

IMO Headquarters, Thursday, 5 March 2020







Data and trends

Convention on Conditions for Registration of Ships

Determinants of a vessel's flag

Data and trends

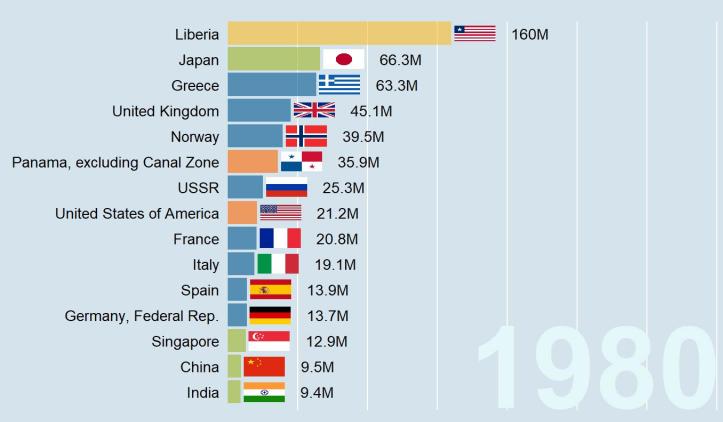
Convention on Conditions for Registration of Ships

Determinants of a vessel's flag

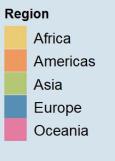
The story so far

40 Years of Flags of Registration

Top 15 national fleets, deadweight tonnage (dwt) from 1980 to 2020*

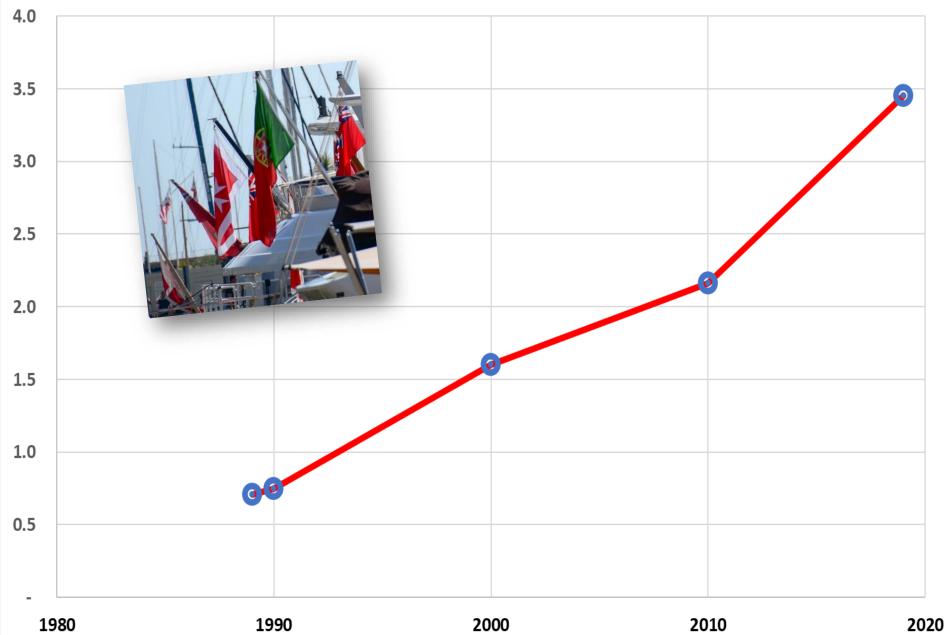






Source: UNCTAD - http://stats.unctad.org/maritime, 2019 *2020 data: Preliminary, based on Clarksons Research

World fleet (dwt) foreign or international / national flag





Example: "Hoffmann Shipping":

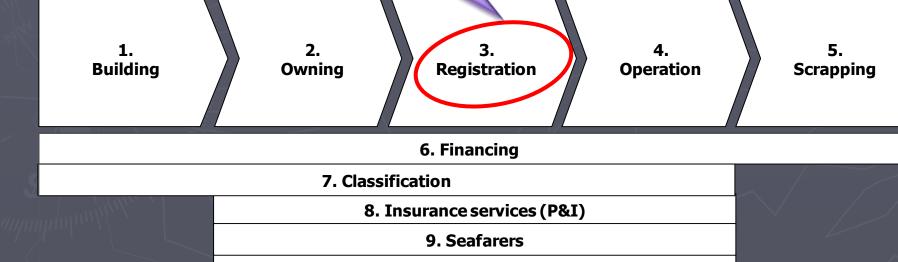
- Owner: German
- Flag: Antigua and Barbuda
- Freight agent: Netherlands
- Seafarers: Poland
- Crewing agent: Cyprus
- Cargo: Turkey
- to Canada
- ► Fuel: Spain
- ► Insurance: United Kingdom
- Shipyard: Portugal







Panama, Liberia, Marshall Islands: 41% of dwt (RMT 2019)



Denmark and Switzerland ~30%

1. Building

2. Owning

Registration

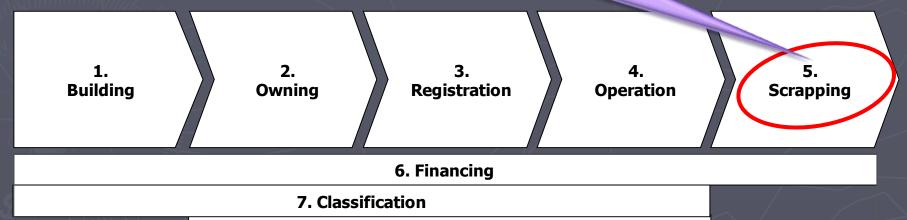
6. Financing

7. Classification

8. Insurance services (P&I)

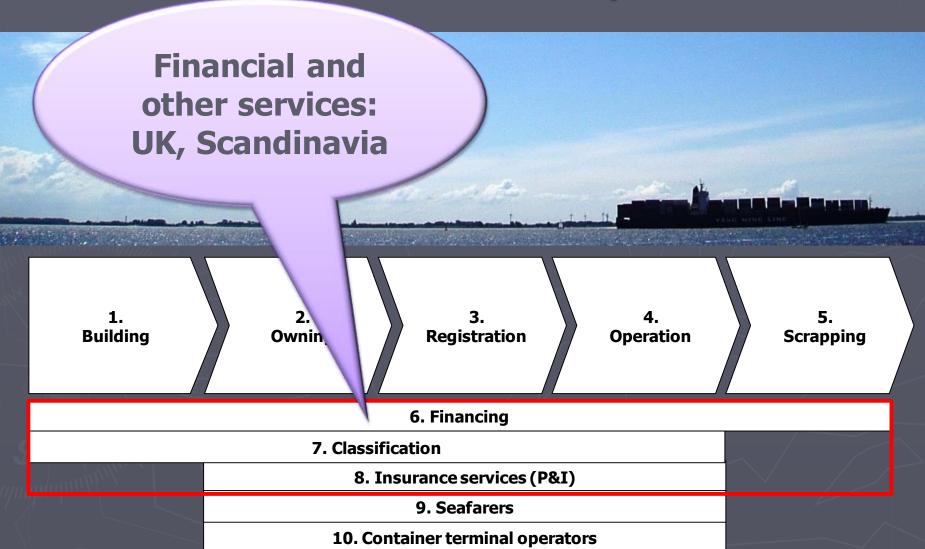
9. Seafarers





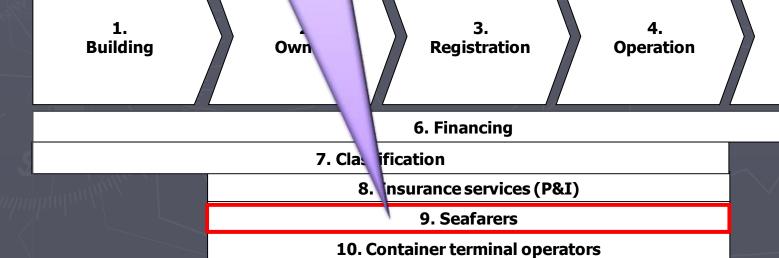
8. Insurance services (P&I)

9. Seafarers



Scrapping





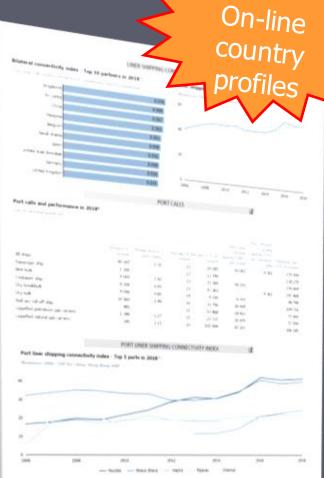
Hong Kong, Netherlands, Singapore, UAE: ~ 30% **Building** Registration **Operation Scrapping** 6. Financing Classification

8. Insurance services (P&I)

9. Seafarers







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Data and trends

Convention on Conditions for Registration of Ships

Determinants of a vessel's flag

on Conditions for Registration of Ships

Not [yet] in force

UN Convention

- Would require 40 contracting parties with at least 25 per cent of the world's tonnage
- Currently: 15 contracting parties

UNITED NATIONS CONFERENCE ON TRADE AND DEVELOPMENT

United Nations
Convention on Conditions
for Registration of Ships

Adopted by the United Nations Conference on Conditions for Registration of Ships on 7 February value



UN Convention on Conditions for Registration of Ships

The United Nations Convention on Conditions for Registration of Ships, 1986, was adopted under the auspices of UNCTAD, after intensive negotiations, among developed, "open registry", and developing countries, on 7 February 1986.

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▶ Its aim was to tighten the conditions under which States would be allowed to register ships, including by establishing the minimum elements of the "genuine link" between the vessel and the State of registration.

UN Convention on Conditions for Registration of Ships

Each State shall establish
"a competent and adequate national
maritime administration", able to ensure
compliance with international rules and standards
concerning "the safety of ships and persons on
board and the prevention of pollution of the
marine environment".

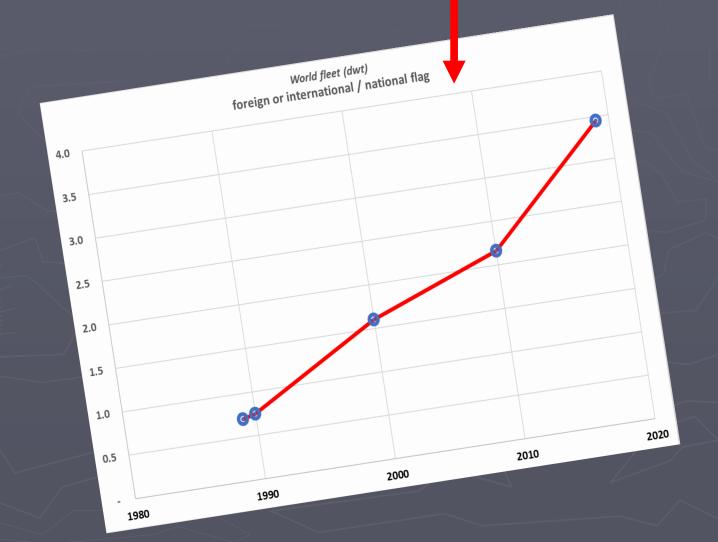
IN ACRES CHARGES OF THAT HE STREET

Although the Convention has not entered into force, its provisions have significantly influenced a number of national laws on ship registration. Data and trends

Convention on Conditions for Registration of Ships

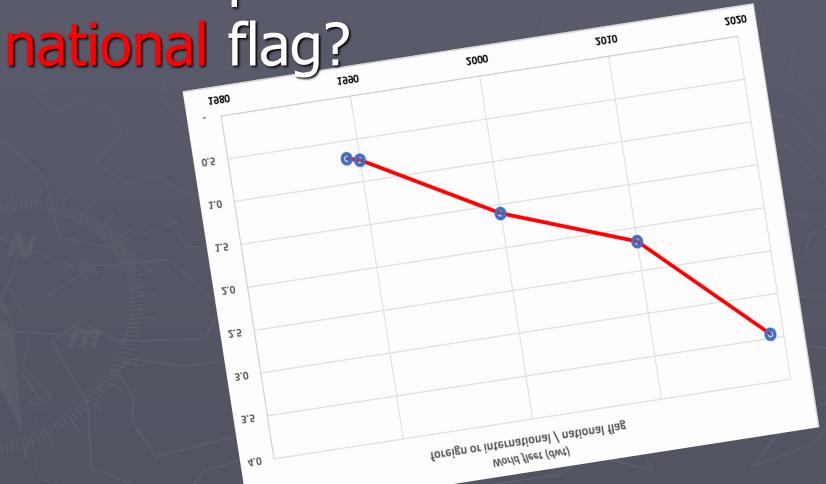
Determinants of a vessel's flag

What explains this?



Or rather...

What explains the choice of the





IAME 2019 CONFERENCE | ATHENS, GREECE

Paper ID 325

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Flagging in: Determinants of Adopting the National Flag in Maritime Transport

Determinants of Choosing the National Flag for Ship Registration

Jan Hoffmann, Byron King, Ricardo J Sanchez and Wayne K Talley

Abstract

Since the establishment of the first open registries in Liberia and Panama half a century ago, the share of the world fleet that uses a foreign flag steadily increased. This development is part of the maritime industry's movement towards increasing globalization as different countries specialize in different maritime segments such as ship building, owning, operation, crewing, scrapping and flag registration. Seeking to lower their costs and obtain better services, many ship owners decide to register their ships under a foreign flag where taxes or crewing costs might be lower or where the registry may provide better services than the national administration in the ship owner's home country. Given this trend towards flagging out, in recent years nations have sought whys to make their national registry more competitive. This paper identifies determinants that may increase the likelihood that a ship-owner does not flag out and instead chooses the national flag. The authors find certain vessel types are more likely to remain nationally flagged than others. In addition, smaller ships are more likely to be nationally flagged, and registries that are attractive to foreign owners also increasingly manage to attract more of their own national owners to use the national flag.

Keywords: maritime transport, flag choice, open registries

6. DETERMINANTS OF VESSEL FLAG

Jan Hoffmann, Ricardo J. Sanchez and Wayne K. Talley

1. INTRODUCTION

For a vessel operator, the choice of the flag is one of the main business decisions. For the countries that register vessels under their flag, this operation implies responsibilities as well as income. For international organizations such as the International Maxitume Organization (IMO), the United Nations Conference on Trade and Development (UNCTAD), the Organization for Organization and Development (OECD), the International Labour autional governments who have an interest in cleaner oceans and safer shipping, is of algal priority – and this compliance is assumed to be closely related to a Most recently for confined the compliance with international environmental, safety and labour regulations vessel's flag.

Most recently, for security reasons, interest in the linkages between flags and those who actually control the ships has re-emerged, although OECD (2003a) finds that in practice it is not so much the open registries themselves that enable reclusive treely available internationally. In order to increase transparency about the linkage developed a "Convention on the Registration of Ships," which, however, never Ample literature exists about

Ample herature exists about comparisons between different flags concerning their compliance with suternational standards. OECD (2003b, p. 8), for example, lightly fair the "praccipal responsibility for complying with the IMO's

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Shioyang Leonomics
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Data

- ► All ships of 1000 GT and above
- ► Two Years
 - **2012:** 46085 ships
 - 2017: 50153 ships
- Source: UNCTAD data provided by Clarksons

The variable to explain:

Likelihood to fly the national flag

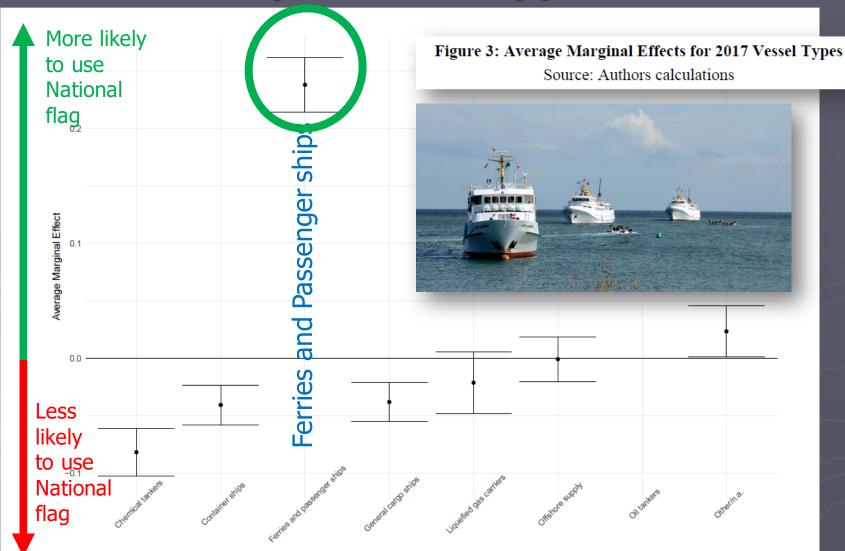
To compare the relative likelihoods for vessels of the 2012 and 2017 fleets to fly the national flag, we employ separate logistic regression models for the 2012 and 2017 datasets. This method allows us to evaluate the relative likelihood of a vessel in the 2012 and 2017 fleet to choose a national flag, while controlling for factors that differ between the vessels between each year. We also test the hypothesis that an owner is more likely to fly the national flag in 2017 than in 2012, while holding vessel characteristics and national indicators constant.

The maths

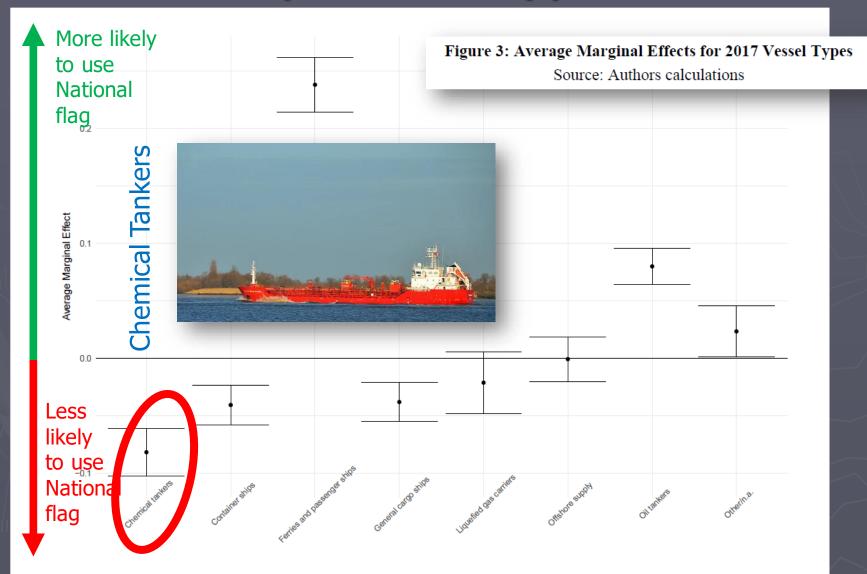
logit function is a sigmoid function that maps a predictor input to a value between 0 and 1, in which the input is interpreted as the log-odds while the output is understood to be the probability. The mathematical interpretation of the logit probability, or the logarithm of the odds for regressor X for the ith vessel, is expressed as follows:

$$P(National = 1) = \log(\frac{P(National = 1)}{P(National = 0)}) = logit^{-1}(\beta \cdot X_i) = \frac{e^{\beta \cdot X_i}}{1 + e^{\beta \cdot X_i}}$$

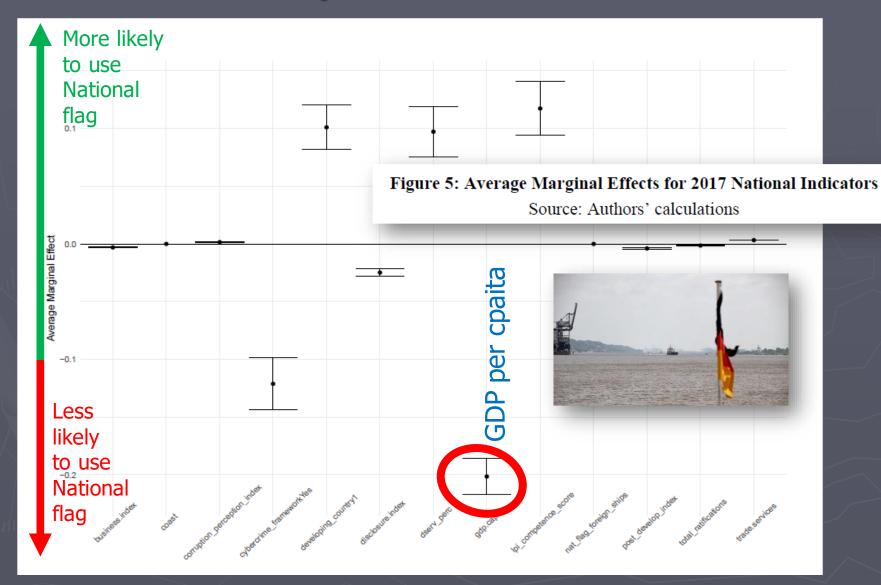
By vessel type



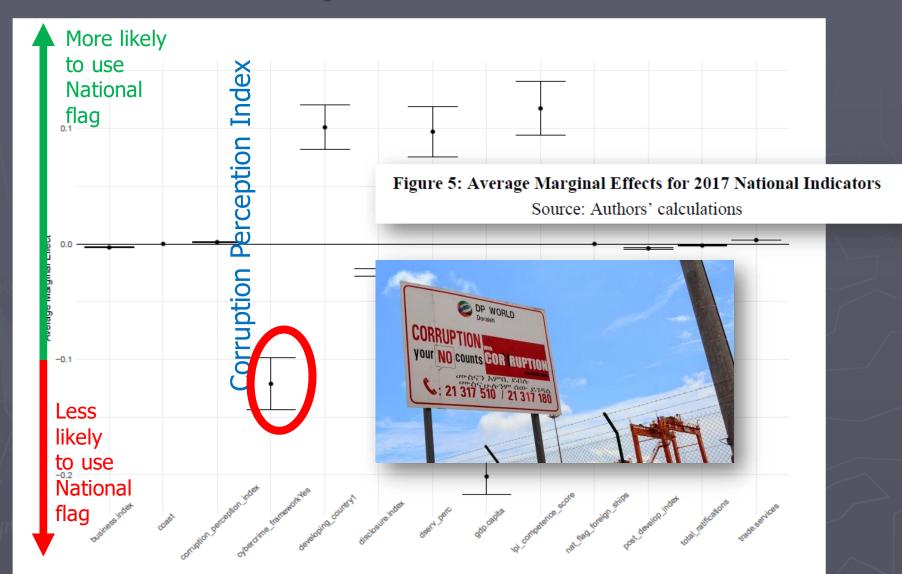
By vessel type



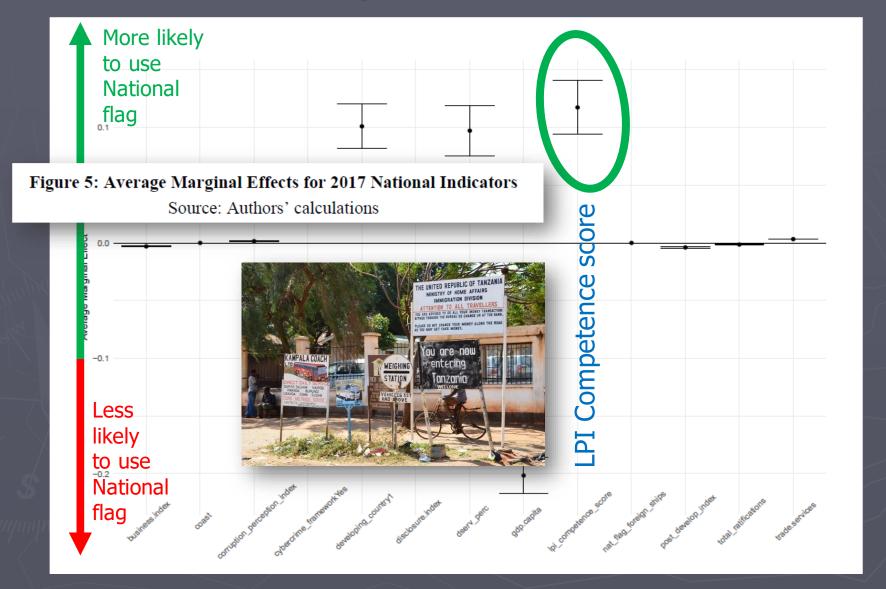
Country characteristics



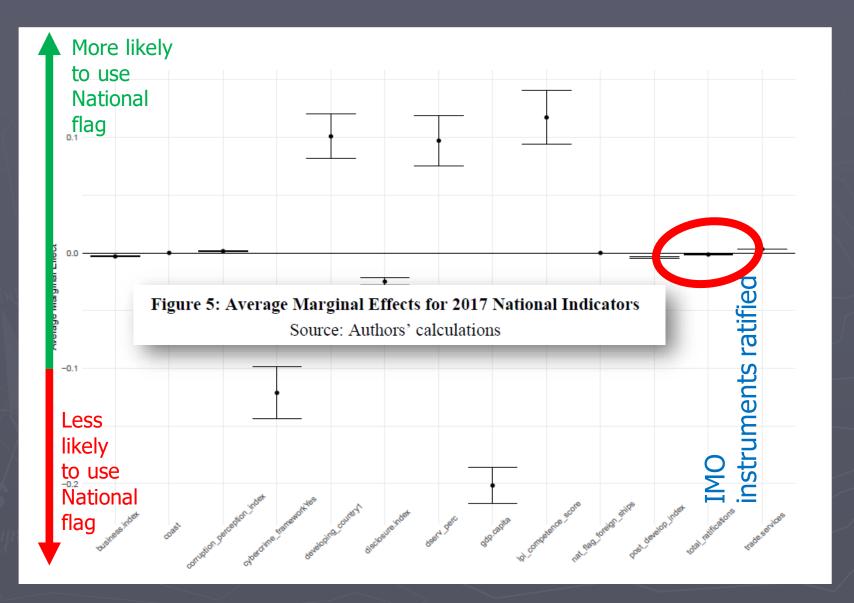
Country characteristics



Country characteristics



IMO conventions?





1) History

5.1.1 The default option

Historically, a ship-owner used mostly his own country's flag. Everything else equal, the default option of where to register my ship would be at home—unless registering abroad is cheaper or provides better services or conditions. As market pressures have over the years led to fewer differences among different vessel registries, there is some reason to believe that at least some owners go back to the default option, i.e. registering at home. National priorities as regards to seafarers' rights, environmental regulations, maritime safety, representation at the IMO and ILO, and national security considerations all suggest that a government would in general prefer the default option, i.e. that its citizens register their floating properties under the national flag. It is possible that national governments provide additional incentives so as to attract owners to the national registry, including possible subsidies.



2) Competitive – also at home

To quantify the market potential of a national registry, we added variables to the model that capture the number of foreign vessels that use a beneficial owner country's flag. If a national registry has a critical mass of vessels that use it, then a registry is more likely to try to make it competitive internationally to attract other foreign vessels. The positive coefficient on this variable suggests that the more foreign vessels that use a nation's registry, the more likely a national vessel is to use the national registry, too. This supports the notion that if a nation's registry is competitive internationally, the more likely a vessel from that nation is to use its national registry.



3) National restrictions

5.1.3. Restrictions

Governments may impose restrictions on owners or on certain trade routes based on their flag of registration. In regards to cargo, this may be reserved to the national flag inder a number of circumstances, including for domestic cargo (cabotage, such as under the US Jones act), foreign trade (cargo reservation regimes as for example applied in Ethiopia), or for certain cargoes (for example aid cargo that may need to be shipped under the donor country's flag). While these government restrictions are difficult to quantify and we did not have data to test their importance empirically in our models, it is clear that nations with long coast lines and large cabotage trades also have a higher share of nationally flagged ships.



4) Incentives

5.1.4 Subsidies and other support measures

Governments can positively encourage owners to use the country's flag, for example through subsidies. Such subsidies can take the form of direct payments (an example is the national reserve fleet in the US), or subsidized loans (such as Switzerland, to maintain a certain number of nationally flagged ships), or below-cost charges for the services rendered by the national vessel registry (as has been claimed for the case of the Belgian registry). We did not have data to include such measures into our model.



5) Service cluster

5.1.5 Service quality

Vessel registries need to provide competitive services in an increasingly competitive market. Owners have an interest to fly the flag of a country whose ships are not too frequently inspected at port state controls, which are accepted for insurance in the more respected protection and indemnity clubs, and which have access to bank mortgages. Those countries that are host to both a national ship owning community and a competitive open registry are expected to aim at reflagging especially the ships owned by their nationals. Examples here include the United Kingdom, Singapore, and Hong Kong. It is plausible that these vessel registries have in recent years influenced ship owners in these nations to reflag many of their vessels using the national flag, which could help explain the differences between the 2012 and 2017 world fleets.



6) "Owning out" (instead of flagging out)

5.1.6 Owning out

Lastly, instead of flagging out, a determinant of choosing the national flag is that owners may choose to offshore the entire shipping business and move to those countries with a competitive environment for ship owners. Some of these nations that exemplify this phenomenon are also important flag countries, such as the United Kingdom and Singapore. Bermuda, Cyprus, Luxembourg, Monaco, Singapore, Switzerland, the United Arab Emirates and the United Kingdom are also major ship-owning countries that garnered a wider market share in terms of their beneficial ownership location than their "ultimate owner's nationality" fleet would suggest. As previously mentioned, these countries are often also home to the corporate headquarters of a wide array of firms, not only those that engage in the shipping business. In this sense, shipping may be part of a broader services cluster in these nations that includes financial, classification, trading or logistics services.



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40 Years of Flags of Registration

Top 15 national fleets, dealersight branches (dest) from 1980 to 2020*

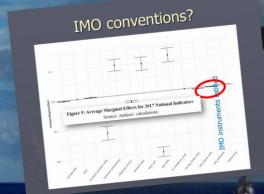
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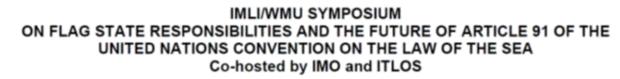
Convention on Conditions for Registration of Ships UN Convention on Conditions for Registration of Ships

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