

HELLENIC REPUBLIC ASSET DEVELOPMENT FUND

10 Port Authorities

January 2019

Infrastructure

10 Regional Ports



HELLENIC REPUBLIC ASSET
DEVELOPMENT FUND

Multi-purpose

- Heraklion
- Volos
- Lavrio

Cargo & Bulk

- Elefsina
- Kavala
- Patra
- Alexandroupolis

Cruise Passenger

- Corfu

Ferry/Coastal Passenger

- Kavala
- Patra
- Alexandroupolis
- Corfu
- Igoumenitsa
- Rafina



- Alexandroupolis port is located in north-eastern Greece (Thrace region), close to Turkey and Bulgaria
- Potential Container Terminal yard completed; partial operation with special types of project cargo (wind turbines, TAP pipelines etc.)
- The port serves cargo (general cargo, dry bulk) as well as passengers (coastal shipping) with permanent ferry connection to Samothraki island and seasonal connection to Lavrio (passenger terminal)
- Alexandroupolis, Kavala, Varna and Burgas ports have completed studies of “SEA2SEA Program” for upgrading the rail infrastructure between them
- The TAP gas pipeline is passing by close to the port; the construction of an offshore gas import facility, to be connected to the TAP pipeline, is expected

Operational		
	General Cargo	Dry Bulk
Drivers/Demands	Local economy	Local economy
Volume Handled (2017)	30,000 Tons	120,000 Tons
Main commodities	Project cargo, building materials	Cereals, fertilizer
Storage facilities	None (within concession area)	
Major equipment	Mobile crane 40TN, forklifts	

Infrastructure data		
Piers	New Container Terminal & Ro-Ro Quays	Unpaved Land & Reclamation Areas
Quay length	~ 780m	Future potential quay ~ 650m
Water depth	~ -9.50m (estimated)*	-----
Usable Area	~120,000m ²	~ 545,000m ²
Rail Connection	Rail connection to the national network	
Road Connection	Road access through the city to EGNATIA Motorway (5km)	

* The container quay is constructed to -13.70m. The Ro-Ro quay is constructed to -11.20m



- Filippos II Port is located in northern Greece (East Macedonia and Thrace region)
- Main commodity is marble, as general cargo and dry bulk
- Filippos II: Construction of a 220m long detached breakwater completed; extension of quays and open usable area by 515m and 167,000m² respectively under construction
- Kavala, Alexandroupolis, Varna and Burgas ports have completed studies of “SEA2SEA Program” for upgrading the rail infrastructure between them

Operational		
	General Cargo	Dry Bulk
Drivers/Demands	Local –Regional economy	Local – Regional economy
Volume Handled (2017)	140,000 Tons	450,000 Tons
Main commodities	Marble	Marble chips, cereals, fertilizer
Storage facilities	None (within concession area)	
Major equipment	2 Mobile cranes (100TN, 36TN), forklifts	

Infrastructure data		
Piers	Existing	Under construction
Quay length	405m	515m
Water depth	~ -12.00m	~ -9.00m to ~ -12.00m
Usable Area	~77,000m ²	~ 165,000m ²
Rail Connection	No (a rail connection is planned to be constructed in the future)	
Road Connection	Filippos II Port is directly connected to EGNATIA Motorway	

- The port of Igoumenitsa is located in northwestern Greece (Ionian Sea)
- It occupies a total area of 210 hectares; 130 hectares are port area, 80 hectares have been attributed to road construction, parking areas of private cars and trucks, refuelling station etc
- Development of a logistics centre at 15km distance next to EGNATIA has been planned
- Terminal T2 of total area 3,041.46m² currently in use
- Provides 17 stern-to-berths with the ability of simultaneous mooring up to 7 ships and adequate land space
- International and domestic ferry and Ro-Ro traffic (Greece-Italy and Igoumenitsa-Corfu); the port is part of TEN-T core Network

Operational	
International Ferry and Ro-Ro	
Drivers/Demands	<ul style="list-style-type: none"> • Tourism • EGNATIA Motorway • Greek economy and economic policy • Italian / Central EU economy and economic policy
Volume Handled (2017)	2.7MM Pax / 0.9MM Vehicles
Ferry / Ro-Ro destinations	Brindisi, Bari, Ancona (all year); Ravenna, Trieste (seasonal)

Infrastructure data		
Piers	Existing International Lines	Under construction
Quay length	~ 1,230m	~ 760m
Water depth	~ -10.50m	~ -10.20m
Usable Area	~193,000m ²	~ 145,000m ²
Rail Connection	No	
Road Connection	The Port is directly connected to EGNATIA Motorway	

- Corfu port is located in Corfu island in the Ionian Sea
- Cruise traffic destination (406 calls in 2017); well-established cruise destination (UNESCO heritage site)
- Domestic ferry traffic (Igoumenitsa-Corfu) and international ferry traffic (Greece-Italy & Greece-Albania)
- New domestic ferry terminal completed; extension of cruise pier completed

Operational	
Cruise	
Drivers/Demands	<ul style="list-style-type: none"> • Tourism • Cruise sector trends
Volume Handled (2017)	0.75MM Pax
Largest clients	Costa, MSC

Infrastructure data	
Piers	Cruise and International Lines
Quay length	~ 2,160m
Water depth	~ -7.00m to ~ -11.00m
Usable Area	~43,000m ²
Rail Connection	No
Road Connection	Local roads; via Igoumenitsa to EGNATIA Motorway

- Volos port is located at the Gulf of Pagasitikos (central-eastern Greek mainland)
- Containers, General cargo and dry bulk traffic (mainly scrap and grains)
- Ferry connections to Sporades islands
- Yacht Mooring: 204 berths (100% utilised in 2017)
- Second phase of the Master Plan not completed; no major expansion works for third quay under way
- Cruise services
- A 5,500m² new Passengers' Terminal – first floor of the building is leased. Ground floor planned to be leased in 2018

Operational					
	Container	General Cargo	Dry Bulk	Ferry	Cruise
Drivers/ Demands	• Local economy	• Local economy	• Local economy	• Islands Population • Tourism • Greek economy	• Tourism • Cruise sector trends
Volume Handled (2016)	24,822 TEU	0.28 MM tons	0.58 MM tons	0.33 MM Pax/0.055MM Vehicles	0.0075 MM pax
Installed Capacity	41,000 TEU(E)	0.52 MM tons(E)	0.70 MM tons(E)	N/A	N/A
Utilization level (%)	60%(E)	54%(E)	83%(E)	N/A	N/A
Rail Connection	Rail connection from first quay to the national network not used since 2004 Railway connection to piers 2 & 3 expected to be signed by respective authorities				
Road Connection	Road connection to Athens-Thessaloniki Motorway				

Infrastructure data					
Piers	Same quays as				
Quay Length	413m	for Dry Bulk and	994m	333m	380m
Water Depth	-11.00m	Containers	-11.00m	-7.00 to -11.00m	-11.00m
Usable Area	37,000m ²	70,000m ²			
Major Equipment	10 Harbour Cranes, 4 non-operational				

- Elefsina port is located in the Attica region and is mostly serving the Attica region
- Cargo throughput is facilitated using a 50 acres land surface
- Mechanical equipment of the port for cargo loading/unloading includes three propelled cranes with a lifting capacity up to 45 tons
- Two marinas with a capacity to accommodate up to 100 yachts, and fishing harbour having a capacity of approx. 70 fishing boats also under the jurisdiction of the Elefsina Port Authority
- Future plans for port relocation to the western end of port zone; location with very good road and rail connection possibilities

Operational			
	General Cargo	Dry Bulk	Costal/Ferries/Pax
Drivers/Demands	• Local economy	• Local economy	• Commuting services to islands
Volume Handled (2017)	0.43 MM tons	0.094 MM tons	0.27 MM vehicles
Installed Capacity	2.8 MM tons	0.3 MM tons	0.7 MM vehicles
Utilization level (%)	15.35%	32%	39% (vehicles)
Rail Connection	No		
Road Connection	Road connection to the National Motorway network and ATTIKI ODOS		

Infrastructure data			
Piers			at Perama Megaridos (12km to the west of the main port)
Quay Length	1,048m	118m (also use the General Cargo quays)	32m at Perama Megaridos, (12km west of the main port)
Water Depth	-7.30 to -11.00m	-3.50 to -6.00m	-2.50m
Usable Area	36,000m ²	6,000 m ²	
Major Equipment	3 Mobile Cranes, 6 Clarks, 1 Loader		

- Heraklion Port is located on the island of Crete
- 5 piers that facilitate the traffic of dry bulk and general cargo, containers, as well as coastal shipping and cruise passengers
- It also serves fishing boats and yachts
- Customs Service operating within the port, allows movement and storage of imports / exports
- Cruise traffic; homeporting
- The construction of the new tent terminal at 2017 has turned Heraklion Port to a modern regional homeport for cruise

Operational					
	Container	General Cargo	Dry Bulk	Ferry	Cruise
Drivers/ Demands	• Local economy	• Local economy	• Local economy	• Islands Population • Tourism • Greek economy	• Tourism • Cruise sector trends
Volume Handled (2017)	21,353TEU	0.03 MM tons	0.09 MM tons	1.54 MM Pax/ 0.3 MM Vehicles	0.18 MM pax
Installed Capacity	200,000 TEU	1.7 MM tons	1.4 MM tons	2.8 MM Pax	0.5 MM pax
Utilization level (%)	11%	2%	6%	55%	36%
Rail Connection			-		
Road Connection			-		

Infrastructure data					
Piers	IV-V	III		I, II	II, IV-V
Quay Length	817.5m	813.7m	Same quays as for	795.7m	1,225.5m
Water Depth	-14.20m	-12.40m	General Cargo	-9.00 to -10.00m	-9.00m to-14.20m
Usable Area	87,660m ²	45,500m ²			
Major Equipment	2 Mobile Cranes, 2 Reachstackers	6 Gantry Cranes, 8 Forklifts 1 Mobile Crane (BELOTTI)			



- Lavrio port is located at the south-eastern tip of the Attica peninsula – 60km from the centre of Athens and 25km from Athens International Airport
- Port activities include:
 - ✓ Passenger & vehicle ferry traffic to neighbouring Cyclades islands and Northern Aegean destinations
 - ✓ General cargo Commercial port facilities
 - ✓ Ro-Ro facilities and Container terminal connecting Turkish, Israel, Cypriot and Italian ports
 - ✓ Cruise facilities with a fully equipped and ISPS compliant terminal
 - ✓ Marina serving approx. 180 boats, expansion capabilities under study
 - ✓ Fishing boat section serving the local and greater Athens markets
- Plans for extension of Athens Suburban Railway (nearest distance to existing suburban railway network is approx. 30km)

Operational				
	General Cargo	Container Terminal - RoRo	Ferry	Cruise
Drivers/Demands	• Local, National, Int'l trade	• Local, National, Int'l trade	• Islands Population • Tourism • Greek economy	• Tourism • Cruise sector trends
Volume Handled (2017)	0.02 MM Tons	0.11 MM tons	0.465 MM pax/ 0.6 MM vehicles	0.0175 MM pax
Installed Capacity	0.9 MM tons	40 M TEU	3.4 MM pax	
Utilization level (%)	2.22%	38.75%	13.68%	
Rail Connection	No			
Road Connection	Current road system is good to the North quays and plans are underway to connect South quays to the main road system, by-passing the city			

Infrastructure data			
	North Quays (Ferries, Ro-Ro, Cruise)	South Quays (Commercial Port)	West Quays (Marina & Fishing port)
Piers	2 finger piers (1x140m & 1x185m) & 9 ramps in total	No piers, continuous Quay	1 major pier & floating piers
Quay Length	590m	679m	approx. 1,000m
Water Depth	-6.50 to -7.00m	-8.50 to -10.00	-2.50 to -6.00m
Usable Area	80%	90%	100% of Quay
Major Equipment	Only mobile equipment provided by 3 rd party	Mobile Cranes provided by 3 rd parties	Electricity & water supply facilities

- Patras Port is located in western Greece (northern Peloponnese)
- Patras Port handles a significant amount of Greek int'l ferry passenger traffic
- The port is part of the TEN-T core network
- **Patras Old (North) Port:**
Functions:
 - ✓ Mainly commercial port (bulk cargo, etc)
 - ✓ Passengers port (inland ferry traffic)
 - ✓ Cruise port (Passengers terminal approx. 2,000m²)
 - ✓ Seaplanes station
 - ✓ Small marina
- **Patras New (South) Port:**
 - ✓ **Function:** Passengers Port (int'l ferry & Ro-Ro traffic Greece-Italy)
 - ✓ **Port details:**
 - 5 berths
 - 3 Passengers terminals (1 operational) and other port buildings (VTS) in operation

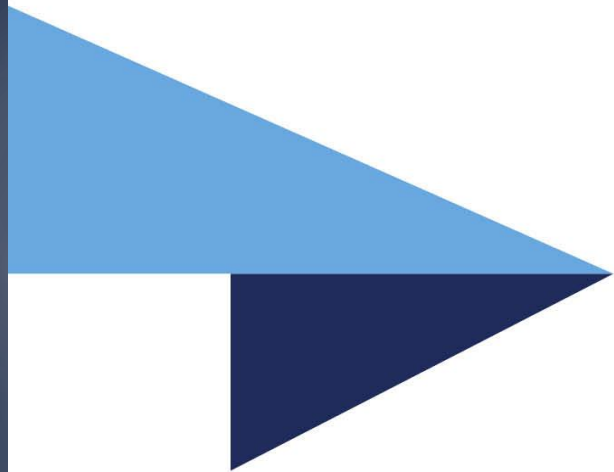
Operational					
	General Cargo	Dry Bulk	Cargo – Italy (Ferry, Ro-Ro)	Ferry	Cruise
Drivers/ Demands	• Local economy	• Local economy	• Greek economy	• Islands Population • Tourism • Greek economy	• Tourism • Cruise sector trends
Volume Handled (2017)	46,201 tons	191,671 tons	3,093,271 tons	521,349 Pax/ 310,000 Vehicles	952 pax
Installed Capacity	400,000 tons	600,000 tons		2,800,000 Pax	350,000 pax
Utilization level (%)	11%	32%		19%	~0%
Rail Connection	No				
Road Connection	Road connection to Patras ring road / Athens-Patras Motorway				

Infrastructure data				
Piers	Old Port Astigos Pier	Old Port (dock 4) inland ferry	Patras – Italy: New Port (Docks A-E)	Old Port Dock 14-15
Quay Length	450m	175m	1,291m	375m
Water Depths	-8.40m to -10.40m		-10.40m	-9.50m
Usable Area	21.000m ²			
Major Equipment	2 Cranes, 14 Forklifts, 2 buses			

- Rafina port is located in Attica region (east coast of Attica – 30km from the centre of Athens)
- The port is a passenger port with ferry traffic to the islands (Cyclades, Evia)
- Plans for New Passengers' Terminal
- Plans for extension of Athens Suburban Railway

Operational	
Ferry	
Drivers/Demands	<ul style="list-style-type: none"> • Islands Population • Tourism • Greek economy
Volume Handled (2017)	1.90 MM Pax/0.4 MM Vehicles
Installed Capacity	3.1 MM Pax
Utilization level (%)	61%
Rail Connection	No
Road Connection	Road connection to ATTIKI ODOS

Infrastructure data	
Piers	1 to 13
Quay Length	343m
Water Depth	-6.50 to -8.00m
Usable Area	



HELLENIC REPUBLIC ASSET DEVELOPMENT FUND

W: www.hradf.com

e-mail: info@hraf.gr

T: +30 210 32 74 400