



Australian Government

Australian Safeguards and Non-Proliferation Office



Australian Government

Department of Foreign Affairs and Trade

REGULATING THE TRANSPORT OF URANIUM ORE CONCENTRATE IN AUSTRALIA



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FEDERAL NUCLEAR REGULATORY FRAMEWORK IN AUSTRALIA

NPT

Comprehensive Safeguards Agreement
Additional Protocol to the Comprehensive Safeguards Agreement

CPPNM

Amended Convention on the Physical Protection of Nuclear Materials

ASNO

Nuclear Non-Proliferation (Safeguards) Act 1987

- SECURITY
- SAFEGUARDS
- NUCLEAR COOPERATION AGREEMENTS



ARPANSA

Australian Radiation Protection and Nuclear Safety Act 1988

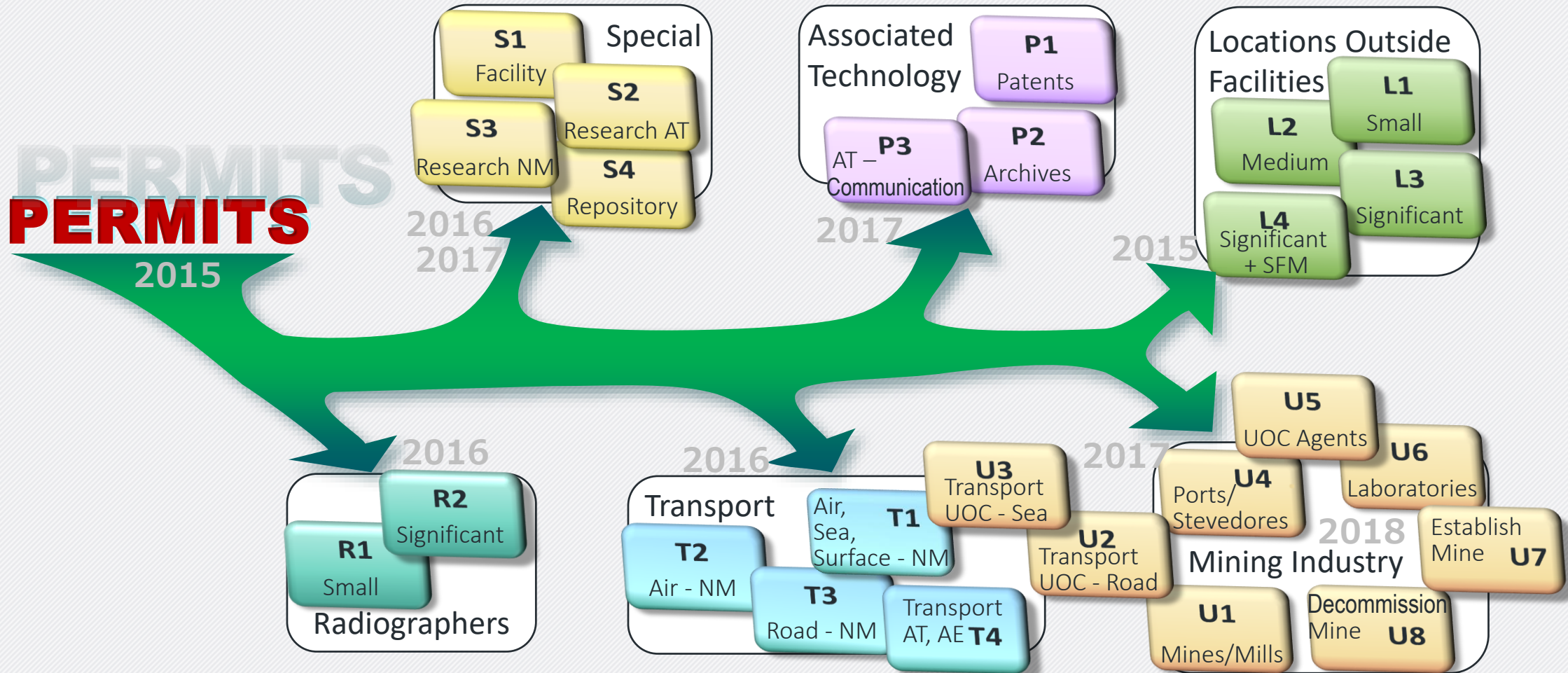
Dept. of Industry, Innovation & Science

Customs (Prohibited Exports) Regulations 1958

Department of Infrastructure and Regional Development

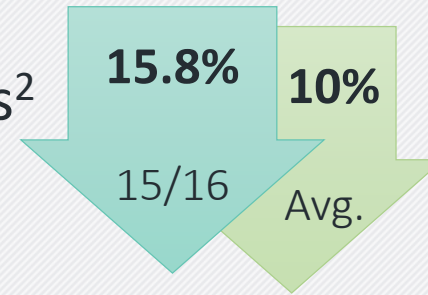
Australian States' and Territories' Regulatory Controls

REGULATORY REVIEW



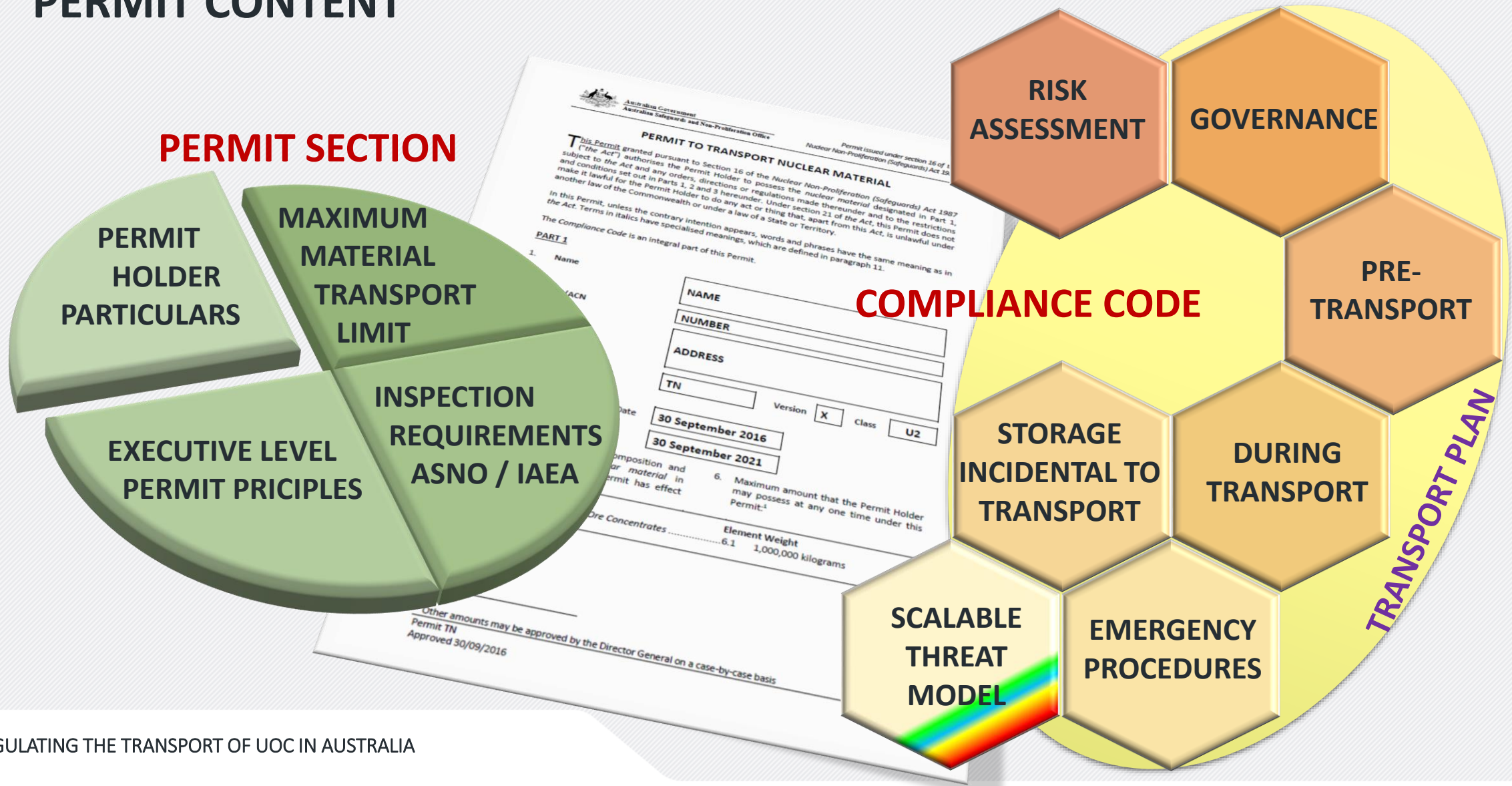
PERMIT REVIEW – TRANSPORT OF UOC

Australian UOC exports for 2016-2017 ≈ 7 081 tonnes²



- Reduce the regulatory burden on the industry
 - *Exploit other existing regulatory requirements*
- Provide clear outcome objectives by applying industry performance terminology
- Include a broader consultative stakeholder participation
 - *Mines – Consignor, generally produces transport plans for consignments*
 - *State and Territory Government requirements for transport of Class7 material*
 - *Carriers – Providing performance “tick and flick” based objectives*
 - *International best practice*
- Meet Australian public’s expectation for the nuclear industry

PERMIT CONTENT



REGULATORY REVIEW

ASNO Permits required for transport of UOC¹

- Permits brought in line with new Permit model
 - *Permit Section and Compliance Code section*
- Consultation with stakeholders
 - *Transport operators*
 - *Mines (generally provide transport plans)*
 - *State and Territory Government regulatory bodies*
- Review drew on IAEA material
 - *Nuclear Security in the Extraction Industry IAEA-TDL-003*



PERMIT FUNCTIONAL FORMAT



Route

Pre –
Transport

- Container / Seal Inspection
- Transport Briefing
- Communications Operational Test

During
Transport

- Convoy Communication
- Predetermined stops
- Security and Situational Awareness

Interim
Storage

- Interim Security Arrangements
- Approved Secure Compounds
- Container storage to be door-to-door

Emergency
Response

- Restoring Communications
- Maintaining Security
- Training

Escalated
Threat

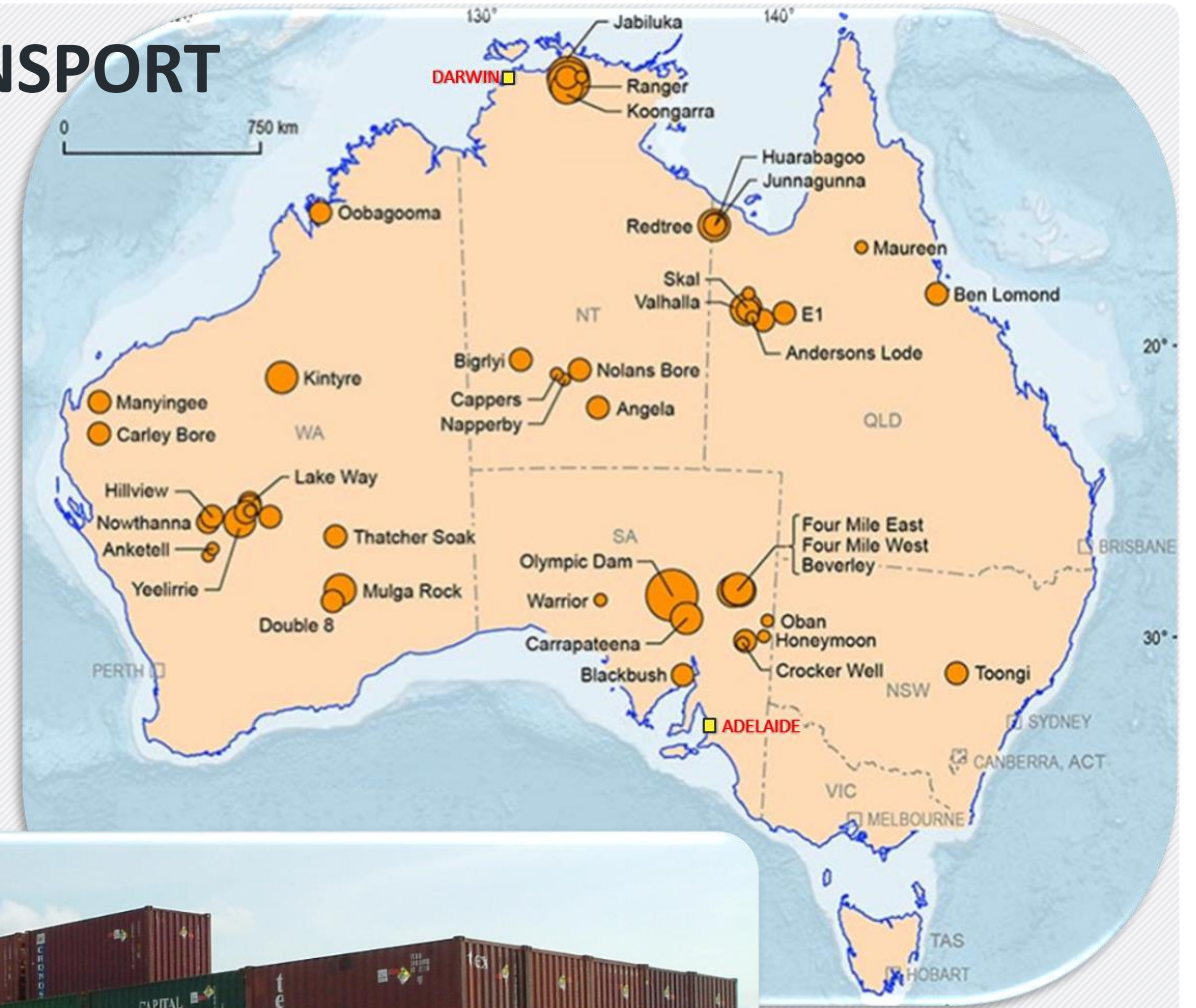
STORAGE INCIDENTAL TO UOC TRANSPORT

Australian Geographical limitations

- Transporting over long distances
- Unsealed roads in varying condition
- Limited road options
- Weather influences
- Limited communication options

Stationary for short periods (planned and unplanned stoppages)

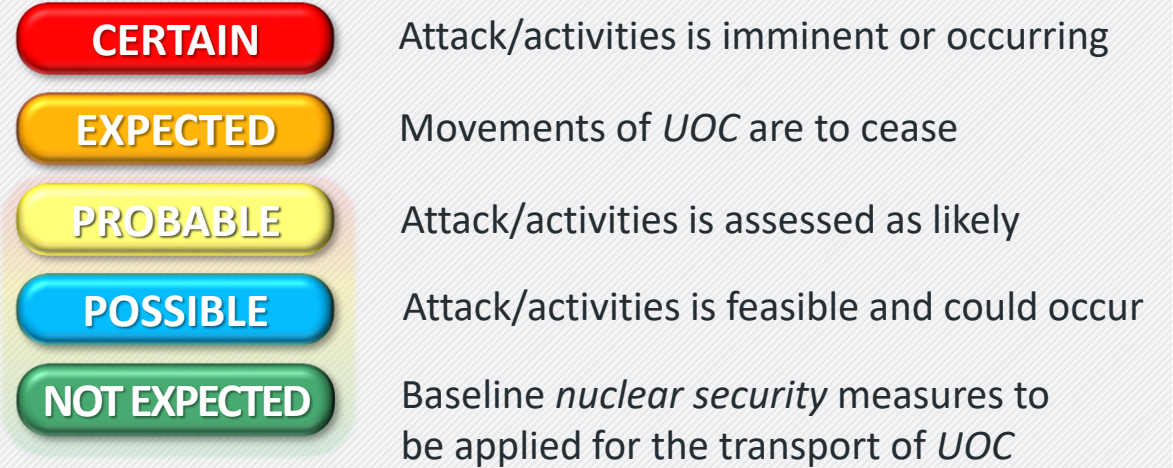
Secure Location storage requirements for periods beyond 72 hours



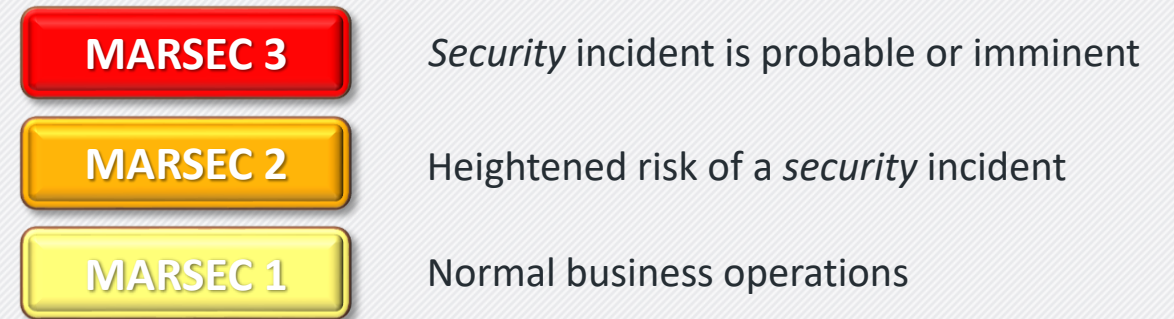
SCALABLE THREAT MODEL FOR THE TRANSPORT OF UOC

ASNO utilizes a threat scale based on the Australian National Terrorism Threat Advisory System³

Mining Industry →



Australian Maritime Transport and Offshore Facilities Security Act 2003 in keeping with ISPS⁴ requires the application of maritime security levels



³www.nationalsecurity.gov.au

⁴International Ship and Port Facility Security Code 2003

SOUTH AUSTRALIAN UOC TRANSPORT WORKING GROUP

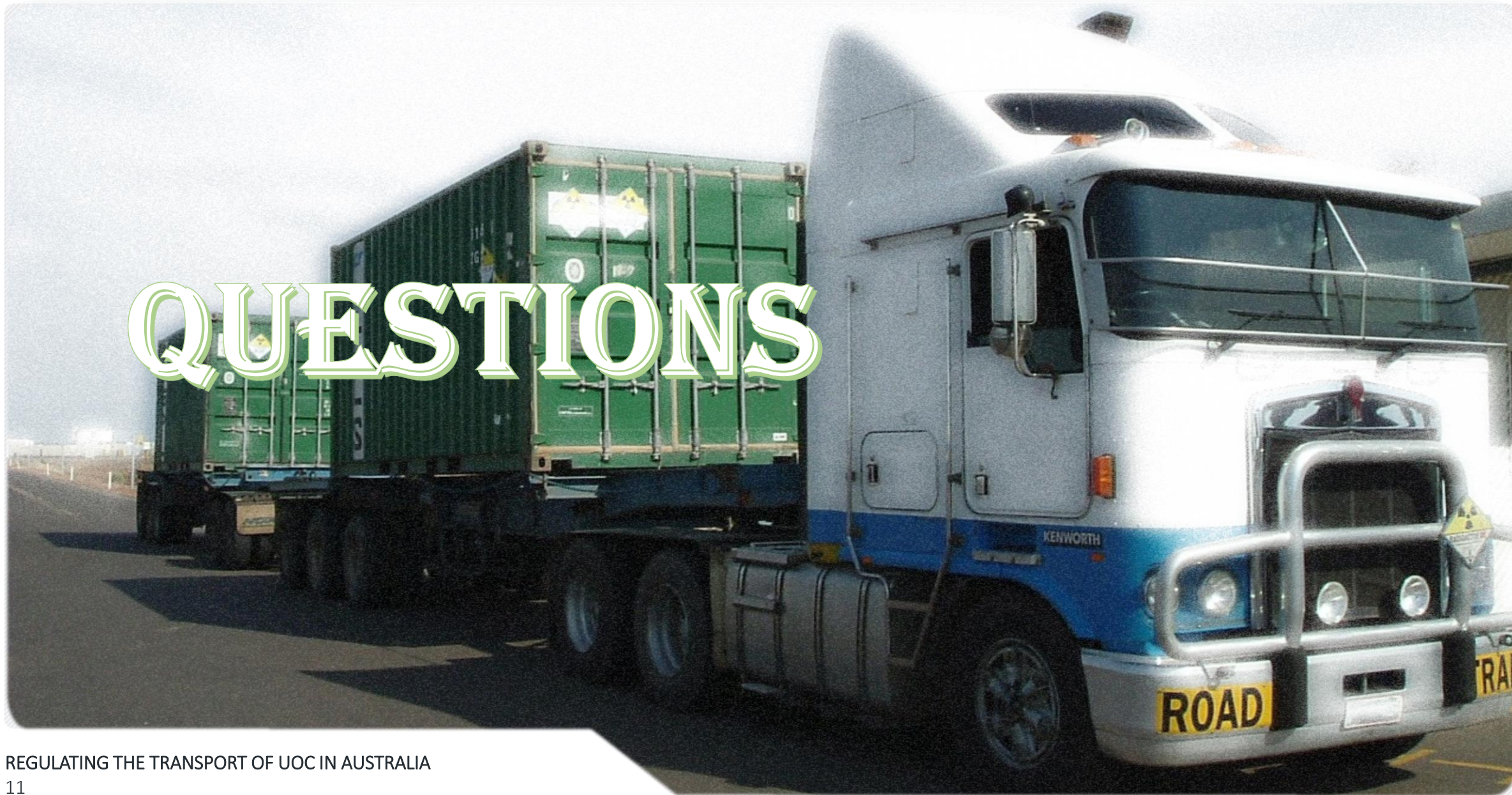
The majority of UOC exports are currently shipped through the Port of Adelaide in the State of South Australia

South Australian **UOC Transport Working Group** consisting of Federal and State Government, Industry and First-Responder representatives

Recent action items include:

- *Best practice guidance for a model Transport Plan;*
- *determining standards and obligations for incident responses,*
 - *abilities of the broader industry to contribute to a timely response due to extensive distances of transports;*
- *Industry expertise contributing towards establishing specific training for first responders.*

QUESTIONS





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