

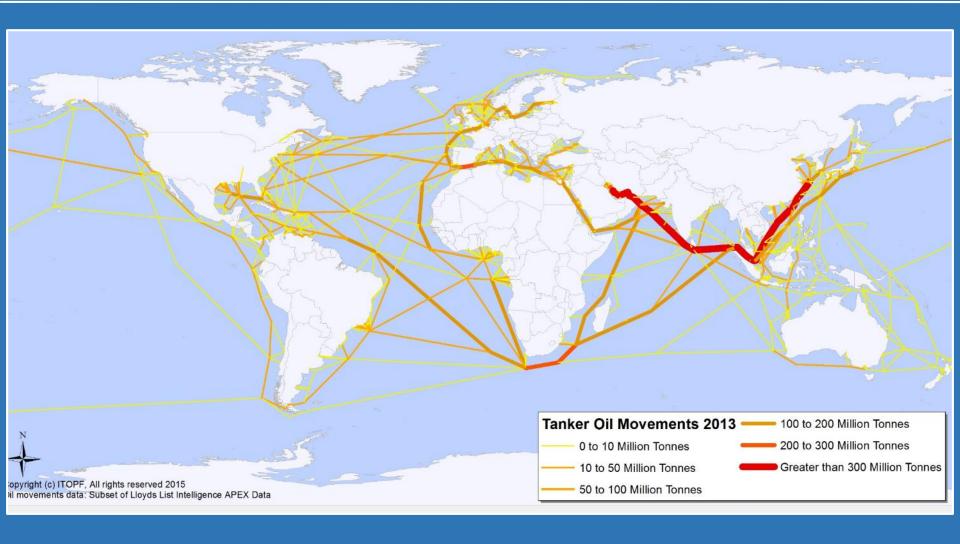




FUTURE RESPONSE ISSUES IN BRAZIL

Dr Mark Whittington Technical Team Manager

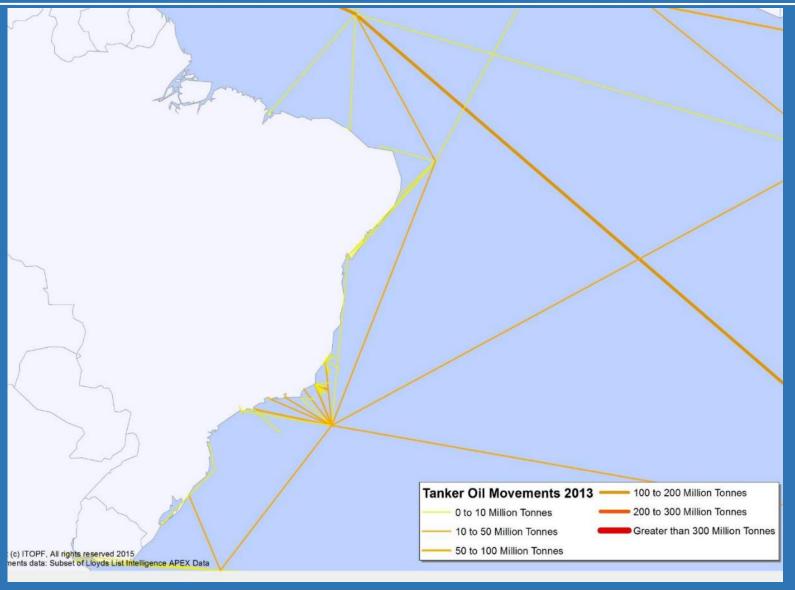




Tanker Oil Movements 2013

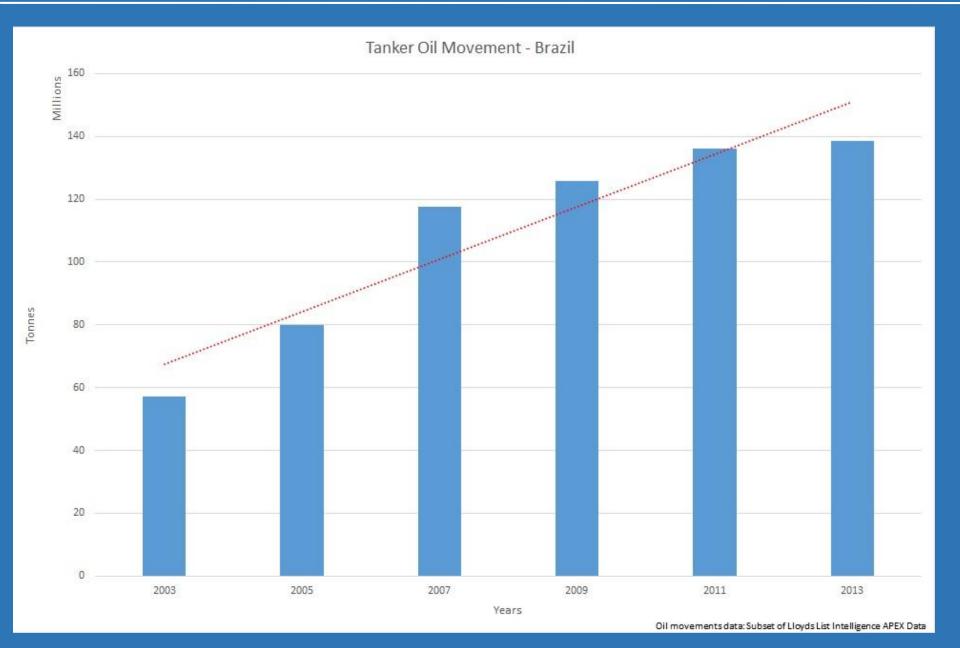
Tanker voyages reflect worldwide trade between producers and major consumers



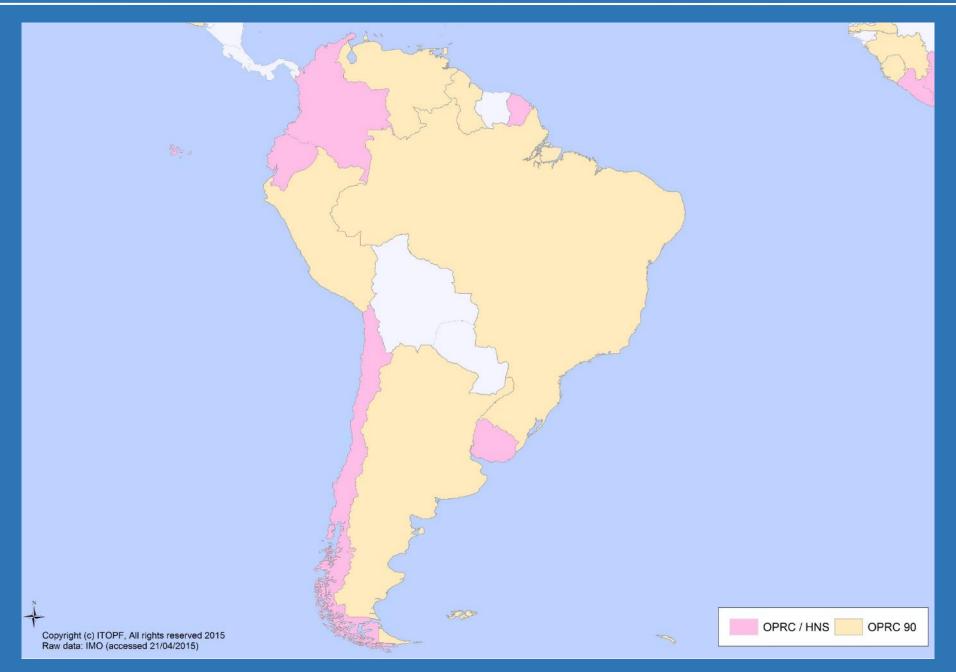


Significant tanker movements in Brazilian waters





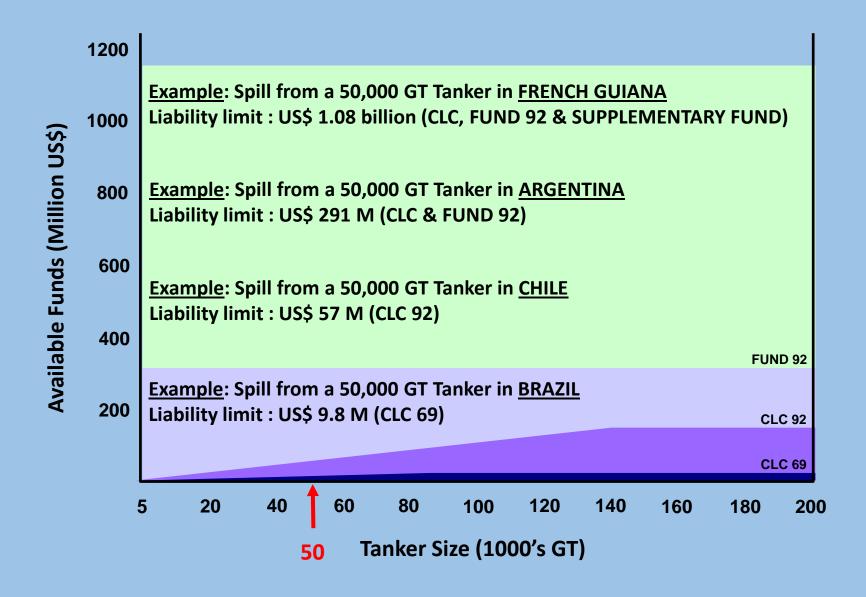














# **National Oil Spill Contingency Plan**

**Enacted in October 2013** 

- General response provisions
- Organisational structure and responsibilities
- Co-operative framework to reduce response times

NCP Manual – technical document for response. Due?

# **Local Contingency Plans**

Rio de Janeiro, Belem, Manuas, Corumba, Rio Grande, Natal, Parmaiba, Paranagua, Sao Luis, Itajai, Vitoria, Fortaleza, Aracaju, Santos, Recife, Maceio, Salvador and Joao Pessoa are all defined as Class I ports by the Directorate and as such should possess local contingency plans.

## **Industry Contingency Plans**

Oil industry has plans for selected facilities both onshore and offshore.



- Lead Federal Agency: IBAMA
- Pollution response typically led by the environment departments of the 17 coastal states or PETROBRAS:

Rio De Janeiro - FEEMA Sao Paulo – CETESB Recife – CODEMA Fortaleza – COMDEMA Belo Horizonte - CETEC Cuiba - CONDEMA Sao Luiz - SERNAT Florianopolis – FATMA
Brasilia – SEMA
Goiania – SEMAGO
Natal – CMA
Campo Grande – INAMB
Joao Pessoa – SUDEMA
Vitoria - DAASSEES

Curibata - SUREHMA
Porto Alegre - DMA
Bahia - INEMA
Salvador - CEPRAM
Maceio - CMA/SERPLAN
Amazonas - CODEAMA

- Federal & State Government Departments
- Port Captains
- Oil & Shipping Industry Companies
- Oil Spill Response Companies



#### **Current scenario:**

- Rapid expansion of oil and gas sector
- Developing and diversifying shipping sector
- Coastline length: 7,491 km
- Recently enacted NCP
- Multiple government and industry parties involved with oil spill response
- Varying levels of response experience and training



"Brazil has an extensive coastline, a wide variety of potential sources of maritime pollution and a developing response capability. In the event of a major oil spill, the challenges are numerous and complex."







#### INTERNATIONAL CONVENTION ON OIL POLLUTION PREPAREDNESS, RESPONSE AND CO-OPERATION, 1990

"In the event of an oil pollution incident, **prompt** and **effective** action is essential in order to minimise the damage which may result from such an incident"









REGULATORY PRE-APPROVAL IS NEEDED TO ENSURE PROMPT AND EFFECTIVE ACTION



# **Incident Management System (IMS)**

Complex response environment requires clear and consistent management system

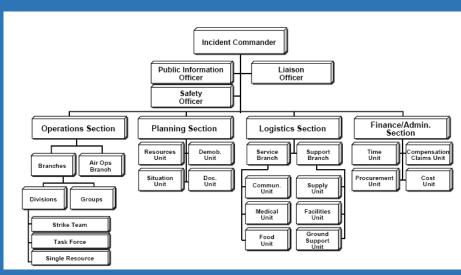
Oil Industry – I.C.S. Is this right for Brazil?

#### IMS must be:

- ✓ Clear and straightforward
- ✓ Defined roles and responsibilities
- ✓ Flexible
- ✓ Consistent

#### IMS requires:

- ✓ Trained and experienced personnel
- ✓ Regular drills and exercises
- ✓ Feedback into contingency planning





# **Shoreline Clean-Up**

Brazil has not yet had a large-scale shoreline response

- Sorbent Use example of inappropriate shoreline response technique
- Skilled Labour shortage in many parts of the country
- Drills/Exercises shoreline response not currently include in exercises









# "The success of a response will largely be determined by the ability and willingness of all parties involved to work together"

- Key roles for government, industry and the wider response community
- Stakeholder engagement important

#### ITOPF – Preparedness & Contingency Planning

Impartial advice

Wide range of experience:

- Regional Gulf of Thailand, Caribbean, Mediterranean
- National UK, Singapore, Cyprus, New Zealand
- Industry Oil and Shipping Companies Worldwide, including Brazil
- Exercises & Drills



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Muito Obrigado