VALPARAISO PORT
Best practices for improving coordination at Port

EMPRESA PORTUARIA VALPARAÍSO
June 2018
Strategic Port
Hinterland

Hinterland Characteristics
- Chilean GDP = 64%
- Chilean Population = 62%

Commerce Distribution
- Exports = 38%
- Imports = 62%

Competitive Advantage
- 110 KM VAP – SCL (INTERNATIONAL AIRPORT)

LOGISTIC MODEL

Distance VAP-SCL
110 Km
Strategic Port
Foreland

Commerce Distribution
Exports = 38%
Imports = 62%

Main International Commerce
China, USA and Europe

Map of the main export destinations of Chile
variation 2017 respect 2016
ZEAL is a Logistic Support Zone, located at 11km from the Port Terminals.

ZEAL MODEL externalize the customs and inspection requirements outside the Port Terminals.

ZEAL CAPACITY
360 Trucks/Hour (in transit)
600 at the installations

Coordination
Port Community System
Best Practices in Port Coordination
ZEAL Logistic Model
Technology and Innovation
First Port Community System made in Chile

TERMINALS
ZEAL

SHIPOWNERS

TRUCKERS

PORT AGENCIES

GOVERNMENT INSTITUTIONS

CONTAINER DEPOSITS

EXPORTERS/IMPORTERS

CUSTOM AGENCIES

NATIONAL CUSTOMS SERVICE

NACIONAL ECONOMÍA

NACIONAL DE DERECHO

NACIONAL DE EXPEDICION

NACIONAL DE TREMOS

NACIONAL DE MERCANTIL

NACIONAL DE COMERCIAL

NACIONAL DE AGRÍCOLA

NACIONAL DE MINERÍA

NACIONAL DE PORTE

NACIONAL DE recreación

NACIONAL DE RECREACIÓN

NACIONAL DE DEPORTE

NACIONAL DE DEPORTE

NACIONAL DE RECREACIÓN

NACIONAL DE DEPORTE
Technology and Innovation
SILOGPORT 2.0 MOBILE PCS APP

✓ Free APP
✓ New Chanel of Comunication
✓ Complete Visibility and Traceability at Port
✓ Complete Information of Operations
✓ Complete integrated with Customs
✓ Custom notification management
✓ Available for Android and iOS
Port Community
Valparaíso Port Logistic Forum

FOLOVAP

5 Permanent workgroups

Infrastructure
Marketing & Competitiveness
Process Improvement and Innovation
Security
Sustainability and RSE
Average Times at Port System

**PORT TERMINALS**
- **CERROS DE VALPARAISO TERMINAL (TCVAL)**
- **SOUTH PACIFIC TERMINAL (TPS)**

**TIME IN SYSTEM**
- **2 Hours Average**

**Average Times**
- **SHIP**
  - **1,5 Hours Average**
  - **45 Minutes Average**
Attributes and Results

- Less use of paper
- Greater security in Port Operations
- 17% more productiveness
- 70% less Total System Time
- US$ 60 Million savings in the Logistic Chain

Differentiation
Integration
Efficiency, flexibility and operations speed
Traceability
Logistic Model Benefits

SUSTAINABILITY CONTRIBUTION
1.2 Million Trucks that not pass through the city
Saving US$ 50 Million/Year

BEFORE ZEAL

AFTER ZEAL

BETTER TIMES IN PORT SYSTEM
Reduction from 8 Hours to 2 Hours Average
Decrease of 75%
Productivity and Port Efficiency

- **TEUs per dock meter**
  - Year 2017
  - World: 1.154
  - Valparaíso: 1.055

- **TEUs per Gantry Crane**
  - Year 2017
  - World: 127.167
  - Valparaíso: 132.675

- **Annual Tons Transferred per Hectare**
  - 716.615

- **Average Total Port System Time**
  - 2006: 08:56:26
  - 2015: 02:29:08
  - 2017: 01:47:35
Limitations of the Logistic Model

Logistic Dependence

Capacity without ZEAL 9 Million TON
Max transfer in 2017
with ZEAL Logistic Model
11.7 Million TON

Bottleneck at Terminals Gates

ZEAL CAPACITY 360 TRUCKS/HOUR
GATE AT TERMINALS 145 TRUCKS/HOUR
Best Practices for the development of Valparaíso Port
Areas of Logistical Support with road connectivity
Development of New Connectivity to the Port

Characteristics:
Sector 1: New viaduct to enter the Terminals
Sector 2 Pratt Pier: Burying of trucks in interzone (95m Platform)
Approximate Inversion MMUS$ 36

State:
Basic engineering finished
Detail Engineering Study in Process
Ambient Impact Evaluation in Process
Areas of Logistical Support & road connectivity

Development of New Intermodal Terminal

6 hours of night window

During the remaining 18h, a set of trucks will transport the goods to the port terminals.

The maximum composition that can be met with this configuration is a train of

32 cars & 64 TEUs

With a maximum of 6 RTGs, each train will be allowed to operate in 45 min average.

Estimated annual operating capacity of

236,000 TEUs
Qualified workforce and operational continuity

17 years without strike
Training and continuous professionalization for the port worker and also in the benefit of a competitive quality service.

Valparaíso Port
A model of Social Peace
Valparaíso Port

Thanks for your attention