

Accelerating Iran's maritime trade and economic growth







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Introducing Roland Berger





Roland Berger is a leading global strategy firm with successful operations in all major international markets

Our global presence





We have deep experience and expertise in supporting ports and maritime sector development around the world

Selected Roland Berger clients in ports and shipping





Our maritime practice, among others, supports Governments, port authorities and port and terminal operators across the world

Our port sector service offerings







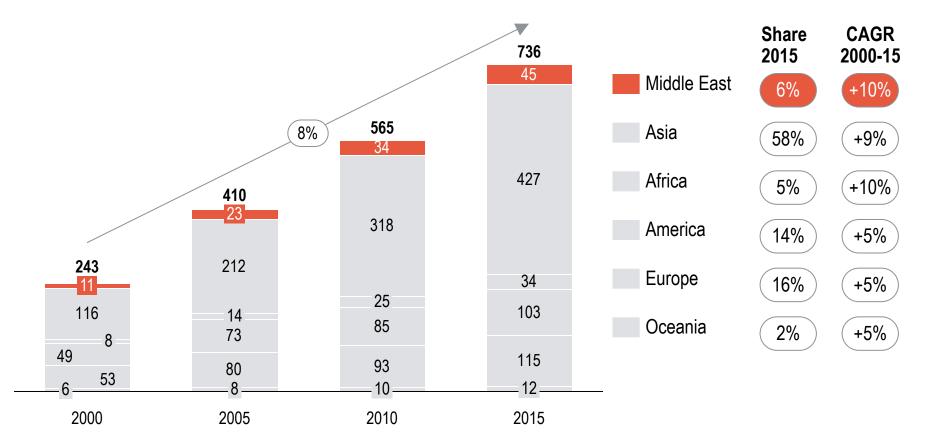
Regional maritime developments





Trade in the Middle East has been and is growing at a rate that is above the world average

Global container trade [2000-2015, TEUm]

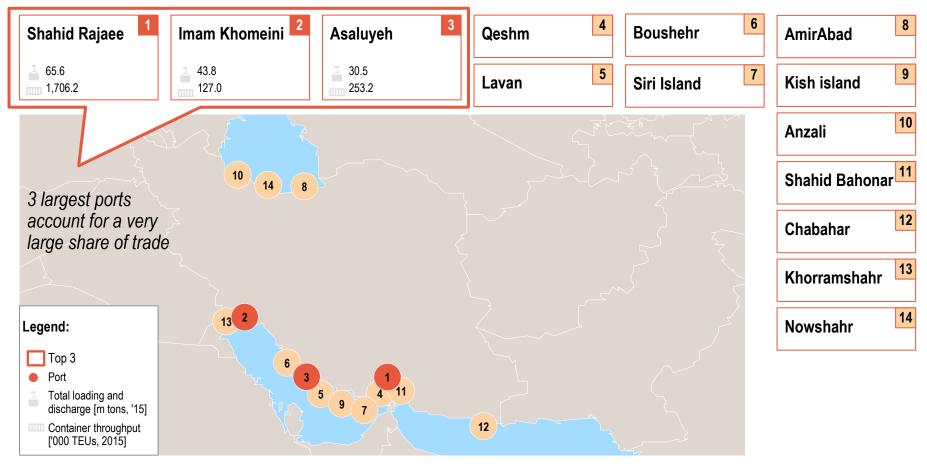


Source: UNCTAD, Roland Berger



Iran has a strategic location, that can be leveraged by its ports visà-vis the Gulf region, Central Asia and beyond

Overview of key ports¹⁾ in Iran



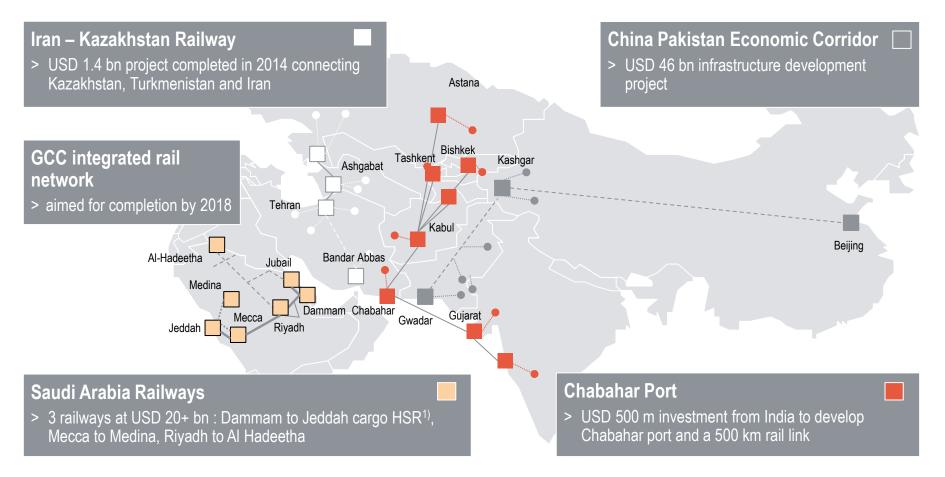
1) Many other smaller ports are not included in this map

Source: PMO, Roland Berger



Rapid expansion of transport infra in corridors around the Gulf region means "hinterland-expansion" opportunities for some ports

New regional transport infra initiatives



Source: Railway gazette, MENA Railway Post, Economic Times India, Financial Times, Wall Street Journal, Xinhua, Roland Berger



Ports as engines of growth





An integrated approach to port development strategy formulation is required in order to maximize its economic impact

Developing ports as real economic "engines of growth"



Key challenges

- > Which is the best port management model, taking local and regional factors into account?
- > How to attract investors and industries that sustain port business?
- > What is the best way to finance port (re-) development?
- > How to manage and integrate ports, inland infrastructure, industry, transport systems, logistics?
- > What are the best development locations?
- > How to do port master planning?
- > How to ensure and improve port performance?

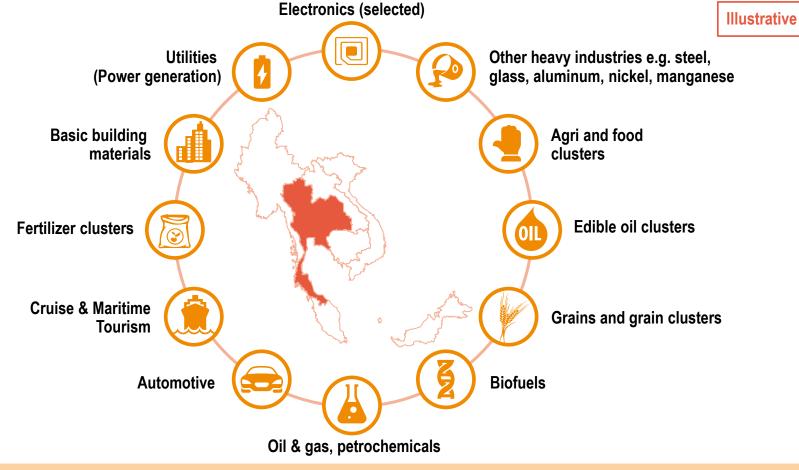


To stimulate maritime trade and economic development, at least 5 strategies can be adopted for ports to become engines for growth

Port development strategies Industrial engine of growth	Description Develop & attract "heavy" industries that are directly port-dependent (steel mills, refineries, smelters etc.)	Rotterdam	Tanger	Singapore
Major logistics hub	Provision of full logistics services (storage, packaging, 3PL, 4PL) to optimize global supply chains	\checkmark	X	\checkmark
Transshipment trade development	Global hub for transfer of goods en route between origin & destination	\checkmark	\checkmark	\checkmark
Pro-active expansion of regional hinterland	Gateway for export & imports for region rather than home country = transit trade development	1	1	\checkmark



Ports that adopt the "engine of growth" concept, typically design specific strategies for developing port-dependent industrial clusters



Typical port-dependent industries, requiring close proximity to port / berth facilities



Port of Rotterdam's vision and development is geared towards fostering economic prosperity to the country AND the region

Overview of Port Rotterdam

Port Vision 2030 Port of Rotterdam layout Port of Rotterdam Petroleumhaven, Merwehaven, Maasvlakte 2 Europoort Old habour Waalhaven Port Vision 2030 > Container transfer > Heavy industry > Cold storage warehousing > Tourism (Chemicals, steel, > Chemicals > Inland distribution centers automotive) industry **Europe's Industrial Global Hub Vision** > Warehousing **Cluster Vision** > Seaport distribution Port of Rotterdam **FUROPE - ROW** > The Port Vision is underlined by 2 strategic visions > Implemented through the layout of the Port Old trade areas Maasvlakte **Botlek** Eemhaven > 5.3 bn Eur VA of industrial cluster since launch in 2011 > Container handling > Heavy industry > Cold storage > Tourism

> Inland distribution center

> Toxic waste dumping

> Power stations

(Chemicals, steel,

> Construction (Ro-Ro and

automotive)

project cargo)

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warehousing

centers

> Inland distribution

> Container handling

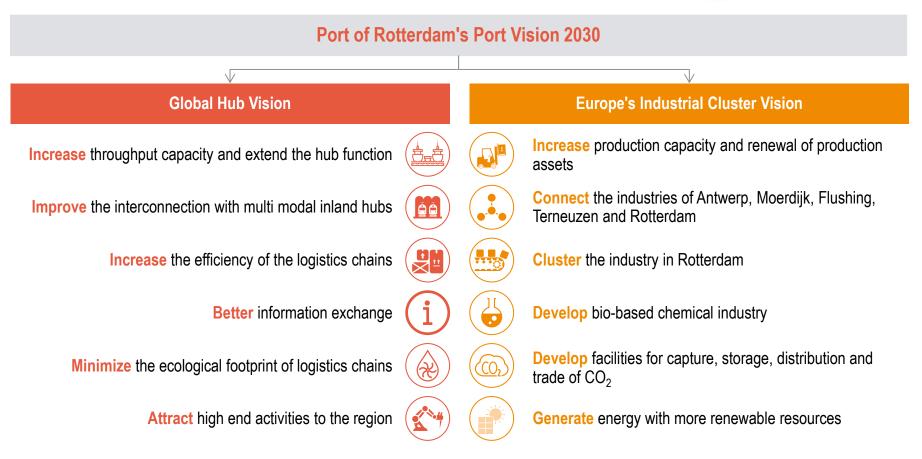
Port of Rotterdam



The Port of Rotterdam has a wide set of actions and tasks clearly mapped out in order to achieve its ambition by 2030

Port of Rotterdam implementation agenda







Engines of growth opportunities in Iran

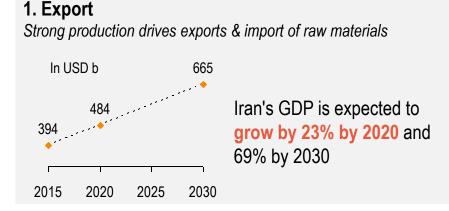






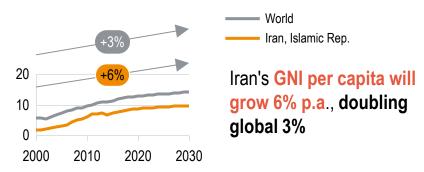
Lifting of sanctions, expanding connectivity, growing consumption and production provide the conditions to accelerate industrial development

Growing port throughput demand



2. Import

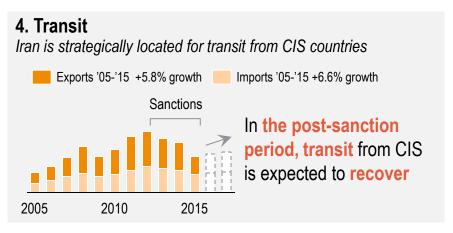
Income & spending is a strong driver for imports



3. Transshipment Global trade increases transshipment

Global seaborne trade surpassed 10 billion MT for the first time in 2016

Shahid Rajaee Port is strategically located and has the potential to capture a higher transshipment share

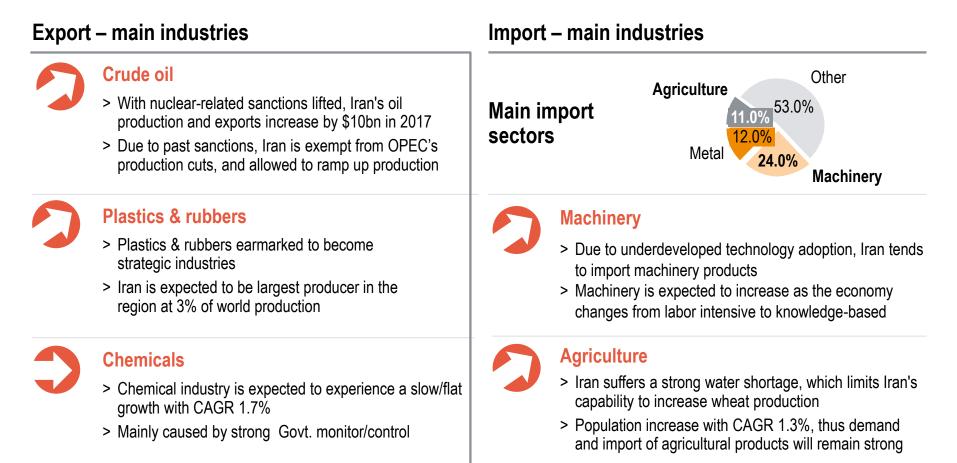


Source: UNCTAD, Oxford Economics, Euromonitor, Worldbank, Roland Berger analysis



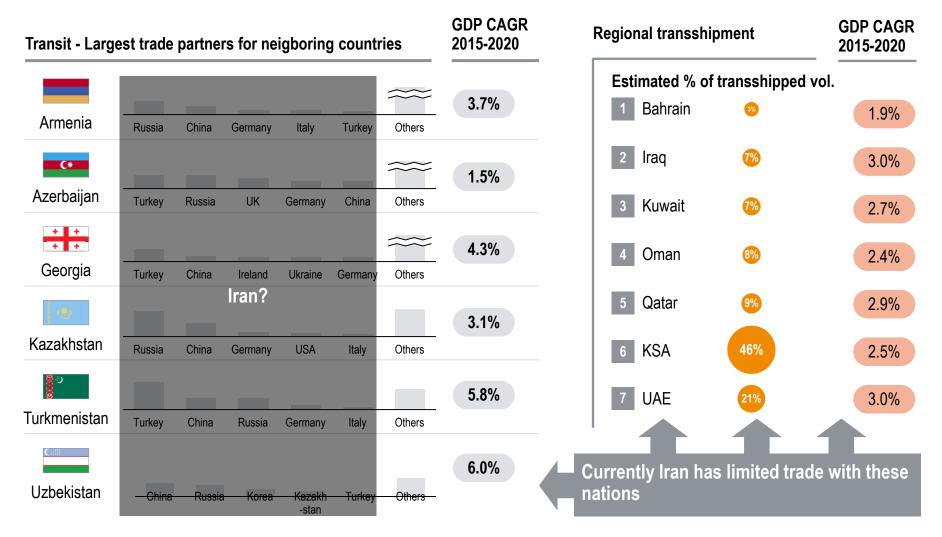
Expected growth in import and export provide the basis for adoption of some/more/all of the 5 potential development strategies

Sample growth drivers





There is now a clear opportunity for Iran to expand its port business in both the transit trade and the transshipment trade





Shahid Rajaee has all the ingredients for becoming an "engine of growth" - Rotterdam-style





In summary, lessons can be learnt from leading ports that continue to grow and expand as result of smart development planning

Key lessons from leading ports

- 1 Leverage strategic geographical positioning and develop strong hinterland connectivity in order to become regional gateways
- 2 Integrate industrial cluster approach to attract industrial and economic development linked to berthing areas within the port
- 3 Create a **best-in-class transshipment hub** via operational excellence, & strengthening of logistics and industrial ecosystem
- 4 Create a **world-class logistics hub** via fully integrated multimodal logistics platforms coupled with technological innovation
- 5 Develop strong **environmental and community engagement** to ensure deep support for port development across the community





Please feel free to contact us for further information



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