

# HELLENIC REPUBLIC ASSET DEVELOPMENT FUND

10 Port Authorities

July 2018

# Infrastructure

## 10 Regional Ports



HELLENIC REPUBLIC ASSET  
DEVELOPMENT FUND

### Multi-purpose

- Heraklion
- Volos
- Lavrio

### Cargo & Bulk

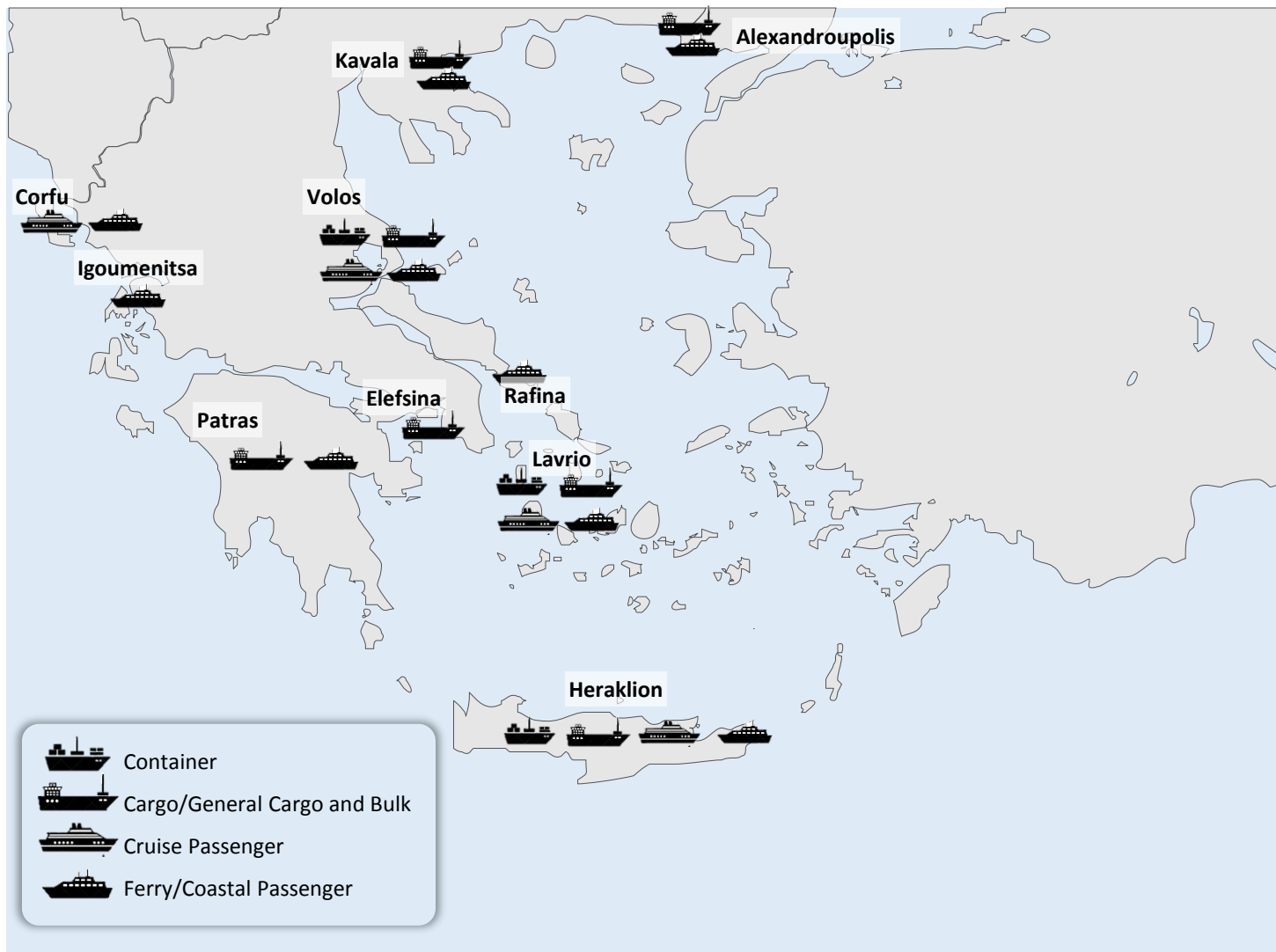
- Elefsina
- Kavala
- Patra
- Alexandroupolis

### 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 type 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
- Dredging of east port basin and access channel and railway connection of the container terminal are recently completed

Operational			
	General Cargo	Dry Bulk	Costal/Ferries/Pax
Drivers/Demands	• Local economy	• Local economy	• Island Population • Tourism • Greek economy
Volume Handled (2017)	0.03 MM Tons	0.12 MM tons	0.15 MM pax/ 0.03 MM vehicles
Installed Capacity	1.9 MM tons	0.6MM tons	0.7 MM pax
Utilization level (%)	2%	20%	21%
Rail Connection	Rail connection to the national network		
Road Connection	Road access through the city to EGNATIA Motorway (5km)		

Infrastructure data			
Piers	Coastal Piers	General – Bulk Cargo Piers	New Container Terminal
Quay Length	445m	670m	680m
Water Depth	-6.00 to -9.00m	-6.50 to -7.00m	-9.50m
Usable Area	12,600m <sup>2</sup>	44,000 m <sup>2</sup>	113,000m <sup>2</sup>
Major Equipment	1 Mobile Crane		

- 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)
- New domestic ferry terminal completed; extension of cruise pier completed
- Yacht shelter under construction

Operational		
	Ferry	Cruise
Drivers/Demands	<ul style="list-style-type: none"> <li>• Islands Population</li> <li>• Tourism</li> <li>• Greek economy</li> </ul>	<ul style="list-style-type: none"> <li>• Tourism</li> <li>• Cruise sector trends</li> </ul>
Volume Handled (2017)	1.5 MM Pax/0.4 MM Vehicles	0.75 MM pax
Installed Capacity	3 MM Pax	1 MMPax
Utilization level (%)	50%	75%
Rail Connection	-	-
Road Connection	-	-

Infrastructure data		
Piers	8-18 & lee breakwater	
Quay Length	1,503m	975m
Water Depth	-7.50 to -11.00m	-11.00 to -12.00m
Usable Area		

- 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 <sup>2</sup>	6,000 m <sup>2</sup>	
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 <sup>2</sup>	45,500m <sup>2</sup>			
Major Equipment	2 Mobile Cranes, 2 Reachstackers	6 Gantry Cranes, 8 Forklifts 1 Mobile Crane (BELOTTI)			

- The port of Igoumenitsa is located at northwestern Greece (Ionian Sea)
- It occupies a total area of 210 hectares 130 hectares are harbour area, 80 hectares have been attributed to road construction, parking areas of private cars and trucks, refuelling station etc
- Development of a logistics centre adjacent to the port land zone has been planned
- Terminal T2 of total area 3,041.46m<sup>2</sup> currently in use
- Provides 17 stern-to berths for ferries or Ro-Ro vessels of international routes (5 for cruise), 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
- “Phase B” works of new ferry terminal under construction:
  - ✓ A 197.60m fingerpier capable of mooring 300,000DWT vessels (length 227m)
  - ✓ Terminal 3 building: 2,324.80m<sup>2</sup> will serve the required Schengen Agreement controls

Operational		
	Ferry	Cruise
Drivers/Demands	<ul style="list-style-type: none"> <li>• Islands Population</li> <li>• Tourism</li> <li>• Egnatia motorway</li> <li>• Greek economy and economic policy</li> </ul>	<ul style="list-style-type: none"> <li>• Tourism</li> <li>• Cruise sector trends</li> </ul>
Volume Handled (2017)	2.7 MM Pax/0.9 MM Vehicles	9,092 Pax
Installed Capacity	8.0 MM Pax	624,000 Pax
Utilization level (%)	33%	1.5%
Rail Connection	No	
Road Connection	The port is directly connected to EGNATIA Motorway	

Infrastructure data		
Piers		For Cruise activity same quays as for the Ferry
Quay Length	1,831m	
Water Depth	-5.00 to -10.50m	
Usable Area		

“Phase C1” under development:

- Ra-Ra pier of a length of approx. 93m and depth -10.20m
- South quays along the southern coastline of Igoumenitsa bay of total length approx. 610m and depth -10.20m
- Gravity quay approx. 21m long

- Kavala port is located in northern Greece (East Macedonia and Thrace region)
- Main commodity is marble, as general cargo and dry bulk
- Ferry & Cruise activities from old port in city centre; ferry connection to Thassos island and North Aegean islands
- Old Port: Extension of main breakwater by 80m completed; rehabilitation of old warehouse (2,000m<sup>2</sup>), part of it 200m<sup>2</sup> to be used as passengers'/cruise terminal check point, under construction by the concessionaire with an in power concession until 2042
- Philippos 2nd: Construction of a 220m long detached breakwater completed; extension of quays and open usable area by 510m and 100,000m<sup>2</sup> respectively under construction
- Kavala, Alexandroupolis, Varna and Burgas ports have submitted a proposal to "SEA2SEA Program" for upgrading the rail infrastructure between them

Operational				
	General Cargo	Dry Bulk	Ferry	Cruise
Drivers/Demands	• Local economy	• Local economy	• Islands Population • Tourism • Greek economy	• Tourism • Cruise sector trends
Volume Handled (2017)	0.14 MM Tons	0.45 MM tons	2.17 MM pax/ 0.61 MM vehicles	0.009 MM pax
Installed Capacity	1.1 MM tons	4.9MM tons	2.5 MM pax	0.1 MM pax
Utilization level (%)	13%	9%	86.8%	9%
Rail Connection	No			
Road Connection	"Philippos 2nd" commercial port is directly connected to Egnatia Motorway			

Infrastructure data				
Piers				
Quay Length	405m	Same quays	450m	640m
Water Depths	-12.00m	as for the	-10.00m	-10.00m
Usable Area	52.000m <sup>2</sup>	General Cargo		
Major Equipment	1 Crane			





- 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 <sup>rd</sup> party	Mobile Cranes provided by 3 <sup>rd</sup> 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. 2,000m<sup>2</sup>)
  - ✓ 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 <sup>2</sup>			
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"> <li>• Islands Population</li> <li>• Tourism</li> <li>• Greek economy</li> </ul>
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

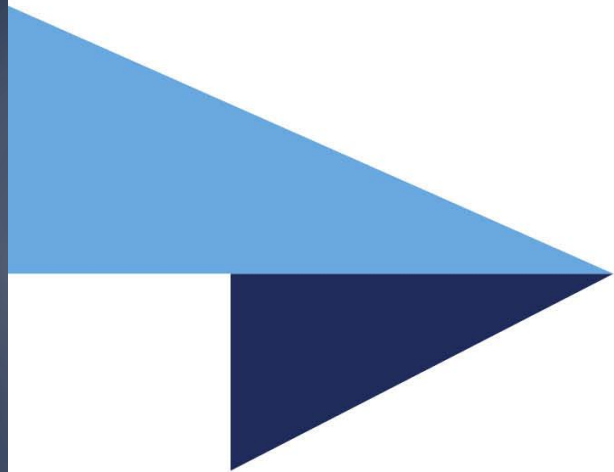
Infrastructure data	
Piers	1 to 13
Quay Length	343m
Water Depth	-6.50 to -8.00m
Usable Area	



- 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 5,500m<sup>2</sup> 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 <sup>2</sup>	70,000m <sup>2</sup>			
Major Equipment	10 Harbour Cranes, 4 non-operational				



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W: [www.hradf.com](http://www.hradf.com)

e-mail: [info@hraf.gr](mailto:info@hraf.gr)

T: +30 210 32 74 400