Fair Winds Trust
Shifting the Paradigm
Sail-propulsion, Decentralization and Sustainable Supply Chains

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The triple EEE’s of Shipping Impacts;

• **E**nergy
• **E**co-systems
• **E**conomics
Energy Impacts
Geopolitical / Environmental
Eco-systems
Dredging + Wake Action
Blue Carbon - Fish stocks

- Seagrasses
- Salt marsh
- Estuarine Mangrove
- Oceanic Mangrove
- Tropical forest

[Bar chart showing carbon storage in various ecosystems]
Economics

What we transport from where can change the economics balance of the world.
Fair Winds Trust

Virtuous circle of trade

Ethical brands

High value cargo

Revenue stream

On board lighting 100% LED
Solar panels
Hydrogen Fuel cells
Electrical drive train
Sewage treatment unit
Desalinator
Ecological paint & anti fouling
Ecological resins & natural fibers
Fair Winds Trust
Working with local producers
Remote coastal village
West African Road Networks

1er AVRIL – 30 JUIN 2013

Contrôles:
- Police
- Douane
- Gendarmerie
- Immigration
- Syndicats, Eaux et Forêts, Ministère de la Santé, Municipalités

Senegal au 100 km:
- 1,2 contrôles
- 1,708 FCFA de taxes illícites
- 14 minutes de retard

Mali au 100 km:
- 2,6 contrôles
- 4,016 FCFA de taxes illícites
- 24 minutes de retard

Burkina Faso au 100 km:
- 1,6 contrôles
- 2,050 FCFA de taxes illícites
- 12 minutes de retard

Cote d'Ivoire au 100 km:
- 1,5 contrôles
- 2,377 FCFA de taxes illícites
- 7 minutes de retard

Ghana au 100 km:
- 1,4 contrôles
- 405 FCFA de taxes illícites
- 8 minutes de retard

Conseil de la Communauté des États de l'Afrique de l'Ouest (CCEAO)
Guinea Bissau
Fijian Proa

✧ 36 m long,
✧ 1 sail over 400 m²,
✧ One 18m oar
✧ No pulley, hoist
✧ No winch
✧ No metal
Transporting Copra

- High Speed
- Shallow draft
- Stable
- Load capacity
The Praocargo
Stats

- LOA – 60m
- Draught loaded - 4m - 6 mtr depending on rudder position
- Cargo capacity – 500t
- Weight of light ship - 160t (max)
- Speed maximum 25knts, average 13kns
- Electric propulsion system
- Electric RIB annex can be used as tug
The Cargo Proa can access goods anywhere without negatively impacting the natural environment.
The Cargo Proa will give these women access to world markets.
North Sea Region
Sail Cargo Transport Network

- eco-sailcargo ships
- ethical goods
- networks of private and public NSR agents
- impact local & regional levels.
Project Objectives

Reduce CO₂ & Costs

- Establishing Sail Cargo Hubs
- Regional Entrepreneurial Ports
- Recreating short sea shipping routes
- Supporting local business
Local Benefits

• Full logistics cycle
  1. Reduction of land based transport emissions
  2. Farm/factory gate to market/dinner plate
  3. Hinterland transport; canals, trains...

• Small ports and port cities benefits
  1. Blue growth/economic development –
  2. Local ship repairs, port facilities,
  3. Victualing, Employment,
  4. Ship training, Crew facilities
  5. Tourism, Heritage, Nautical Museums
Traditional Sail Cargo & Training
INNOVATION
Linking the North Sea Region to an ethical maritime supply network.

Sustainable Impacts:

✓ **Energy** - Renewable
✓ **Economics** - Ethical
✓ **Eco-systems** - Protected

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