



Port Investment Opportunities in Iran 14th Trans Middle East 2017

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Royal HaskoningDHV: 60+ years experience with Iranian based projects. Working alongside Iranians to meet their needs and goals.



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Enhancing Society Together

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



Royal HaskoningDHV has been making a world of difference in people's lives since 1881. As an independent international engineering and project management consultancy,

we have been working with clients to successfully deliver projects which contribute to improving living circumstances around the world for 135 years.

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.



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



Examples of RHDHV projects in Iran and worldwide



Shahid Rajaee Port Development

RHDHV has been involved from the start (Phase I) up to now (Phase III) covering design review of the entire port infrastructure, construction supervision and port planning.



Kharg Island Gas and NGL Feasibility Study The work comprised the collection and analysis of meteorological, geologic and hydraulic environmental conditions as boundary conditions for the design of the port lay-out. Different port layouts were developed.



Due Diligence Limassol Port A global shipping line requested OSC to undertake a commercial and technical due diligence for the port of Larnaca, which was to be privatised.



Callao Northern Multipurpose Terminal Modernisation Royal HaskoningDHV was appointed by APMCT to develop the Master plan for the modernisation and to carry out detailed design for Phases 1 and 2.



Takoradi Port Development

OSC was approached to provide a high-level financial feasibility analysis for a potential multi-berth terminal within the Port of Takoradi, Ghana.





RHDHV projects in Iran

Other RHDHV projects (Maritime)

OSC projects (Maritime/Commercial)

Introduction

Iranian Container Market overview

Iranian Automotive Market overview

Trends in Container Shipping and Challenges for Ports Trends in Automotive Shipping and Challenges for Ports





Middle Eastern Container Market & Port Investment Opportunities in Iran



United Arab Emirates continues to dominate the Middle Eastern region for container flows handling volumes over three times larger than the next closest competitor.





Bandar Abbas remains the dominant port within Iran. Port



| Port | 2011 | 2012 | 2013 | 2014 | 2015 |
|-------------------------|-----------|-----------|-----------|-----------|-----------|
| Shahid Rajaee | 2,751,823 | 2,261,333 | 1,796,862 | 1,766,645 | 1,703,449 |
| Bushehr | 232,979 | 196,891 | 186,907 | 278,140 | 218,095 |
| Bandar Imam Khomeini | 146,851 | 161,419 | 143,254 | 172,843 | 127,870 |
| Khorramshahr | 103,028 | 84,827 | 56,004 | 89,375 | 64,343 |
| Chabahar | 29,009 | 23,528 | 13,809 | 37,478 | 33,585 |
| Gheshm | 0 | 0 | 8,026 | 20,417 | 15,520 |
| All Other Ports | 8,491 | 11,285 | 12,824 | 17,091 | 17,940 |
| TOTAL | 3,272,181 | 2,739,283 | 2,218,202 | 2,382,870 | 2,183,610 |





* All volumes in TEU

Source: PMO

Container handling volumes for Iran are less than they could be, when compared to other nations of similar size.

Countries of similar population

Similar countries are handling volumes between 7.5 - 9.5 million TEU p.a.

Countries of similar GDP per Capita

> Also on a basis of GDP/capita Iran has relatively low volumes









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.





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



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Source: OSC, IMF

-10%

-5%

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



Source: OSC, Alphaliner

... while costs are rapidly increasing for terminals.





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



4 cranes with 23 rows

20ha



4 cranes with 18 rows

15 ha



40

30

76.8

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Equipment upgrades

Yard paving

Total



Vehicle Terminal opportunities in Iran



Iranian Automotive market overview

Effect of Sanctions

- > Iran was the region's largest carmaker
- > Sanctions had a negative effect of Sales and Production
- Import volumes tumbled due to the weak currency and exports were affected by lack of quality
- Local brands strengthened market share and Chinese carmakers replaced western carmakers

Vision 2025

- > Still Iran's 2nd largest industry
- Young population (>50% younger than 25 years)
- Car ownership at approx. 170/1,000 people
- Government targets production of 3 mio vehicles by 2025 (local content requirements, import tariffs, import restrictions etc)
 - 2 mio for local market
 - 1 mio for export

Medium term trade potential

- Insufficient financing opportunities
- Consensus that production of 2 mio is more realistic
- Target export markets are the same markets that Chinese JV partners are targeting (Iraq, Russia, Syria, Venezuela...)





Long term trade potential

Clients want choice!!!



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Global Vehicle volumes follow a similar trend as Container volumes, but growth is slower ... and slowing





Note: Seaborne vehicle volumes used as a proxy for Global Vehicle Port volumes (OK due to limited transshipment volumes)



Population:

Abt. 6.5bn!!!

Population:

Abt. 1bn

Growth now relies on emerging economies

- Sales are relatively stable in most developed countries and production is relatively well spread amongst most of these regions
- Substantial demand growth seen in emerging economies and this is attracting carmakers to set up plants in new locations (localisation)
 - > E.g. Russia, Brazil, Mexico

 As a result, sales and production volumes in emerging economies has now overtaken those of developed countries



... and this is where further growth will continue to come from



- Car ownership per 1,000 people is around 550-600 in most developed countries
- ... so there is still substantial growth potential in emerging countries,
- despite demand (growth) threatened by:
 - Inadequate infrastructure

- new technologies (e.g.autonomous driving)
- environmental regulations
 (e.g. Chinese car ownership restrictions)



So new trade lanes are emerging and growing fast, requiring direct calls



2010: 13.6 mio vehicles

- The global top-20 vehicle ports remained largely the same, dominated by European, Korean and Japanese ports
- Volumes in the current Top-20 ports has increased 17% since 2008
- But the number of ports that require direct calls by Car Carriers has boomed
 - > Volumes up by 17% in Top-20 port between 2008-2015
 - > Number of ports handing 50,000+ vehicles p.a. increased by 30%



- Approx. 20% of global vehicle sales is shipped (seaborne)
- The share of East-West trade seaborne volumes (between Japan, S. Korea, EU and US) decreased from 55% in 2000 to approx. 25% in 2010:
 - Trade imbalances decreased

- Emergence of new intra-regional trade (SE Asia, Latin America, NAFTA)
- Increasing volumes on north-south routes
- Limited transhipment opportunities



Car Carriers have not increased as much in terms of capacity as Container ships ... and even less in terms of dimensions







Helios Highway (2015) 7,500 ceu Post-Panamax Length 200m / Beam 35.4m Draft 10.6m

time in non manual

So the implications of changing trades to Car Terminal Operators are limited









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