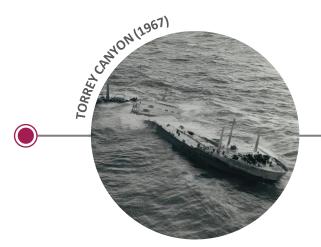




# **Promoting Effective Spill Response** ITOPF **Funded by Global Shipping Industry**

## ITOPF BACKGROUND



1970-1980



1990-2000



5 Years 1968 - 2018



1968: The International Tanker
Owners Pollution Federation is
founded to administer the TOVALOP

services through attendance of numerous large tanker incidents

ITOPF's services formally extended to **other types of ships** 

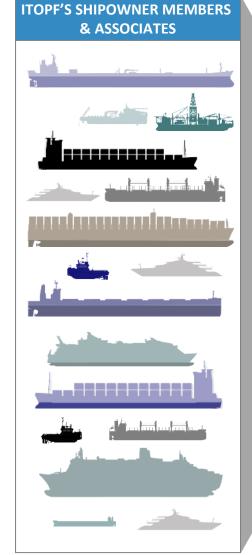
#### Main Function

Today ITOPF's members and associates represent **90% of all ocean going tonnage** 

Technical advice on effective response to spills of oil, chemicals and other substances in the marine environment.

Primarily funded by the **global shipping industry** (annual fee), operating on a **non-for profit** basis.

## ITOPF BACKGROUND









## ITOPF 2023 BOARD BOARD

- Chairman: Erik Hånell (Stena Bulk AB)
- Bahri, Saudi Arabia
- BW Maritime Pte Ltd, Singapore
- BP Shipping Ltd, UK
- Chevron Shipping Company LLC, USA
- China Shipping Tanker Co. Ltd., China
- Eneos Ocean Ltd, Japan
- Euronav NV, Belgium
- ExxonMobil SeaRiver Maritime Inc., USA
- F Laeisz Schiffahrtsgesellschaft GmbH, Germany
- Gard/Skuld P&I, Norway
- International Seaways Inc., USA
- Japan Ship Owners Mutual P&I Assoc., Japan
- Keystone Shipping Corp., USA
- Maersk Tankers AS, Denmark
- NYK Line, Japan
- Petrobras Transporte SA Transpetro, Brazil
- Seven Islands Shipping, India
- Shell International Trading & Shipping Co Ltd, UK
- Steamship Insurance Management Services, UK
- Stolt Tankers B.V., Netherlands
- Teekay Shipping , Canada
- Tsakos Energy Navigation, Greece
- West of England / Chairman (IGP&I PSC)





## ITOPF BACKGROUND





Multi-skilled
Biologists, Chemists,
Environmental
Scientists, Geologists,
Engineers







+44 (0)20 7566 6998

(Please do not email for an emergency situation)





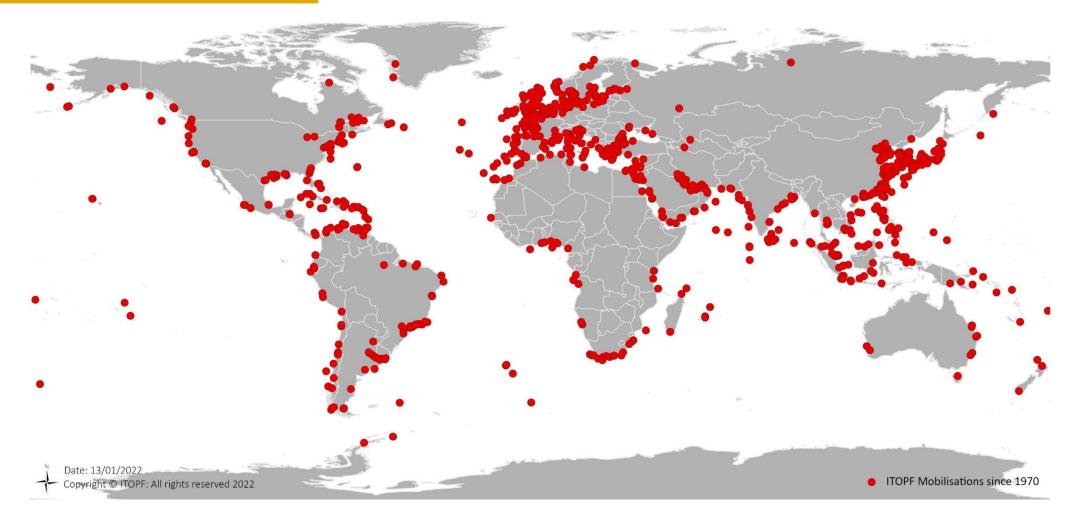


Attended Spills 1970 - 2022

>830 incidents

in 100 countries

Avg.
20
spills/yr



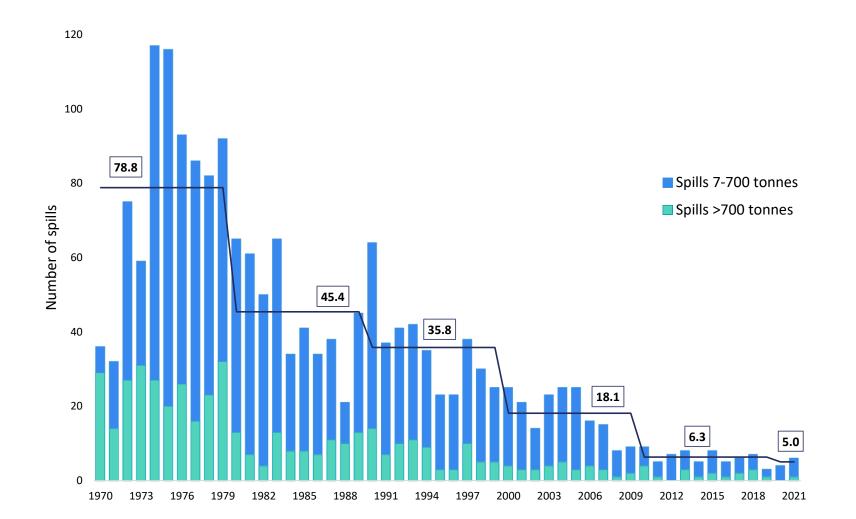


#### **ITOPF'S AIM:**





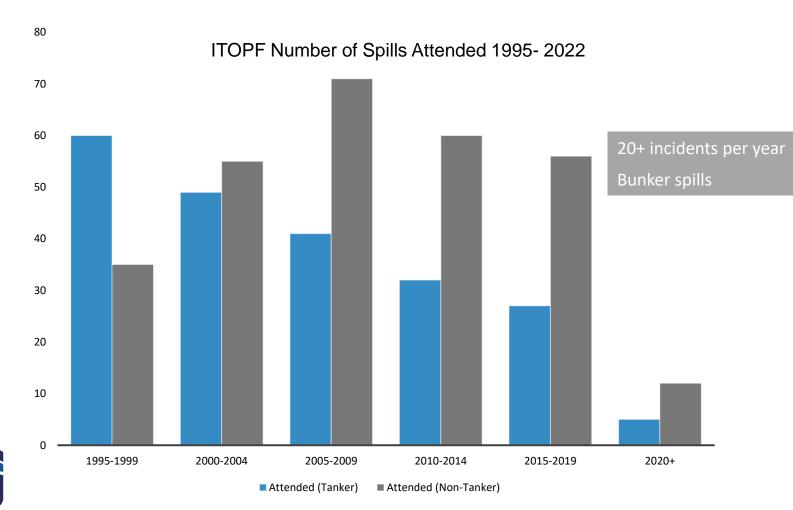
#### **Number of Tanker Spills**



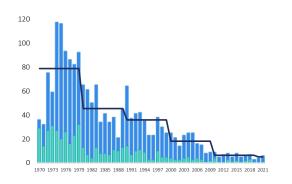




#### No. of Attended Spills 1995 - 2022



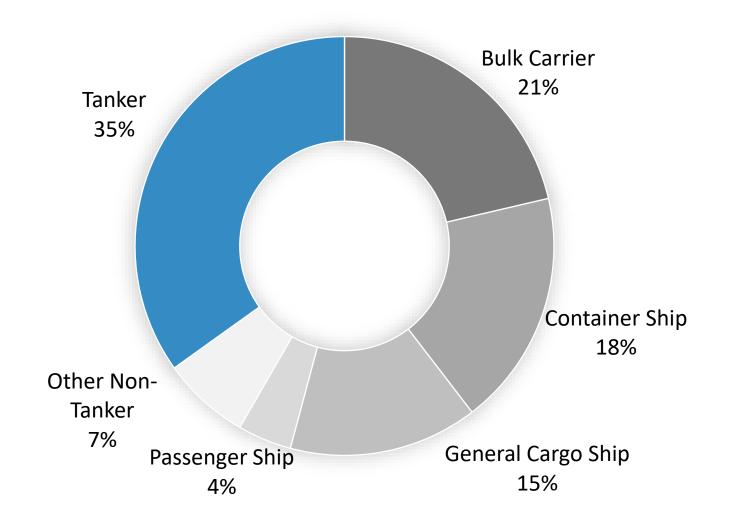




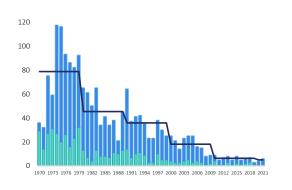


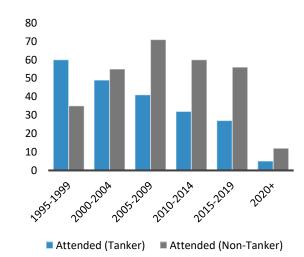


#### Attended Spills 2010 - 2022









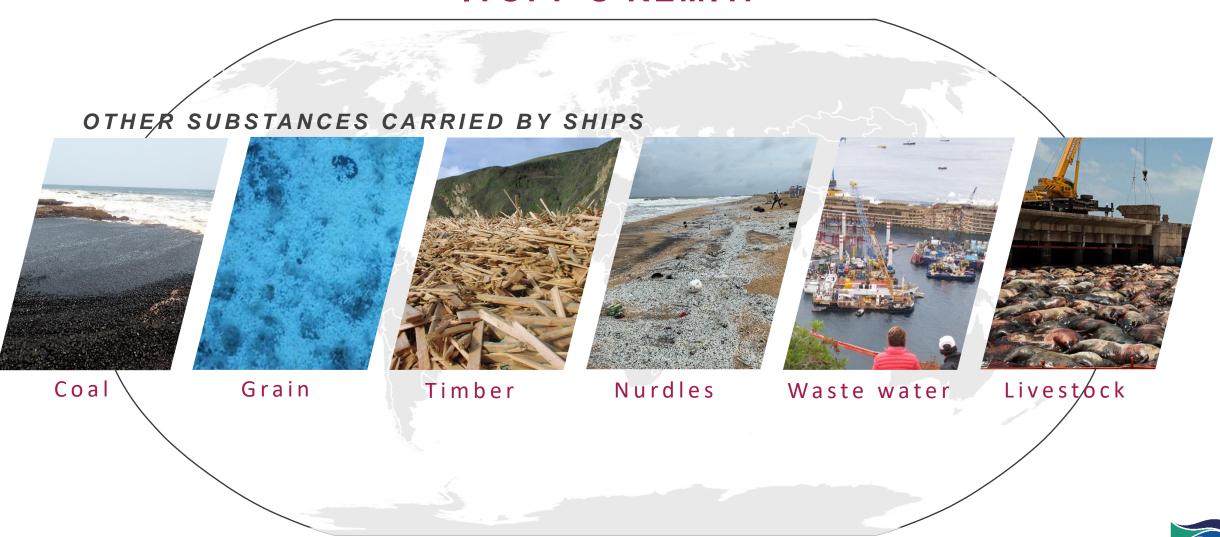


#### **ITOPF'S REMIT:**





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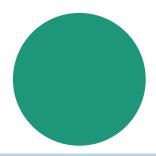




#### **ITOPF Steamship P&I Attended Spills**













#### The COVID-19 years – Remote Advice











The COVID-19 years – Attended spills













#### The COVID-19 years – Attended spills



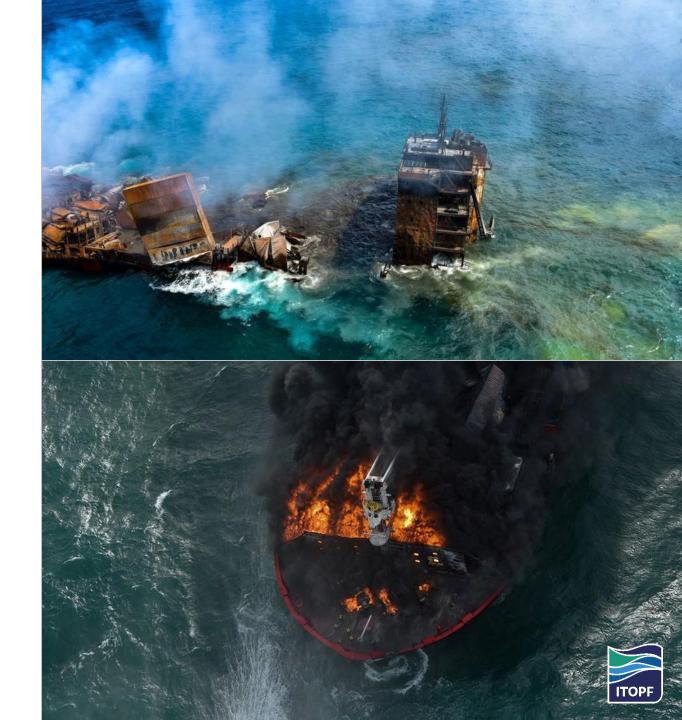








OILS ROB: 255 M<sup>3</sup> VLSFO & 50 M<sup>3</sup> MGO





OILS ROB: 255 M<sup>3</sup> VLSFO & 50 M<sup>3</sup> MGO



DG

Non-DG

Nitric acid

Machinery

Sodium hydroxide

Household goods

Methanol

Food

Nurdles







## KEY FOCUS

**Shoreline Clean-up** 

- Mitigating pollution damage
- Recommending techniques





















## SPILL RESPONSE

#### **ITOPF's Initial Actions**



Typically via the vessel's P&I insurers, but can be through correspondents, surveyors, OSROs or national authorities.

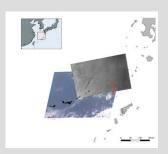


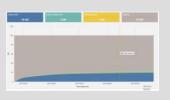
#### **Evaluation**

Preliminary assessment of likely extent of the pollution, its probable behaviour, fate, potential impact and local level of preparedness

**Mobilisation** 











#### RESPONSE POLICY

Japanesia policy locuses on physical containment and recovery, enticipating that much of the spilled of will be recovered with skimmers and note and the remainder secovered or deported obleg observed and deported. The latter much be approved by JCD and their size is increasingly area as the resolution of the property of the pro

#### EQUIPMENT

Generalization stocks of equipment and materials at its local offices, consisting of specialized we boom, silienteers, recovery rate, dispersant and sochests, which are primarily intracted for response. MDCP has of recovery visesses stationed at 10 major of jours and maintains stockplar equipment and materials through a network of 30 commercial clean-up contractors around the coand islands.

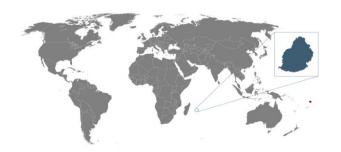
Finals by law, facilities receiving oil and tamkers using Japanese ports or entering certain sea areas mantatal stocks of equipment and materials for combating spits. Moch of this capability is supplituding to the common of the common of

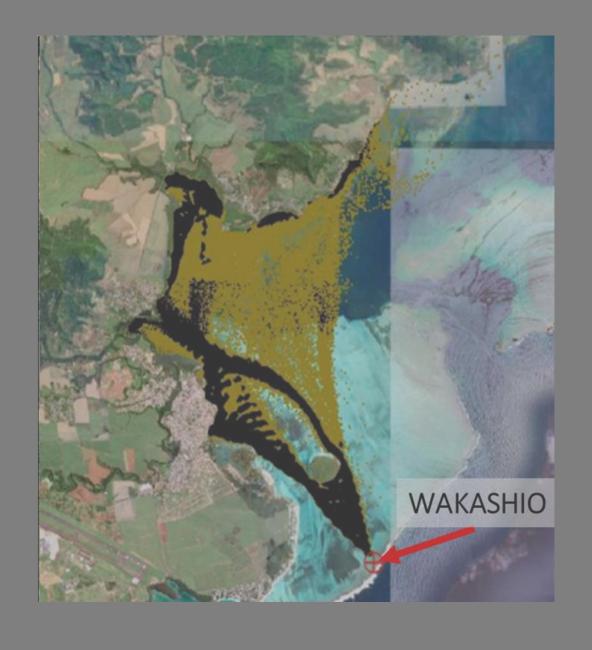


## REMOTE SENSING AND MODELLING

### **WAKASHIO**

25 JULY 2020



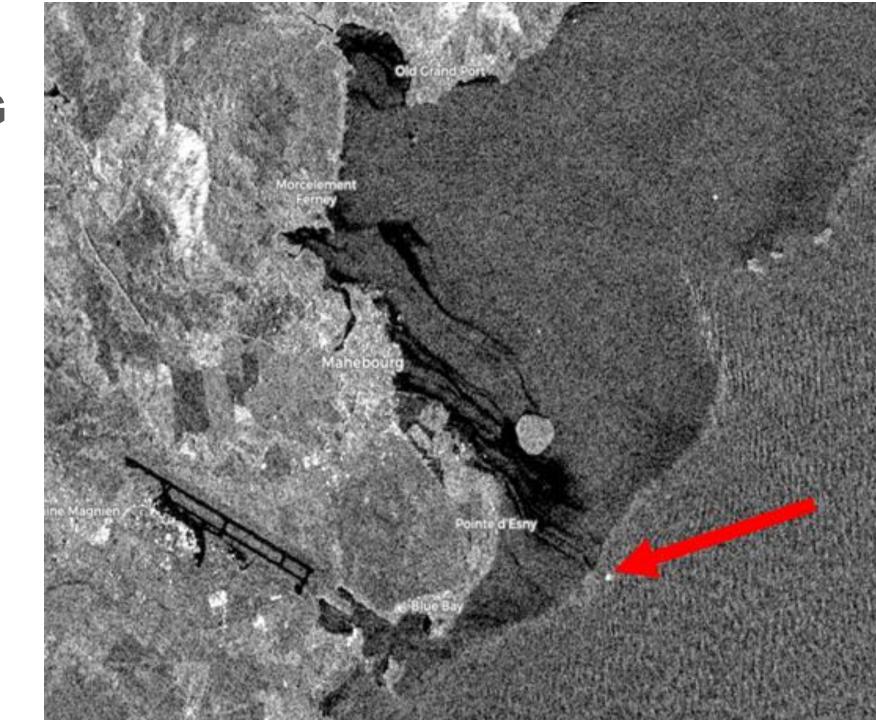


## REMOTE SENSING AND MODELLING

### WAKASHIO

25 JULY 2020







## ROL E ON-SITE

**SPILL RESPONSE** 





- Briefing from correspondent and/or surveyor
- Meet with lead authority and/or spill responders
- Conduct initial survey of affected area (ideally jointly)



## ROL E ON-SITE

#### **SPILL RESPONSE**

- Provide impartial technical advice to government, responders & affected stakeholders
- Promote joint assessments & cooperation between all parties
- Monitor spill response & investigate damage to sensitive resources
- Arrange for additional expertise & equipment to be brought on site



ROLE VARIES DEPENDING ON THE INCIDENT AND LEVEL OF IN-COUNTRY PREPAREDNESS







## ON-SITE

#### **Aerial Surveillance**

Aerial surveillance offers **valuable information** critical to the early stages of a response:

- Confirmation of the source of pollution
- What is being spilled?
- Where is the pollutant heading?
- What sensitivities may be at risk?
- How is the pollutant interacting with the shoreline?
- Are the response measures employed effective?



## AT-SEA RESPONSE

#### **SPILL RESPONSE**

- Mitigating pollution damage
- Understanding limitations





## AT-SEA RESPONSE

#### **SPILL RESPONSE**

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### ROL E ON-SITE

#### **AT-SEA SPILL RESPONSE**

- Mitigating pollution damage
- Understanding limitations

### **WAKASHIO**

25 JULY 2020











### ROL E ON-SITE

#### AT-SEA SPILL RESPONSE

- Mitigating pollution damage
- Understanding limitations





### **WAKASHIO**

25 JULY 2020







## AT-SEA RESPONSE

#### **SPILL RESPONSE**

- Mitigating pollution damage
- Understanding limitations
- Time and place
- Pros and cons













#### **Shoreline Protection** Window of opportunity? Technical viability? Season? Equipment availability? Access? Safety? **Power Station** Port terminals Amenity beach Fish farms Nature reserve Marina ITOPF



#### SHORELINE RESPONSE

- Mitigating pollution damage
- Recommending techniques











### SHORELINE

- Mitigating pollution damage
- End Points
- How clean is clean





## SHORELINE RESPONSE

- Mitigating pollution damage
- End Points
- How clean is clean





#### ROL E ON-SITE

#### **Shoreline clean-up techniques**

- Mitigating pollution damage
- End Points
- How clean is clean





#### SHORELINE RESPONSE

- Mitigating pollution damage
- More harm than good







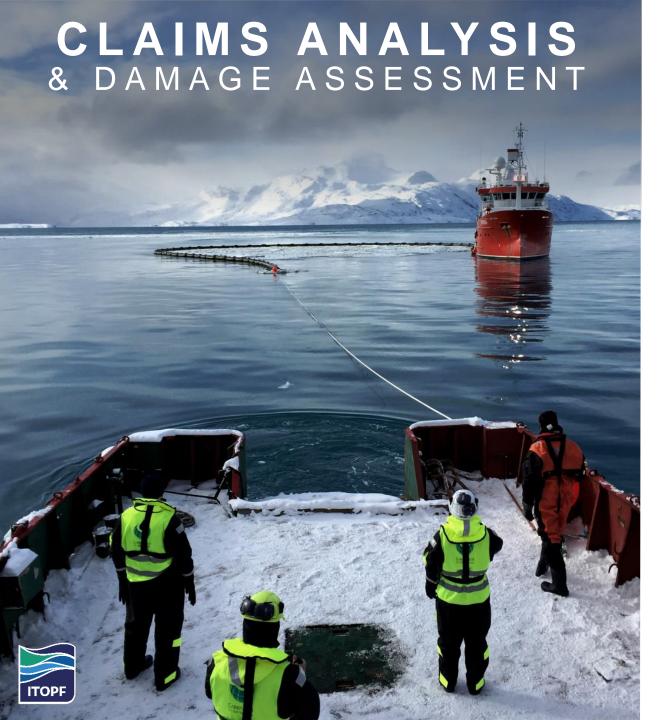




## CLAIMS ANALYSIS & DAMAGE ASSESSMENT

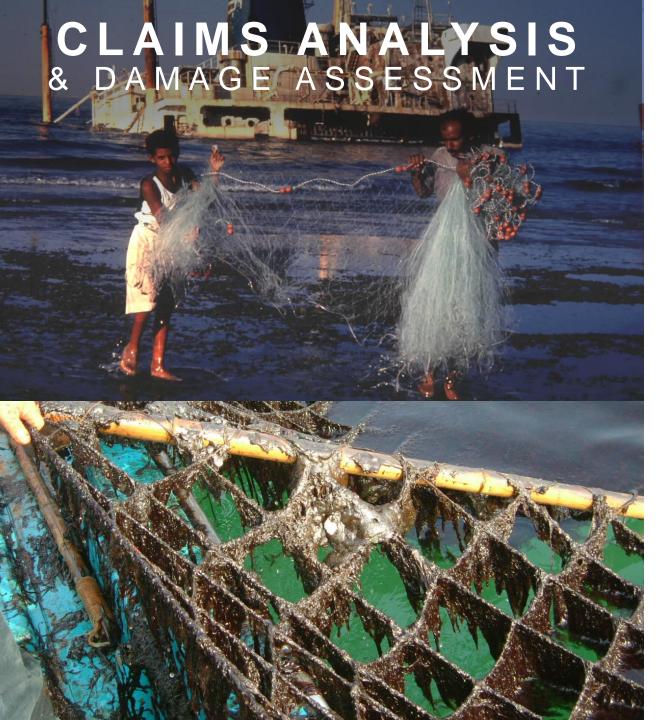
ITOPF is ideally placed to provide advice on the technical reasonableness of spill response costs, as well as damage caused by spills

- •Aim is to encourage a **cooperative approach** to facilitate the prompt and amicable settlement of claims.
- •Objective comments on technical merits of claims to all parties.
- •ITOPF's support is regularly requested on the **four claim types** covered by the **international compensation regime**:



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**Preventive measures** 



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**Preventive measures** 

**Property Damage** 

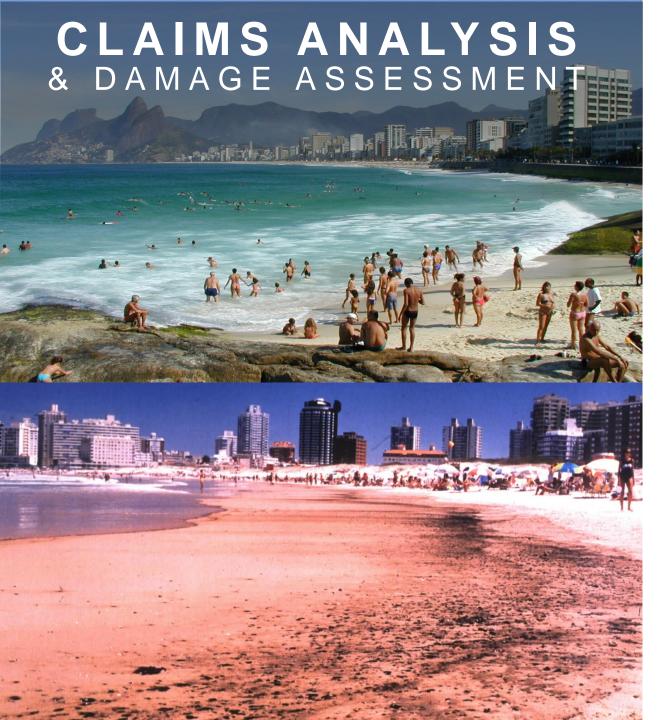


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**Preventive measures** 

**Economic loss** 

**Property Damage** 



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**Preventive measures** 

**Economic loss** 

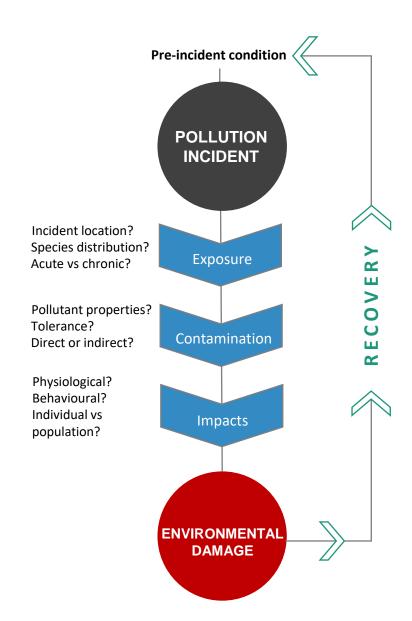
**Property Damage** 

**Environmental Damage** 





# ENVIRONMENTAL MONITORING





- Post spill studies help determine severity of impact and recovery.
- May include chemical sampling and/or biological sampling.
- Studies must be designed and scaled according to circumstances.
- Studies inform the need for restoration measures to accelerate recovery.









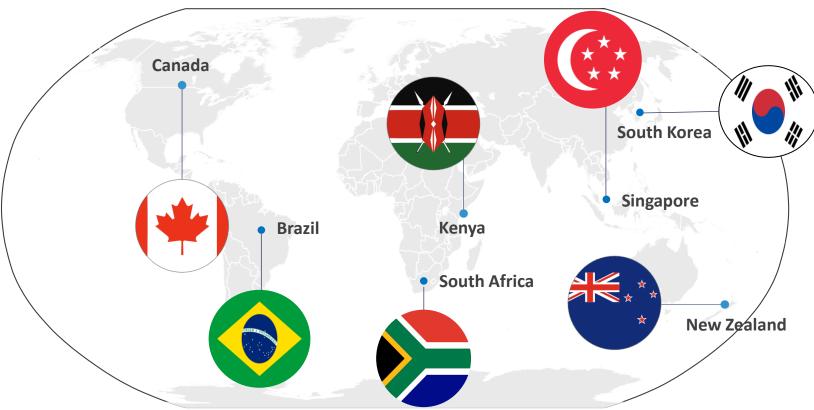






We regularly advise governments and industry on the preparation of contingency plans and other matters related to accidental pollution from ships.

#### RECENT CONTINGENCY AND ADVISORY PROJECTS:

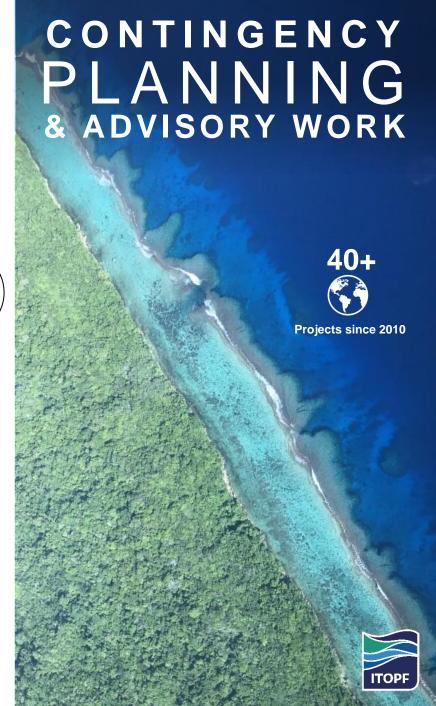


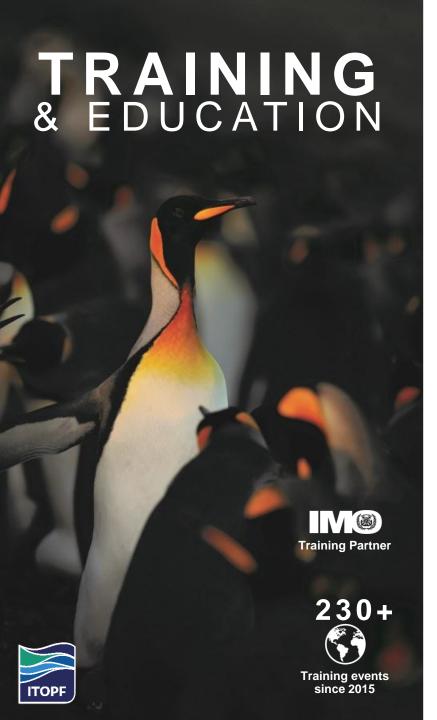






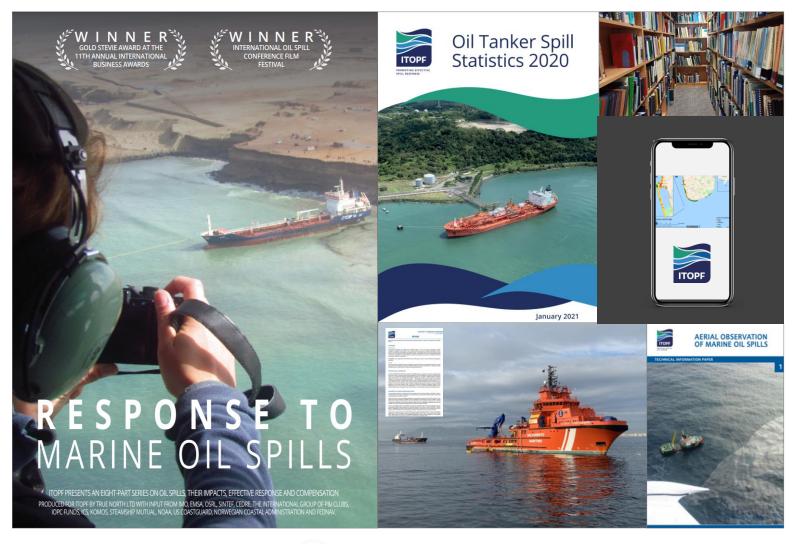








We are a primary and trusted source of information on accidental shipsource pollution.



www.itopf.org

Richard Johnson - Technical Director



