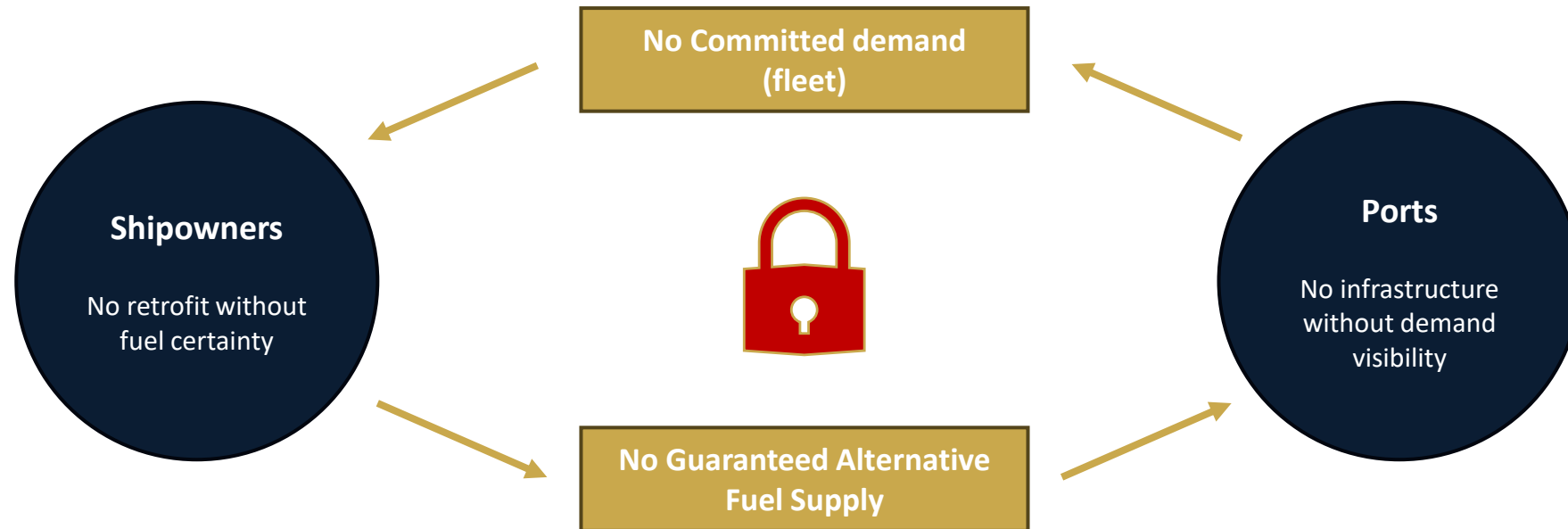


# Green Shipping Corridor Fund

Unlocking Green Finance for Maritime Decarbonization

# A Coordination Failure Locks 60% of Asia Shipping Out of Green Finance

Neither ports nor shipowners can move first – each require the other’s commitment. The result: a self-reinforcing decarbonization deadlock.



## IMPLICATIONS

### +50%

Projected rise in GHG emissions by 2050 on maritime shipping while absolute shipping emissions rose 12% (2016-2023) despite efficiency gains.

### 265,000

premature deaths annually (0.5% of global mortality) are attributable to shipping emissions. Pollution is concentrated along major routes and ports, disproportionately impacting coastal populations.

### \$1.4 Trillion

Asia maritime decarbonization investment gap through 2050, primarily in fuel production and port infrastructure (85-90%), while vessels account for only 10-15%.

# The Green Shipping Corridor Fund



**Infrastructure Debt**  
\$450M – 60% of fund

- Singapore & Shanghai ports
- LNG / Methanol bunkering
- Shore power
- Security: concession rights, take-or-pay

**Vessel Retrofit Financing**  
\$300M – 40% of fund

- Small-mid shipowners
- Dual-fuel retrofit
- Efficiency upgrades
- Serviced via fuel savings
- OPEX reduction

**Corridor Covenants**

**Cross-asset linkage:**

- Ports guarantee fuel sales baseline
- shipowners commit 80%+ of voyages to the corridor

# Decarbonizing the World's Most Critical Shipping Lane

Asia carries 60% of global container traffic and 40% of shipping CO2 emissions

## WHY HERE



### Singapore

Bunkering: #1 globally (6% share)  
Traffic: 39M TEU/yr  
Green MoU: Signed  
Policy: 100% port dues waiver

### Shanghai

Bunkering: Major Asian hub  
Traffic: Top 3 globally  
Green MoU: Signed  
Policy: National green targets

## WHY NOW

**\$1.2-1.6 Trillion**

Total investment needed to fully decarbonize shipping by 2050

**26% CAGR**

The green shipping tech market is projected to grow from \$22 billion in 2024 to \$141 billion in 2032.

**<1%**

Of zero-emission bunkering infrastructure exists today

**\$450 Billion**

needed to retrofit the global fleet by 2050, roughly \$17B per year for shipowners

# Two Product Lines Underwritten to the Same Corridor-Locked Structure

## Port Infrastructure - \$450M - 60% of AUM

*Anchored at PSA Singapore (Tuas) and SIPG Shanghai (Yangshan)*

### LNG/methanol bunkering terminals

- The fueling infrastructure that makes alternative fuels available on the corridor

*\$30-\$150M per project*

### Shore power installations

- Electrification of berth clusters so vessels can plug in at port and cut engine emissions while docked

*\$15-\$40M per berth cluster*

### Digital port optimization systems

- Software and systems to reduce idle time, improve vessel scheduling, and cut port emissions

*\$5-\$15M per project*

## Vessel Retrofit Financing - \$300M - 40% of AUM

*Targeting 3,000 – 15,000 TEU mid-size operators*

### Dual-Fuel Engine Conversions

- Retrofitting existing vessels to run on LNG or methanol alongside conventional fuel

*\$8–15M per vessel*

### Efficiency Upgrades

- Broader technical improvements to reduce fuel consumption and improve CII ratings

*Covered under the \$10–30M per borrower envelope*

### Sustainability-Linked Margin Ratchet

- CII “A”/”B”: Rate decreases 10-25 bps
- CII drops to “C”: Rate steps up 50 bps

## Corridor Covenant

- **Dual-trigger disbursement** links vessel and port financing, with capital released against operational milestones (e.g. infrastructure readiness, retrofit completion) and penalties for delays to avoid holding up counterpart investments
- **Captive demand lock-in** is ensured through take-or-pay fuel offtake guarantees and ≥80% corridor utilization commitments from shipowners

# From Market Momentum to Execution: How GSFC Solves the Coordination Gap

## The Market is Moving



**Standards:** Poseidon Principles: green financing standards for shipping (bank-led)



Green Corridor MoU signed between Singapore and China in 2025



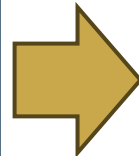
MDB financing (e.g. ADB's \$1B Sustainable and Resilient Maritime Fund)



Cargo owners (Amazon, IKEA...) actively pushing Scope 3 reductions



Large shipping companies are already transitioning



## But the Gap Persists



Nobody finances ports and ships **within a single corridor-locked structure**



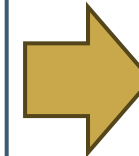
Policy momentum exists, but **no binding investment or offtake commitments**



**Existing solutions address only one side of the market at the asset level**, leaving coordination across fuel, ports, and vessels unresolved



Fleet ownership is **fragmented, with small and mid-sized operators** lacking capital and capacity to take first-mover risk



## GSFC Closes It by



Linking port and vessel investments within a single corridor-level financing structure



Creating binding demand through take-or-pay offtake and corridor voyage commitments



Synchronizing capex across ports, vessels, and fuel supply



Enabling small and mid-sized operators to access capital and reduce first-mover risk



Converting policy momentum into investable, bankable projects



Providing a scalable template for global green corridors

# Blended Capital Structure and Investor Proposition

*Catalytic first-loss capital de-risks the structure and crowds in institutional investors*

## CAPITAL STACK

Senior Notes

**\$525M**

70%

*Secured by hard assets*

Mezzanine

**\$150M**

20%

*Subordinated Risk*

Catalytic First-Loss Equity

**\$75M**

10%

*Returnable concessional capital*

## INVESTOR TERMS

### Senior Notes – 6.5% blended coupon

Tenor	8-10 years
Rate	6.5% (SOFR + spread)
Security	First lien on port assets + vessel mortgage
Covenants	DSCR $\geq$ 1.35x; LTV $\leq$ 65%

### Mezzanine – 10% blended coupon

Tenor	7-9 years
Rate	10% (cash coupon + PIK)
Security	Second lien + equity kicker

### Catalytic First Loss – 1.4-1.5x return – 9:1 mobilization

Tenor	12 years (full fund life)
Return target	1.47x (capital preservation + return)
KPI	9:1 private capital mobilized

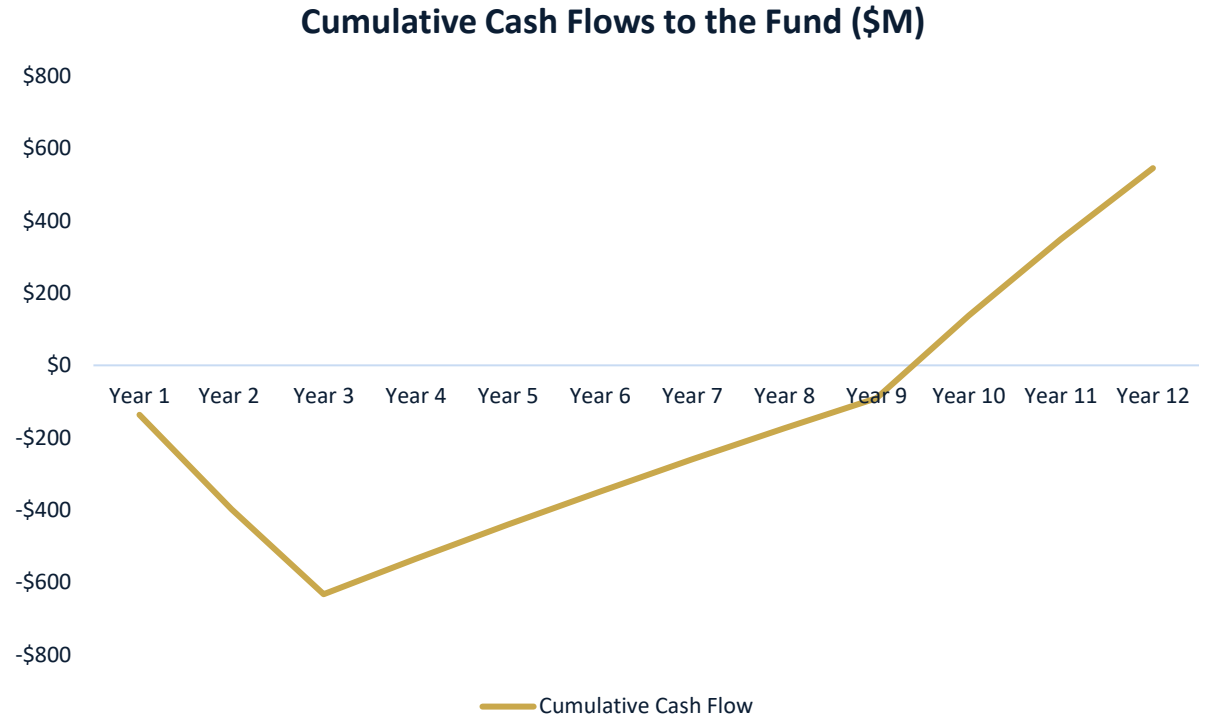
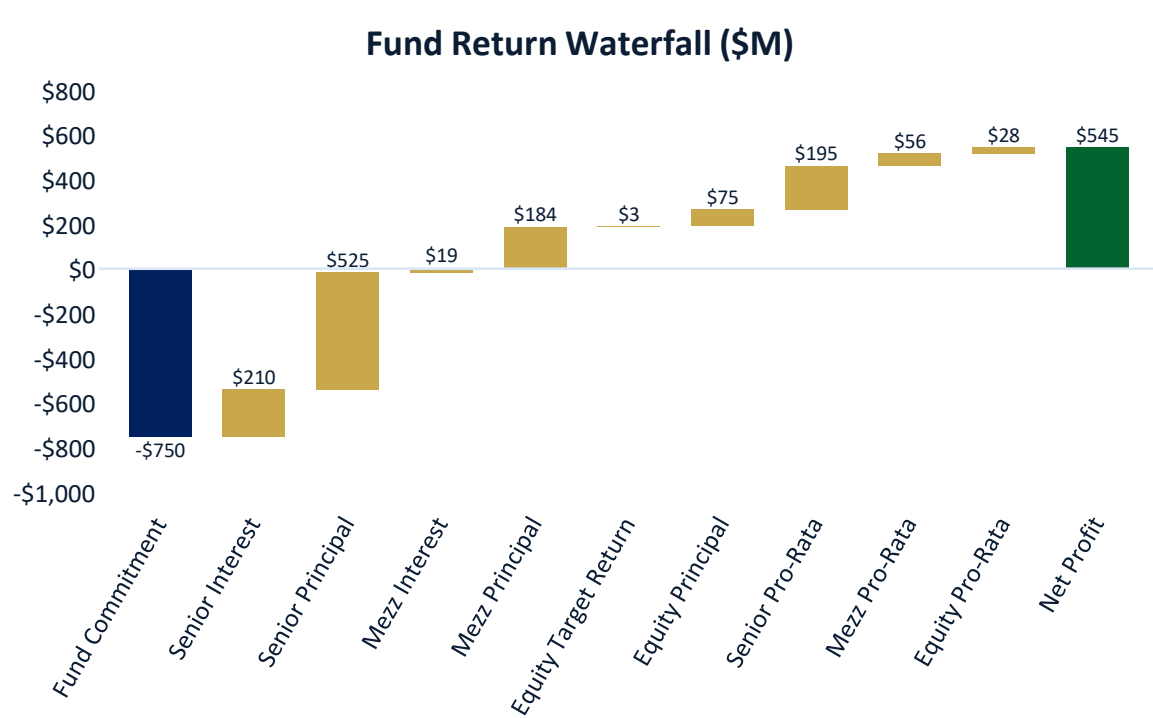
## TARGET INVESTORS

- GIC (Singapore)
- Temasek Infrastructure
- Allianz Global Investors
- AXA IM Alts
- APG Asset Management

- Macquarie Asset Mgmt
- Brookfield Infra Credit
- IFM Investors
- FMO (Dutch DFI)
- Proparco (French DFI)

- Anchor MDB (e.g. ADB or AIIB)
- Green Climate Fund
- Singapore MAS / MSGI
- JICA (Japan)
- EDCF (Korea)

# Forecast Returns



**10.22%**

Fund Net IRR

**Year 9**

Cumulative Breakeven

**\$545M**

Total Return by Year 12

**1.73x**

Implied MOIC

# Unit Economic Analysis

	VESSEL RETROFIT	PORT INFRASTRUCTURE
<b>DEAL STRUCTURE</b>		
Investment per unit	\$15M	\$175M
Asset life	15 years	30 years
<b>ANNUAL ECONOMICS → CREDIT COVERAGE</b>		
Annual revenue	\$4.69M	\$33.36M
(-) Operating cost (non-debt)	\$0.95M	\$9.83M
(=) Operating cash flow	<b>\$3.74M</b>	<b>\$23.53M</b>
(-) Annual debt service (interest)	\$0.86M	\$12.60M
<b>Debt Service Coverage Ratio</b>	<b>4.3x</b>	<b>1.9x</b>
(=) Net annual benefit to borrower	<b>\$2.88M</b>	<b>\$9.46M</b>
<b>LIFETIME VALUE &amp; IMPACT</b>		
Residual equity value (PV, after debt service)	\$538M (20 vessels)	\$282M (2 ports)
CO <sub>2</sub> avoided (annual per unit / lifetime)	10K tonnes / 3.0M tonnes	45K tonnes / 2.7M tonnes

## 4.3x

**Vessel DSCR**

*\$4.69M cash flow covers \$0.86M debt service*

## 1.9x

**Port DSCR**

*\$23.5M EBITDA covers \$12.6M debt service*

## \$130

**Per tonne CO<sub>2</sub> abated**

*Below IMF \$185 social cost of carbon*

\* WACC used to bring cashflows to present value is 6.6%. Calculation made assuming 20 vessels and 2 ports.

\* DSCR = annual cash flow ÷ annual debt service. Standard credit metric for infra lenders.

# Delivering Measurable Climate and Health Impact

**5.7M**  
Tonnes CO<sub>2</sub>  
abated



10,000 tons CO<sub>2</sub> avoided per vessel retrofit



45,000 tons CO<sub>2</sub> per port project



Reduction in port air pollutants (SO<sub>x</sub>, NO<sub>x</sub>, PM)









~5500 deaths  
Avoided annually

\$ 9:1 Private capital mobilization



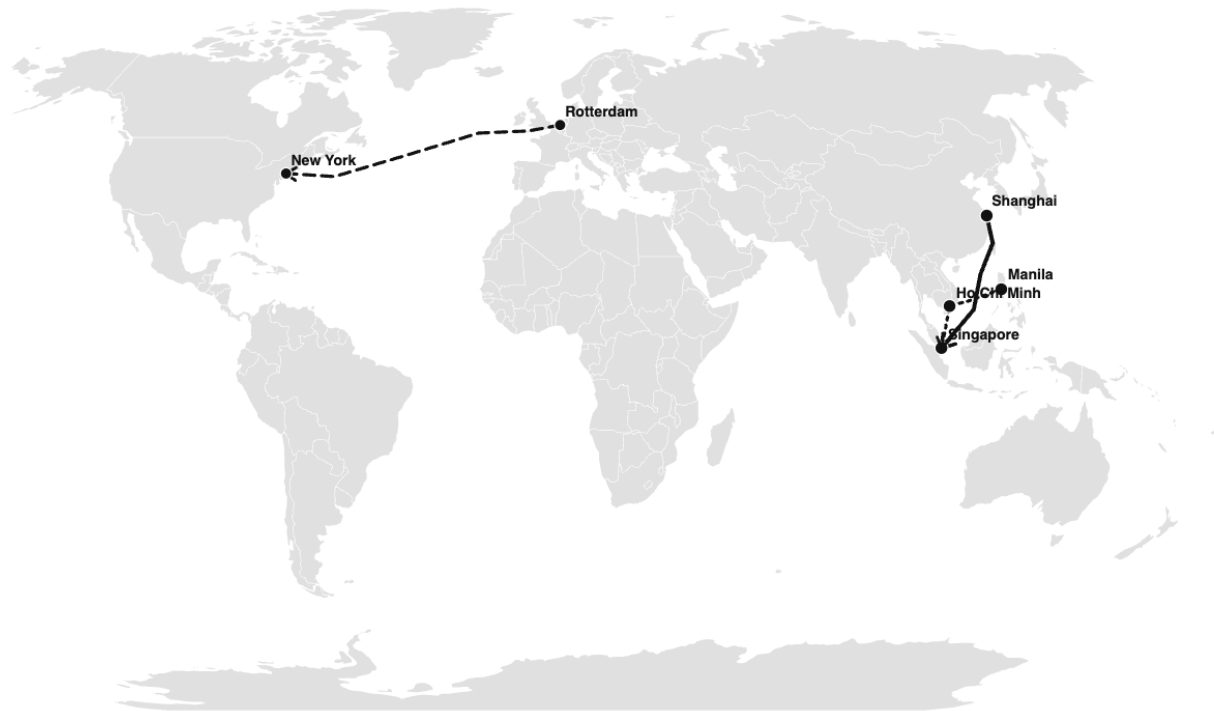
# Key Risks and Mitigants

● Low 
 ● Medium 
 ● High

Risk	Description	Severity	Mitigation Strategy	Likelihood
 <b>Stranded Asset</b>	Risk of technology shift (H2/ammonia) leading to stranded assets; limited near-term fuel availability	Low	<ul style="list-style-type: none"> <li>Phase 1: Proven LNG/methanol only (DNV-approved).</li> <li>Phase 2: Pilots w/ 10% allocation. 3rd-party verification.</li> </ul>	<span style="color: green;">●</span>
 <b>Counterparty</b>	Borrower default or underperformance on port or vessel commitments	High	<ul style="list-style-type: none"> <li>Conservative LTVs (<math>\leq 60-70\%</math>)</li> <li>Asset-backed security + cross-collateralization</li> <li>Step-in rights / covenant enforcement</li> </ul>	<span style="color: green;">●</span>
 <b>Demand/Offtake</b>	Cargo owners may not sustain willingness to pay green fuel premiums	High	<ul style="list-style-type: none"> <li>Minimum revenue floor secured via take-or-pay contracts</li> <li>Anchor cargo owners (Amazon, IKEA-type)</li> <li>Blended finance / subsidies in early years</li> </ul>	<span style="color: green;">●</span>
 <b>Regulatory</b>	Regulatory changes (IMO/EU ETS) and evolving fuel standards	Low	<ul style="list-style-type: none"> <li>Flexible, CII/EEXI-linked covenants</li> <li>geo-diversification (8+ ports)</li> <li>Aligned with emerging standards (MSGI/MOUs)</li> </ul>	<span style="color: yellow;">●</span>
 <b>Fuel Price</b>	Green fuel premium volatility (15-20% > Fossil fuels)	Medium	<ul style="list-style-type: none"> <li>OPEX savings service debt (15-20% fuel cut)</li> <li>Hedging clauses; Port baseline guarantee of fuel sales helps in hedging price volatility also</li> </ul>	<span style="color: red;">●</span>
 <b>Construction</b>	18-24 month procurement cycle means committed capital may be undrawn in Year 1, inflating the fee base	Medium	<ul style="list-style-type: none"> <li>Phased deployment ensures at least one terminal is operational</li> <li>Contingency buffers built into timelines and budgets</li> </ul>	<span style="color: red;">●</span>

# Next Port of Call – Scaling Up Green Shipping Corridors

Replicating the Singapore–Shanghai corridor model across Rotterdam and the Vietnam–Philippines region to decarbonise high-emission maritime trade routes



— Shanghai–  
Singapore

- - - Rotterdam–New York

..... Manila–Ho Chi Minh–  
Singapore

## Rotterdam-New York

*High-volume corridor with infrastructure mismatch ideal for scaling corridor finance*

- High-volume transatlantic corridor with concentrated operator base (55% controlled by few players)
- Infrastructure mismatch: LNG in Rotterdam, but no methanol/LNG bunkering in New York

## South China Sea : Manila / Ho Chi Minh

*Fast-growing trade lane with zero green fuel access immediate financing gap*

- Fast-growing intra-Asia trade (China+1 shift)
- 7,100+ islands, 17,000 Vietnam ship transits in Apr 2025 (+7% YoY); zero LNG or methanol at any port Dual-fuel vessel delivered in the Philippines have to sail to Singapore to refuel
- Minimal green finance; cabotage rules trap independent operators with no path to self-fund

# Team

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**Alejandro Michel Marron**

**Nationality:** Mexican

**School:** INSEAD

**Experience:** 3 years in healthcare operations and private equity. Insurance underwriting at Lloyd's of London. Impact investing in Central America.



**Julien Trehet, CFA**

**Nationality:** French

**School:** INSEAD

**Experience:** 5 years experience in development finance and sustainable investing, 2.5 years in infrastructure investing advisory.



**Varun Mustyala**

**Nationality:** Indian

**School:** INSEAD

**Experience:** 3 years experience in financial services consulting and 3 years experience in consumer services tech



**Dhananjay Sahoo**

**Nationality:** Indian

**School:** INSEAD

**Experience:** 3.5 years experience in financial technology and 3 years experience in consumer tech



# APPENDIX

# Special Thanks to Our Mentors and Advisors

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**Gabriel Ng**

Investment Director  
Better Society Capital



**Julie Ansidei**

MD, EMEA Head of  
Sustainability Policy and  
External Engagement  
BlackRock



**Lucie Teplá**

Senior Affiliate Professor  
of Finance  
INSEAD



**Tony Chan**

Partner  
Orrick



# Upgrading Today's Fleet for a Low-Carbon Future

Approximately 90% of today's fleet will still be in service by 2030–2040. New ships are expensive and slow to deploy. Retrofitting delivers immediate emissions reductions at lower cost



## Alternative fuel conversion

Engines and fuel systems adapted to run on LNG, methanol or ammonia  
*Impact: 20-90% CO<sub>2</sub> reduction depending on fuel*



## Hull and energy efficiency

Technologies that reduce drag and energy loss (e.g., hull coatings, air lubrication)  
*Impact: 5-10% fuel savings*



## Engine and propulsion upgrades

Improved engines and propeller systems to increase efficiency  
*Impact: 5-15% fuel savings*



## Operational Optimization

Digital tools to optimize speed, routing and fuel use (e.g., voyage planning, speed optimization)  
*Impact: 3-10% fuel savings*

# Unit Economic Analysis - Vessels

<b>Investment</b>	\$15M per vessel	Per unit capital cost
<b>Financing</b>	\$9M (60% LTV) at 9.5%	Senior secured vessel loan
<b>Asset Life</b>	15 years	Useful economic life of retrofit

## Revenue & Savings Breakdown

Fuel OPEX savings	\$2.5M	15-20% consumption reduction vs. HFO baseline; blended fuel price differential
CII band upgrade & compliance savings	\$0.84M	Avoided CII penalty charges + green band rating premium from flag state
Green charter rate premium	\$0.96M	Uplift from ESG-mandated cargo owners (Amazon, IKEA, etc.)
Carbon credits & regulatory incentives	\$0.39M	Voluntary carbon market credits + EU ETS compliance value (\$39/tonne net)
<b>Total Annual Revenue</b>	<b>\$4.69M</b>	

## Cost Breakdown

Debt service – interest (blended)	\$0.86M	Annual interest on \$9M vessel loan at 9.5%
O&M & equipment maintenance	\$0.48M	Retrofit hardware servicing, dry-dock inspections, spare parts
Crew training & alt fuel handling	\$0.27M	STCW alt-fuel endorsements, safety drills, annual refreshers
Insurance & certification uplift	\$0.2M	P&I/H&M delta for new fuel systems; class survey fees
<b>Total Annual Cost</b>	<b>\$1.81M</b>	

**Net Annual Benefit** **\$2.88M** Per vessel, annually

# LNG/Methanol Terminals

Comparison of infrastructure requirements and deployment constraints for LNG and methanol bunkering

## LNG Infrastructure:

- Mature global bunkering network in major hubs
- Requires cryogenic storage (-162°C) and specialised terminals
- Limited number of ports due to high capex and complexity
- Strong adoption: 1,200+ vessels on order using LNG

## Methanol Infrastructure

- Can be stored in conventional fuel tanks (no cryogenics)
- Bunkering uses standard pumps and logistics
- Easier to deploy across secondary and emerging ports
- Still limited supply of green methanol production

**LNG is infrastructure-heavy but already deployed. Methanol is infrastructure-light but not yet scaled**



# Shore Power

What is shorepower? Why to use it?

- Port builds substation + frequency converter (50Hz grid → 60Hz ship) + cable reel at berth
- Ships plug into the port's electrical grid while docked, shutting off their diesel generators
- Powers all onboard systems lighting, reefers, HVAC from clean grid electricity
- Docked ships burn heavy fuel oil 24/7 just sitting still 1-5 tonnes/hour
- Ship retrofitted with compatible socket and medium-voltage switchboard



# Port Infrastructure Unit Economic Analysis

Investment	\$175M per port	Per port capital cost
Financing	80% senior (\$140M) at 6.5% + 20% mezz (\$35M) at 10%	Financed through fund's infra debt allocation
Blended cost of debt	7.2%	Weighted: (80% × 6.5%) + (20% × 10%)
Asset Life	30 years	Useful economic life of port infrastructure

## Revenue Breakdown

LNG bunkering margin	\$8.40M	80K tonnes/yr throughput at \$105/tonne margin
Methanol & ammonia dispensing fees	\$5.60M	53K tonnes/yr combined; \$106/tonne margin
Green corridor access & certification fees	\$9.20M	Per-call levy on vessels using certified green shipping lane
Alt fuel storage & infrastructure lease	\$5.80M	Tank farm & jetty lease to fuel suppliers; long-term offtake
Carbon credits & regulatory incentives	\$4.36M	Port-level VERs + government green port incentive scheme
<b>Total Annual Revenue</b>	<b>\$33.36M</b>	

## Cost Breakdown

Debt service – senior interest (\$140M at 6.5%)	\$9.10M	Annual interest on 80% senior tranche from fund
Debt service – mezz interest (\$35M at 10%)	\$3.50M	Annual interest on 20% mezzanine tranche from fund
O&M & equipment maintenance	\$5.80M	Jetty upkeep, cryogenic equipment, pipeline integrity, capex reserve
Fuel inventory management & safety ops	\$3.50M	Working capital cost of alt fuel stock; HAZMAT compliance
Staffing & administration	\$2.00M	Operations crew, compliance officers, port authority liaison
<b>Total Annual Cost</b>	<b>\$23.90M</b>	

<b>Net Annual Benefit</b>	<b>\$9.46M</b>	Per port, annually
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# Interest Rate Sensitivity: Fund IRR Under Different Scenarios

## RATE STRUCTURE DECOMPOSITION

Tranche	SOFR component	Credit spread	Total coupon
Senior Notes (\$525M)	SOFR	+ 220 bps	6.50%
Mezzanine (\$150M) — cash	SOFR	+ 425 bps	8.00%
Mezzanine (\$150M) — PIK	Fixed	—	2.00%
<b>Mezzanine — total</b>			<b>10.00%</b>
Catalytic first-loss (\$75M)	Fixed	—	1.47x

Base case: SOFR at 4.30% (current spot). Forward curve: 3.50–4.00% for 2026–2030.

## HEDGING STRATEGY

**Target hedge ratio**  
50–70% of floating-rate exposure swapped to fixed via IRS

**Estimated swap cost**  
20 bps p.a. on hedged notional; reflected in net return projections

**Residual float exposure**  
30–50% intentionally left floating — rising rates increase coupon income; fund benefits from rate increases as a net lender

**Natural hedge**  
Vessel fuel savings (revenue side) are inflation-correlated, partially offsetting higher funding costs for borrowers

## FUND NET IRR SENSITIVITY TO SOFR

SOFR	Senior coupon	Mezz total coupon	Fund net IRR	Δ
2.50%	4.70%	8.75%	8.5%	-1.7%
3.00%	5.20%	9.25%	9.0%	-1.2%
3.50%	5.70%	9.75%	9.6%	-0.6%
<b>4.30%</b>	<b>6.50%</b>	<b>10.30%</b>	<b>10.22%</b>	<b>Base</b>
4.50%	6.70%	10.50%	10.4%	+0.2%
5.00%	7.20%	11.00%	10.9%	+0.7%
5.50%	7.70%	11.50%	11.4%	+1.2%

# Indicative Term Sheet

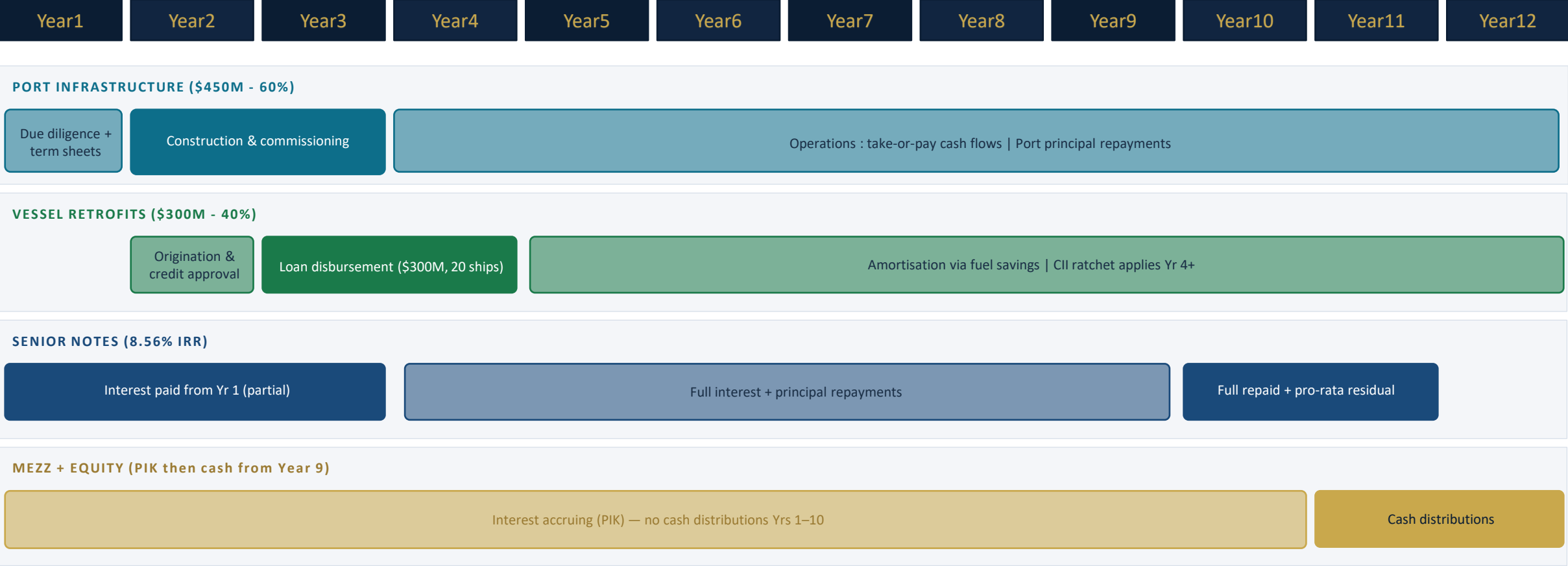
FUND STRUCTURE		ECONOMICS & TARGET RETURNS		INVESTMENT PARAMETERS	
Fund size	<b>\$750M target</b>	Management fee	<b>1.5% on committed</b>	Asset types	<b>Vessel retrofits, port infra</b>
Strategy	<b>Infrastructure / Impact</b>		<b>1.0% post-investment period</b>	Geography	<b>Asia-Pacific corridors</b>
Domicile	<b>Singapore (VCC)</b>	Carried interest	<b>20% above hurdle</b>	Anchor corridor	<b>Singapore–Shanghai</b>
Currency	<b>USD</b>	Preferred return	<b>8% p.a. (compounding)</b>	Capital stack	<b>Senior / Mezz / Equity</b>
Fund life	<b>12 years</b>	Catch-up	<b>100% GP catch-up</b>	Senior notes	<b>\$525M · 70% · secured</b>
Investment period	<b>4 years</b>	Waterfall	<b>European (whole-fund)</b>	Mezzanine	<b>\$150M · 20% · subordinated</b>
Extension	<b>2 × 1 year (GP discretion)</b>	Target net IRR	<b>10.22% (base case)</b>	First-loss	<b>\$75M · 10% · DFI-led</b>
GP commitment	<b>≥ 2% of commitments</b>	Target net MOIC	<b>1.73×</b>	Max single asset	<b>25% of fund NAV</b>
Min. LP ticket	<b>\$10M</b>	Target yield	<b>6-8% cash yield (Yr 3+)</b>	ESG standard	<b>IFC Performance Standards</b>
First close	<b>[Q2 2028]</b>	WACC	<b>6.6%</b>	Impact target	<b>5.7M tCO<sub>2</sub> avoided / yr</b>

## KEY PROVISIONS

<b>Key person</b> Fund suspends if 2+ key persons depart without LP consent	<b>LPAC</b> ≥ 3 institutional LPs; approves conflicts & valuations	<b>Clawback</b> Full GP clawback on carry at fund wind-down	<b>Co-invest</b> Pro-rata rights for LPs ≥ \$25M on deals > 25% NAV	<b>Reporting</b> Quarterly NAV; annual IFRS audit; TCFD-aligned impact
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# Fund Deployment Timeline

4-year disbursement period | 12-year model horizon



# Key Stakeholders

## REGULATORY

- **MPA Singapore**  
MSGI green ship incentives · CII enforcement · corridor lead
- **IMO**  
CII / EEXI global framework · MARPOL Annex VI · net-zero 2050
- **China Maritime Safety Admin.**  
Port-state inspections · emission control areas · Shanghai
- **Shanghai Municipal Transport**  
Local port regulation · green corridor MoU signatory

## VERIFICATION & CLASSIFICATION

- **DNV**  
Green corridor feasibility · CII rating audits · class cert.
- **RightShip**  
GHG rating platform · vessel vetting for charterers
- **Lloyd's Register**  
Technical verification · alternative fuel safety approvals
- **Port State Control**  
Flag state enforcement · inspection authority

## PORT AUTHORITIES

- **PSA Singapore**  
World's 2nd largest port · shore power · bunkering hub
- **Jurong Port**  
Alternative fuel bunkering · LNG / methanol pilot hub
- **Shanghai Int'l Port Group**  
World's largest port · zero-emission refuelling target 2030
- **Yangshan Deep-Water Port**  
Key bunkering location · green fuel infrastructure

## MID-SIZED SHIPPING COMPANIES - CORRIDOR SIGNATORIES

- **Pacific Basin Shipping**  
Asia dry bulk · 200+ vessels · CII compliance pressure
- **Wan Hai Lines**  
Intra-Asia container specialist · Singapore - Shanghai route
- **Swire Shipping**  
South-East Asia focus · active sustainability commitments
- **Thoresen Thai Agencies**  
SE Asia dry bulk · retrofit candidate fleet

## DEMAND-SIDE & KNOWLEDGE PARTNERS

- **Amazon / IKEA (Scope 3)**  
coZEV signatories · zero-emission ocean freight by 2040
- **Charterers & cargo owners**  
Prefer CII A/B rated vessels · green premium willingness
- **Export credit agencies**  
UK Export Finance · ECIC · green-linked trade finance
- **Getting to Zero Coalition / TERI**  
Technical advisory · corridor design · R&D

# Policy and Regulatory Environment for Green Shipping

## Singapore–China Green & Digital Shipping Corridor

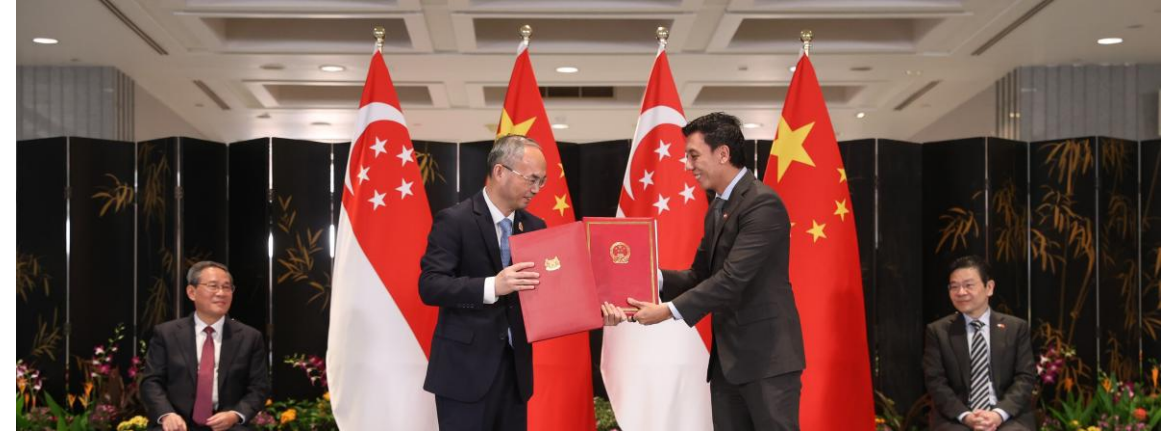
- Bilateral framework aligning Singapore and China on maritime decarbonization and digitalization, building on existing port-level initiatives
- Public–private platform to coordinate development of fuel infrastructure, technologies, and common standards across the value chain
- Integrated approach combining alternative fuels, port efficiency, and digital solutions to improve resilience and emissions performance

## Maritime Singapore Decarbonization Blueprint (2050)

- National strategy (MPA, 2022) aligned with IMO, Paris Agreement, and UN SDGs, targeting net-zero maritime emissions by 2050
- Comprehensive scope across ports, harbour craft, future fuels & bunkering, ship incentives, regulation, R&D, and green finance
- Clear transition pathway:
  - Port terminals: –60% emissions by 2030 → net zero by 2050
  - Harbour craft: full shift to low/zero-carbon fuels
  - Deployment of multi-fuel bunkering (methanol, ammonia, hydrogen)

## Clydebank Declaration (COP26)

- 20+ countries committed to establishing green shipping corridors by 2030
- Focus on zero-emission routes between major ports
- Encourages collaboration across governments and industries



# Impact Metrics

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## SUSTAINABILITY METRICS:



**Metric 1:** Total CO<sub>2</sub> reduced across East/South Asian corridors (baseline: 250K tons/port as of 2024)



**Metric 2:** : % of financed fleet achieving CII "A" or "B" rating (baseline: 36% of ships currently rated A-B)



**Metric 3:** : Volume of alternative marine fuels supplied at participating ports (baseline: <5% of marine fuels are alternative)

**5,500 estimated annual deaths avoided**

*(range: 3,000–8,000)*

Based on:

- 265,000 global shipping-related deaths (baseline)
- 8.5% corridor exposure
- 25% average emissions reduction across vessel activity