

Global Physical Security Program

Daniel Briand
Manager



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.



SNL GTRI Mission

Reduce the likelihood of theft or malevolent misuse of nuclear and radiological materials.

Objective

Support NA-21's Global Threat Reduction Initiative (GTRI) to improve the protection of both radiological and nuclear materials in civilian locations through:

- Deployed proven technologies
- Applied expertise in a systematic life-cycle approach
- Comprehensive training to ensure full implementation of security upgrades



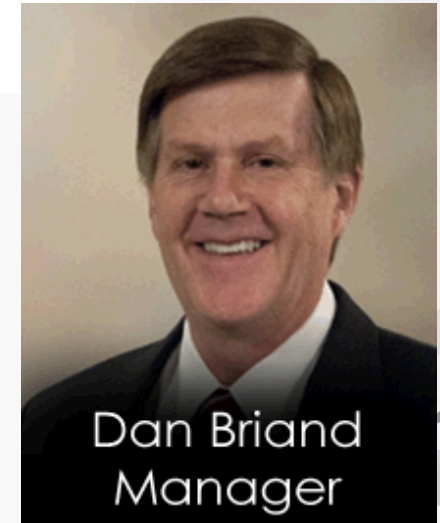
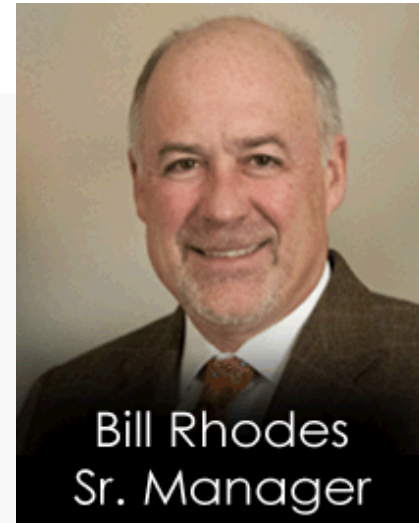
SNL Structure

6000

6800

6810

6811



Energy,
Nonproliferation,
and High-
Consequence
Security

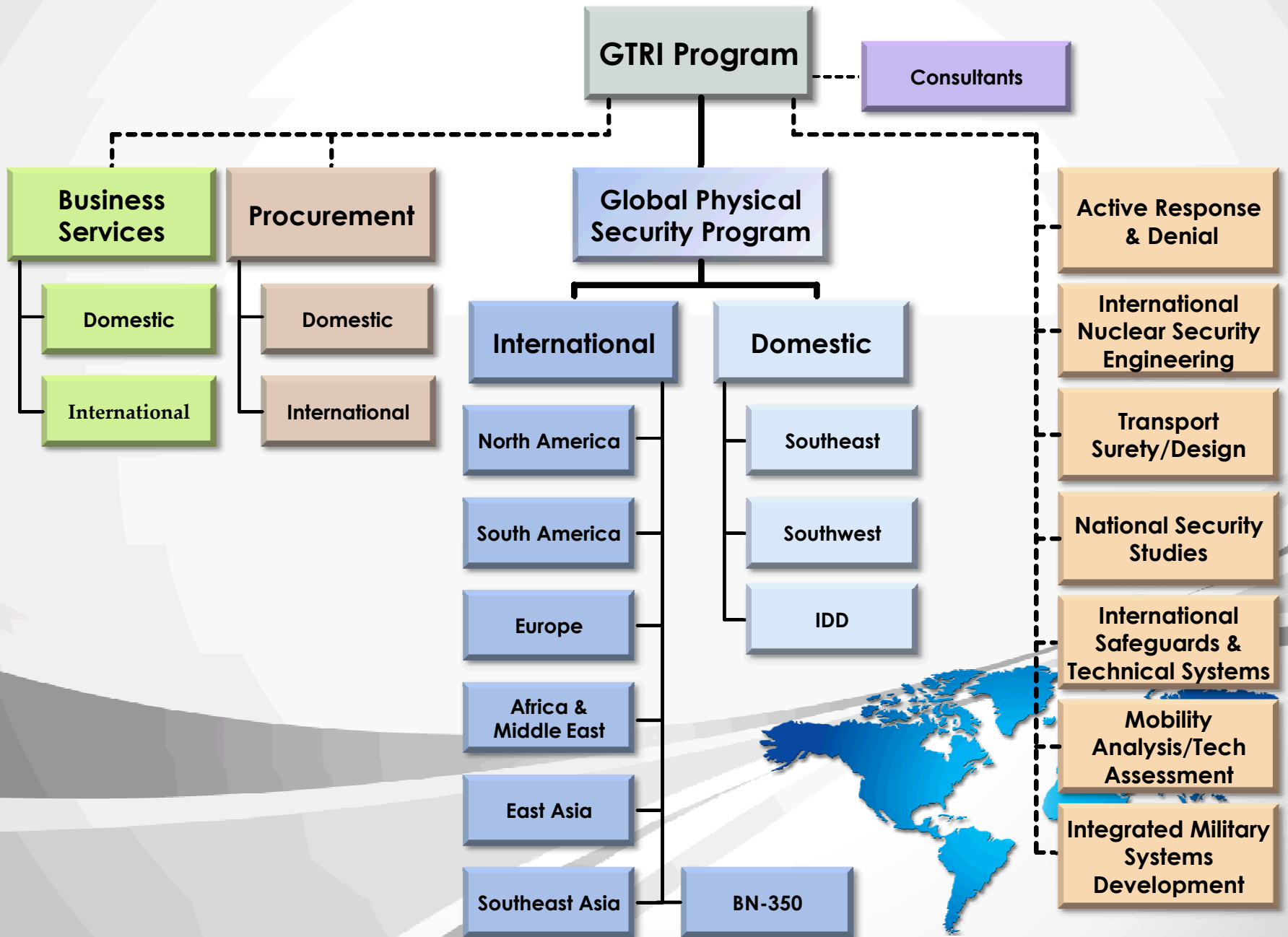
Nonproliferation
and
Cooperative
Threat
Reduction

International
Security
Systems

Global Physical
Security
Program



GLOBAL THREAT REDUCTION INITIATIVE



Technical Support Groups

Active
Response &
Denial

International
Nuclear Security
Engineering

Transportation
Surety &
Design

National
Security
Studies



IDD



DELAY BUNKER

Technical Support Groups

Active Response & Denial

International Nuclear Security Engineering

Transportation Surety & Design

National Security Studies

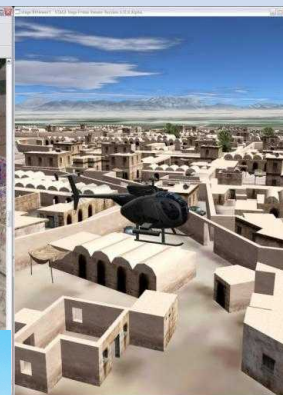
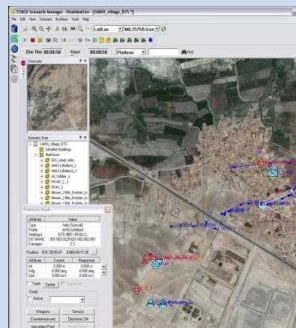


TRAINING



DEMONSTRATION

RESPONSE SIMULATION TOOL



TECH AREA V

Technical Support Groups

Active
Response &
Denial

International
Nuclear Security
Engineering

Transportation
Surety &
Design

National
Security
Studies



Physical Protection of
Nuclear Materials



TABLE-TOP
EXERCISES



Technical Support Groups

Active
Response &
Denial

International
Nuclear Security
Engineering

Transportation
Surety &
Design

National
Security
Studies



SYSTEMS

ANALYSIS

Program Management
GTRI Program Management
Information System, Generation 2

Implementation Criteria

GTRI Protection & Sustainability Criteria Document 2007

Risk Reduction Measures

"Radioactive Sources Relative Risk Reduction Study" for GTRI 2009
"CsCl Replacement Feasibility Study" for DHS 2009
"Special Security Upgrade for CS-137 Irradiators Phase I: Vulnerability Test and Upgrade Design Options" in support of Joint GTRI/DNDO Source Security Project. SAND2008-4471

Source Vulnerability

"A Red Team Effort to Obtain Radioactive Material from a Self-Contained Irradiator" SAND2006-2352
"Self-Contained Irradiator in the US: Risk of Terrorist Acquisition & Use for RDDs" SAND 2006-3703

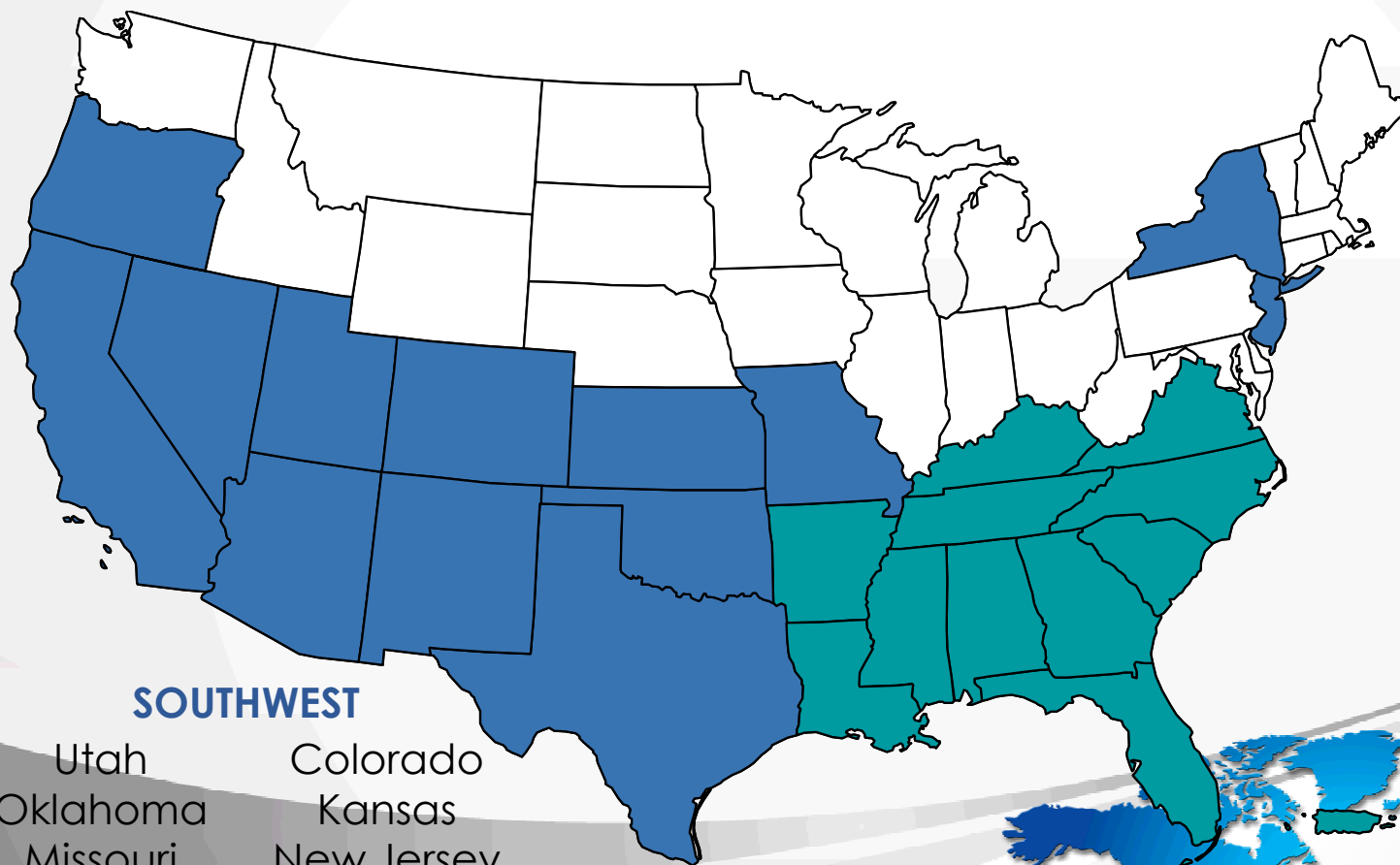
Materials of Concern

"Radioactive Material Down Selection & Source Prioritization Methodology" in support of GTRI 2008
"Explosive Dispersal of Materials Relevant to Radiological Dispersal Devices - Experimental Results and Ramifications (U)" in support of DTRA SAND2008-0733

RDD Risk Assessment

"Economic Impacts of Detonating RDD's" by LANL for GTRI (Sandia Contributor) 2008
"Description and Validation of ERAD: An Atmospheric Dispersion Model for High Explosive Detonations" SAND92-2069
"A Risk-Based Approach to RDD Analysis" SAND2003-1331
"Defense Science Board Task Force on Unconventional Nuclear Warfare Defense, 2000 Summer Study Volume III" 2001 (Sandia Contributor)

Domestic Sites



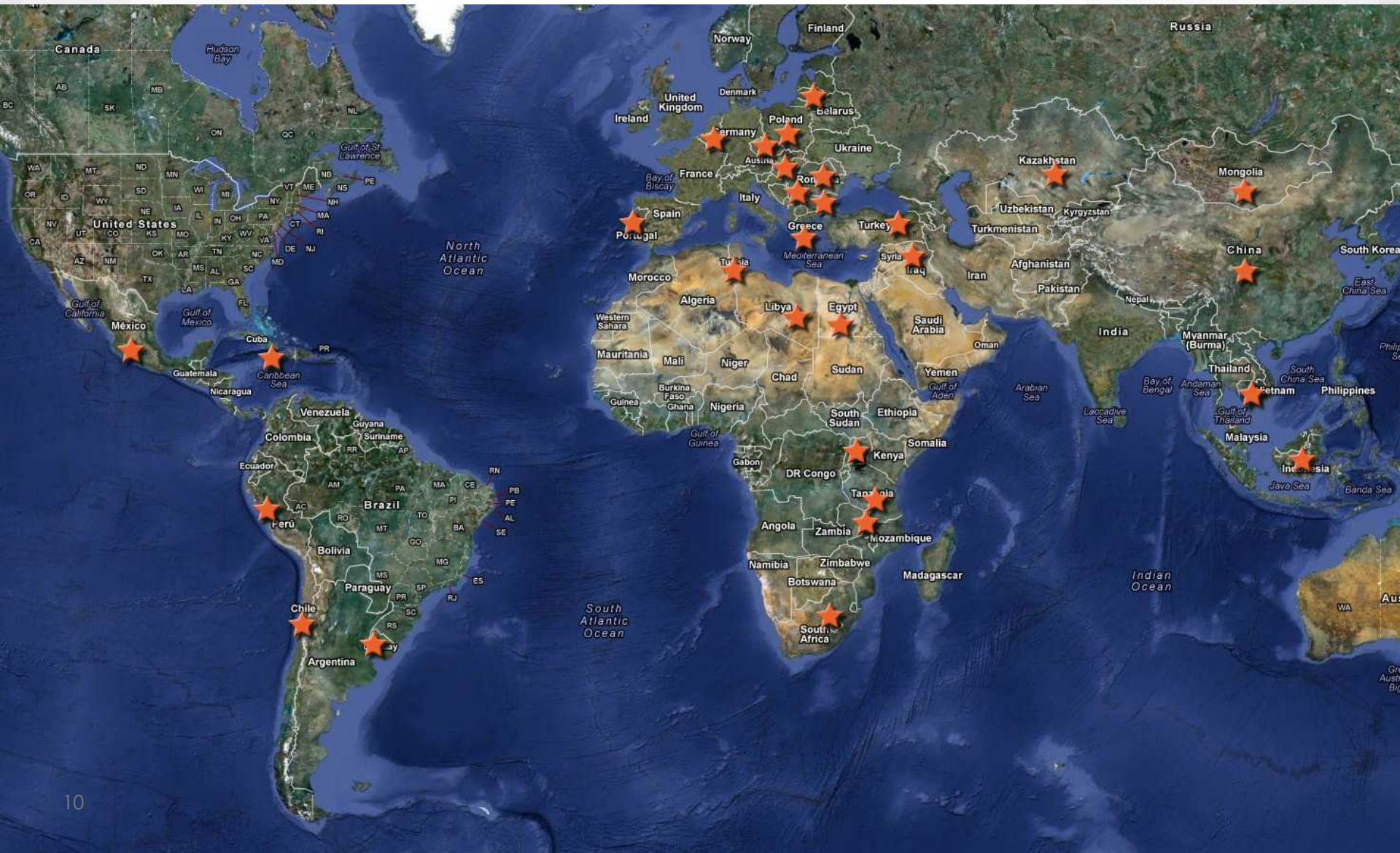
SOUTHWEST

- Utah
- Oklahoma
- Missouri
- Oregon
- California
- Arizona
- Colorado
- Kansas
- New Jersey
- New York
- Texas
- Nevada
- New Mexico

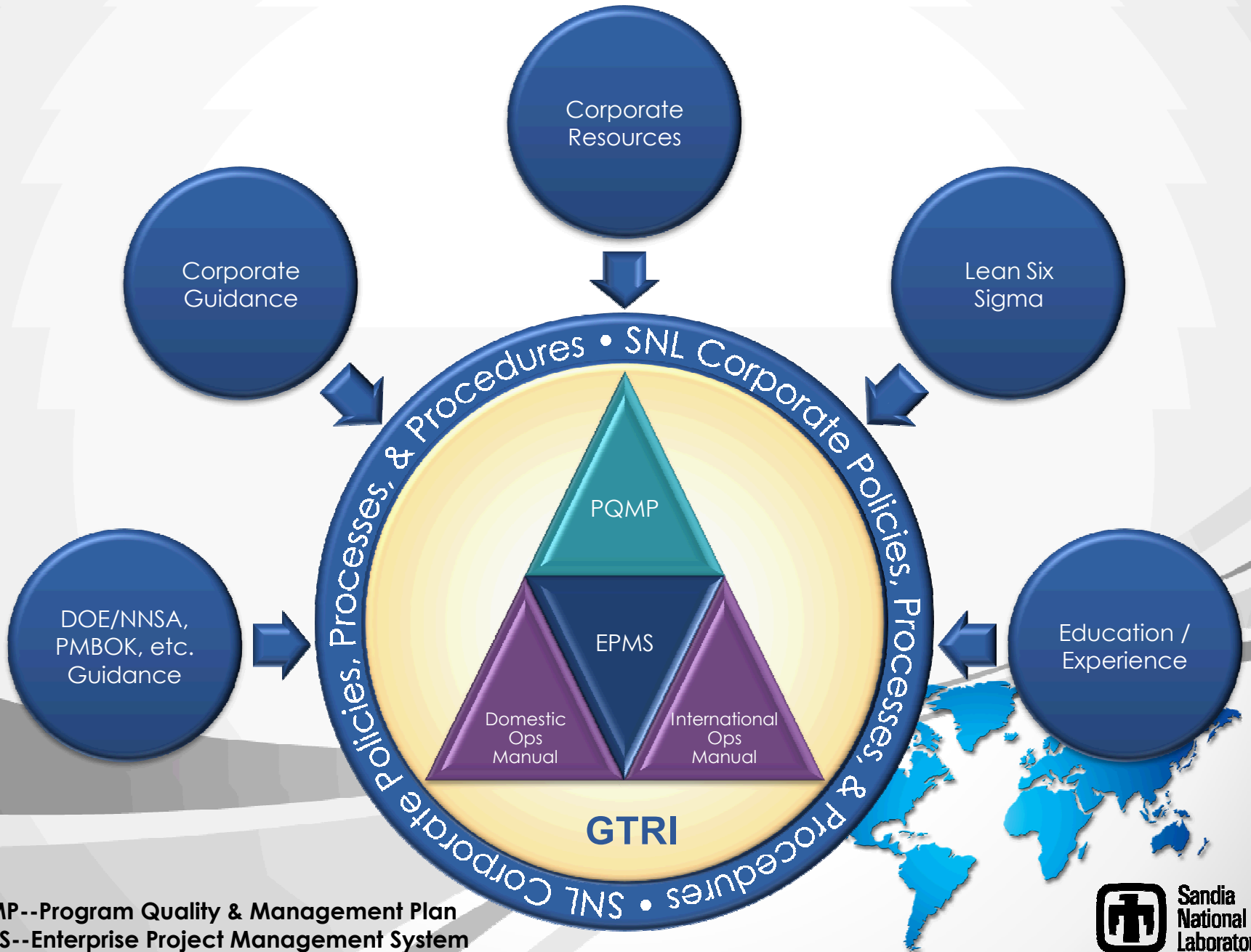
SOUTHEAST

- Kentucky
- Louisiana
- South Carolina
- Puerto Rico
- Alabama
- Arkansas
- Florida
- Georgia
- Mississippi
- North Carolina
- Tennessee
- Virginia

International Sites



GLOBAL THREAT REDUCTION INITIATIVE



PQMP--Program Quality & Management Plan
EPMS--Enterprise Project Management System

GLOBAL THREAT REDUCTION INITIATIVE

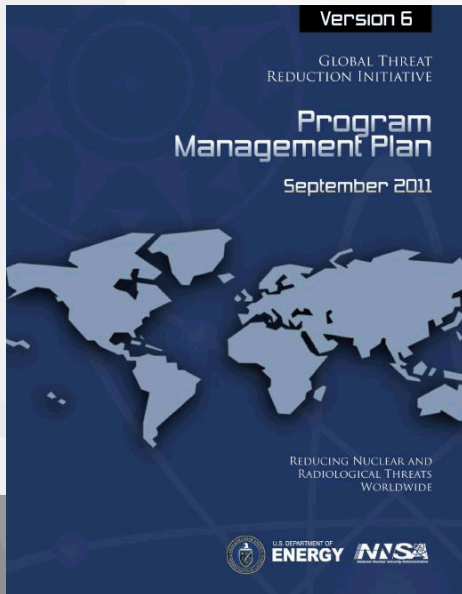
DOE/NNSA,
PMBOK, etc.
Guidance

Corporate
Guidance

Corporate
Resources

Lean Six
Sigma

Education /
Experience



INTERNATIONAL
STANDARD

ISO
9000

Third edition
2005-09-15

Quality management systems —
Fundamentals and vocabulary

*Systèmes de management de la qualité — Principes essentiels et
vocabulaire*



Reference number
ISO 9000:2005(E)

© ISO 2005



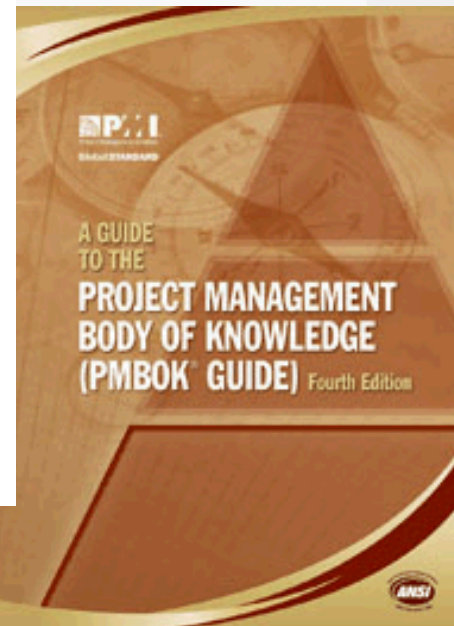
National Defense Industrial Association
Program Management Systems Committee

Integrated Baseline Review (IBR) Guide

Revision 1
September 1, 2010

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GLOBAL THREAT REDUCTION INITIATIVE

DOE/NNSA,
PMBOK, etc.
Guidance

Corporate
Guidance

Corporate
Resources

Lean Six
Sigma

Education /
Experience



ME Homepage | ILMS | Techweb | Feedback

Project Management



Process Description

- **Project Management:** Application of knowledge, skills, tools & techniques to project activities to meet project requirements.
- **Project:** A temporary endeavor undertaken to create a unique product, service or result.

Close Projects
Guidance

Initiate Projects
Guidance

Plan Projects
Guidance

Execute Projects
Guidance

Monitor & Control Projects
Guidance

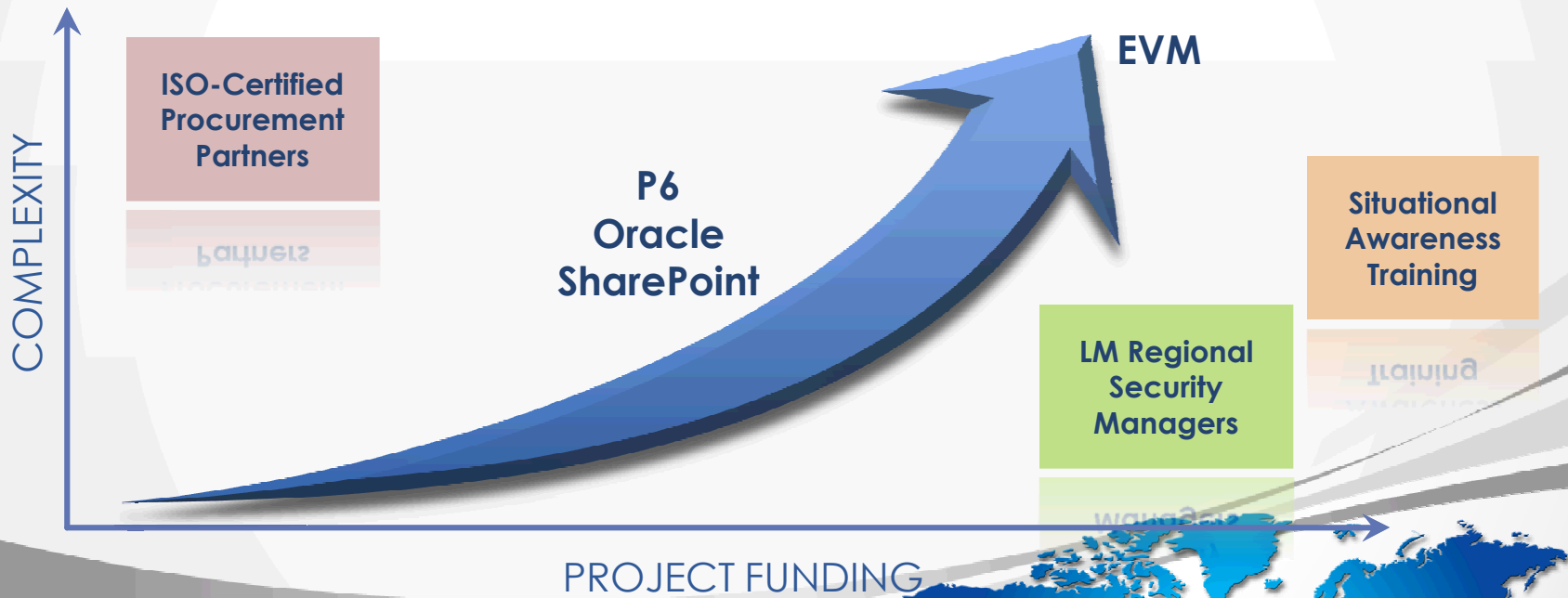
Requirements Management
Audit Checklist

Risk Screening and Identification
Checklist

Risk Management
Checklist

Sandia National Laboratories
Project Management
Handbook
A Guide on PM Basics to Project Managers at Sandia

GLOBAL THREAT REDUCTION INITIATIVE



Customized PM resources to meet the needs of the customer and project



DOE/NNSA,
PMBOK, etc.
Guidance

Corporate
Guidance

Corporate
Resources

Lean Six
Sigma

Education /
Experience

Lean Six Sigma improves PM processes

- Streamlined processes
 - Improved outputs
 - Reduced hours
- Gained insight to GTRI management
- Adjusted movement from reactive to proactive
- Able to provide recommendations to GTRI

The screenshot shows the Sandia's Lean Six Sigma Home Page. At the top, there is a search bar and a navigation menu. The main content area is divided into several sections: a welcome message, a methodology overview, a department introduction, strategic objectives, metrics, a database, and basics of LSS. A team photo is featured in the center. At the bottom, there are announcements and a pyramid diagram representing the 5 Lean Principles: Perfection, Full, Flow, Value Stream, and Value From Customer Perspective.

DOE/NNSA,
PMBOK, etc.
Guidance

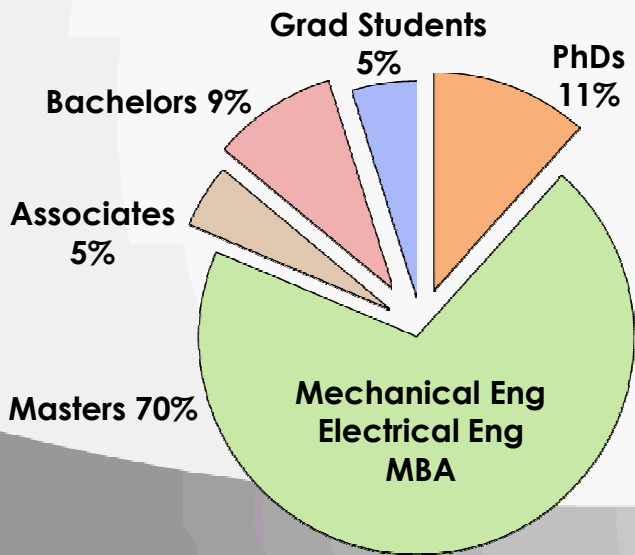
Corporate
Guidance

Corporate
Resources

Lean Six
Sigma

Education /
Experience

Corporate Training Support for PM



6 = PMI - PMP Certified
5 = PM Masters Certificate - GWU

2 = BW Masters Certificate - GWU

Alliance with George Washington University

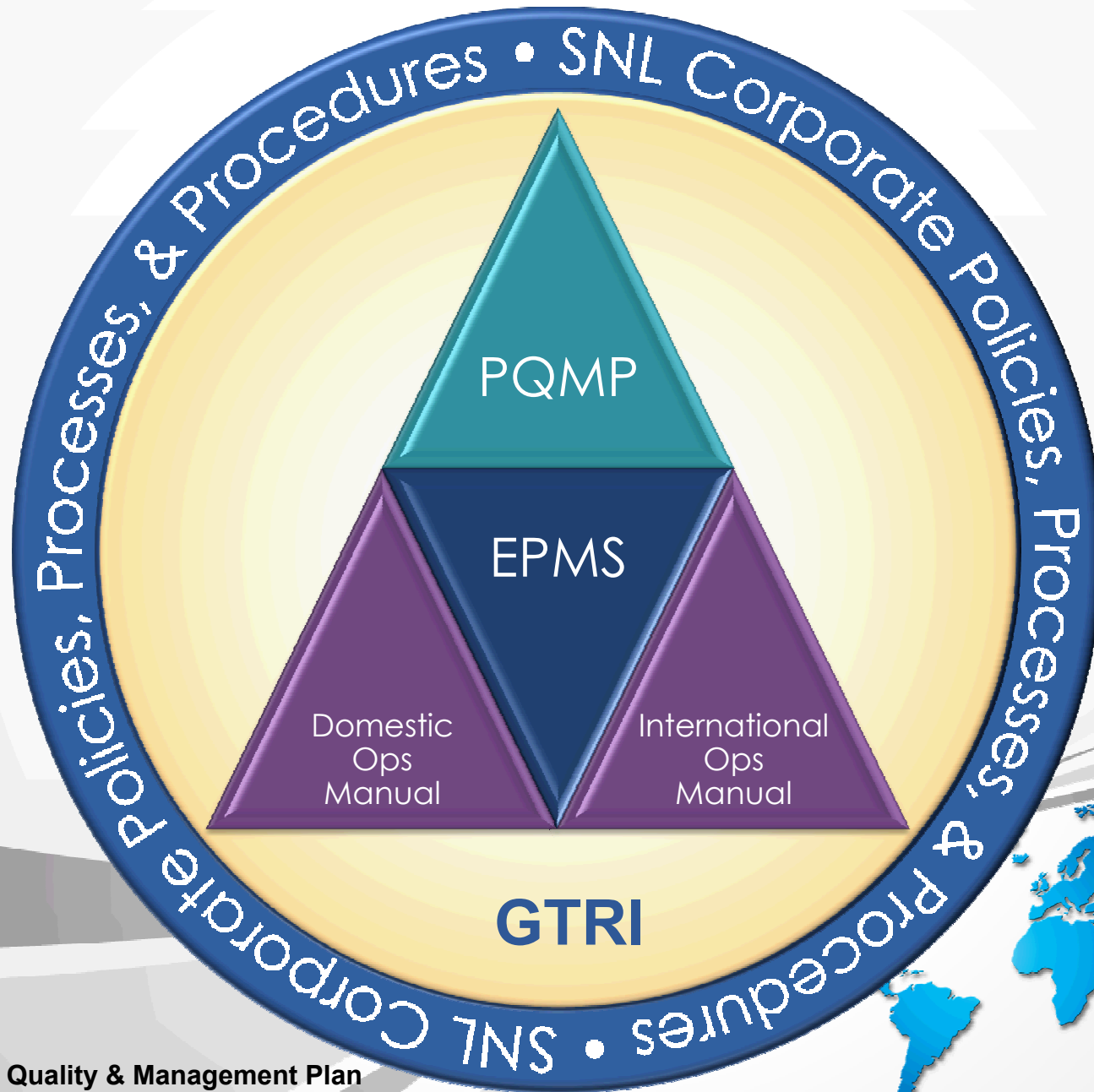
Basic Learning Search

Your search found 8 learning(s).

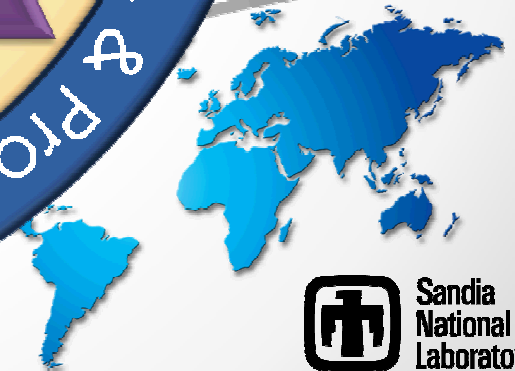
Learning Title	Code	Type	Hours
CONTRACT MANAGEMENT, PRINCIPLES and PRACTICES	PMP106		24.00
MANAGING PROJECTS	PMP101		24.00
PMP EXAM POWER PREP	PMP109		40.00
PROJECT LEADERSHIP, MGMT AND COMMUNICATIONS	PMP102		24.00
PROJECT MANAGEMENT APPLICATIONS	PMP107		40.00
PROJECT MANAGEMENT: SCHEDULING AND COST ANALYSIS	PMP104		32.00
QUALITY FOR PROJECT MANAGERS	PMP103		24.00
RISK MANAGEMENT	PMP105		24.00

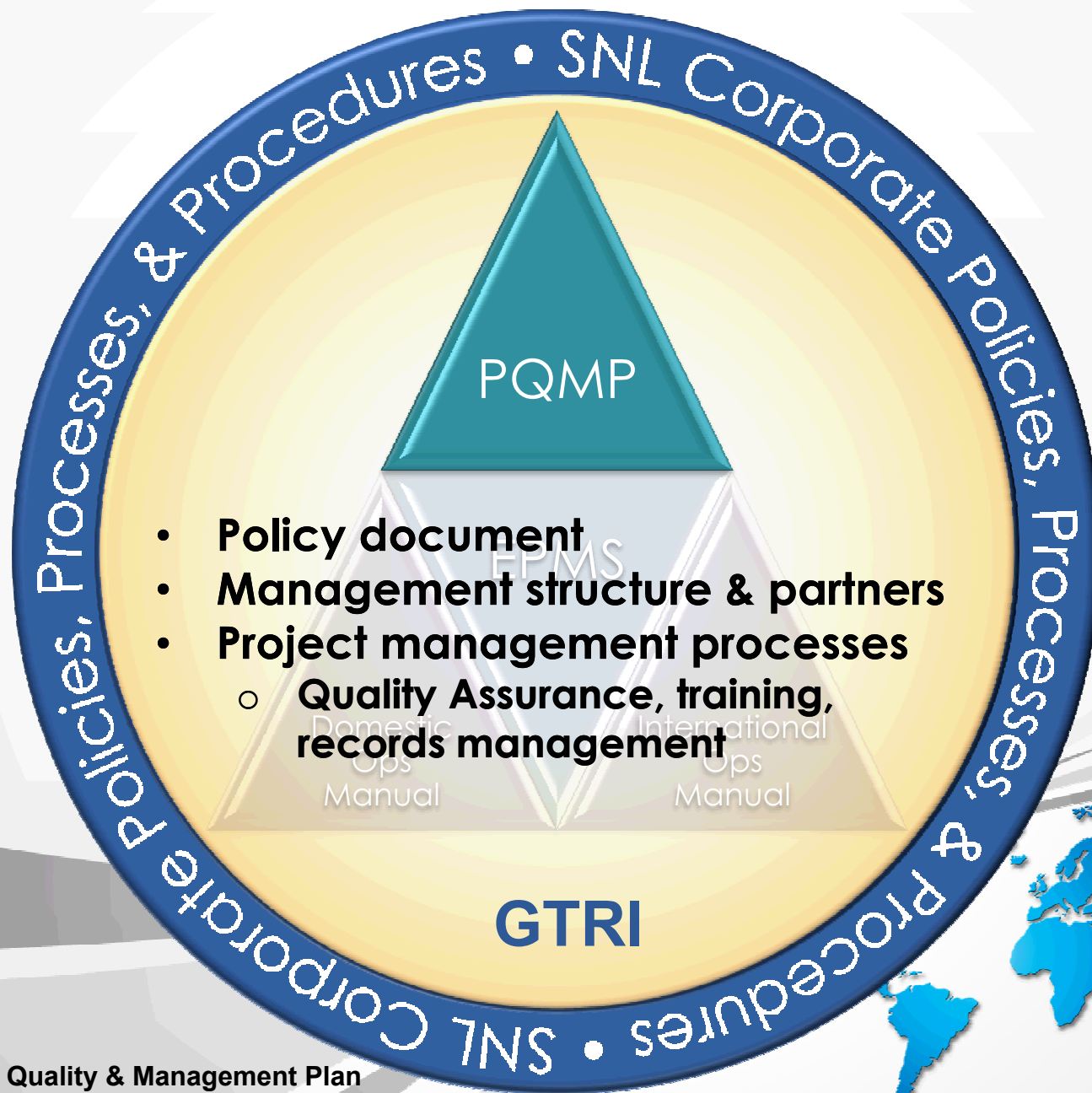
Contact Administrator February 16, 2012

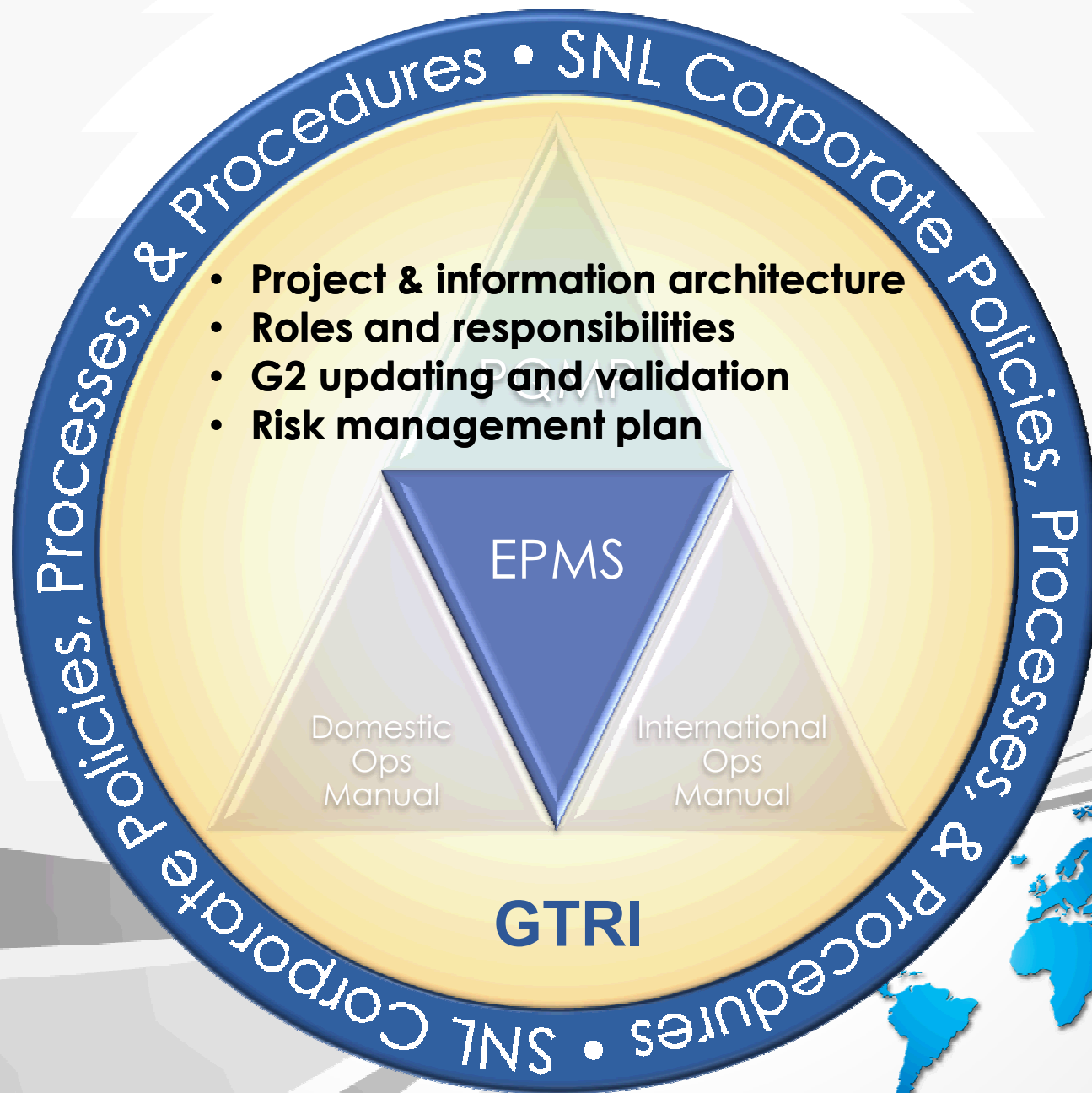
GLOBAL THREAT REDUCTION INITIATIVE



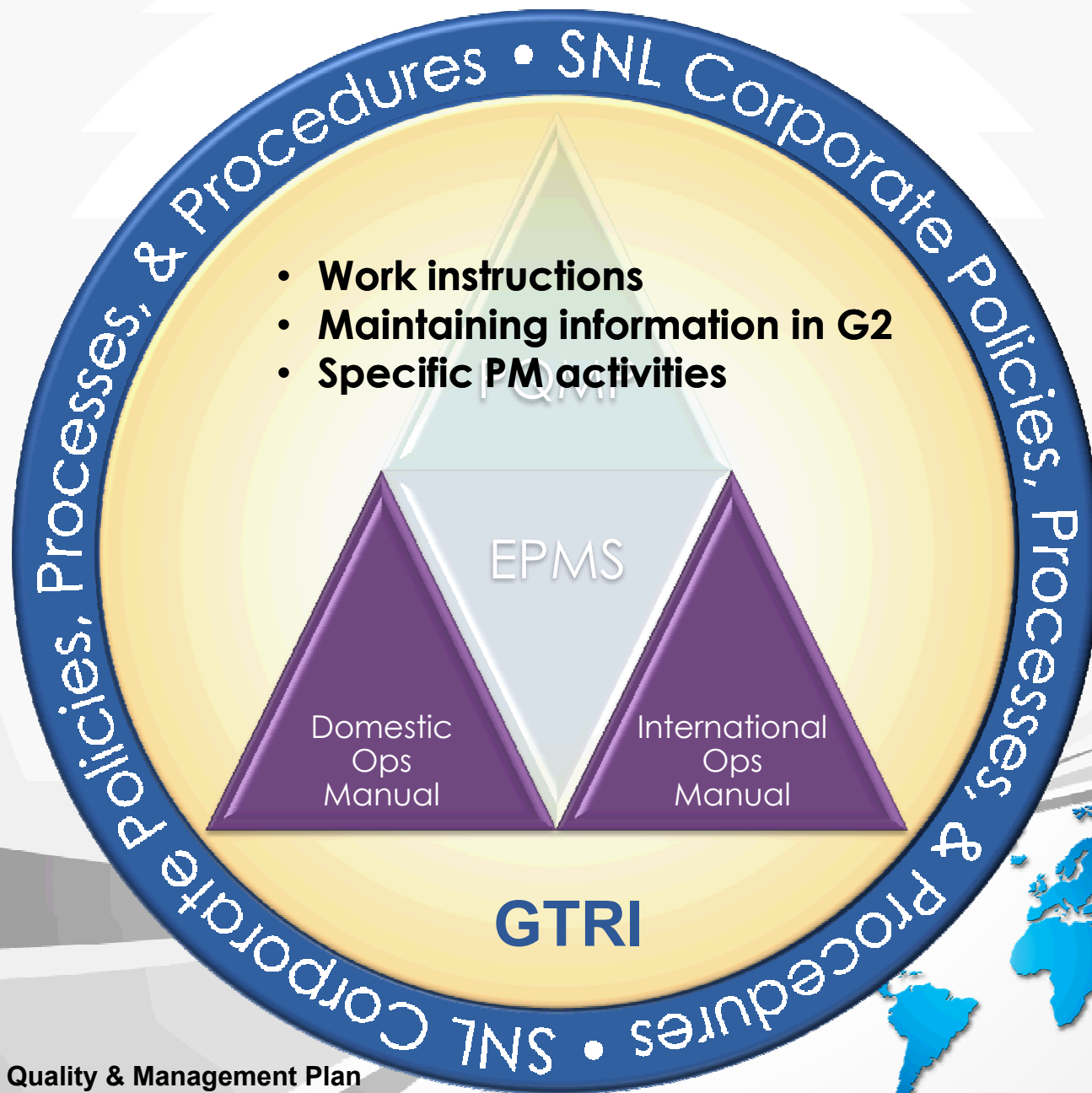
PQMP--Program Quality & Management Plan
EPMS--Enterprise Project Management System







GLOBAL THREAT REDUCTION INITIATIVE



PQMP--Program Quality & Management Plan
EPMS--Enterprise Project Management System

Next Up

- Project Management Improvement Project
- Process improvement through Lean Six Sigma
- Case studies



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