

Environmental challenges and litter management in marina Porto Montenegro



Arsenal site in 2007



Arsenal

- Military shipyard established 1889 by Austro-Hungarian commander Maximilian Daublebski von Sterneck.
- Golden period was 1974 when they reconstructed army ships from USA, Russia, Libya and other countries.
- In period of Arsenal work we had big benefits in city but also small awareness of environmental protection which resulted:

100 t of grit on site
1000 t of heavy materials on sea bed





MARINA

- Marina capacity 455 berths; total expansion to 850 berths at project completion
- Over 300 berths for yachts over 24m; 450 berths for yachts from 12-250m LOA
- TYHA 5 Gold Anchor accredited marina
- ISO 14001 and ISO 9001 certified
- The largest superyacht homeport in the Mediterranean



RESIDENCES & RETAIL VILLAGE

- 188 apartments / 6 residential buildings completed
- 60 units / 3000 sqm retail offer
- Retail village: yacht brokers; international fashion boutiques; restaurants and cafés; day spa and hair salon; dry cleaner; pharmacy; bank; supermarket and more
- Architecture by Reardon Smith Architects and WATG, London; interior design by Tino Zervudachi, of MHZ, Paris

Key investment points

- One of the fastest growing travel and tourism economy,
- Scale and quality of Porto Montenegro has stimulated significant tourism growth
- Central to the fastest growing cruising grounds in Europe (Venice-Corfu)
- One of the highest levels of foreign direct investment per capita in Europe over the last five years



Little Management

- Environmental assessment
- Waste management plan
- Completed by following standards ISO 14000 and MARPOL convention

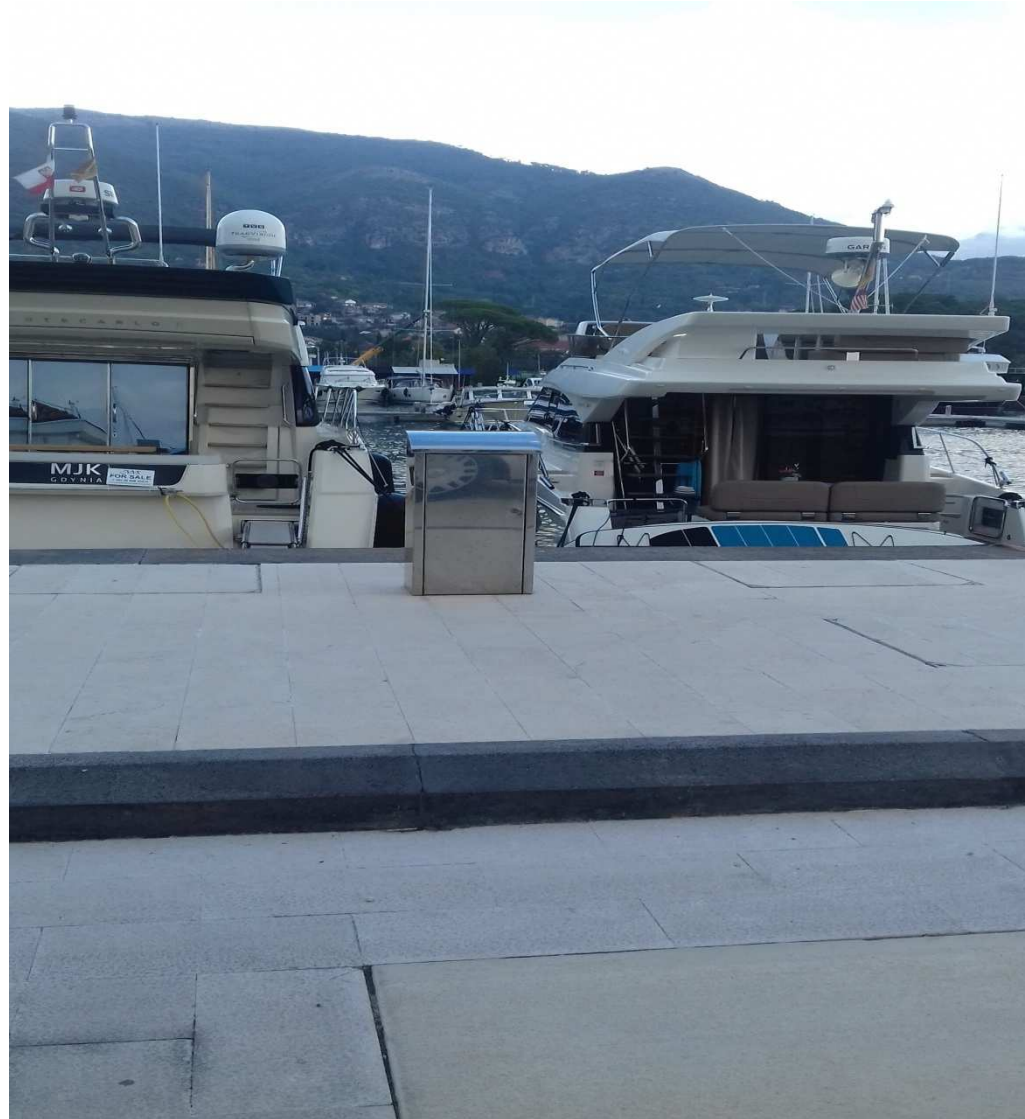
Environmental issues

- physical pollution
- biological contamination
- chemical pollution

physical pollution prevention



biological contamination prevention



chemical pollution prevention



Equipment in case of pollution

Oil boom



Fire/pollution prevention boat



THE MASTERPLAN CGI - Aerial view from the land development



Special thanks

- Biological Institute Kotor for support and advices.