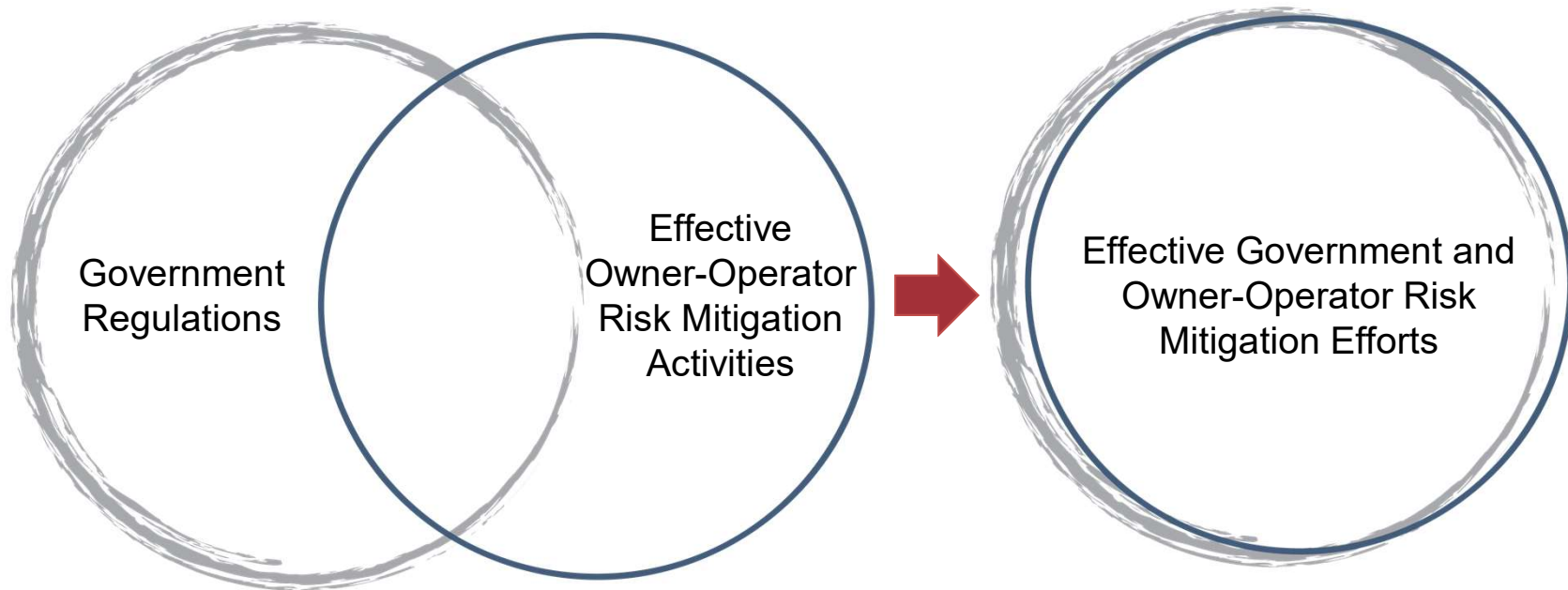
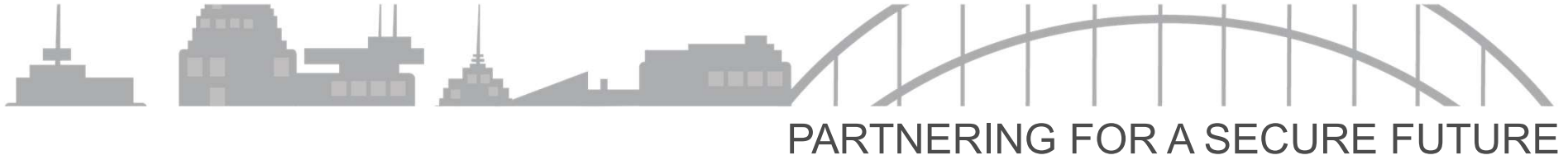


# The Oil and Natural Gas Supply Chain: Understanding to Manage Risk

September 17, 2023



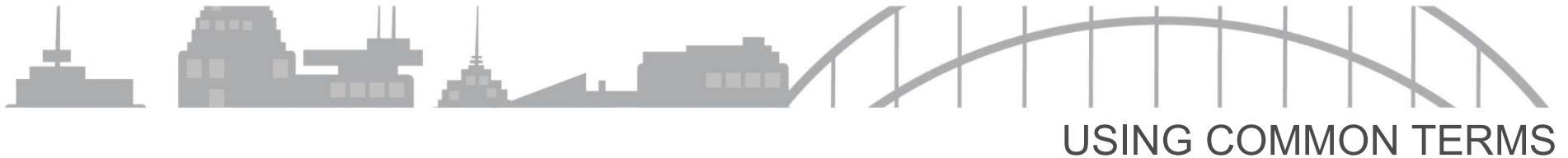
### Current State:

- There is a gap between Government and Owner-Operator knowledge.
- This gap prevents the most effective partnering for security efforts.

### Future State:

- Government and Owner-Operators align efforts to appropriately manage risks.
- Gap closure represents the most effective partnering for security efforts

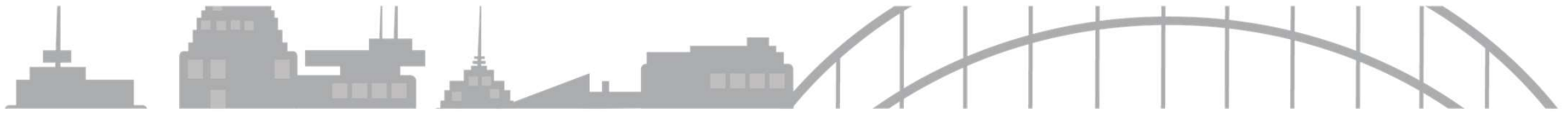
We share the same goal and priority: processes that support the security of our people, the surrounding communities, environment, and infrastructure.



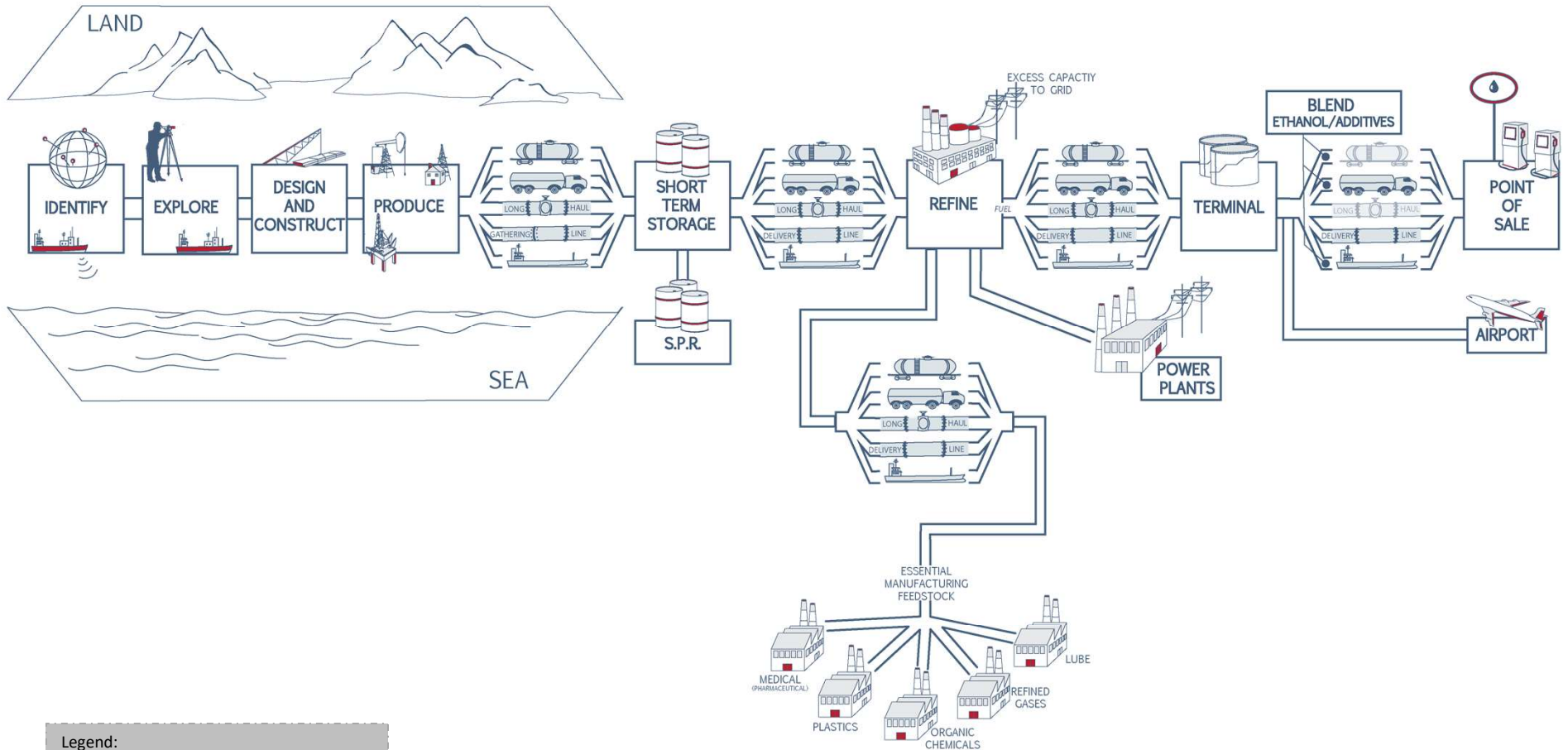
- **THREAT:** Natural\* or man-made occurrence, individual, entity, or action that has or indicates the potential to harm life, information, operations, the environment, and/or property
- **RISK:** Potential for an unwanted outcome resulting from an incident, event, or occurrence, as determined by its likelihood and the associated consequences
- **CHOKES POINT:** Facility, equipment, or location where disruption would cause a noticeable impact to the supply chain

\* For the purposes of this briefing, “threat” does not include natural occurrences.

*Source: United States Department of Homeland Security (DHS). Risk Steering Committee. DHS Risk Lexicon. Washington: September 2010.*



# CRITICAL ELEMENTS OF THE OIL SUPPLY CHAIN

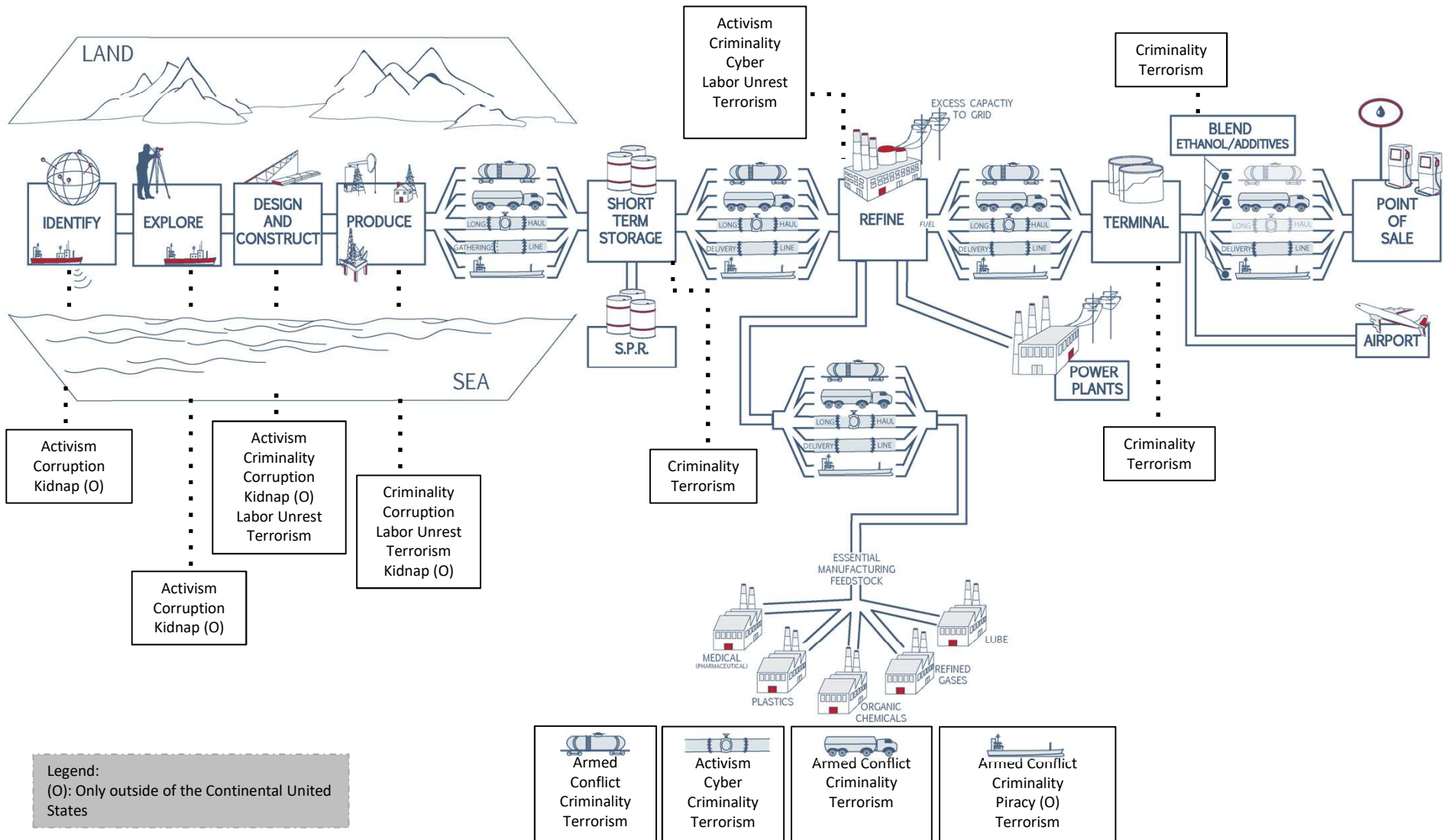


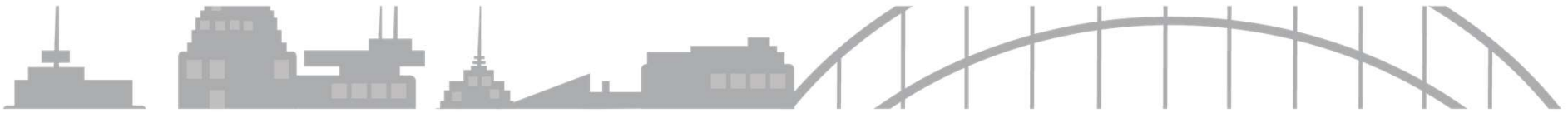
Legend:  
S.P.R.: Strategic Petroleum Reserve

RESOURCES: PEOPLE (HUMAN BEHAVIOR, SKILLED/TRAINED PERSONNEL) POWER (ELECTRICITY) WATER IT (TELECOM, CYBER, ACCESS CONTROL)

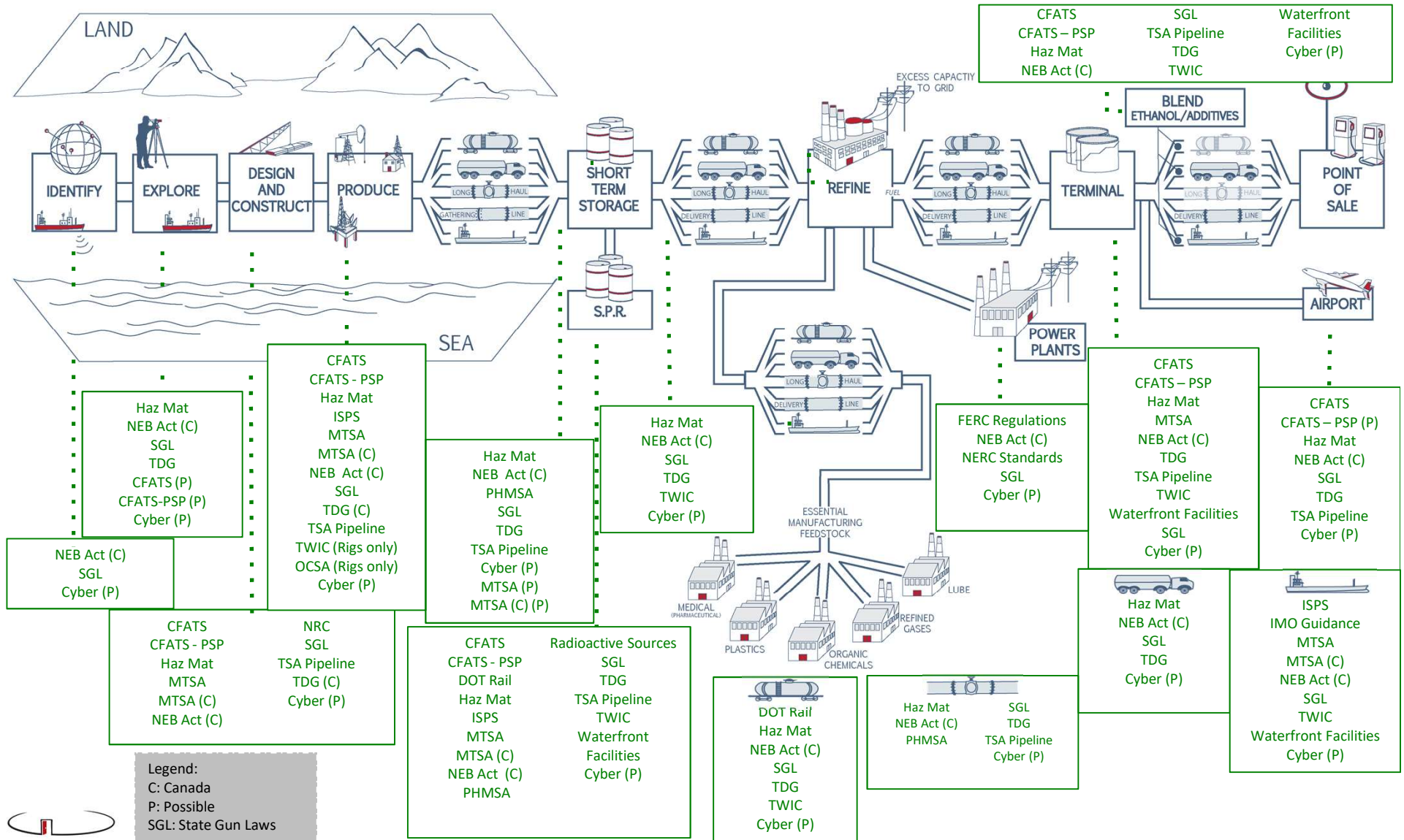


# UNDERSTANDING THE MAN-MADE THREAT



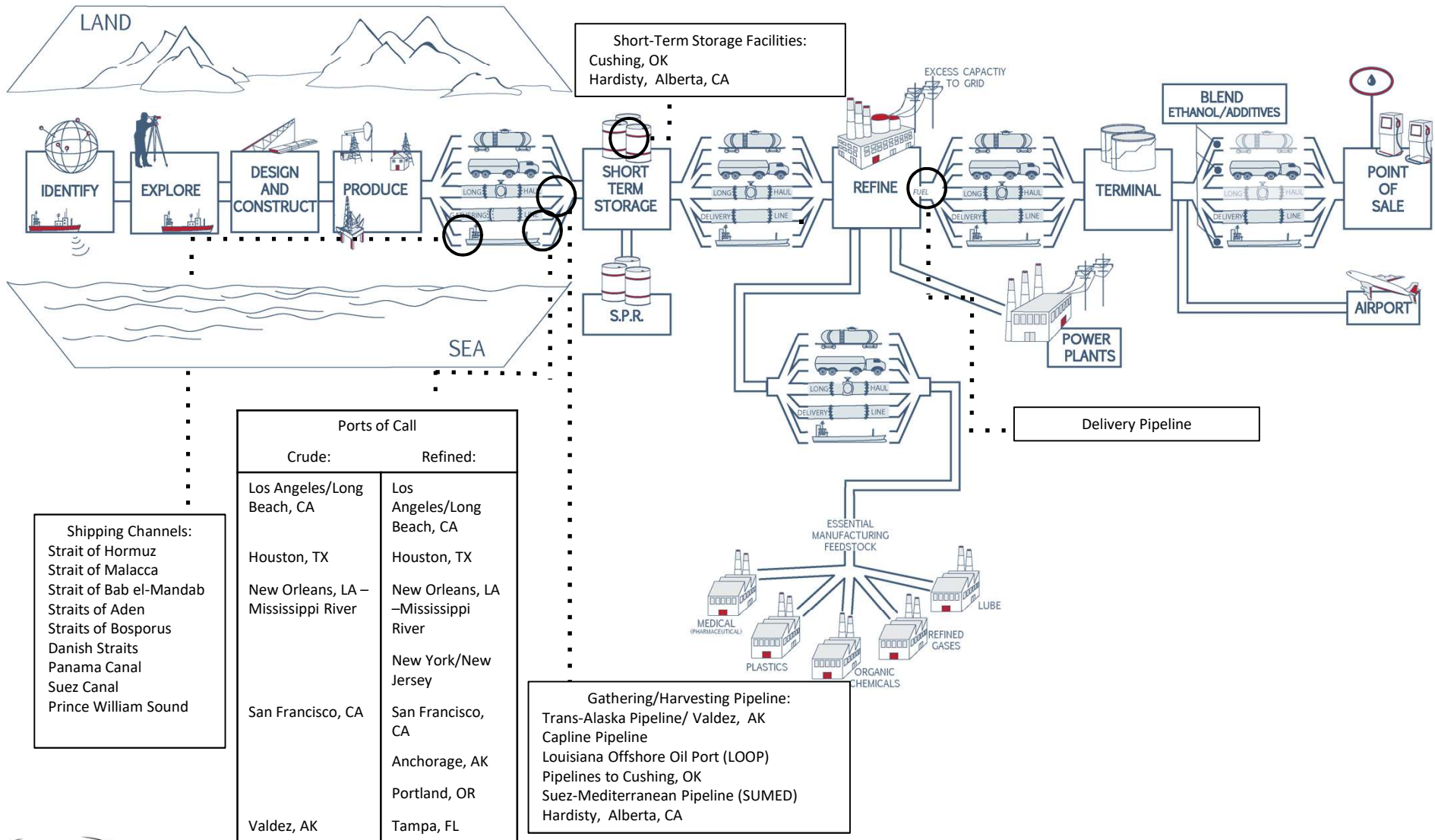


# REGULATIONS TOUCH EVERY POINT IN OIL SUPPLY CHAIN





# CHOKE POINTS: CONCENTRATED POINTS OF THREAT



Short-Term Storage Facilities:  
Cushing, OK  
Hardisty, Alberta, CA

IDENTIFY

EXPLORE

DESIGN AND CONSTRUCT

PRODUCE

SHORT TERM STORAGE

REFINE

TERMINAL

BLEND ETHANOL/ADDITIVES

POINT OF SALE

S.P.R.

POWER PLANTS

AIRPORT

Delivery Pipeline

ESSENTIAL MANUFACTURING FEEDSTOCK

MEDICAL (PHARMACEUTICAL)

PLASTICS

ORGANIC CHEMICALS

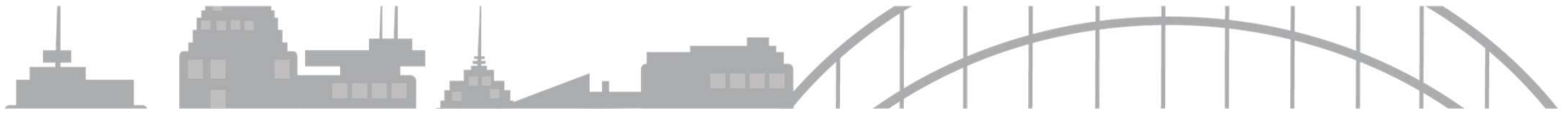
REFINED GASES

LUBE

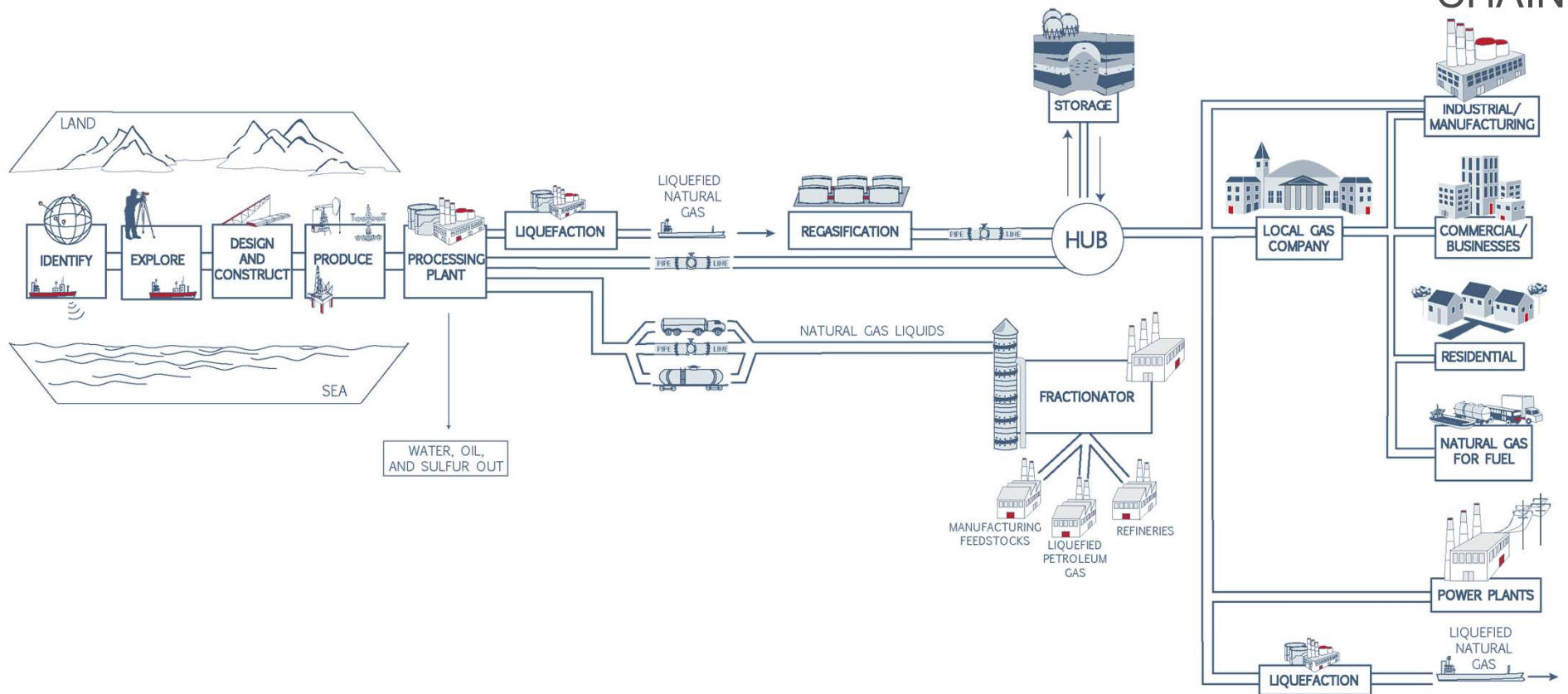
Ports of Call	
Crude:	Refined:
Los Angeles/Long Beach, CA	Los Angeles/Long Beach, CA
Houston, TX	Houston, TX
New Orleans, LA – Mississippi River	New Orleans, LA – Mississippi River
San Francisco, CA	New York/New Jersey
	San Francisco, CA
	Anchorage, AK
	Portland, OR
Valdez, AK	Tampa, FL

Shipping Channels:  
Strait of Hormuz  
Strait of Malacca  
Strait of Bab el-Mandab  
Straits of Aden  
Straits of Bosphorus  
Danish Straits  
Panama Canal  
Suez Canal  
Prince William Sound

Gathering/Harvesting Pipeline:  
Trans-Alaska Pipeline/ Valdez, AK  
Capline Pipeline  
Louisiana Offshore Oil Port (LOOP)  
Pipelines to Cushing, OK  
Suez-Mediterranean Pipeline (SUMED)  
Hardisty, Alberta, CA



# CRITICAL ELEMENTS OF THE NATURAL GAS SUPPLY CHAIN

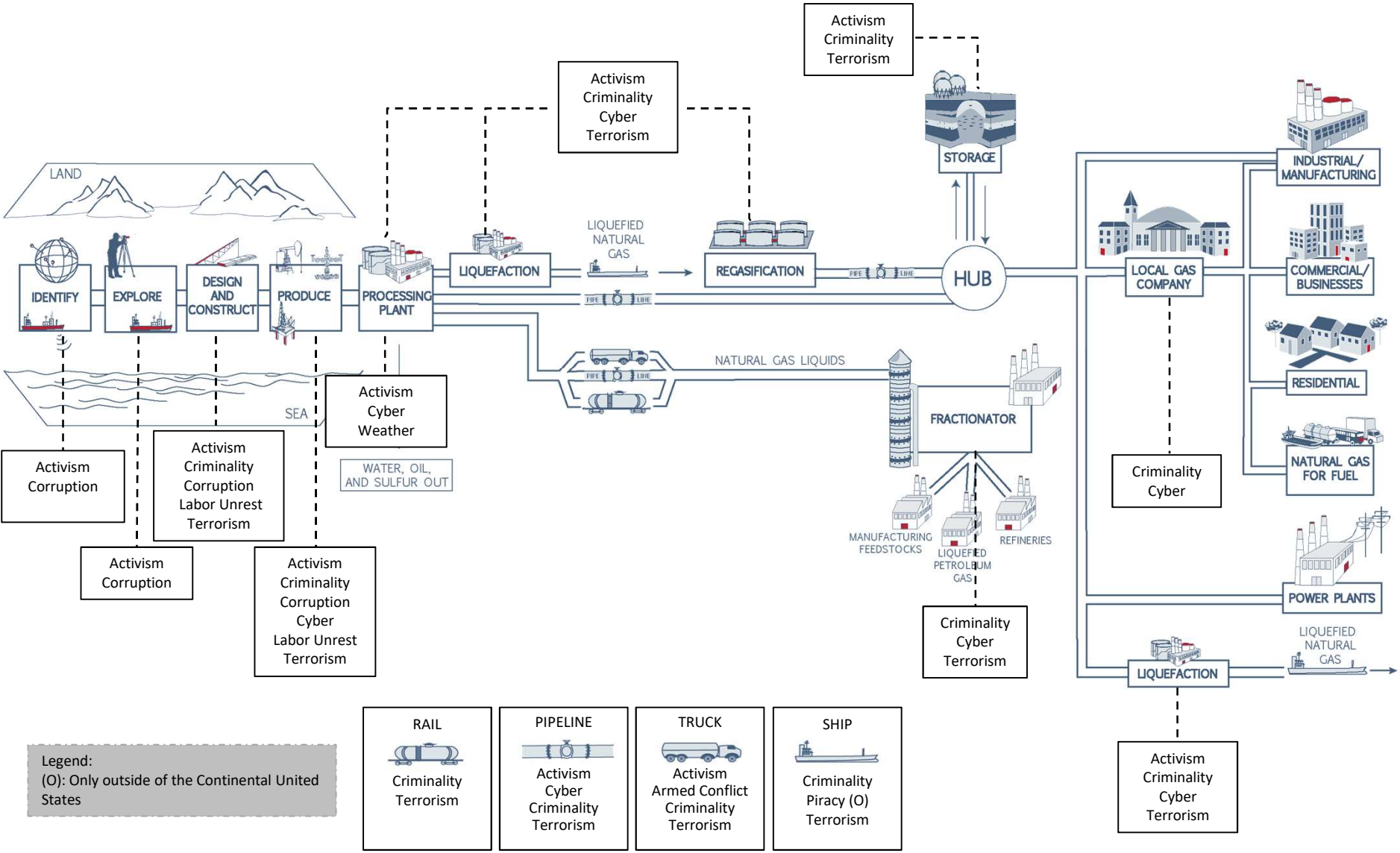


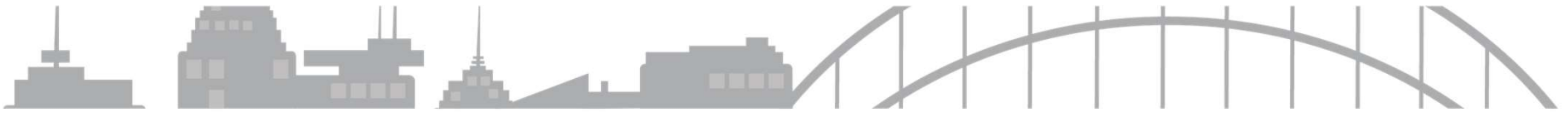
RESOURCES: PEOPLE (HUMAN BEHAVIOR, SKILLED/TRAINED PERSONNEL) POWER (ELECTRICITY) WATER IT (TELECOM, CYBER, ACCESS CONTROL)



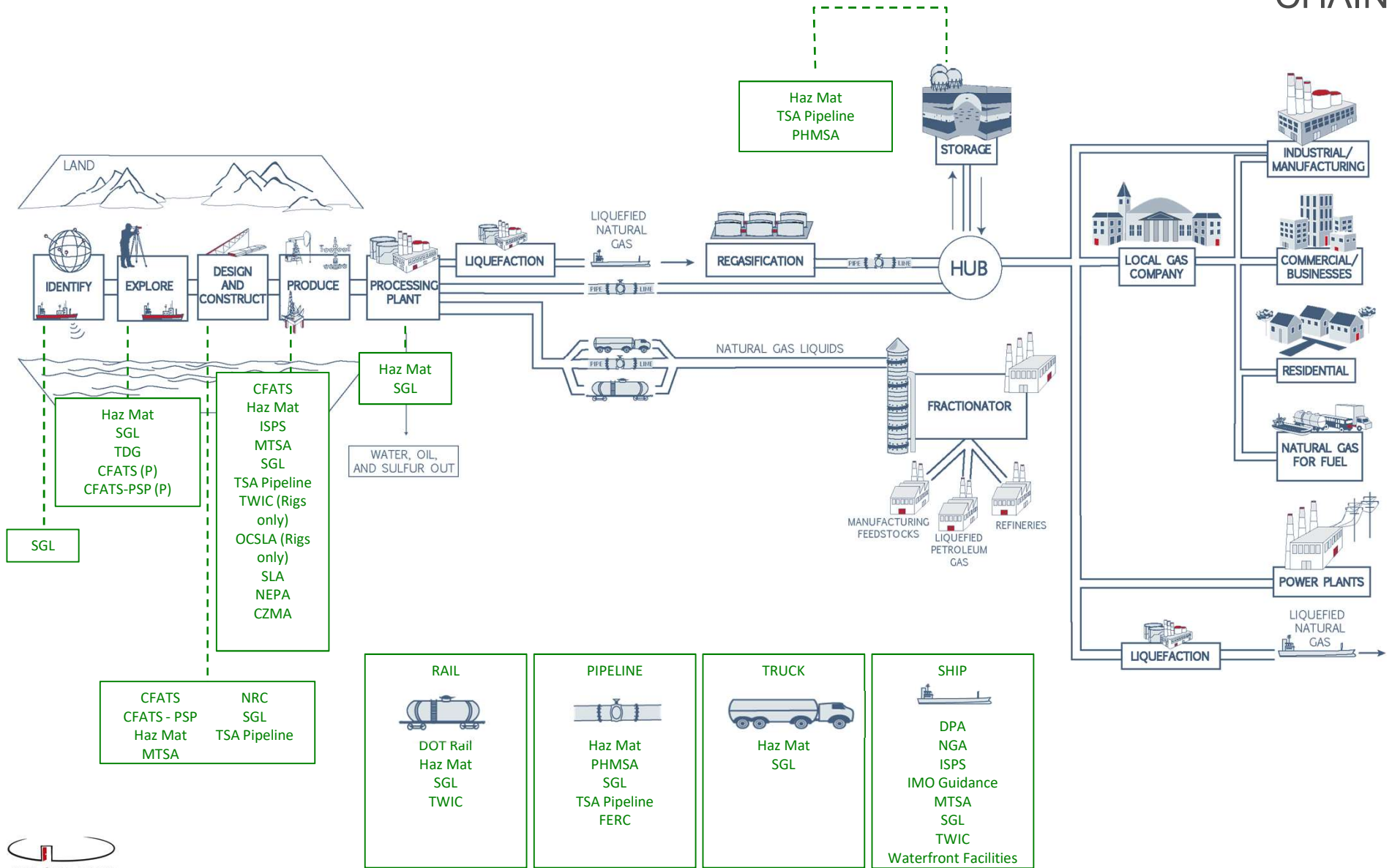


# UNDERSTANDING THE DOMESTIC MAN-MADE THREAT

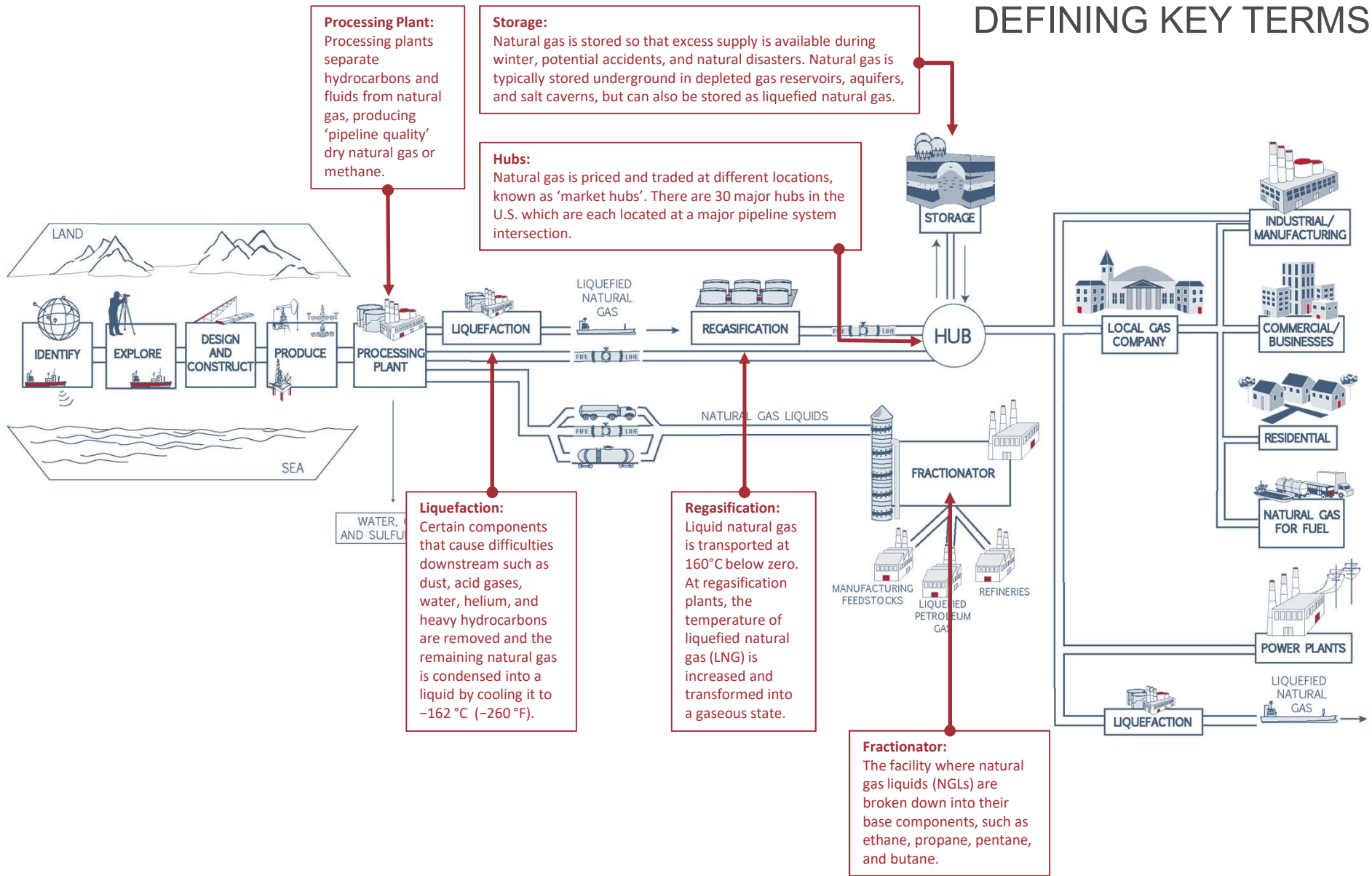




# REGULATIONS TOUCH EVERY POINT OF THE NATURAL GAS SUPPLY CHAIN

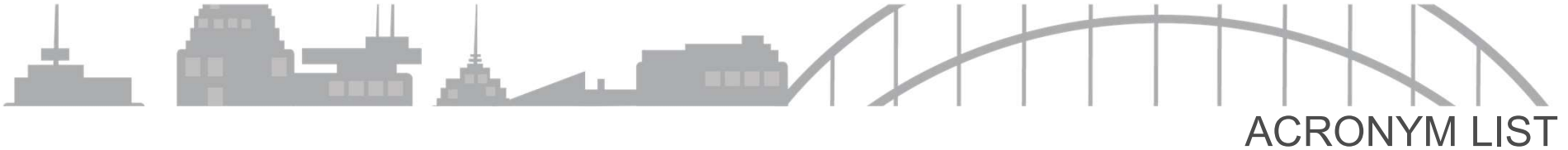


# DEFINING KEY TERMS



# Thank You

Robin Rorick  
rorickr@api.org



## ACRONYM LIST

CFATS: Chemical Facility Anti-Terrorism Standards

CFATS – PSP: Chemical Facility Anti-Terrorism Standards - Personnel Surety Program

DOT Rail: Department of Transportation Rail

FERC Regulations: Federal Energy Regulatory Commission Regulations

Haz Mat: Hazardous Material

IMO Guidance: International Maritime Organization Guidance

ISPS: International Ship and Port Facility Security

MTSA: Maritime Transportation Security Act

NEB Act (C): National Energy Board Act (Canada)

NERC Standards: North American Electric Reliability Corporation Standards

NRC: Nuclear Regulatory Commission

OCSA (Rigs only): Outer Continental Shelf Act (Rigs only)

PHMSA: US Department of Transportation Pipeline and Hazardous Materials Safety Administration

SGL: State Game Lands

SOLAS: Safety of Life at Sea

TDG: Transportation of Dangerous Goods

TSA Pipeline: Transportation Security Administration Pipeline

TWIC: Transportation Worker Identification Credential

TWIC (Rigs only): Transportation Worker Identification Credential (Rigs only)