

# Port of Barcelona

## The Barcelona Model: An Active Landlord



1. The Port of Barcelona
2. Strategy
3. Enlargement
4. Connectivity
5. Traffic Port of Barcelona – United Arab Emirates
6. Client Oriented



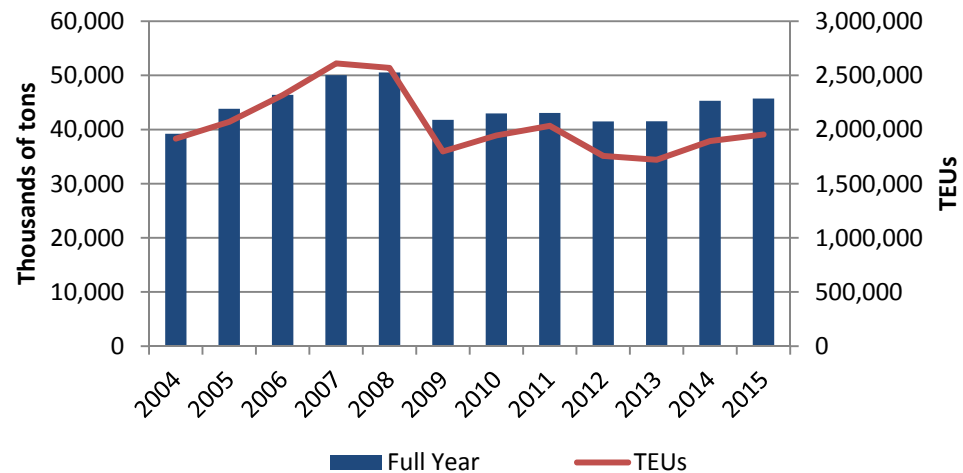
## 1. Port of Barcelona

A unique port due to its specialisation in different traffics

### Traffic 2015

<b>Total traffic</b>	<b>45,7 M Tm</b>
<b>Container</b>	<b>2 M TEU</b>
<b>Vehicles</b>	<b>881.893 Units</b>
<b>Ro-Ro traffic</b>	<b>360.995 ITUs</b>
<b>Passengers</b>	<b>3,7 M Pax</b>

### Total traffic in the Port of Barcelona 2004-2015 (Thousands of tons)



Over 30% of cargo is to/from Mediterranean

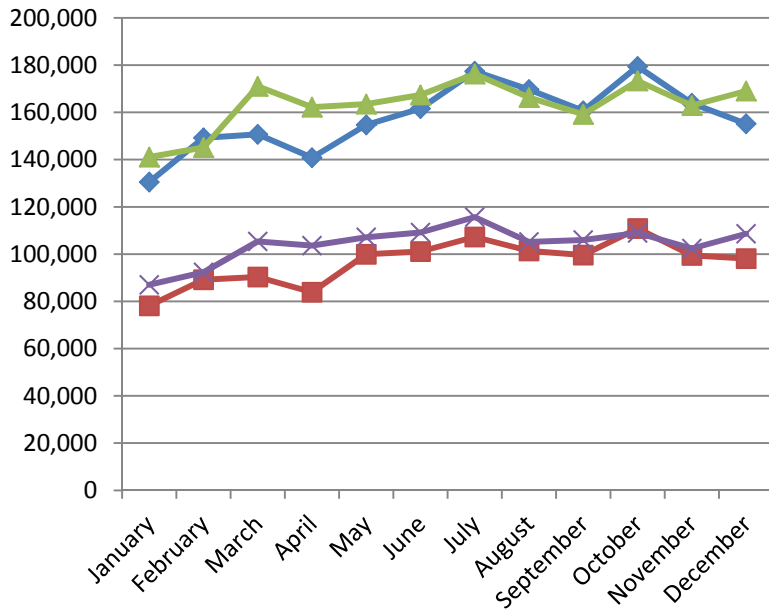
➔ A highly specialised port





# 1. Port of Barcelona

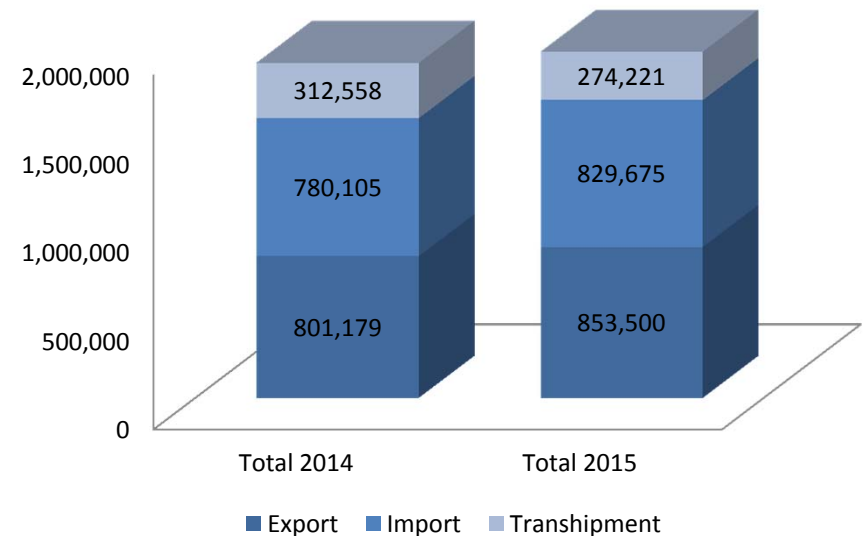
## Port of Barcelona statistics. TEU traffic



**Total traffic 2015: 1,9 M Teu**  
**3.36% increase vs. 2014**

◆ Total TEU 2014  
 ■ Total TEU 2015  
 ▲ Full TEU without T/S 2014 1,159,149  
 ✕ Full TEU without T/S 2015 1,251,343 **7.95%**

	Total 2014	Total 2015	Variation (%)
Export	801,179	853,500	6.53%
Import	780,105	829,675	6.35%
Transshipment	312,558	274,221	-12.27%
<b>Total Traffic</b>	<b>1,893,842</b>	<b>1,957,396</b>	<b>3.36%</b>





## 1. Port of Barcelona

A diversified port: traffic distribution areas



Port de Barcelona: Offering solutions for all



## 1. Port of Barcelona Enlargement of the Port and Logistics areas

ZAL



*Important logistics international & national operators choose ZAL Barcelona as logistics hub and distribution center for the South of Europe and North of Africa*



	ZAL BCN	ZAL PRAT	ZAL
Surface (Ha)	65	143	208
Development area (m2)	265,000	580,000	845,000
Warehouses & offices (m2)	250,000	550,000	800,000
Services (m2)	14,000	32,000	46,000
Companies	100	120	220
Workers	5,000	8,000	13,000
Investment (thousand €)	55,000	235,000	290,000







## MERCABARNA:

The main distribution center for fresh and frozen foods southern Europe

Of the 700 companies located in Mercabarna, **more than 250** are located in the **central markets** and engaged in wholesale trade.

### Central Fruit and Vegetables market:



Opening: 1971  
Surface: 170.000 m2  
Companies: 160  
Commercialization: About 1'2 million tn/year

### Central Fish Market



Opening: 1983  
Surface: 24.000 m2  
Companies: 52  
Commercialization: 80.000 tn/year

### Mercabarna-Flowers

Opening: 2008  
Surface: 44.000 m2  
Companies: 45  
Commercialization: 14 millions units





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## 2. Strategy

Strategy in three pillars

Enlargement  
of the Port and  
Logistics areas



Improved  
connectivity with  
hinterland and  
foreland



Client-oriented:  
competitiveness,  
quality, proactivity,  
efficiency





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### 3. Enlargement of the Port and Logistics areas

#### Developments and international private investments



#### ONGOING PROJECTS

M €

		M €
1	New BEST Terminal Hutchinson	500
2	Marina Port Vell	35
3	Port med (Marina Vela)	30
4	Tepsa facility remodeling	14,5
5	Improved processing plant Bunge	13,2
6	Iberpotash - Tramer	20-30
7	New Cruise Terminal E	42
8	Manipuladora de Mercancias Sammer	9,2
9	AIE Jetty Sur Fuel	0,1
10	BCN Nàutic Center NAVE	0,4
11	Port Nou terminal	2,5
12	Damex	0,5
13	MARPOL (TMA) + ambiental authorization request	7,7

#### FINISHED PROJECTS

M €

		M €
14	Terquimsa capacity expansion	10,4
15	Totalpetrochemicals Iberica	1,1
16	Marina Barcelona 92	13
17	Tradebe	60
18	Expansion of container terminal TCB	27,3

**More than 2.000 million € of private investment engaged 2000-2015**





### 3. Enlargement of container terminals

More surface, more capacity: more opportunities







### 3. Enlargement of the Port and Logistics areas

TCB: Growing operational capabilities

TCB terminal	
Capacity	2.3 M TEU
Area	80,4 ha
Berthing line	1.515 ml
Draught	16 m
Quay cranes	13
Reach Staker	3
Fork lift	10
Straddle carrier	62
Reefer plugs	486

Railway terminal
6 Rail tracks (750mts each) (Mixed gauge UIC-Iberian) 3 RMG



1.515 m
 Hasta 16 m
 80,4 ha
 2,3 m TEUs
 ISO 14001, ISO 9001, EMAS, OSHAS, OEA, Efficiency Network
 3 @22, 5 @18, 5 @16
 62
 3
 10

1. Crane height of 3 Super Post Panamax will be increased from 41 to 47m
2. Online berthing windows booking system, avoiding vessel berthing delays
3. Visual container inspection system (OCR), vessel to terminal and terminal to truck EIR, avoiding and reducing cargo and container claims to a minimum.
4. Receiving & Delivery daily average 2,500 truck moves.



### 3. Enlargement of the Port and Logistics areas

BEST: First semi-automated terminal in the Mediterranean

BEST 2015	
Capacity	2.5 M TEU
Area	85 ha
Berthing line	1.500 ml
Draught	16 m
Quay cranes	11
Blocks	27
ASC	54
Shuttle carriers	30
RMG	2
Reefer plugs	1700*

Railway terminal	
8 Rail tracks (750mts each) Total rail tracks of 21Km (Mixed gauge UIC-Iberian) 2 RMG	

BEST End of Works phase 1	
Capacity	2.6 M TEU
Area	100 ha
Berthing line	1.500 ml
Draught	16 m

- Horizontal movements with non-automated Shuttle carrier
- Automated operations with ASC in the stockage area
- Land side operations with remote control





### 3. Enlargement of the Port and Logistics areas

#### Reefer facilities and BIP



- 5.729 m<sup>2</sup> in two floors
- 14 refrigerated warehouses (3.119 m<sup>2</sup> )
- 31 Loading docks
- 8 Different operative areas
- Truck parking area

- Beginning of operations: 9th July 2012
- Investment: 7M Euro
- 31 gates for different kind of goods
- Operating **Monday to Friday** from 08:00 h. to 20:00 h.





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## 4. Connectivity

Weekly connections linking to the main world ports.



More than 100 regular lines and 163 shipowners.

Wide range of feeder and Short Sea Shipping services in the Mediterranean.

Updated services at:

<http://www.portdebarcelona.cat/en/web/Port-dels-Negocis/lineas-regulares>



## 4. Connectivity

Regular maritime lines. Far East weekly services





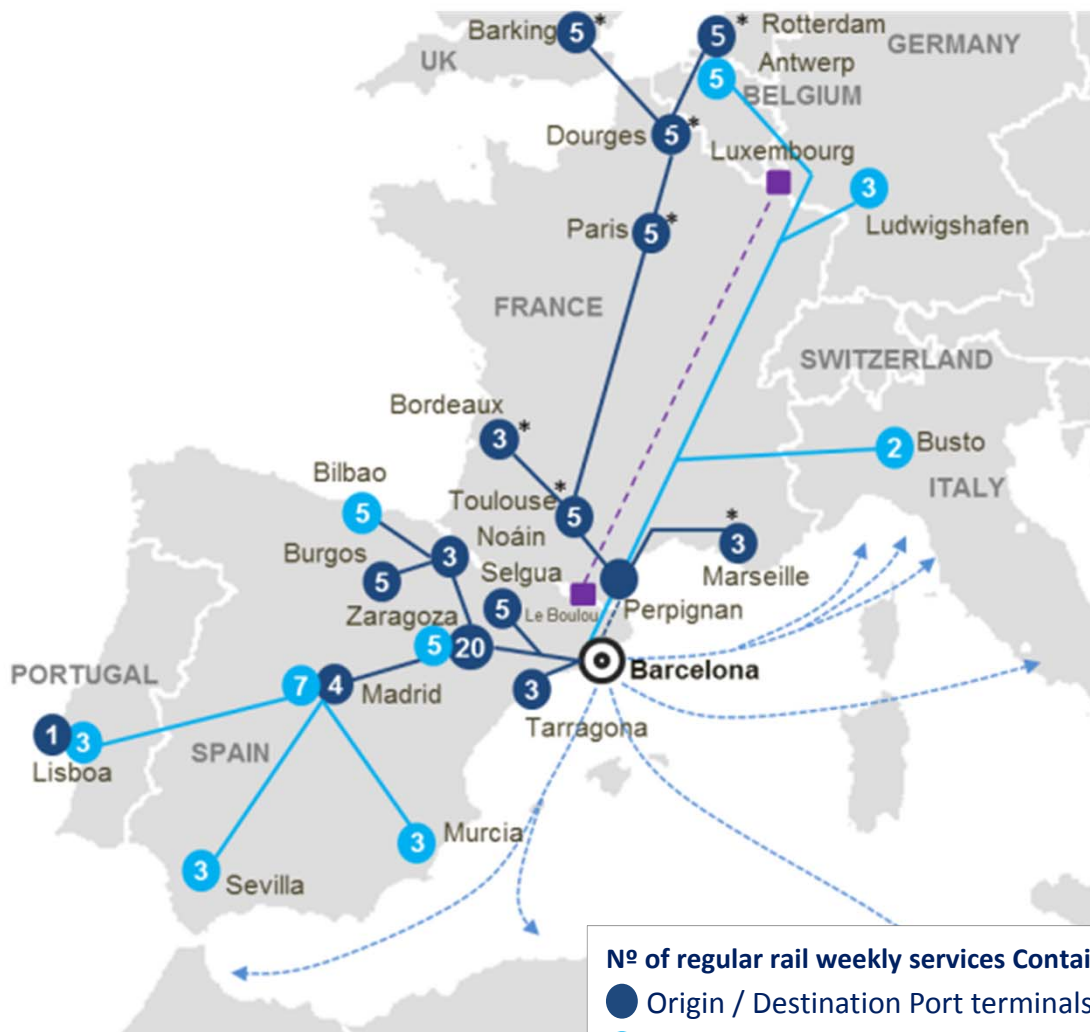
## 4. Connectivity

Regular maritime lines SSS. Mediterranean weekly services





## Railway services to the Iberian Peninsula and Europe



\* Multimodal offer

Nº of regular rail weekly services Containers

● Origin / Destination Port terminals

● Origin / Destination Morrot or Can Tunis

■ Rail Motorway O/D Le Boulou

March 2016

From TCB & BEST	Weekly basis
<b>França &amp; UK (Perp, Toul.Bourd, Paris, Dour, Bark, Marsella)</b>	
T.Portuarios	5/3
<b>Lisboa (Portugal)</b>	
Alfil	1
<b>Madrid Azuqueca</b>	
Best + Alfil	3
SICSA + TCB	1
<b>Noáin (Pamplona)</b>	
Best	3
<b>Selgua (Huesca)</b>	
MSC	2
TCB	3
<b>Tarragona</b>	
T.Portuarios	3
<b>Villafria (Burgos)</b>	
TCB	5
<b>Zaragoza PLAZA</b>	
SICSA	2
<b>Zaragoza TMZ</b>	
TCB	15
SICSA	3
<b>Total ***</b>	<b>41</b>

\*\* by SOSTRAT and stakeholders information

\*\*\* France & UK offer not included

From Morrot	Weekly basis
<b>Antwerp</b>	
Hupac	5
<b>Bilbao</b>	
Transefa/Continental	5
<b>Busto</b>	
Hupac	2
<b>Ludwigshafen</b>	
Kombiverkher	3
<b>Madrid Abroñigal****</b>	
Renfe	7
<b>Zaragoza PLAZA</b>	
Renfe	5
<b>Total</b>	<b>27</b>

\*\*\*\* connections with Murcia, Sevilla, Lisboa and others

You can check updated services at:

<http://www.portdebarcelona.cat/en/web/port-dels-negocis/lineas-ferroviarias>





## 4. Connectivity

Rail traffic evolution in the Port of Barcelona

Quality and cost = **+400%** increase in 9 years



	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
TEUs	37.070	41.770	52.562	59.544	103.898	146.685	148.926	154.522	189.553	213.026
TOTAL increase	-23,4%	12,7%	25,8%	13,3%	74,5%	41,2%	1,5%	3,8%	22,7%	12,4%
Railway share over total I+E traffic	2,6	2,6	3,2	4,8	7,9	10,7	11,3	10,7	12,0	12,7



## 4. Connectivity

### Hinterland and rail connections

Ten-T network: key for European competitiveness

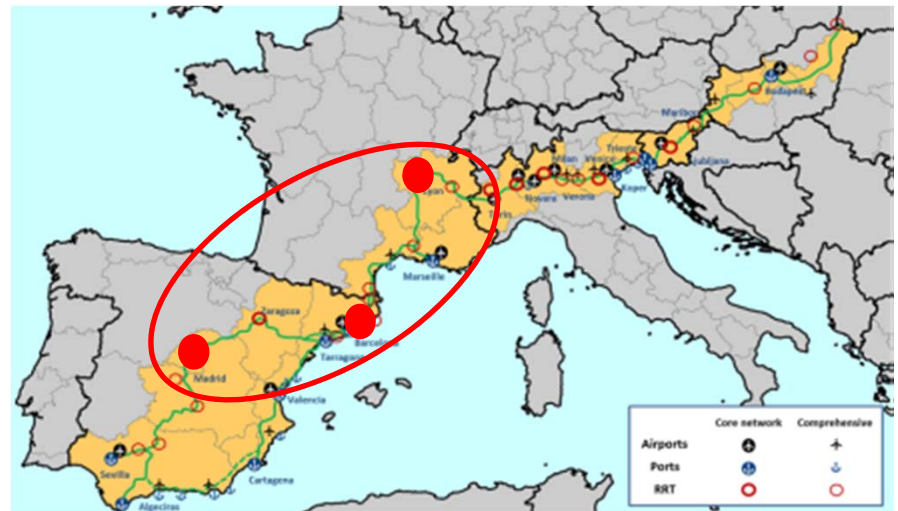
### Trans-European Transport Network

TEN-T Core network corridors



### Mediterranean corridor

Following the coastline of Spain and France and crossing the Alps towards the East



### Madrid – Barcelona – Lyon axis:

GDP of 819 billion euro

5.7% of EU-27 GDP

28.5 millions habitants

6.7% of EU-27 population





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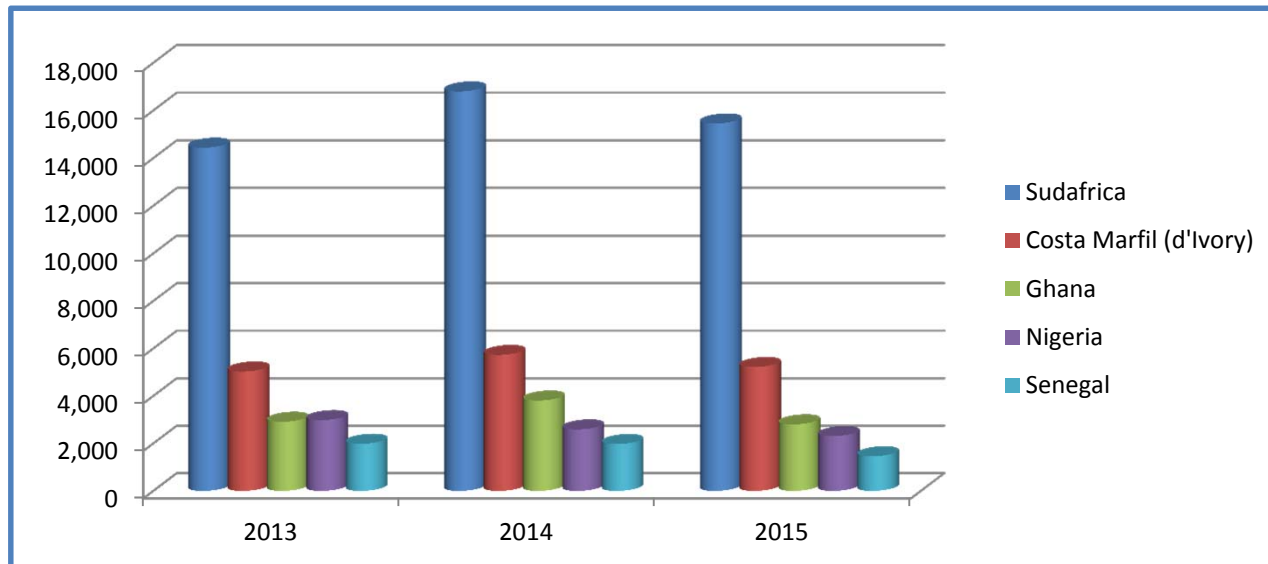




## 5. Traffic Port of Barcelona – West Africa

### COUNTRIES TEU

	2013				2014				2015			
	Export	Import	T/S	TOTAL	Export	Import	T/S	TOTAL	Export	Import	T/S	TOTAL
Sudafrica	11.075	2.956	409	<b>14.440</b>	13.396	3.128	276	<b>16.800</b>	12.127	3.069	259	<b>15.455</b>
Costa Marfil (d'Ivory)	1.868	3.144	19	<b>5.031</b>	2.608	2.926	195	<b>5.729</b>	1.869	3.286	66	<b>5.221</b>
Ghana	1.194	1.660	61	<b>2.914</b>	905	2.383	521	<b>3.809</b>	855	1.906	45	<b>2.806</b>
Nigeria	1.757	949	279	<b>2.985</b>	2.004	447	141	<b>2.592</b>	1.652	491	168	<b>2.311</b>
Senegal	1.874	50	62	<b>1.986</b>	1.771	87	118	<b>1.976</b>	1.311	80	72	<b>1.463</b>
Angola	1.580	4	25	<b>1.609</b>	1.769	4	51	<b>1.824</b>	864	222	259	<b>1.345</b>
Camerún	718	1.116	96	<b>1.929</b>	904	587	228	<b>1.719</b>	705	470	78	<b>1.253</b>
Togo	446	327	68	<b>841</b>	672	314	52	<b>1.038</b>	750	420	54	<b>1.224</b>
Mauritania	646	24	70	<b>740</b>	765	35	52	<b>852</b>	643	31	78	<b>752</b>
Benin	465		42	<b>507</b>	555	19	8	<b>582</b>	536	92	114	<b>742</b>
Others	4.303	610	355	<b>5.267</b>	3.794	258	30	<b>4.082</b>	2.651	289	94	<b>3.034</b>
<b>Total</b>	<b>25.924</b>	<b>10.840</b>	<b>1.485</b>	<b>38.249</b>	<b>29.143</b>	<b>10.188</b>	<b>1.672</b>	<b>41.003</b>	<b>23.963</b>	<b>10.356</b>	<b>1.287</b>	<b>35.606</b>



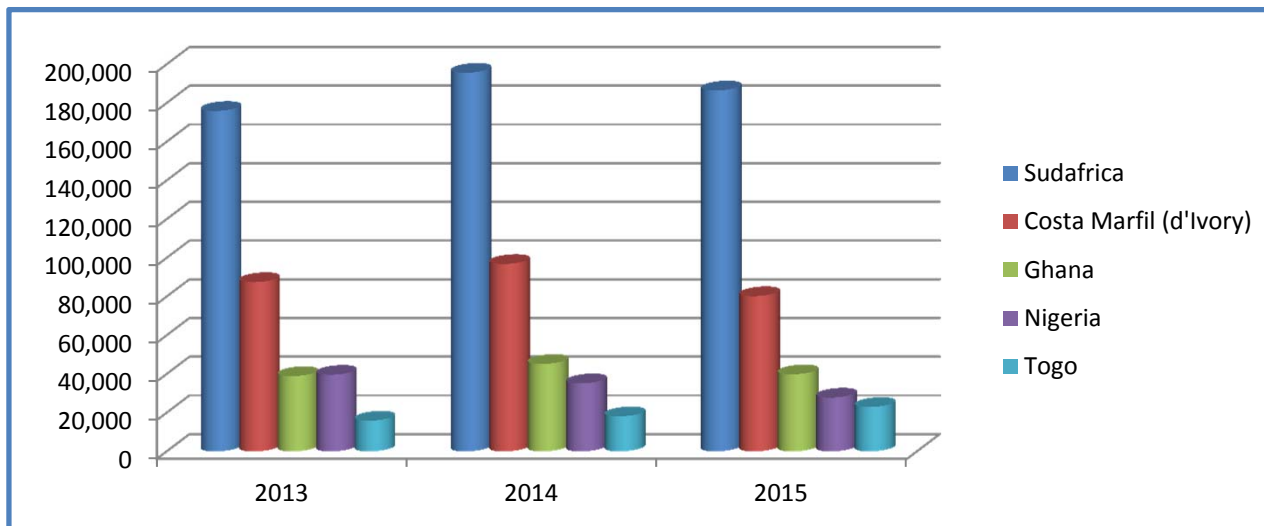




### 5. Traffic Port of Barcelona – West Africa

#### COUNTRIES Tons

	2013				2014				2015			
	Export	Import	T/S	TOTAL	Export	Import	T/S	TOTAL	Export	Import	T/S	TOTAL
	Tones	Tones	Tones	Tones	Tones	Tones	Tones	Tones	Tones	Tones	Tones	Tones
Sudafrica	129.805	39.170	6.915	<b>175.891</b>	149.921	41.399	4.298	<b>195.618</b>	136.888	42.768	6.822	<b>186.479</b>
Costa Marfil (d'Ivory)	31.576	55.582	323	<b>87.480</b>	36.767	55.007	5.064	<b>96.838</b>	21.978	57.055	1.174	<b>80.207</b>
Ghana	15.141	22.390	1.392	<b>38.922</b>	11.716	31.585	1.908	<b>45.208</b>	10.025	29.132	690	<b>39.846</b>
Nigeria	21.840	13.456	4.292	<b>39.588</b>	25.162	8.333	1.674	<b>35.169</b>	19.191	6.931	1.671	<b>27.793</b>
Togo	7.858	6.998	1.032	<b>15.888</b>	11.154	6.632	358	<b>18.144</b>	12.469	9.570	956	<b>22.995</b>
Senegal	27.913	541	943	<b>29.397</b>	26.928	1.061	1.761	<b>29.750</b>	19.813	910	1.136	<b>21.859</b>
Camerún	9.508	7.836	901	<b>18.245</b>	12.402	8.619	3.014	<b>24.035</b>	10.127	6.778	641	<b>17.546</b>
Angola	16.929	51	692	<b>17.672</b>	19.120	79	259	<b>19.457</b>	10.671	600	4.512	<b>15.784</b>
Benin	7.419		830	<b>8.249</b>	7.550	352	70	<b>7.972</b>	8.261	1.383	2.426	<b>12.070</b>
Mauritania	8.140	357	1.260	<b>9.757</b>	9.386	501	706	<b>10.593</b>	7.842	481	1.220	<b>9.543</b>
Others	62.681	6.611	3.440	<b>72.732</b>	47.778	3.876	307	<b>51.962</b>	30.287	4.202	1.446	<b>35.936</b>
<b>Total</b>	<b>338.811</b>	<b>152.992</b>	<b>22.020</b>	<b>513.823</b>	<b>357.883</b>	<b>157.445</b>	<b>19.419</b>	<b>534.747</b>	<b>287.554</b>	<b>159.809</b>	<b>22.695</b>	<b>470.058</b>

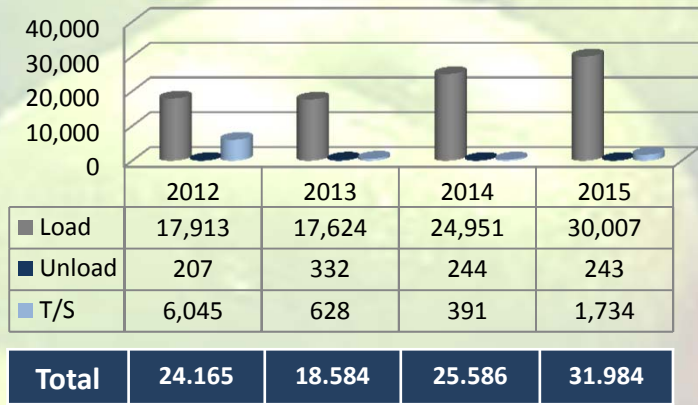




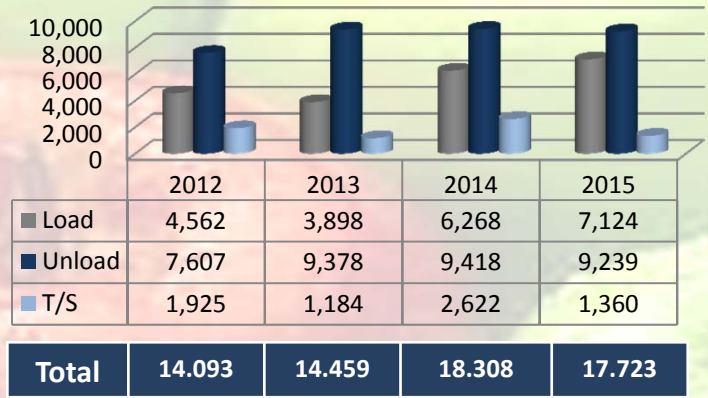
# 5. Reefer Traffic at the Port of Barcelona

## Throughput per products 2012-2015 (TEUs)

### Meat



### Fruit

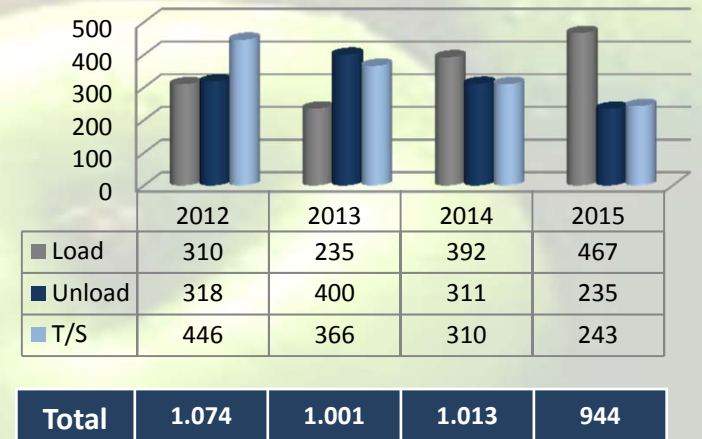


TEUs reefer	2015 vs 2014
Meat	25,00%
Fish	11,54%
Fruit	-3,20%
Vegetables	-6,84%

### Fish



### Vegetables





## 5. Traffic Port of Barcelona – Reefer container trade to West Africa

### TRAFFIC PER PRODUCTS

	2014				2015			
	Export	Import	Transhipment	TOTAL	Export	Import	Transhipment	TOTAL
MEAT	516		40	556	255		438	693
FRUITS & VEGETABLES	147			147	91			91
OTHER FOOD STUFF	84			84	116		2	118
DRINKS	2		2	4	2			2
<b>TOTAL</b>	<b>749</b>	<b>0</b>	<b>42</b>	<b>791</b>	<b>464</b>	<b>0</b>	<b>440</b>	<b>904</b>



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## 6. Client Oriented

Direct support to our customers: port representatives



### Close to our customers

- Europe
- South America
- Asia

**France**

Lyon  
Toulouse

**Spain**

Zaragoza  
Madrid

**Argentina**

**Brasil**

**China**

**Japan**



## 6. Client Oriented



The SAC (Customer Service) is the link between the market and the Port. It acts as a promotion, complaints handling, information requests, incidents resolution, etc.



Portic is the Port Community System of the Port of Barcelona. Improves the competitiveness of the port community through a technological platform that provides an easier interaction



The Quality Team (EQ) is involved in the detection of damage and faults in the goods and in the seal and supports the inspection services; Controls interventions and provides incidents information. It acts at TCB, Tercat, the PIF, and Setram Autoterminal.



The APB has begun to develop logistics consultancy work for those customers that want to improve their logistics, proposing more competitive alternatives than usual.



Information services addressed to end users. Recently, training actions have been initiated in company to exporters and importers.



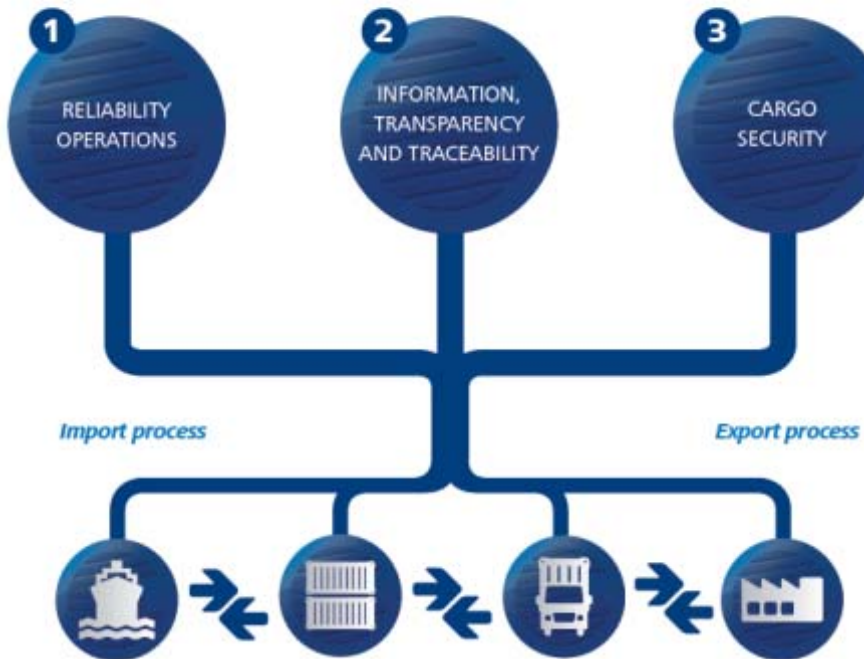
Information service regarding the CO2 generated by the customer logistics chains and advice on more effective alternatives from an environmental point of view.

## 6. Client Oriented Efficiency Network

Efficiency Network is a commitment to quality and efficiency of service between the companies and institutions involved in maritime transportation at Port de Barcelona.

**71 Certified companies: Freight Forwarders, Shipowners, Transport companies, Terminals**

### Efficiency commitments



- Arrival or departure of container
- Loading and unloading
- Bill of lading procedures

- Customs clearance
- Freight inspections
- Container handling

- Border inspection post inspection and scanner
- Hazardous materials authorization
- Entering or leaving the port area

- Collection or delivery of goods
- Safety seal checking





## 6. Client Oriented

### Service efficiency commitments

#### RELIABILITY OF OPERATIONS

- Delivery and collection of goods at committed time
- Customs Clearance within 17 hours
- When BIP inspection required, Custom Clearance of goods within 25 hours
- Cargo loading on the forecasted call
- Bill of lading available 10 hours after ship's departure

#### INFORMATION AND TRANSPARENCY

- Provide reliable information concerning operations and cargo in the Port

#### SECURITY OF GOODS

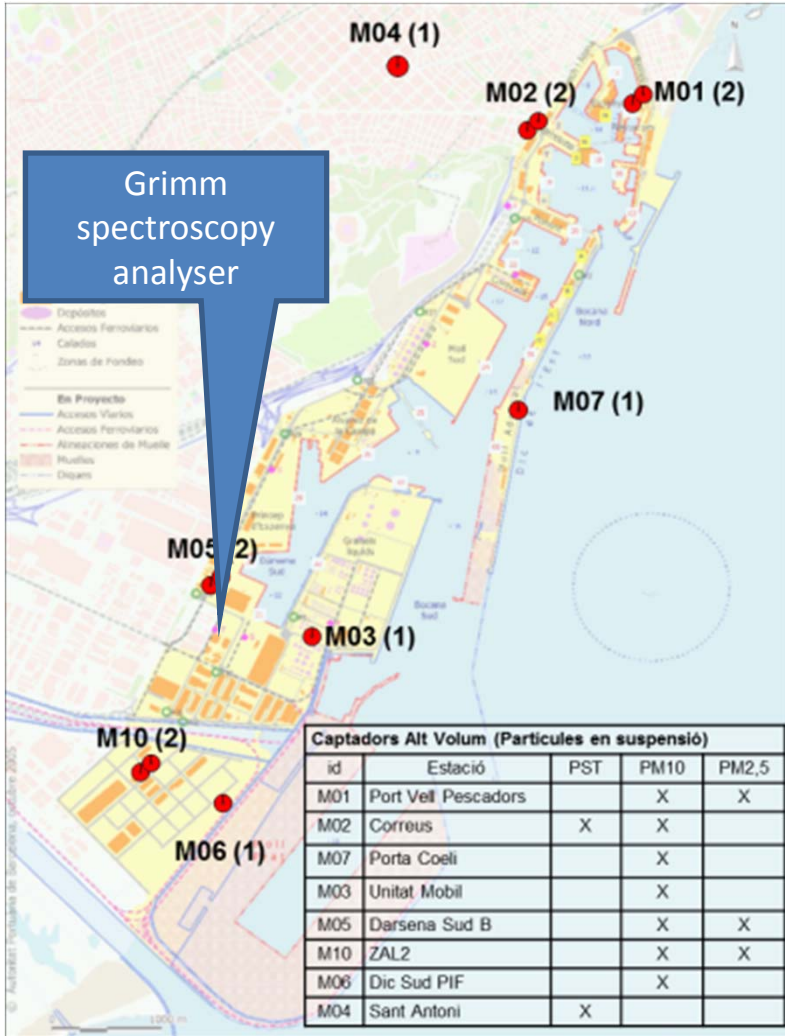
- No incidents on goods during their stay at Port.
- Import containers will be delivered with the same seal they had at their departure from the terminal.

**Breach of these commitments will be compensated with 60€ to 450€**





# 6. Client Oriented : Sustainable Port LNG



Automated analysers	
Station	Analysers
P2-Darsena Sud A	Acid rain
P3-Unitat Mobil	SO2+H2S, NOx, BTEX
10-ZAL2 (GNF)	NOx
P5-Darsena Sud B	SO2, H2S(SO2+H2S), PM(Grimm)



**CITY CLOSENESS CALLS FOR SPECIALLY GOOD ENVIRONMENTAL CONDITIONS AND ZERO INCIDENTS.**





## From a Paperless Port towards a Smart Port

### Continuous IT developments

The **Port of Barcelona** has been awarded by the International Association of Ports and Harbours (**IAPH**) with the **2015 IT award** for the implementation of the **Smart Gate-In** and **Get-Out process**.

**Procedures & EDI messages for VGM (Verified Gross Mass) in force 1st July 2016, ready in PCS (Port Community System)**

**PORTIC is the telematic platform of the Port of Barcelona for efficient and effective exchange of information**

#### You can arrange:

- Shipping contracts
- Land transport procurement
- Customs
- Ship's cargo list
- Financial services
- "Portic Manifiesta" allows to apply calls and berthing, to generate load and unload manifests, and others.





## 6. Client Oriented Ecocalculator

Web tool for calculating CO2 emissions associated to transport routes

- Maritime section: origin port to destination port
- Land section between the Port of Barcelona and the final location: by road or rail (last mile always by road)

Comparisons with other European ports of call

**Port de Barcelona** **ECOCALCULATOR**  
Calculate the ecological footprint of your container transport chain

Route: BEAR - Antwerpen

**CALCULATE**

● Lyon, France  
433 kgCO<sub>2</sub> (705 km)

● BEAR - Antwerpen  
2.368 kgCO<sub>2</sub> (13.458 km)

● ABUH - Abu Dhabi

Route via BEAR - Antwerpen

KILOMETRES	kgCO <sub>2</sub> /TEU	VALETTES
14.161	2.801	

Route via EBON - Barcelona

KILOMETRES	kgCO <sub>2</sub> /TEU	VALETTES
10.190	2.077	-26%

The route via Port de Barcelona is much more environmentally efficient than the route via the port of BEAR - Antwerpen

Viewing Controls

Print

The proposed oceanic route involves transfers and/or feeders. Consult your operator to check the commercial viability of this or go to Port de Barcelona

Example Lyon > Abu Dhabi  
The route via Port of Barcelona has significantly less environmental impact than the route via the Port of Antwerpen  
**-26 % CO2 emissions**



## The Barcelona advantage

- Reduction of **transit time** by 3-4 days **fuel savings** and **lower CO2 emissions** on routes to/from Far East compared with North European Ports.
- Potential **hinterland** of more than 4 million TEU within a radius of 600 km .
- Unique location in one of the largest **commercial and industrial centers** in the Mediterranean.
- **Multimodal corridors** connecting the port with major industrial and consumer areas in Europe.
- The European Union has included Barcelona and its Port as one of the **main nodes of the Mediterranean Corridor**, one of the Europe's main transport corridors.
- Fully **integrated services** for a global market and specialized logistics solutions for different sectors.
- Excellence in Service: worldwide recognition on **Quality and Efficiency** (customs clearance within 17 hours in case of physical inspection), Paper Free Port and development of Logistics Areas.
- **Client oriented:** added value services to increase the competitive advantage for our clients





[www.portdebarcelona.cat](http://www.portdebarcelona.cat)

**Thanks**

