INTERNATIONAL WORKSHOP ON GREEN CORRIDORS European Experience and Brazilian Perspectives

Waterway Transportation in Brazil



Superintendent of Performance, Development and Sustainability – SDS

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Topics:

- Overview
- Inland Navigation and Cabotage (SSS)
- Port facilities
- International Maritime Shipping (DSS)



Overview



Constitution of Brazil (1988) establishes:

- The environment as a common good and right for all
- The special responsibility of the Government on the protection of the environment and society
- The licensing process of potentially polluting activities and the requirement of the Environmental Impact Assessment - EIA
- Penal and administrative sanctions for conduct and activities harmful to the environment



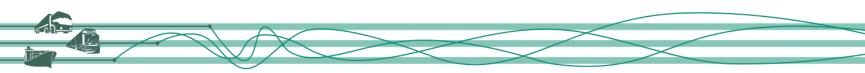
Law 10.233 / 2001 Deals with the reorganization of the waterway and land transportation.

CHAPTER IV - Principles and Guidelines for Waterway and Land Transportation

Art. 11. The management of the infrastructure and operation of the waterway and land transportation shall be governed by the following general principles:

V - adjust the transport to preserve the environment by reducing the levels of noise pollution and contamination of air, soil and water resources;

VI - to promote energy conservation by reducing consumption of automotive fuels;



Law 10.233/01

Art. 12. The general guidelines of infrastructure management and operation of the waterway and land transportation:

II - leverage the comparative advantages of different modes of transport, promoting physical integration and the combination of their operations, for the most economical and secure intermodal movement of people and goods;

V - promote the adoption of good practices of conservation and rational use of fuel and environmental conservation;



Advantages of Navigation

MORE

- + Fuel efficiency
- + High capacity transport
- + Lifetime of infrastructure
- + Useful life of equipment and vehicles
- + Load security and tax control

LESS

- Fuel consumption
- Pollutant emissions (climate change and greenhouse gases)
- Traffic
- Infrastructure Cost
- Number of accidents
- Operational cost
- Environmental impact
- Noise emission



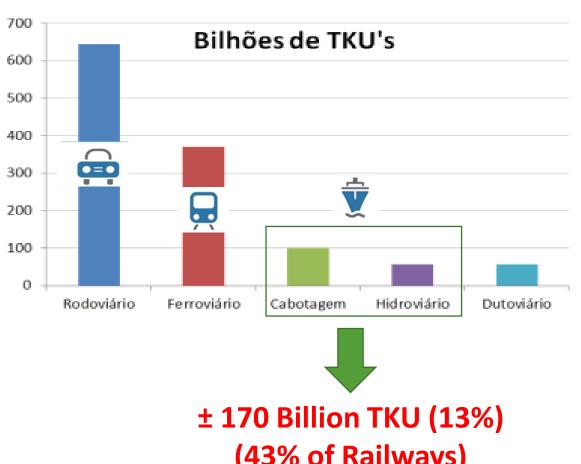
Plans related to waterway transportation

- National Plan for Transport Logistics PNLT
- National Plan for Integrated Logistics PNLI
- National Plan for Port Logistics PNLP
- General concessions plan for waterway transportation— PGO
- Development Plan and Port Zoning PDZ
- Inland Waterways National Integration Plan PNIH
- Inland Waterways Strategic Plan PHE
- Technical, economic and environmental Inland Waterway feasibility study - EVTEA

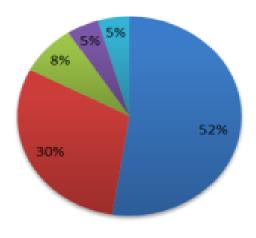


Multimodal Transport Distribution in Brazil in 2011

Source: Brazilian Ministry of Transportation (PNLT 2012)



Distribuição %







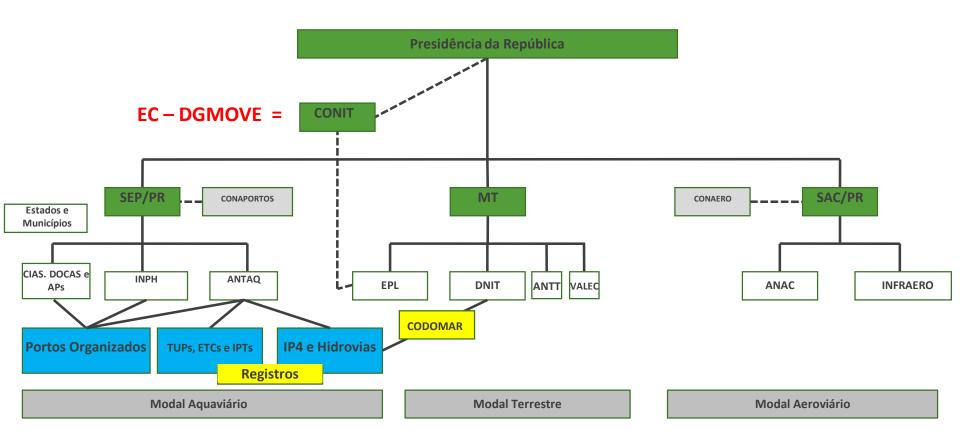
Multimodal Transport Distribution in Brazil (2015 - 2031) TKU (%)

Type of Transport	2015	2019	2023	2027	2031
Roads	44	40	39	38	38
Railways	36	36	42	43	43
Inland Waterways	6	6	6	6	6
Cabotage	7	7	9	9	9
Pipes	7	7	4	4	4

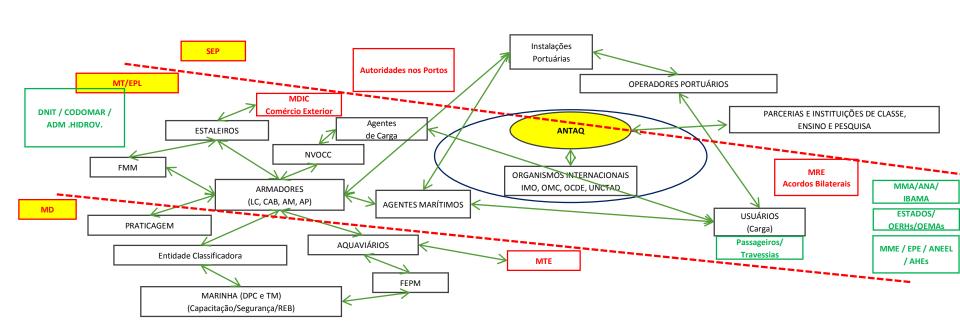
Source: Ministry of Transportation (PNLT, 2012)



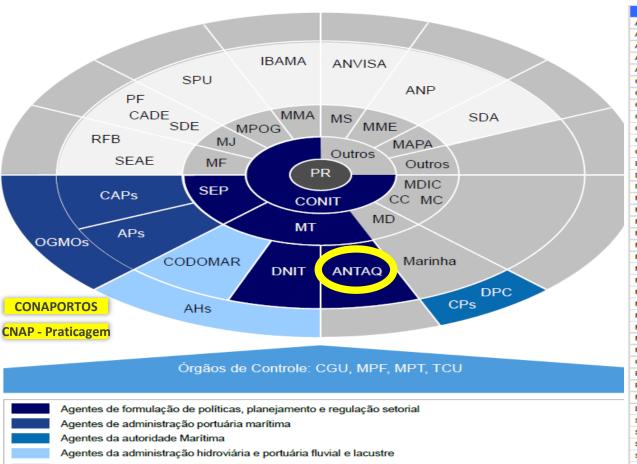
BRAZILIAN TRANSPORT SECTOR INSTITUTIONAL FRAMEWORK (Simplified)



MARITIME AND INLAND NAVIGATION INSTITUTIONAL FRAMEWORK (Simplified)



PORT SECTOR - INSTITUTIONAL FRAMEWORK (Simplified)



Agentes Intervenientes

SIGLA	Orgão/instituição
AHs	Administrações Hidrovlárias
ANP	Agência Nacional do Petróleo, Gás Natural e Biocombustíveis
ANTAQ	Agência Nacional de Transportes Aquaviários
ANVISA	Agência Nacional de Vigilância Sanitária
APs	Autoridades Portuárias
CADE	Conselho Administrativo da Defesa Econômica
CAPs	Conselhos de Autoridades Portuárias
CC	Casa Civil
CGU	Controladoria Geral da União
CODOMAR	Companhia Docas do Maranhão
CONIT	Conselho Nacional de Integração de Políticas de Transporte
CPs	Capitanias dos Portos
DNIT	Departamento Nacional de Infraestrutura de Transportes
DPC	Diretoria de Portos e Costas
IBAMA	Instituto Brasileiro do Meio Ambiente e dos Recursos Naturais
MAPA	Ministério da Agricultura Pecuária e Abastecimento
Marinha	Marinha do Brasil
MC	Ministério das Cidades
MD	Ministério da Defesa
MDIC	Ministério do Desenvolvimento, Indústria e Comércio Exterior
MF	Ministério da Fazenda
MJ	Ministério da Justiça
MMA	Ministério do Meio Ambiente
MME	Ministério de Minas e Energia
MPF	Ministério Público Federal
MPOG	Ministério do Planejamento, Orçamento e Gestão
MPT	Ministério Público do Trabalho
MS	Ministério da Saúde
MT	Ministério dos Transportes
OGMOs	Orgãos Gestores de Mão de Obra
PF	Policia Federal
PR	Presidência da República
RFB	Receita Federal do Brasil
DAS	Secretaria da Defesa Agropecuária
SDE	Secretaria de Direito Econômico
SEAE	Secretaria de Acompanhamento Econômico
SEP	Secretaria dos Portos
SPU	Secretaria do Patrimônio da União
TCU	Tribunal de Contas da União

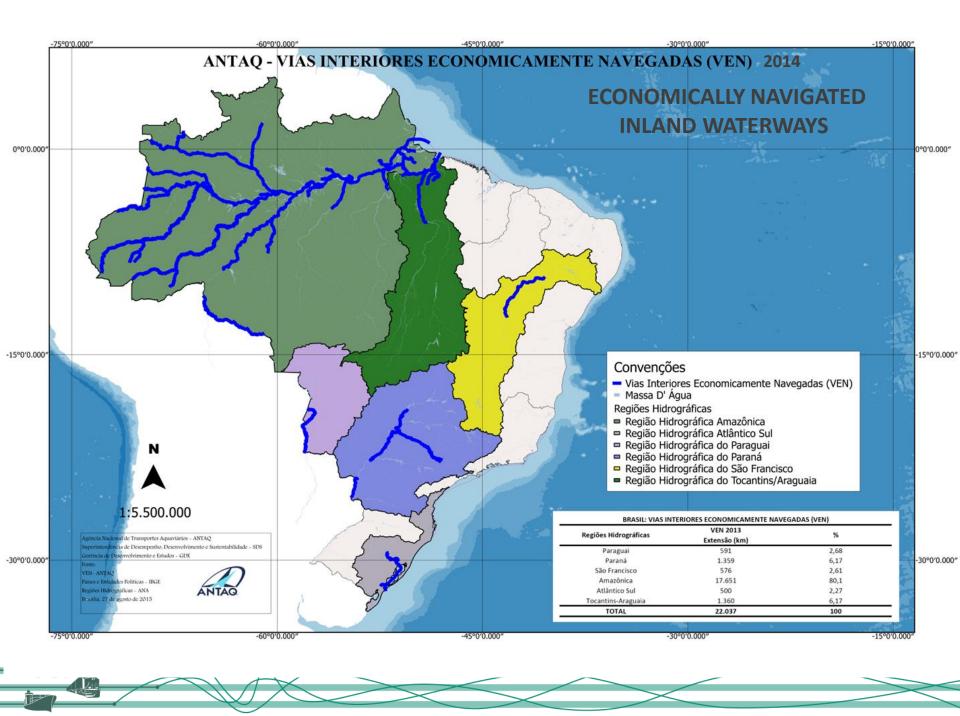
"The devil is in the implementation"

Jerker Sjögren



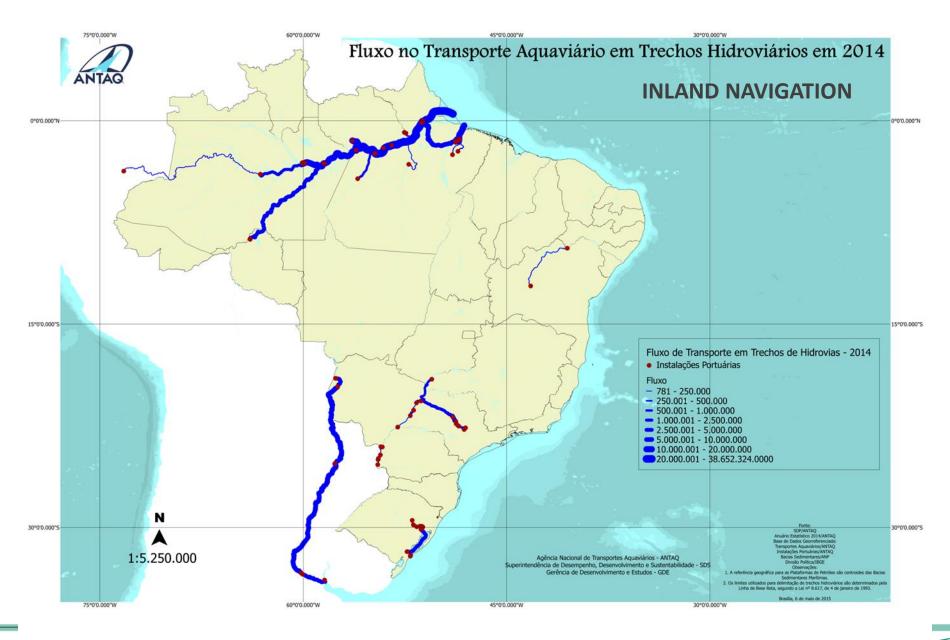
Inland Navigation and Cabotage





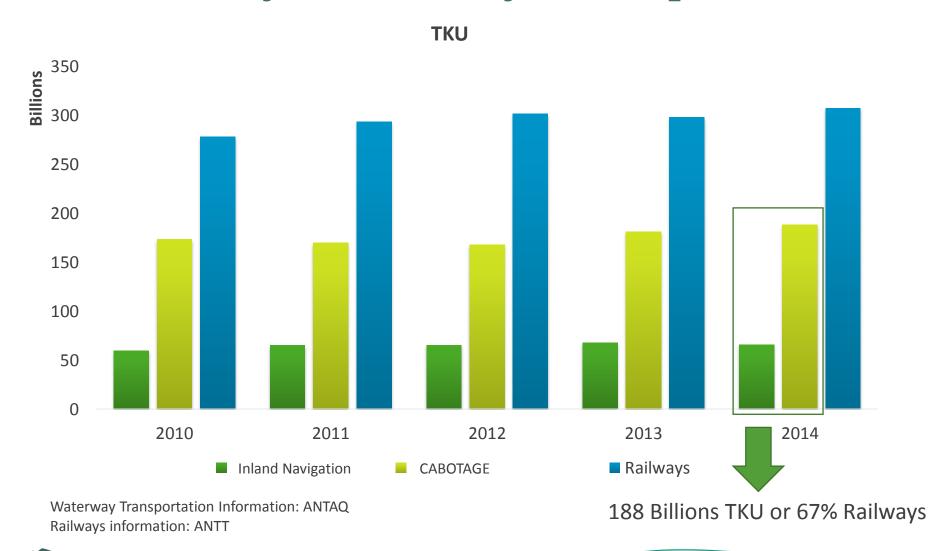








Waterway vs Railway Transportation



Port facilities



Port facilities

More than 200 Ports in Brazil

- Changes in qualification (licensing) and environmental management in order to obtain environmental sustainability in the activity of these facilities
- New grants with environmental sustainability standards.



Environmental Performance Index - IDA

Is the evaluation of legal compliance and good practices in environmental management of port facilities:

- Public ports;
- Private port facilities;
- Navigation



International Maritime Navigation



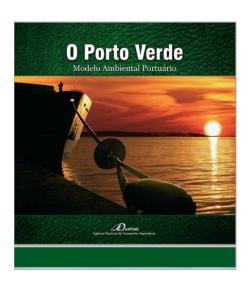
International Maritime Navigation

 Conventions of International Maritime Organization - IMO Changes in the profile of shipping to combat pollution caused by it, especially the emission of greenhouse gases

CABOTAGE



Publications (examples)















Some Key Challenges in waterway transportation development

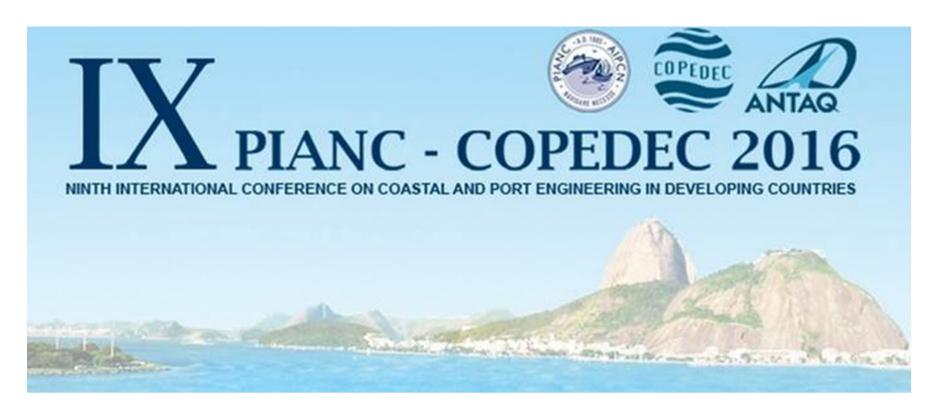
- Infrastructure needed to promote inland navigation and cabotage
- Multiple water use conflicts
 - Ex.: Tietê-Paraná and São Francisco waterway
- Bureaucracy and disarticulation in ports and terminals
- Complex Institutional Framework
- Lack of an effective and sustained integrated planning across sectors and institutions

MANAGEMENT

CONECTIVITY

CONTINUITY





We would like to invite you to submit your abstract for participating in Ninth International Conference on Coastal and Port Engineering in Developing Countries (PIANC- COPEDEC IX).

The PIANC-COPEDEC IX will be held from October 16th to 21st, 2016 in Rio de Janeiro, Brazil, and will cover the following topics:

- 1. Port Engineering
- 2. Port Planning and Management
- 3. Inland Navigation
- 4. Short Sea Shipping and Coastal Navigation
- 5. Coastal Engineering
- 6. Coastal Zone and Coastal Risk Management
- 7. Port and Coastal Environmental Issues and Climate Change
- 8. Port and Waterborne Transport Logistics and Multi Modal Transport









THANK YOU!



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