



ROTTERDAM

WAREHOUSE DESIGN

KPTIP
GROUP 16

FUNCTIONAL
DESIGN

SPACE
UTILIZATION

SAFETY &
COMPLIANCE

TECHNOLOGY
INTEGRATION

SUSTAINABILITY



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FUNCTIONAL DESIGN



- U-Shaped layout
- Optimized workflow and process flow
- Reduced travel time



ROTTERDAM



SPACE UTILIZATION



1. Scalability & expansion

- flexible & can be expanded, additional storage

2. Clear aisle & pathway design

- Efficient movement, avoiding overly wide aisles

3. Optimized flow between zones

- Minimizes the distance, reducing wasted space

SAFETY &
COMPLIANCE

TECHNOLOGY
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SUSTAINABILITY





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TECHNOLOGY
INTEGRATION

SUSTAINABILITY

SAFETY & COMPLIANCE

- Fire safety & emergency exits
- Electric fence
- Satellite camera
- Siren
- Guard





ROTTERDAM

SUSTAINABILITY 



TECHNOLOGY INTEGRATION



- 1 Warehouse Management System (WMS)
- 2 Automated Guided Vehicle
- 3 RFID
- 4 Automated Packaging System
- 5 Conveyor System





ROTTERDAM

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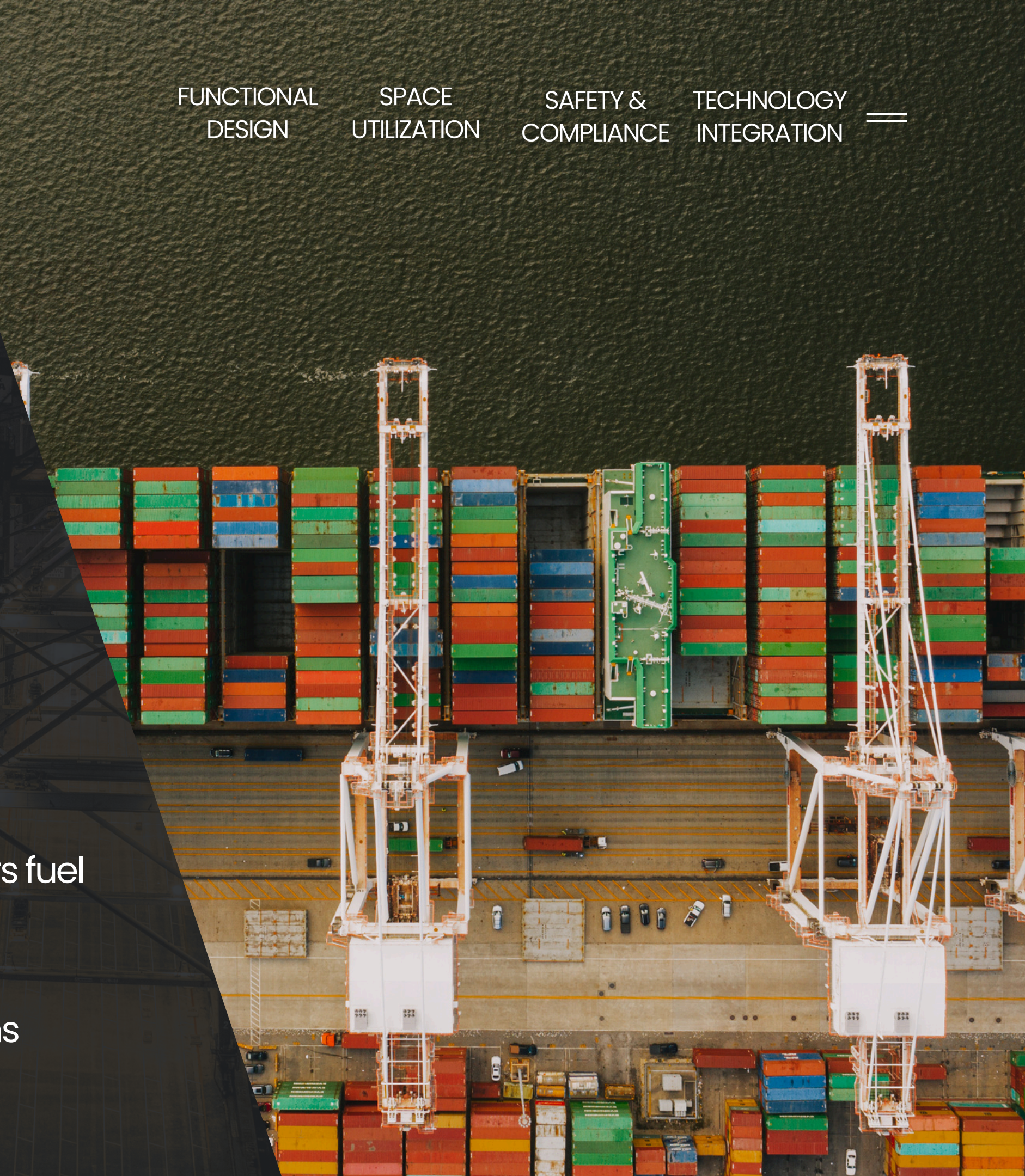
TECHNOLOGY
INTEGRATION



SUSTAINABILITY



- 1** Solar Panel
 - solar panels on the roof of the warehouse
- 2** Rainwater Harvesting
 - On the warehouse roof can capture rainwater
- 3** Electric or Hybrid Forklifts
 - reduces greenhouse gas emissions and lowers fuel consumption
- 4** Green Space & Landscaping
 - promote biodiversity, support local ecosystems





ROTTERDAM

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THANK YOU

[https://youtu.be/zv0vtJ2hg8c?
feature=shared](https://youtu.be/zv0vtJ2hg8c?feature=shared)