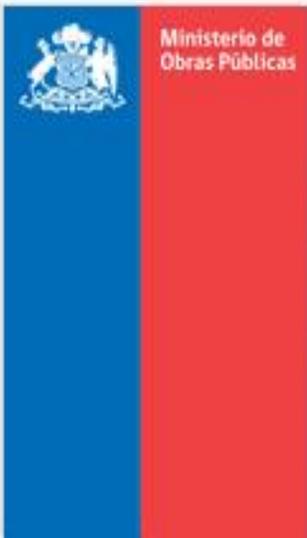


MAIN PROJECTS 2016-2018 MINISTRY OF PUBLIC WORKS - CHILE



October 2015

DIRECT PUBLIC INVESTMENT

- **Upgrade and Rehabilitation of Route 11 CH**
- **Optimization of Route 41 CH**
- **Improvement of Route E-30-F**
- **Upgrade of Route 7 by sections**
- **Provincial Hospital of Curicó**
- **Calama Prison Complex**
- **Canelillo Reservoir**
- **Pocuro Reservoir**
- **Catemu Reservoir**

PROJECT DATA SHEET

UPGRADE AND REHABILITATION

ROUTE 11 CH

NATIONAL ROAD DEPARTMENT
Data Sheet: October 2015

Project Information:	
Location	Arica & Parinacota Region
Objective	Improvement of the international highway Arica to Tambo Quemado.
Description of Works	Maintenance and upgrade of 132 km. in different sections of the Route 11 CH. Asphalt repair, construction of auxiliary tracks, road safety measures, path rectification, bridge construction and environmental measures.
Estimated Investment	2016-2019: US\$ 82 million 2020-2024: US\$ 162 million
Type of Investment	Public
Benefits	Improvement of connectivity between Chile and Bolivia and the access to the Port of Arica. Reduction of risk of accidents and travel times and improving road safety.

Location



Current Situation
Completion of requirements for tendering the first section. Preparation of TOR to bid the design. Generation of plans for Citizen Participation.
Mitigation measures required. Part of the route is within the Lauca National Park.
Engineering design and first section works approved by the Ministry of Social Development and Ministry of Finance
Participation of indigenous communities and expropriations should be considered prior to the executions of the works.

Timetable	
Call for bids first section	Last quarter 2015
Call for bids of engineering design	Second quarter 2016
Call for bids second section	Second quarter 2016
End of works	2024.

Source: Sub-Department of Development, Sub-Department of Works

PROJECT DATA SHEET

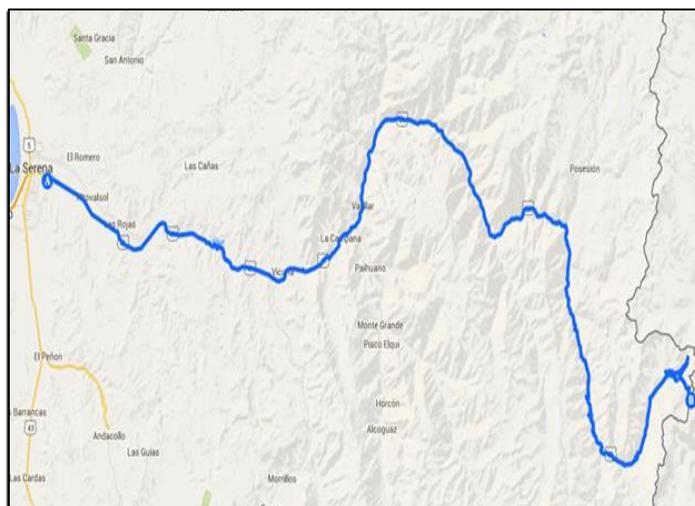
OPTIMIZATION OF ROUTE 41 CH

NATIONAL ROAD DEPARTMENT
Data Sheet: October 2015

Project Information:

Location	Coquimbo Region
Objective	Improvement of the international connection from Coquimbo - La Serena to Argentina (San Juan) and the Mercosur.
Description of works	Improvement works and expansion in some sections. Construction of bridges and protection structures in an international route of 235 km in the Chilean side.
Estimated Investment	2016-2019: US\$ 20 million 2020-2024: US\$193 million
Type of Investment	Public
Benefits	To improve connection between Chile and Argentina and the access to the Port of Coquimbo and the touristic areas in La Serena and Vicuña. Reduce the risk of accidents, reduce travel times and improve safety on the route.

Location



Current Situation

Completion of requirements during 2017 for tendering the first section. Preparation of TOR to bid the design of the second section. Plans for Citizen Participation during the whole Project.
Environmental management measures should be taken even if the Project is not in a National Park
The first section must be evaluated during 2016 by the Ministry of Social Development. The second section has been positively recommended.
Expropriations prior to works execution in the urban area of La Serena.

Timetable

Call for bids engineering design second section	Second quarter 2017
Call for bids first section	Second quarter 2018
Call for bids. Works in second section	Third quarter 2020
End of works	2025

Source: Sub-Department of Development, Sub-Department of Works

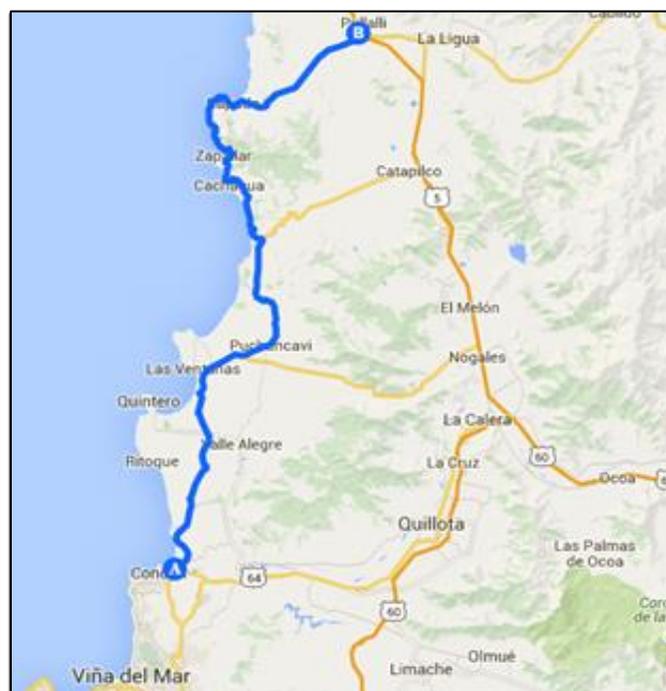
PROJECT DATA SHEET IMPROVEMENT OF ROUTE E-30-F

NATIONAL ROAD DEPARTMENT
Data Sheet: October 2015

Project Information:

Location	Valparaíso Region, from the crossing of National Highway 5 to Zapallar - Puchuncaví - Concón.
Objective	Improve the standard of urban and interurban roads between Zapallar and Concón.
Description of Works	The first section will have 7 m. wide and an outer berm of 2 m. In the urban section a roundabout is considered together with a new bridge over the Aconcagua river
Estimated Investment	2016-2019: US\$ 52 million 2020-2024: US\$ 327million
Type of Investment	Public
Benefits	Improve coastal connectivity in the North of the Region with the reduction of travel times, reduction of the risks of accidents and improvement in safety of the route.

Location



Current Situation

During year 2016 the expropriation process will be completed. Engineering study of expansion works is under way. Citizen participation plans are considered in every stage of the project.
The route is not located in a National Park
All projects are highly recommended by the different Ministries
Expropriations prior to works execution should be considered

Timetable

Call for bids first section	Second quarter 2016
Call for bids second section	Third quarter 2017
Call for bids expansion works	Third quarter 2018
End of works	2024

Source: Sub-Department of Development, Sub-Department of Works

PROJECT DATA SHEET

UPGRADE OF ROUTE 7 BY SECTIONS

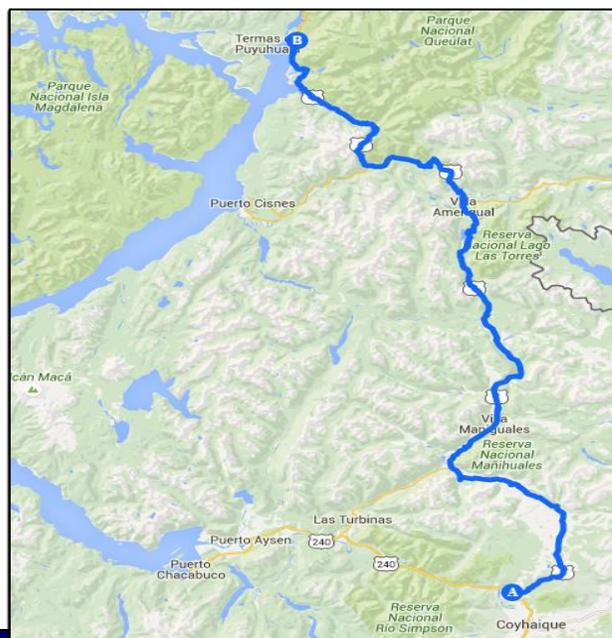
NATIONAL ROAD DEPARTMENT

Data Sheet: October 2015

Project Information:

Location	Aysén Region
Objective	Improve the current standard of the road to adapt it to the requirements of a structural connection.
Description of works	54 km. of a structuring long-distance road, improvement of the standard, geometry, sanitation works and incorporation of security and control elements.
Estimated Investment	US\$ 137 million (2016-2019)
Type of Investment	Public
Benefits	Improve connectivity of the Region, with the reduction of travel times, risk of accidents and the improving of road safety.

Location



Current Situation

This initiative is part of the portfolio of projects of the Special Development Plan for Extreme Areas (PEDZE) of the Region of Aysén. Citizen participation plans are considered.
The route is not located in a National Park
All projects are highly recommended by the different Ministries
Expropriations prior to works execution should be considered

Timeline

Call for bids first section	Second quarter 2016
Call for bids second section	Second quarter 2016
Call for bids third section	Third quarter 2016.
End of works	2019

Source: Sub-Department of Development, Sub-Department of Works

PROJECT DATA SHEET

PROVINCIAL HOSPITAL OF CURICÓ

Project Information:	
Location	Commune of Curicó, Maule Region
Objective	Set up a health infrastructure to give high complexity coverage to 285,000 inhabitants in the province of Curicó
Description of works	Building of seven levels and two undergrounds. Levels one and two for clinical care and ambulatory services are closed. Level three is a mechanical floor. Levels 4, 5 and 6 correspond to hospitalization. It will have 400 beds and 800 parking spaces in an area of 102,930 m ²
Estimated Investment	US\$ 306 million
Type of Investment	Public, Ministry of Health.
Other needs	It should cover: open care, hospitalization, therapeutic procedures, emergency telemedicine and a nursery.

Current Situation
Project with economic technical recommendation by the Ministry of Social Development.
Bidding documents under study by different firms interested in the project.
Indicators: equivalent cost of care: \$CH 5,120, increases to \$10,300 with diagnosis and treatment.
Daily cost of occupied bed \$CH 168,000. Cost when leaving hospital \$CH 1,736,000.

Planning and Coordination Division

NATIONAL DEPARTMENT OF ARCHITECTURE

Data Sheet: October 2015



Timetable	
Call for bids	June 2015
Technical bids opening	December 2015
Economic bids opening	February 2016
Execution of Works	Second quarter 2016 – 2020

PROJECT DATA SHEET

CALAMA PRISON COMPLEX

NATIONAL DEPARTMENT OF
ARCHITECTURE

Data Sheet: October 2015

Project Information:

Location	Crossing of Route 23 CH with Route B-195 Camino Tuina. 31 km from the city of Calama
Objective	Reduce prison overcrowding and improve living conditions and safety of inmates and staff.
Description of works	Replacement of the actual prison with a capacity of 1,084 inmates. Aprox. Area: 45,824 m ² and prisonyards: 19,412 m ²
Estimated Investment	US\$ 177 million
Type of Investment	Public, Ministry of Justice
Other	Photovoltaic solar plant for electrical input connection.

Location



Current Situation

Developing of technical feasibility
Preparation of bidding conditions

Timetable

Technical feasibility and land considered for the Project	2015
Call for bids - Construction design	2016
Call for bids - Construction	2018

Unit Projects, Ministry of Justice

PROJECT DATA SHEET

CANELILLO RESERVOIR

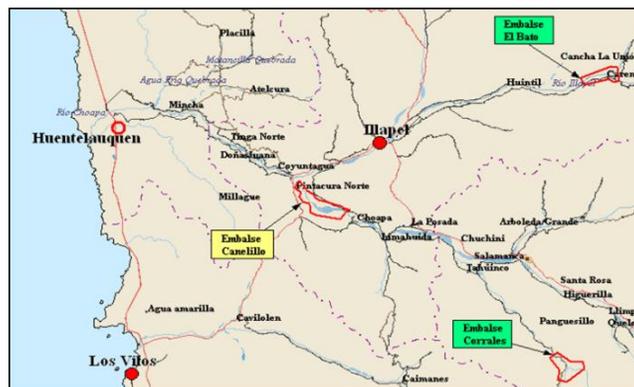
NATIONAL DEPARTMENT FOR HYDRAULIC WORKS

Data Sheet: October 2015

Project Information:

Location	Province of Choapa in Coquimbo Region
Description of works	Capacity: 200 Hm ³ Flood area 800 ha Wall height: 84 m.
Irrigation Area	15,000 ha
Communes	Illapel, Canela, Los Vilos
Estimated Investment	US\$ 164 million
Hydroelectric generation	Under analysis
Water Rights	The National Department has rights for 150 MM m ³ /year. Possibilities to uptake the water near the reservoir under study

Location



Current Situation

Feasibility studies are been executed by Empresa SMI.

Timetable

Feasibility studies	2015-2016
Call for bids - Design	2017 - 2020
Developing of works	2020 - 2027

PROJECT DATA SHEET

POCURO RESERVOIR

NATIONAL DEPARTMENT FOR HYDRAULIC WORKS

Data Sheet: October 2015

Project Information:

Location	Commune of Calle Larga, Region of Valparaíso
Description of Works	Lateral reservoir Reservoir volume: 100 Hm ³ . Dam height: 103 m Feeder Canal: 17 km (from Aconcagua River) and 20 m ³ /s capacity.
Irrigation Area	11.500 ha.
Included Sections	Sections 1 and 2 of Aconcagua River
Estimated Investment	US\$ 308 million
Hidroelectric Generation	Installed capacity of 6 MW at the foot of the dam.
Water Rights	The National Department has water rights for 400 Hm ³ /year in the 1 st section of Aconcagua River.

Location



Current Situation

TOR of feasibility and environmental studies

Working on a model to run in a single contract both design and construction.

Timetable

Call for bids feasibility studies	December 2015
Design and environmental impact assessment	2017
Call for bids: design and construction	Fourth quarter 2017
Start of construction	2018

PROJECT DATA SHEET

CATEMU RESERVOIR

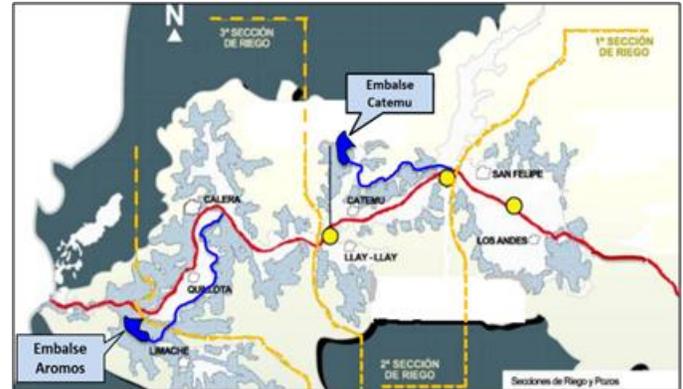
NATIONAL DEPARTMENT FOR HYDRAULIC WORKS

Data Sheet: October 2015

Project Information:

Location	Commune of Catemu. Region of Valparaíso
Description of Works	Volume of the reservoir: 180 Hm ³ . Dam height: 65 m Feeder Canal: 25 km (from Río Aconcagua) and a capacity of 20 m ³ /s.
Irrigation Area	38,000 ha 4,160 benefit properties
Included Sections	Lower areas of 2 nd , 3 rd and 4 th sections of Aconcagua River
Estimated Investment	US\$ 243 million
Hydroelectric Generation	Preliminary evaluation: 5 to 10 MW
Water Rights	The National Department has water rights for 630 Hm ³ /year in the 2 nd section of Aconcagua River.

Location



Current Situation

Technical studies to review and complement the feasibility of the dam are performed via direct contracts
Decision by the Ministry of Environment
Working on a model to run in a single contract both design and construction

Timetable

Completion of design and environmental impact assessment	2016
Environmental decision	2016
Call for bids: design and construction	First quarter 2017

Department of Irrigation Projects

CONCESSIONS

- Re-tender of Route N° 5 Los Vilos – La Serena
- Re-tender of Route F-20 Nogales – Puchuncaví
- Road Connection Highway 68 with Highway 78
- Costanera Central Highway
- Eastern Americo Vespucio Urban Highway
- Fruit Highway, G-66
- Nahuelbuta Route
- Metropolitan Highway of Puerto Montt
- North-South Route of Chiloé

PROJECT DATA SHEET
RE-TENDER OF ROUTE N° 5
LOS VILOS – LA SERENA

PUBLIC WORKS PPP

Data Sheet: October 2015

Project Information:

Location	North of Santiago from km 220 to km. 500
Objective	Re- tender of the contract for Route N° 5 from Los Vilos to Coquimbo , including urban sector between Coquimbo and La Serena
Description of works	<ul style="list-style-type: none"> • 229 km 4-lanes intercity road • 17 km of urban highway with three lanes in each direction
Economic Conditions	<ul style="list-style-type: none"> • Toll road • 0 subsidy • Manual tolls
Estimated Investment	US\$ 225 million
Type of Investment	PPP – BOT
Benefits	<ul style="list-style-type: none"> • Improve urban connectivity • Increase transport capacity on the urban sector • Reduce accidents

Location



Current Situation

- Private Initiative
- Finishing project proposal
- Preparation of bidding conditions

Timetable

Call for bids	Third quarter of 2016
Reception of bids	First quarter of 2017
Contract award	Second quarter of 2017

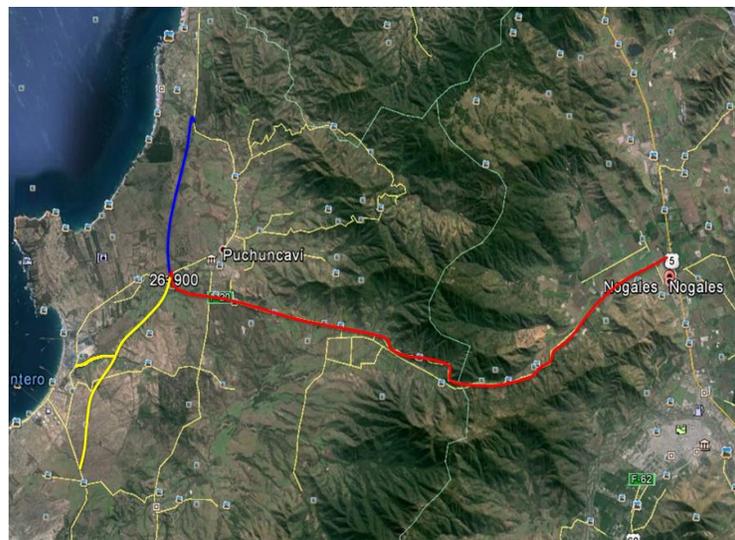
Fuente: CCOP

PROJECT DATA SHEET**RE-TENDER OF ROUTE F-20
NOGALES-PUCHUNCAVI****PUBLIC WORKS PPP**

Data Sheet: October 2015

Project Information:

Location	110 km north of Santiago
Objective	Improve connectivity to the west towards an important touristic area near the seaside.
Description of works	<ul style="list-style-type: none"> Improve a 27 km 4-lanes road with a monthly average traffic of 80.000 vehicles doubling during summer.
Economic Conditions	<ul style="list-style-type: none"> Toll road Estimated 25% of state subsidy Free flow tolls
Estimated Investment	US\$ 210 million
Type of Investment	PPP – BOT
Benefits	<ul style="list-style-type: none"> Improve connectivity Reduce transport costs Reduce accidents, safety conditions and travel time

Location**Current Situation**

<ul style="list-style-type: none"> Finishing technical studies Final approval of economic conditions Preparation of bidding contracts
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Timetable

Call for bids	Fourth quarter of 2015
Reception of bids	First quarter of 2016
Contract award	Second quarter of 2016

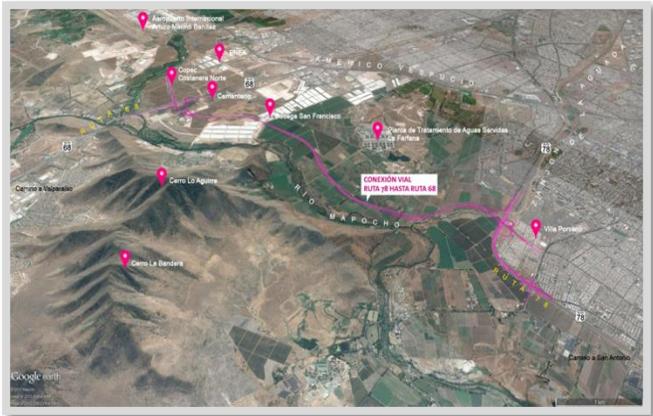
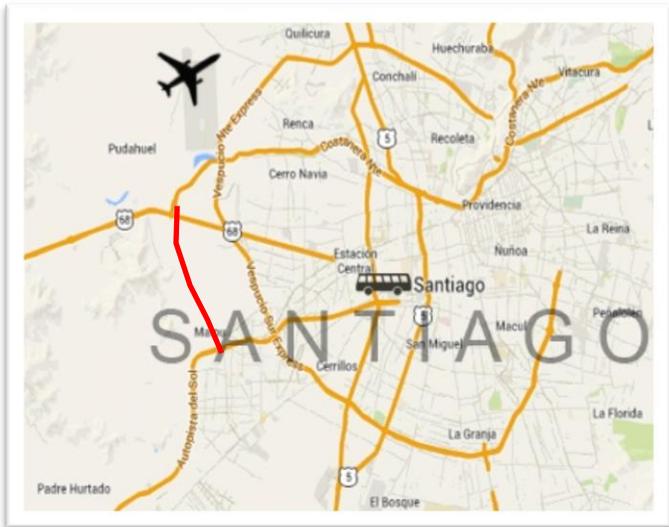
Source: CCOP

PROJECT DATA SHEET
ROAD CONNECTION OF
HIGHWAY 68 WITH HIGHWAY 78

PUBLIC WORKS PPP
 Data Sheet: October 2015

Project Information:	
Location	Western side of Santiago Metropolitan Area
Objective	Improvement of transport system, connectivity and infrastructure standard of Santiago
Description of works	<ul style="list-style-type: none"> Construction of a 9,4 km 4-lanes road to reduce traffic impact in urban zones
Economic Conditions	<ul style="list-style-type: none"> Toll road Non subsidies Free flow tolls
Estimated Investment	US\$ 220 million
Type of Investment	PPP – BOT
Benefits	<ul style="list-style-type: none"> Improve connectivity between central and western areas of Santiago Improve connection to the main seaports avoiding to cross through Santiago. Better local urban development Reduction of accidents, travel times and pollution emissions.

Location



Current Situation
<ul style="list-style-type: none"> Finishing technical studies Preparation of bidding contracts

Timetable	
Call for bids	Second quarter of 2016
Reception of bids	Third quarter of 2016
Contract award	Fourth quarter of 2016

Source: CCOP

PROJECT DATA SHEET
COSTANERA CENTRAL HIGHWAY

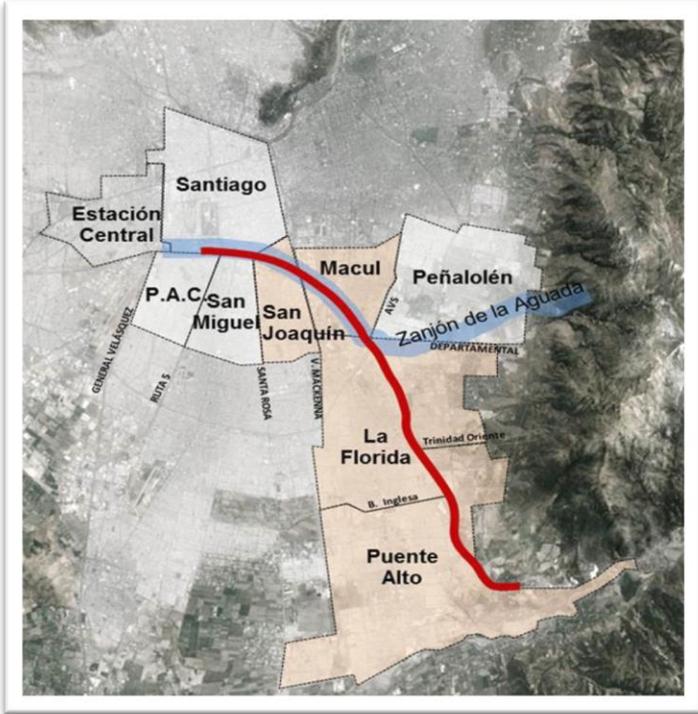
Project Information:	
Location	South-east side of Santiago Metropolitan area
Objective	Improvement of transport system, connectivity and infrastructure standard of the city
Description of works	<ul style="list-style-type: none"> Building a high standard underground highway in a 22 km long axis
Economic Conditions	<ul style="list-style-type: none"> Toll road Estimated 40% of state subsidy Free flow tolls
Estimated Investment	US\$ 2 billion
Type of Investment	PPP – BOT
Benefits	<ul style="list-style-type: none"> Improvement of connectivity between south-east districts and downtown Reduction of traffic congestion. Reduction of operational costs. Improvement of safety conditions.

Current Situation
<ul style="list-style-type: none"> Private initiative Developing of technical studies Consultations with local communities

Source: CCOP

PUBLIC WORKS PPP
 Data Sheet: October 2015

Location



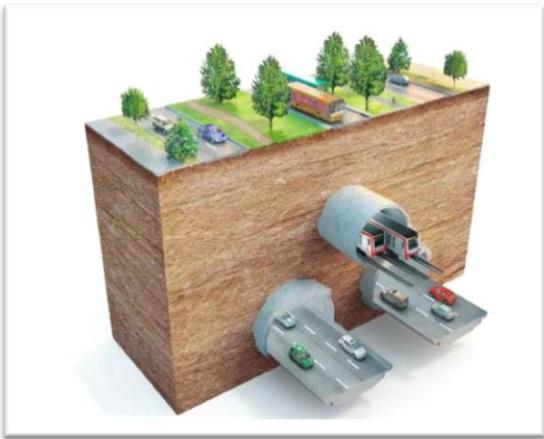
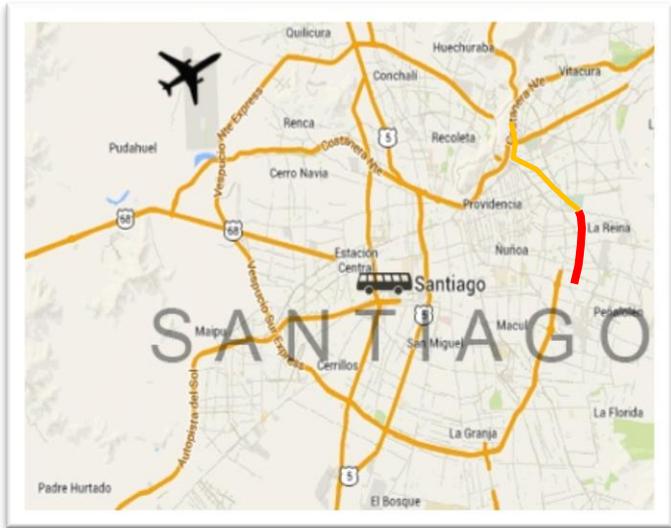
Timetable	
Call for bids	Fourth quarter of 2016
Reception of bids	Second quarter of 2017
Contract award	Third quarter of 2017

PROJECT DATA SHEET
EASTERN AMERICO VESPUCCIO URBAN HIGHWAY

PUBLIC WORKS PPP
Data Sheet: October 2015

Project Information:	
Location	Eastern side of Santiago
Objective	Complete the Americo Vespucio ring road with high quality and service standards
Description of works	<ul style="list-style-type: none"> Construction of two underground double tracks with 3 lanes each Urban redeveloping in surface considering larger green areas and more facilities for urban transportation
Economic Conditions	<ul style="list-style-type: none"> Toll road Estimated 15% of state subsidy Free Flow Tolls
Estimated Investment	US\$ 800 million
Type of Investment	PPP – BOT
Benefits	<ul style="list-style-type: none"> Complete the Américo Vespucio ring road with a high service standard Reduce accidents and traffic jams, mainly during rush hours. Reduce commuting time and pollution emissions. Improve public transportation and connectivity in the city.

Location



Current Situation	
	<ul style="list-style-type: none"> Finishing technical studies Preparation of bidding contracts Closing agreements with local authorities

Timetable	
Call for bids	First semester of 2016
Reception of bids	Second semester of 2016
Contract award	Second semester of 2016

Source: CCOP

PROJECT DATA SHEET
FRUIT HIGHWAY, G-66

PUBLIC WORKS PPP
Data Sheet: October 2015

Project Information:	
Location	120 km south from Santiago to the port of San Antonio
Objective	Improve connectivity for small and medium producers (fruits, vegetables and wine) from O'Higgins and Maule Regions to the port of San Antonio
Description of works	<ul style="list-style-type: none"> Restore and improve 138 km of the existing road and construction of a bidirectional road to reduce traffic impact in urban zones Construction of a 21 km 4-lanes road
Economic Conditions	<ul style="list-style-type: none"> Toll road Estimated 60% of state subsidy Free Flow Tolls
Estimated Investment	US\$ 600 million
Type of Investment	PPP – BOT
Benefits	<ul style="list-style-type: none"> Improve connectivity Reduce transport costs for local producers Reduce accidents

Location



Current Situation	
<ul style="list-style-type: none"> Finishing technical studies Preparation of bidding contracts Closing agreements with local authorities near San Antonio 	

Timetable	
Call for bids	First semester of 2016
Reception of bids	First quarter of 2017
Contract award	Second quarter of 2017

Source: CCOP

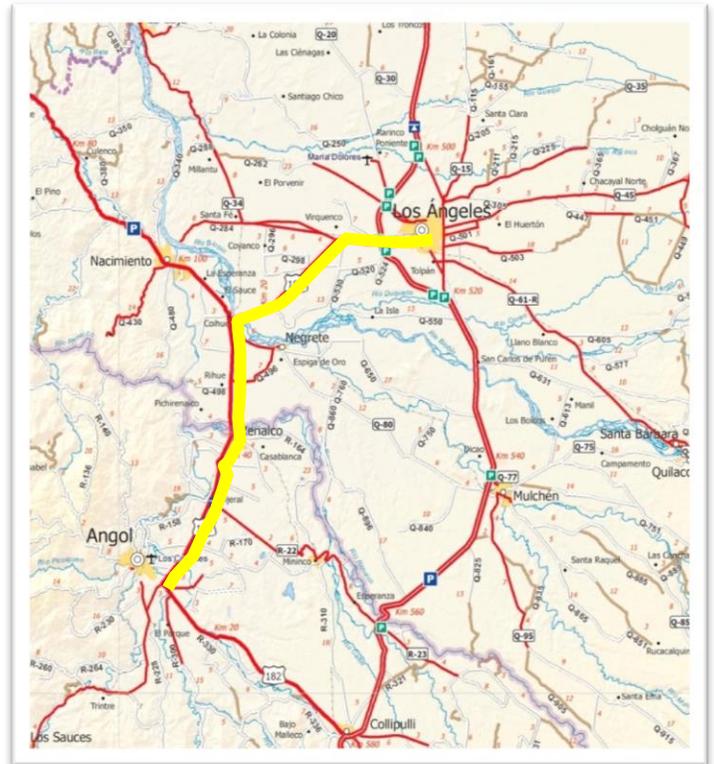
**PROJECT DATA SHEET
NAHUELBUTA ROUTE**

**PUBLIC WORKS PPP
Data Sheet: October 2015**

Project Information:

Location	Km 520 south of Santiago
Objective	Improve connectivity and maximize economic and social benefits in a forestry area
Description of works	<ul style="list-style-type: none"> • 55 km road • 4-lanes highway • Uneven links
Economic Conditions	<ul style="list-style-type: none"> • Toll road • Estimated 41% of state subsidy • Manual Tolls
Estimated Investment	US\$ 254 million
Type of Investment	PPP – BOT
Benefits	<ul style="list-style-type: none"> • Connectivity improvement • Reduction of transport costs for local producers • Reduction of accidents

Location



Current Situation

- Bidding conditions under revision by the Legal Department
- Closing agreements with local authorities and indigenous communities

Timetable

Call for bids	First semester of 2016
Reception of bids	Second quarter of 2016
Contract award	Third quarter of 2016

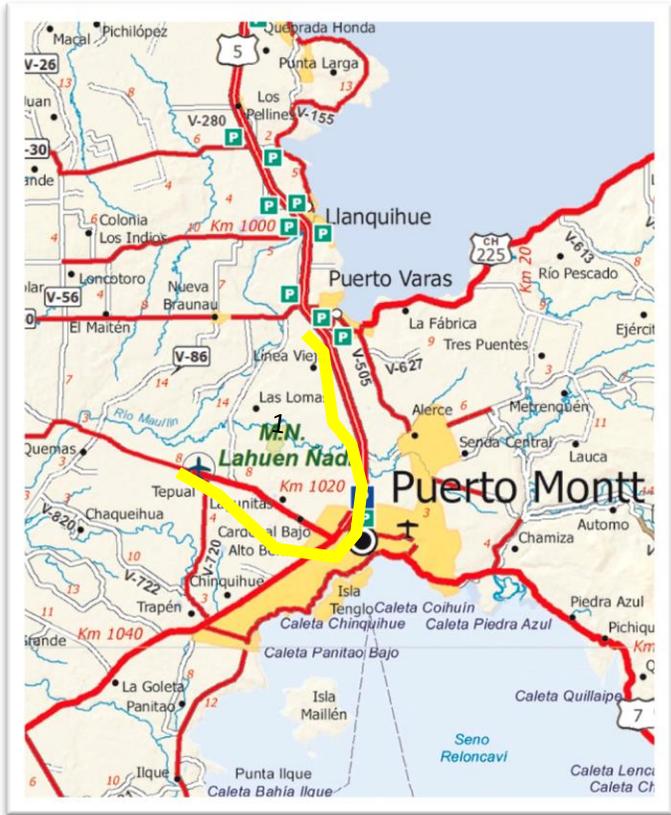
Source: CCOP

PROJECT DATA SHEET
METROPOLITAN HIGHWAY OF
PUERTO MONTT

PUBLIC WORKS PPP
 Data Sheet: October 2015

Project Information:	
Location	Puerto Montt - 1.000 km. south of Santiago
Objective	<ul style="list-style-type: none"> • Improvement of transport system, connectivity and infrastructure standard of Puerto Montt • Improvement of connection between Puerto Varas and El Tepual Airport
Description of works	<ul style="list-style-type: none"> • 4-lanes highway in 34 km. • High urban standard
Economic Conditions	<ul style="list-style-type: none"> • Toll road • Estimated 30% of state subsidy • Free flow tolls
Estimated Investment	US\$ 340 million
Type of Investment	PPP – BOT
Benefits	<ul style="list-style-type: none"> • Improvement of connectivity between Puerto Montt and Puerto Varas • Reduction of traffic congestion. • Reduction of operational costs. • Improvement of safety conditions.

Location



Current Situation	
Current Situation	<ul style="list-style-type: none"> • Private initiative • Developing of technical studies • Defining economic conditions

Timetable	
Call for bids	Fourth quarter of 2016
Reception of bids	Second quarter of 2017
Contract award	Second quarter of 2017

Source: CCOP

PROJECT DATA SHEET
NORTH-SOUTH CHILOE ROUTE)

PUBLIC WORKS PPP
Data Sheet: October 2015

Project Information:	
Location	1.100 km south of Santiago
Objective	Improve and extend the transportation system in the island of Chiloé
Description of works	<ul style="list-style-type: none"> • 101 km road • Second bridge over Pudeto river • New by-pass to Ancud.
Economic Conditions	<ul style="list-style-type: none"> • Toll road • Estimated 25% of state subsidy • Free Flow Tolls
Estimated Investment	US\$ 262 million
Type of Investment	PPP – BOT
Benefits	<ul style="list-style-type: none"> • Improve connectivity • Increase transport capacity on the trunk road of the island • Reduce accidents

Location



Current Situation	
Current Situation	<ul style="list-style-type: none"> • Private initiative • Finishing project proposal • Preparation of bidding conditions

Timetable	
Call for bids	Third quarter of 2017
Reception of bids	First quarter of 2018
Contract award	First quarter of 2018

Source: CCOP

CONTACTS

– DIRECT INVESTMENTS

- a) Road Projects: Miguel Ángel Carvacho, Director of National Road Department, Morandé 59, floor 2, Santiago, Chile, email: miguel.carvacho@mop.gov.cl
- b) Projects of Public Buildings: Claudia Silva, Head of National Department of Architecture, Morandé 59, floor 9, Santiago, Chile, email: claudia.silva.p@mop.gov.cl
- c) Reservoir Projects: Reinaldo Fuentealba, Director of National Department for Hydraulic Works, Morandé 59, floor 5, Santiago, Chile, email: reinaldo.fuentealba@mop.gov.cl

– CONCESSIONS

Concessions Coordinator: Eduardo Abedrapo, Merced 753, Santiago, Chile, email: eduardo.abedrapo@mop.gov.cl

– INTERNATIONAL COORDINATION

International Coordinator: rigoberto García G, Morandé 59, floor 6, Santiago, Chile, email: rigoberto.garcia@mop.gov.cl