



Trade outlook in the Black Sea and looking into increasing cargo traffic flow for ports

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Current:

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Past:

Drewry (%)







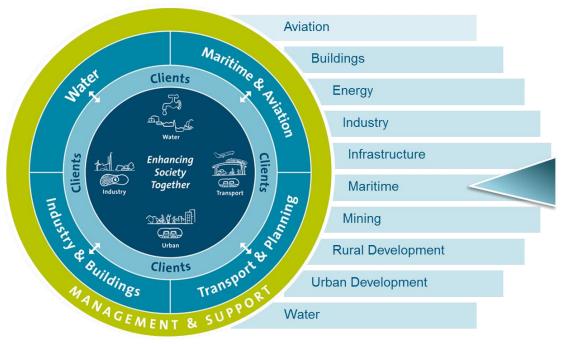
Ocean Shipping Consultants (OSC) is the maritime economic consultancy group of Royal HaskoningDHV, and a leading brand in the maritime sector with more than 35-years of experience



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Our 6,000 colleagues, spread over 150 countries are committed to our promise to enhance society together. We combine global expertise with local knowledge to deliver a multidisciplinary range of consultancy services for the entire living environment.



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With over 350 projects in more than 65 countries successfully completed over the last 5 years, OSC provides global bespoke consultancy services from offices in London, Amsterdam, Dubai

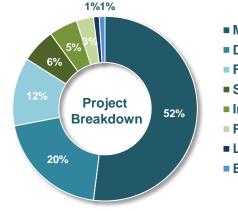
and Singapore to more than 200 different clients, including port authorities, terminal operating companies, governments, shipping lines, logistics operators and the wider financial community.

Our service portfolio covers three different areas:



These range of services are undertaken for all cargo types and sectors ensuring that clients are able to make appropriate, well informed decisions at all times.

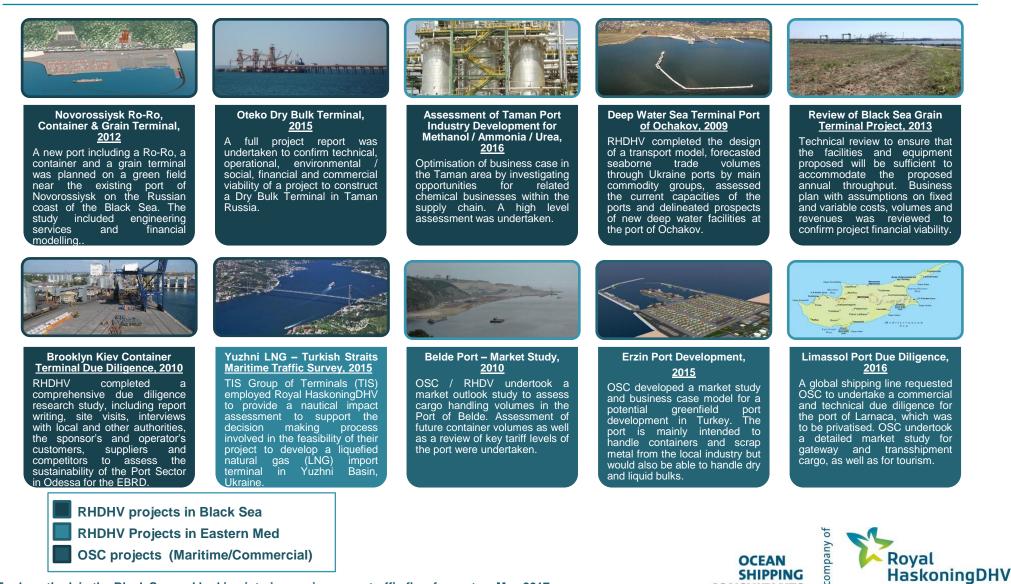
OCEAN



- Market Study
- Due Diligence
- Feasibility Study
- Strategy
- Investment Services
- Publication
- Logistic Study
- Benchmark / Operations



Examples of RHDHV projects in Black Sea / Eastern Mediterranean



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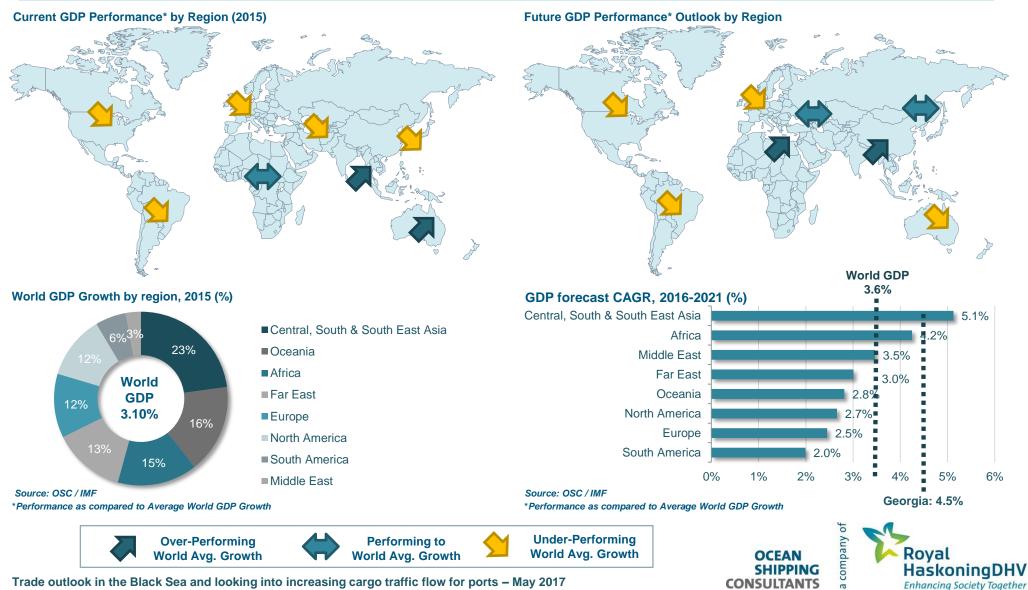
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Global Economic Outlook & the Container Shipping Sector

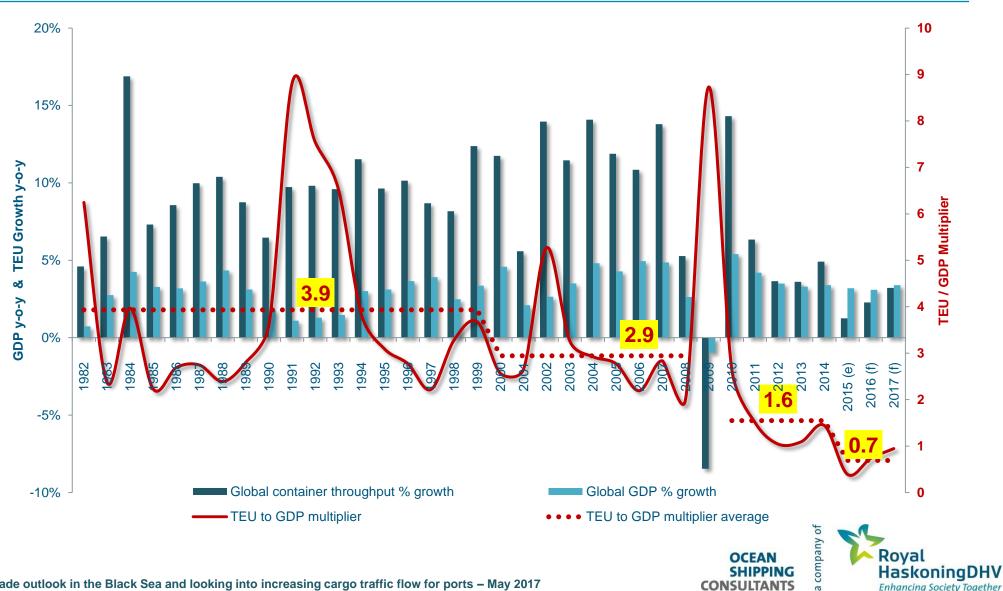


The economies of Central, South and South East Asia, and Africa are expected to out perform other regional economies in the near future.



Global Economic Outlook & the Container Shipping Sector

The declines in the container volume growth is putting pressure on Shipping Lines.



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The declining TEU/GDP multiplier is driven by underlying changes in the market. For shipping lines and ports, this means lower TEU demand than in past years.

Less offshoring, more reshoring:

- •Offshoring to lower-cost countries is a onetime effect
- Increased reshoring

Plateauing in the levels of containerization:

- •Most commodities suitable for containerized transportation have already been migrated to containers
- ·Increasing trend toward miniaturization of manufactured goods
- ·Significant additional containerization jumps are not likely

Improvement of port facilities:

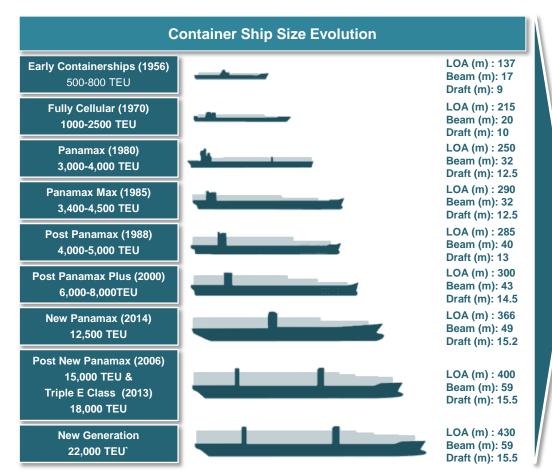
- •Ports can be part of main line services
- Less transhipment volume

Unfavourable trade-growth dynamics:

·Chinese economy shifts toward domestic consumption



Driven by market share & economies of scale, the ship size revolution has continued, but savings are decreasing



Source: OSC, Alphaliner

Effect of Container Shipping Market

Cascading Effect

- Replaced vessels are downsized to other Secondary and Tertiary trade lanes
- Larger container volume exchanges resulted in the port call frequency to drop

Impact on Alliances

 Formation of fewer, larger alliances in an effort to maximise vessel utilisation



Ship sizes: Container vessel capacity has increased while dimensions (400m by 59m) remain largely unchanged.

2006 - E-Class Maersk 14,770 TEU, 397m long, 56m beam (22 rows) 2013 – Triple E-Class Maersk 18,000 TEU, 400m long, 59m beam (23 rows) **2017 - Madrid Maersk** 20,568 TEU, 400m long, 59m beam (23 rows)



- Ports around the world were sized to accommodate the E class Maersk by providing 16m of draft.
- Cranes were upgraded to 22 rows



- Cranes were extended to 23
 rows
- No change required for berth or channel drafts



- Only possible with deepening of hull.
- MOL Triumph (20,105 TEU) stacked 8 high on deck
- OOCL 21,100 TEU pending



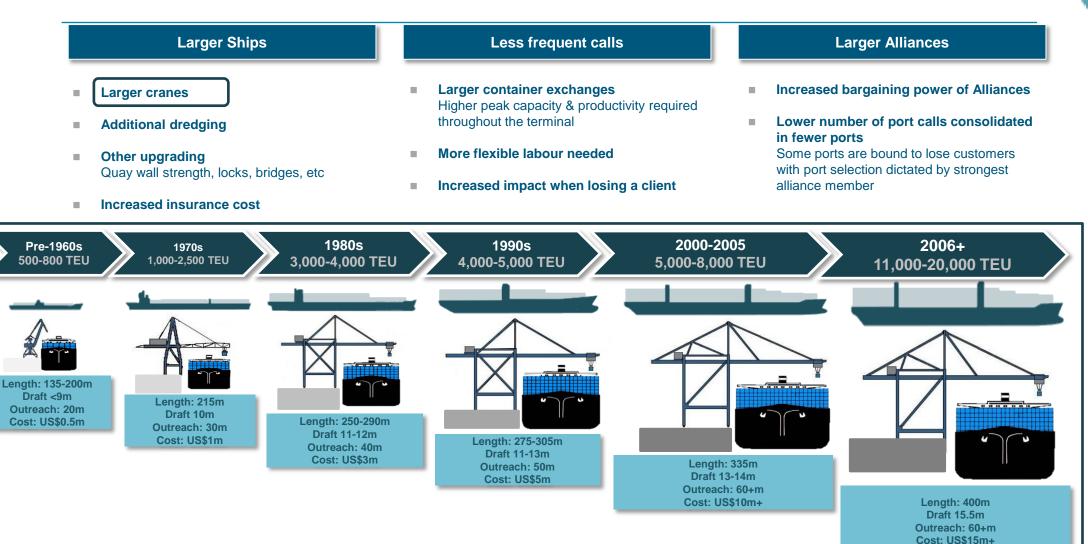
Complete reshape of shipping alliances and acquisitions in 2017.



Container shipping alliances in 2017 Source: OSC



Costs are rapidly increasing for terminals due to larger ships, less frequent calls and larger alliances.



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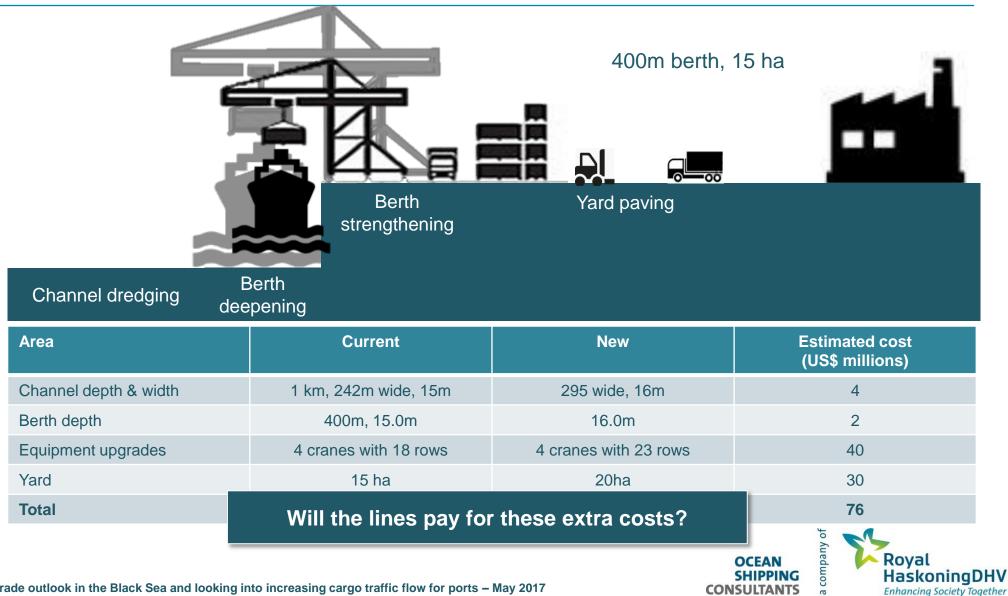
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The increase in vessel sizes has resulted in port authorities and terminal operators incurring capital expenditure to upgrade their facilities.



Global Economic Outlook & the Container Shipping Sector

Port operators have responded by slowing or canceling greenfield terminal projects, forming alliances, partnering with shipping lines, or acquiring/merging with competitors.

Slowing or canceling greenfield terminal projects

•Total number of greenfield terminal projects has fallen by almost half compared to 10 years ago

Alliance & Partnerships

•Conference agreement between Port of Miami Terminal Operating Company (Pomtoc) and South Florida Container Terminal (SFCT) •Co-management Agreement Between COSCO Shipping Ports and Hutchison Port Holdings of several terminal in Hong-Kong

Mergers & Acquisitions

•APM Terminals acquired Grup TCB

- •COSCO SHIPPING Ports acquire 40% interest in the Vado Terminals in Italy
- •COSCO SHIPPING Ports acquire 35% interest in Euromax Terminal in Rotterdam
- •COSCO SHIPPING Ports increase its stake in Qingdao Port International (QPI) to 18.41%
- •DP World acquired an additional 23.94% stake in Pusan Newport Company (PNC) in South Korea
- •DP World creating an investment fund with Caisse de dépôt et placement du Québec (55/45) to jointly invest in ports and terminals

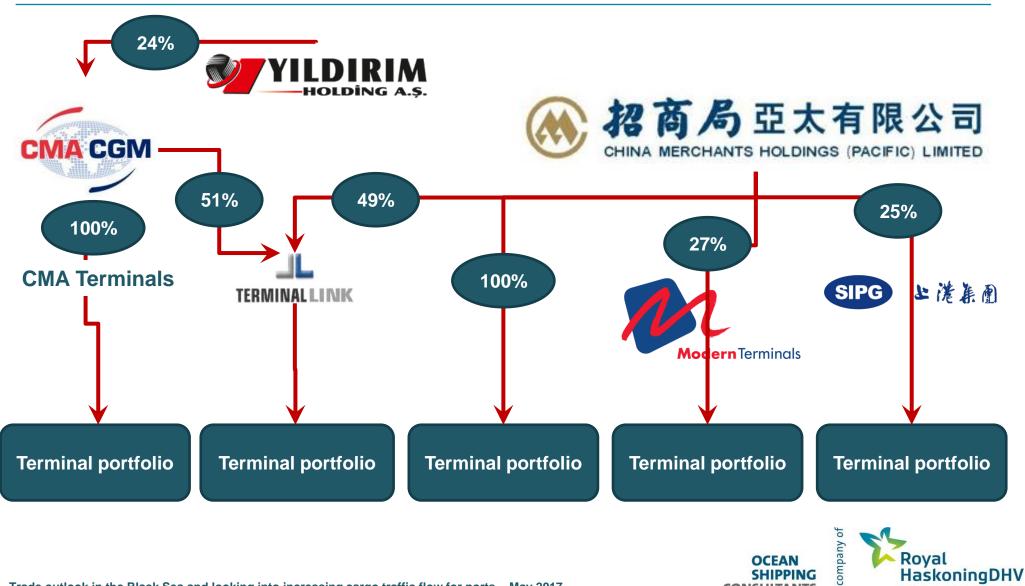
Joint venture deals with shipping lines

- •CMA CGM and PSA create a container terminal joint venture in Singapore
- •COSCO Shipping and PSA create a container terminal joint venture in Singapore
- •MSC and PSA create container terminal in Antwerp



Global Economic Outlook & the Container Shipping Sector

Terminal Operator ownership complexity



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256,000 **CMA** CGM Odessa HHLA 0 Chornomorsk 30,000 Former NCC shareholders 476,000 575,000 Novorossiysk NCSP, NUTEP **DP WORLD** £ Constantza 1,847,000 139,000 /arna A ARKAS 325,000 APM TERMINALS 665,000 SHIPPING Batumi 291,000 55.000 ዂ 招商局 亞太有限公司 Samsun 55,000 Kumport Mardas Marport Aumpor **Mardas** Marport

Black Sea ports and volumes

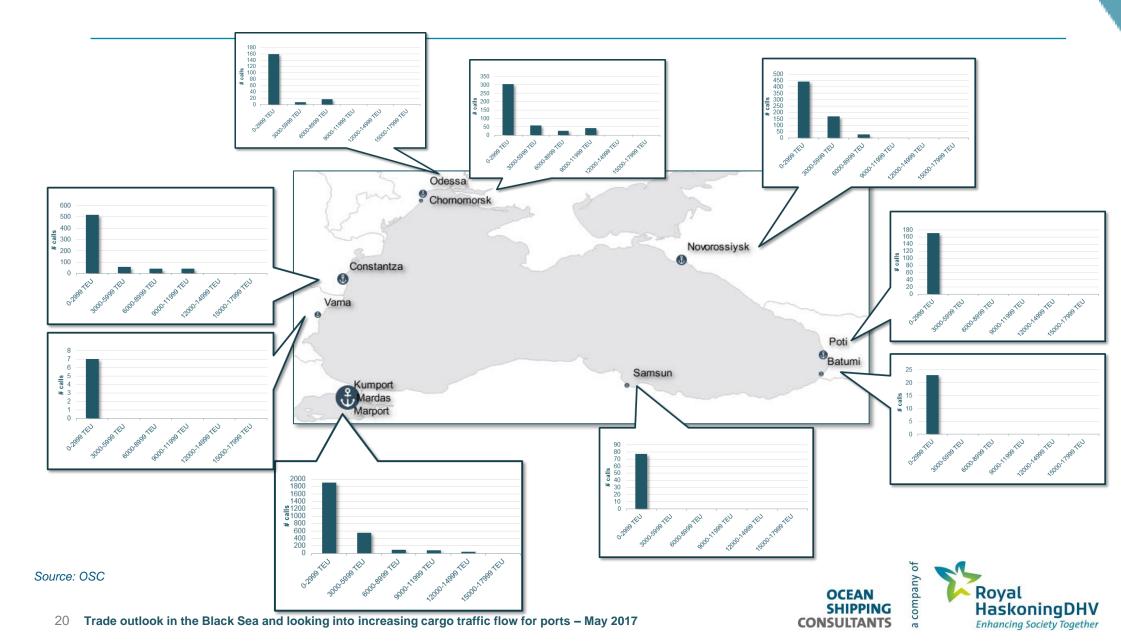
Main container ports in the Black Sea Region

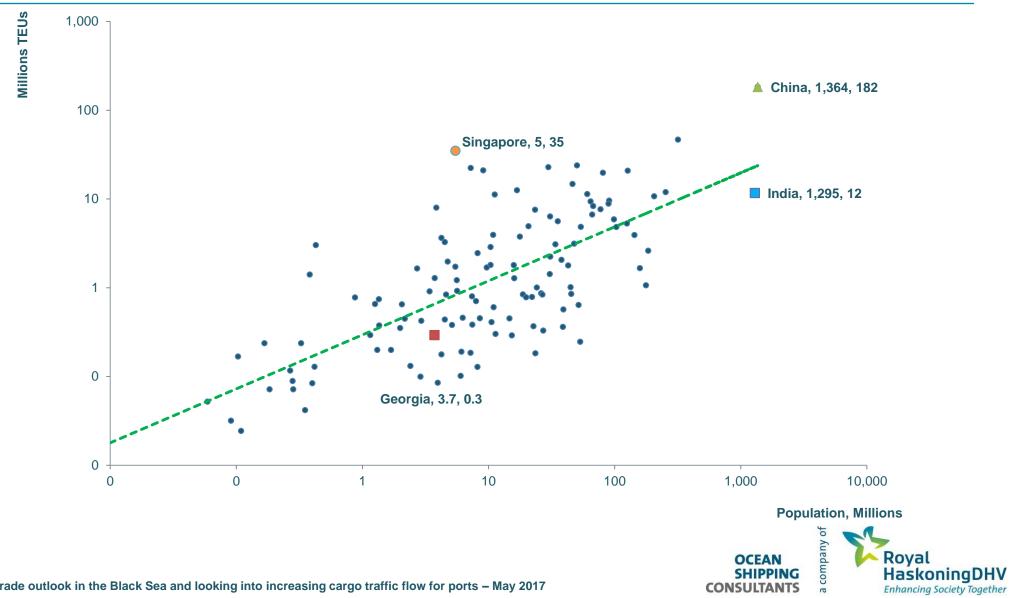
Source: OSC





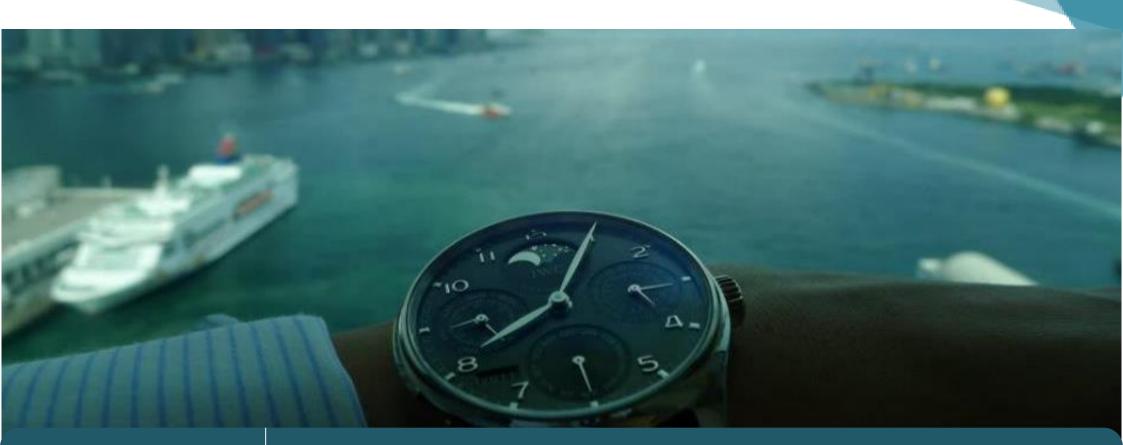
Port calls by container ships capacity in the Black Sea in 2016





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Container volumes vs population

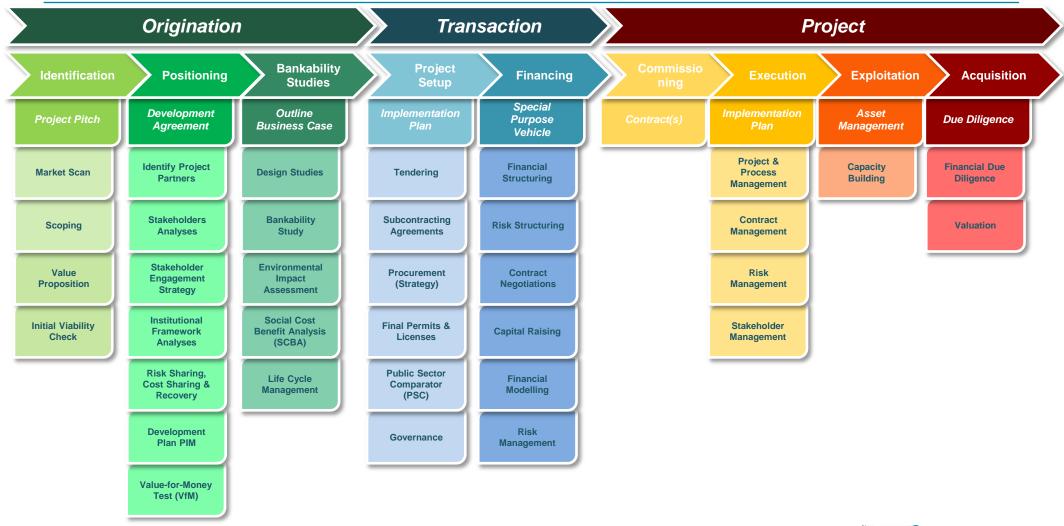


Port investment process



Port investment process

Port investment process: Origination, Transaction, Project





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