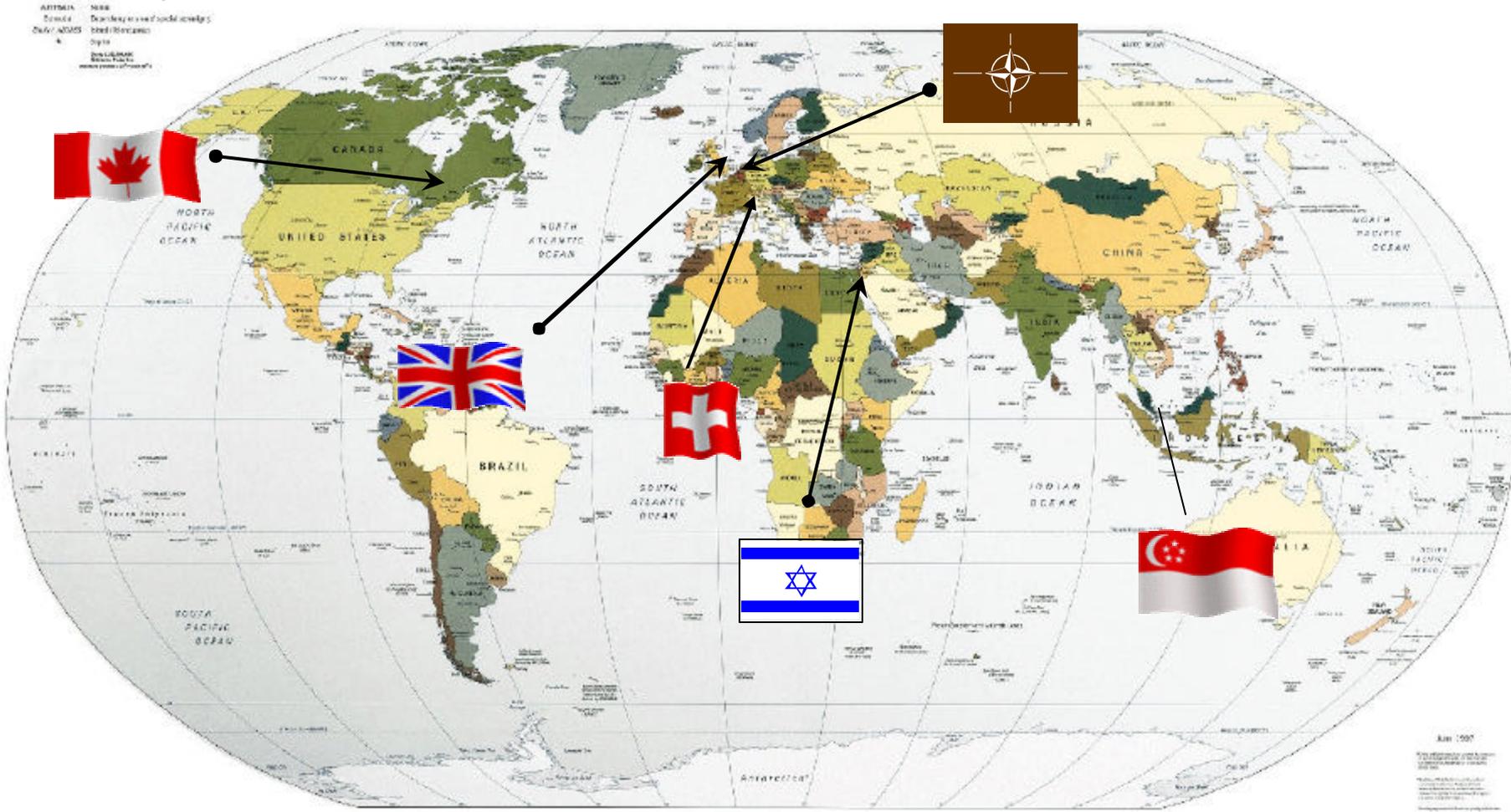
# Cooperative Programs in COLPRO

U.S. Army Soldier and Biological Chemical Command

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Political Map of the World, June 1997



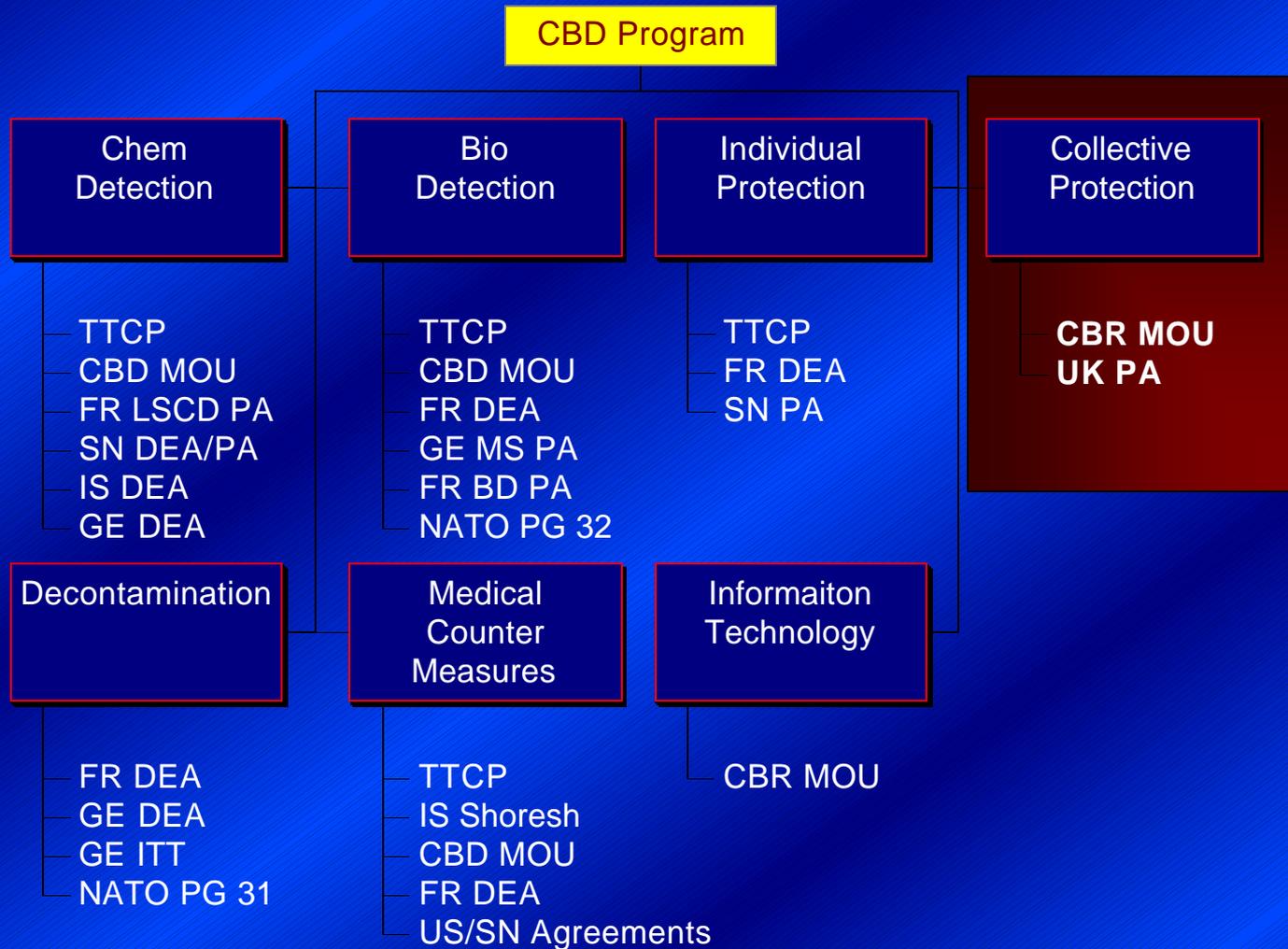
June 1997

1000 MILES



# Influence of International Programs on the Tech Base

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# CB Products From International Cooperation

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NBCRS "FOX"



BioDetector



Mirela



Biological Integrated Detection System



ICAM



ACADA



# The Mission

Joint So

nse



..... *Bill Bernstein*

*"What do I do?" I'm in the nerve gas business. How's THAT for a conversation stopper?"*