

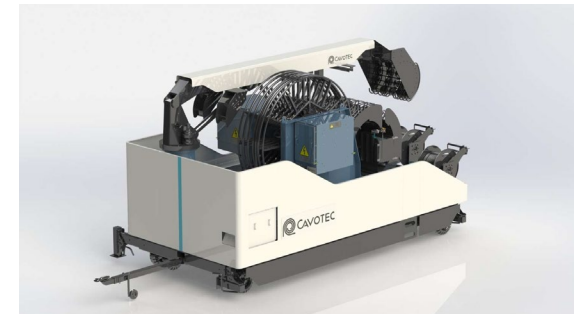


The Valletta Grand Harbour Clean Air Project

Greening Up Cruise Operations

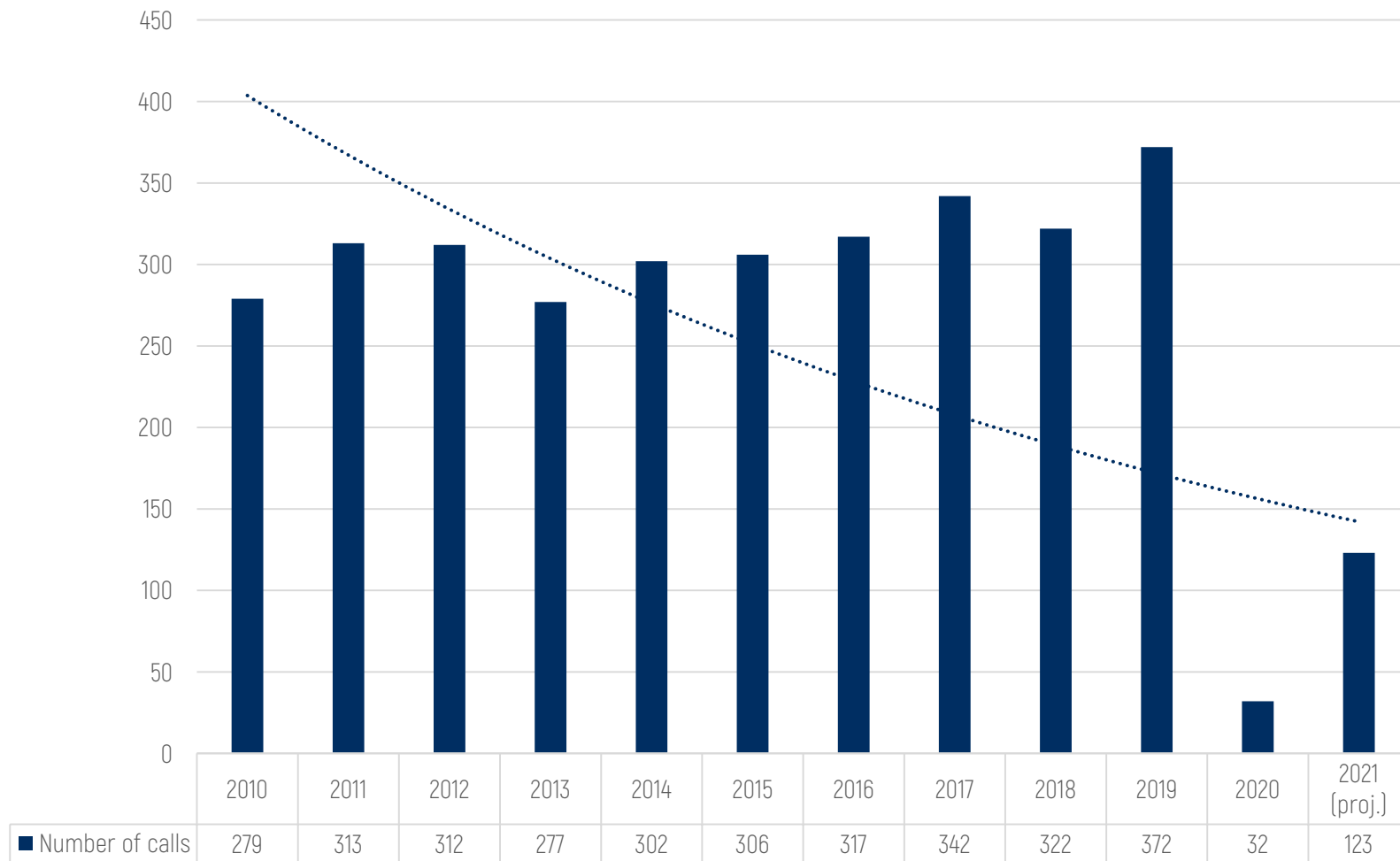
Shore to Ship Supply

- The Grand Harbour is not just a passenger port: it is a multi-use destination. It is home to many residents, the workplace of many others and a place of relaxation for locals and tourists alike - there are age-old historical sites, walking promenades, entertainment zones, office buildings and even beaches in this strategic port.
- A project spearheaded by Infrastructure Malta and the Ministry for Transport, Infrastructure and Capital Projects, Transport Malta and supported by Valletta Cruise Port.
- Fulfilling an International and European objective: MARPOL Annex VI, Energy Efficiency Design Index (EEDI), Noise Emissions (WHO), Directive 2012/33/EU, Directive 2014/94/EU, Blue Growth Strategy.
- Valletta's Grand Harbour will be one of the European leaders in shore supply provision for cruise ships. This service will be extended also for Ro-Ro vessels.



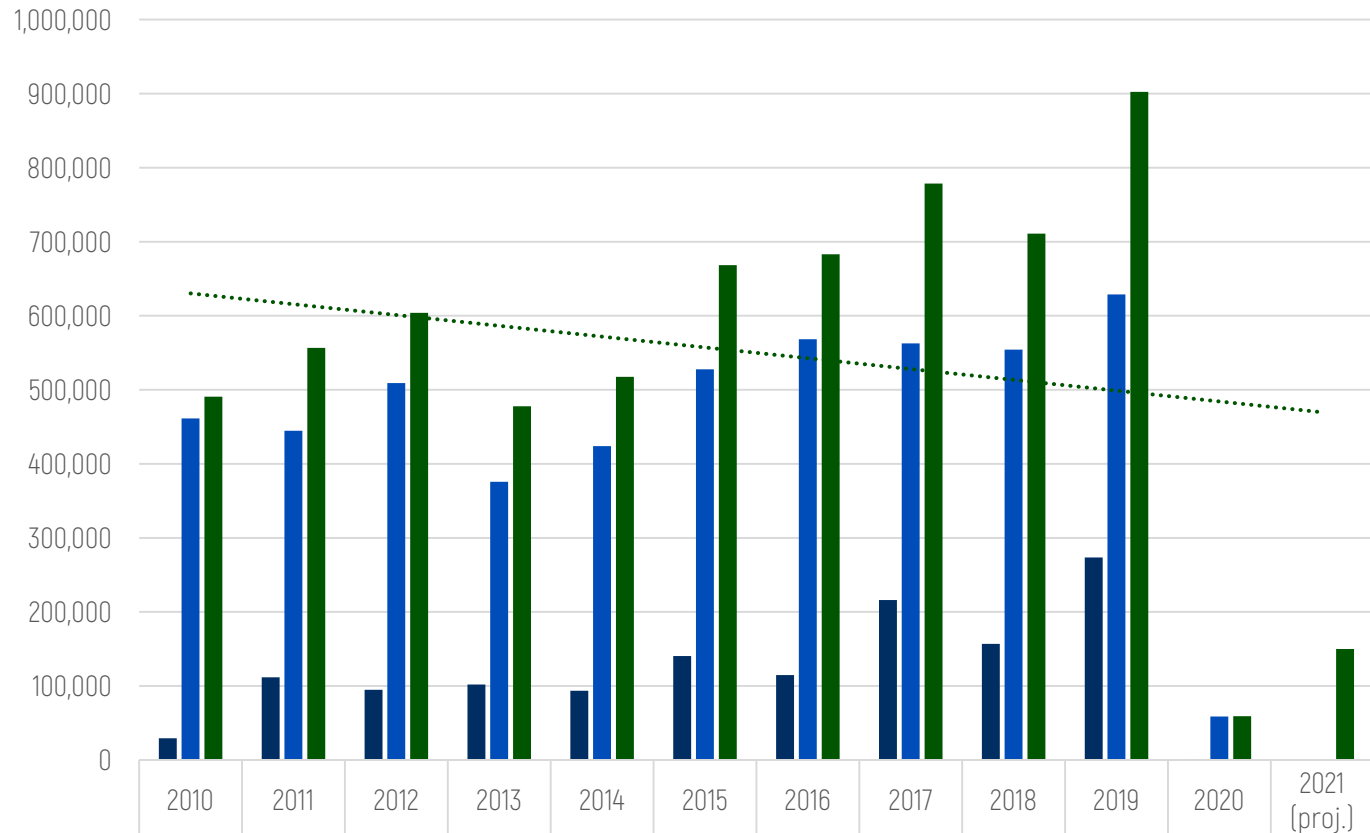
The Cruise Industry in Malta

Number of Cruise Calls in Malta from 2010-2020 & Projections for 2021



The Cruise Industry in Malta

Cruise Passenger Growth in Malta from 2010-2020 & Projections for 2021



■ Homeport	29,309	111,780	94,910	102,034	93,581	140,512	114,731	216,029	156,825	273,549	358	
■ Transit	461,392	444,771	509,134	375,785	424,013	527,765	568,239	562,610	554,193	628,876	58,822	
■ Total passenger movements	490,701	556,551	604,044	477,819	517,594	668,277	682,970	778,639	711,018	902,425	59,180	150,000

Contribution of the Cruise Industry to the Maltese Economy

€83.36 million

in 2019 in direct expenditure by the cruise industry in the Maltese economy of which:

€31 million

expenditure by the cruise passengers


€52 million

expenditure by cruise liners

The Shore to Ship Supply Project in Numbers: Phases 1 & 2


372 
passenger ships
annually


investment of
 **€49.9**
million


22,000 metres
underground cables


8 localities
around the Grand Harbour

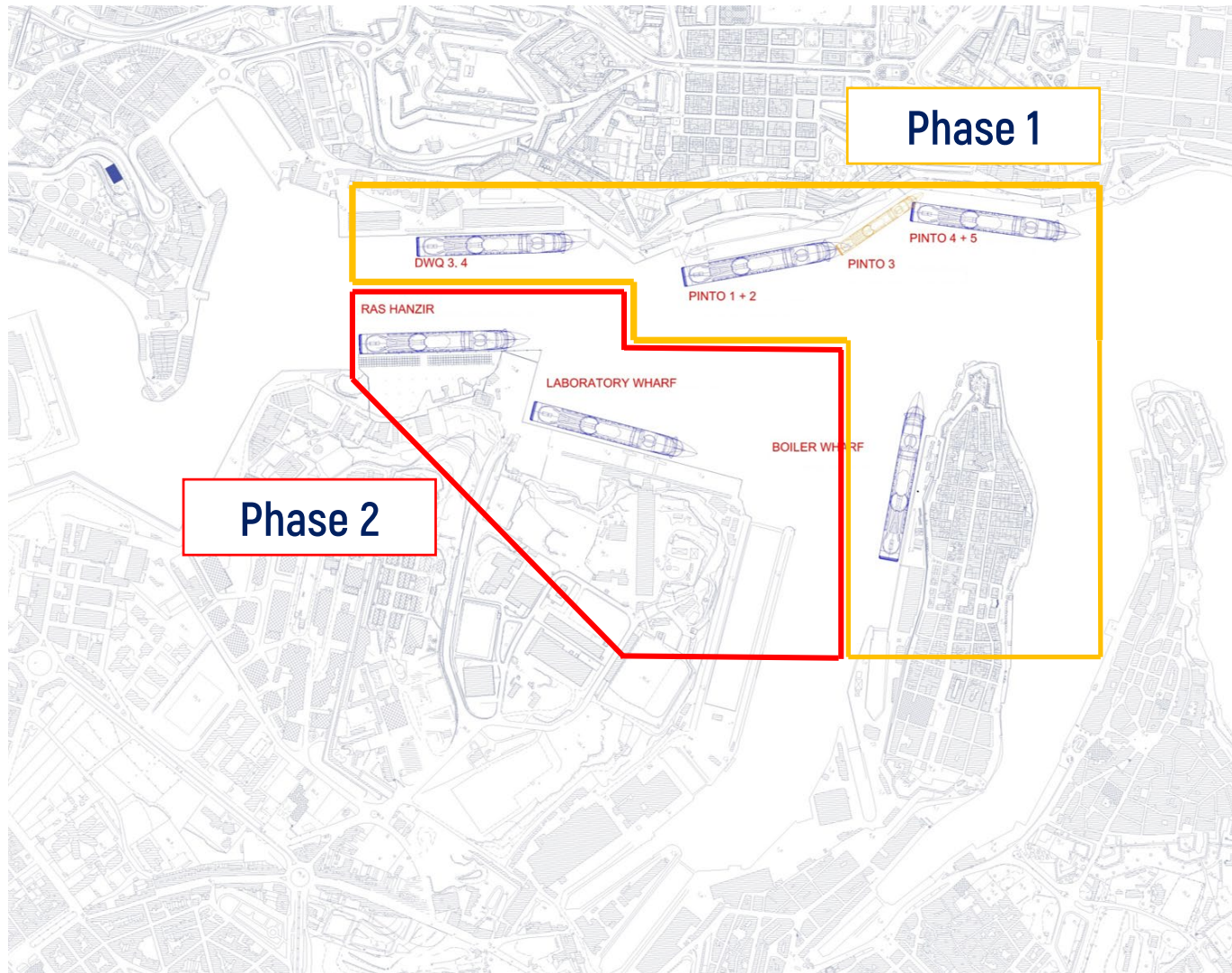
 **90% less**
air pollution
93% less nitrogen dioxide
92.6% less particulate matter
99.6% less sulphur dioxide

 **€375 million**
lower pollution costs
in 20 years

 **7 quays**

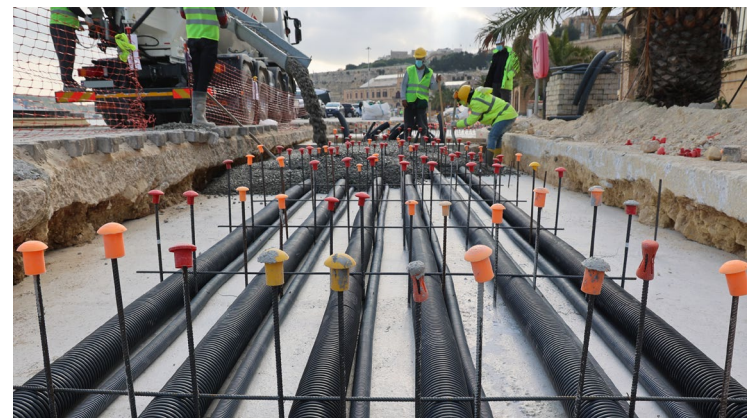
 cleaner air for
17,000
families

The Shore to Ship Supply Project: Phases 1 & 2

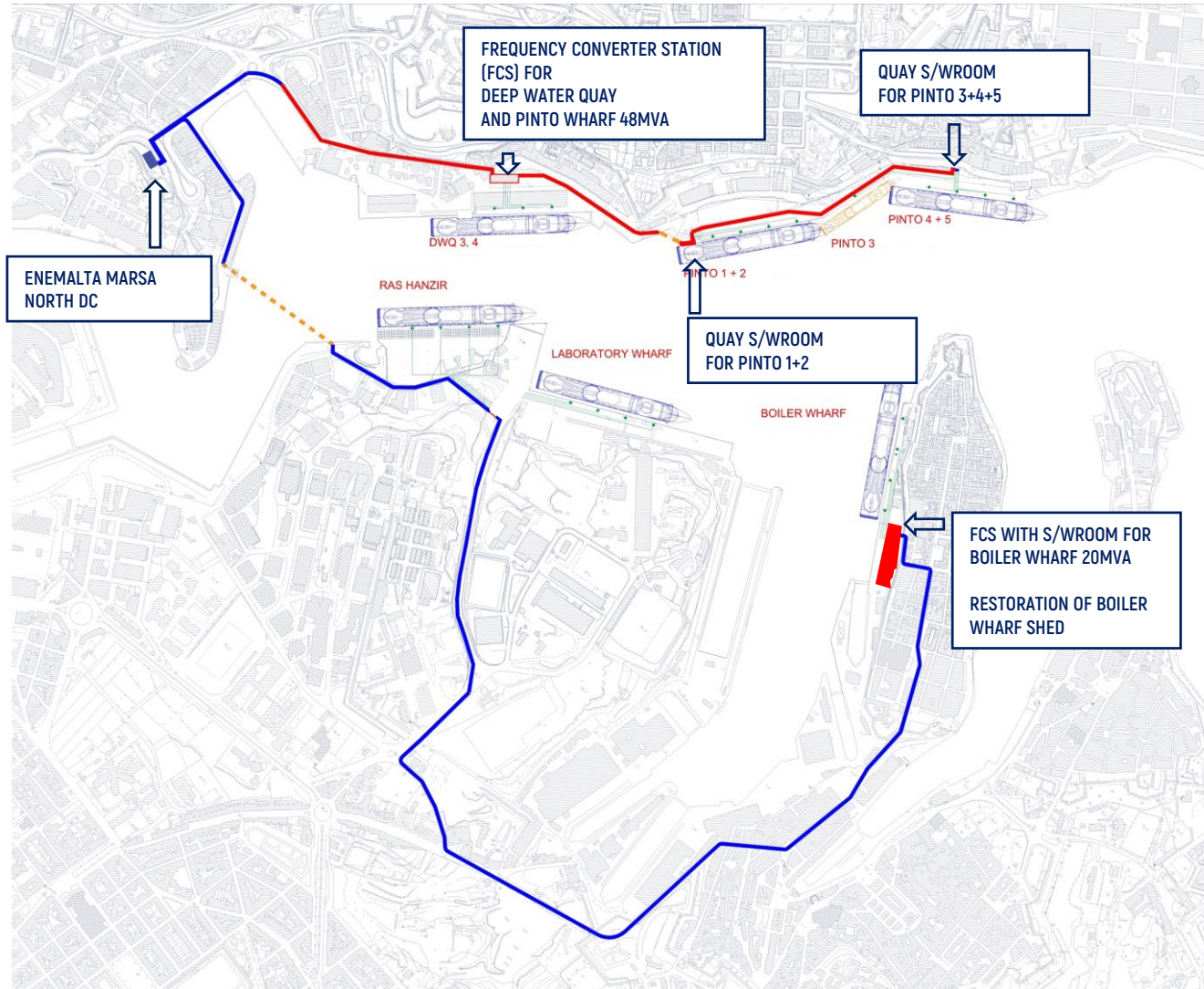


The Shore to Ship Supply Project: Phase 1

- €37m investment in shore side electricity on 5 quays (to be supplied by 2023)
- 2 frequency converter buildings (33kV to 11kV)
- Selectable output (11kV or 6.6kV @ 50/60Hz)
- 22km underground/subsea cables
- Restoration of industrial shed (Boiler Wharf)



The Shore to Ship Supply Project: Phase 1



The Shore to Ship Supply Project: Progress

- Work commenced in November 2020. A trench of a metre in depth was cut, through which cables with a voltage of 33kV will pass and supply electricity to the wharfs. It is estimated that a total of about 22 kilometres of cables will be laid. Well over eight kilometres is already in place.
- Work is ongoing in earnest on Quays Pinto 4/5, Gun Wharf and Wine Wharf.



The Shore to Ship Supply Project: Benefits

- **A major air quality improvement:** Drastic reduction in emissions in the Grand Harbour. This innovative system will make it possible to reduce the emissions of pollutant gases by over 40 tons a year, the equivalent of continuous circulation of over 4 million vehicles. Specifically, the port will be able to reduce SO_x, NO_x, CO₂ and PM emissions.
- **Reducing noise pollution and vibrations:** By switching off their engines during their stay in Malta and switching to shore power, ships will be able to cut most of their noise pollution and related vibrations, contributing to an enhanced quality of life in this region.
- **Improved quality of life for the port users:** residents, workers, visitors.
- **Protecting a historical port:** Millions of Euros are invested annually in the restoration of the numerous historical buildings and fortifications surrounding the Grand Harbour. This project is also contributing to the long-term conservation of these invaluable buildings.
- **Reducing the port's carbon footprint:** The carbon dioxide emissions reduction will have a positive impact on the Grand Harbour's carbon footprint, helping Malta reach its greenhouse gases reduction targets.
- **Quantifiable benefits:** Within 20 years from the implementation of this project, Malta will save up to €375 million in costs linked to the measurable consequences of air pollution, such as savings on medical expenses related to respiratory illnesses and other related conditions, savings on air pollution mitigation measures to protect the natural environment, savings on infrastructure maintenance, including cleaning and restoration of building facades and improvements in agriculture.

Thank you!

