

Maps



Network
Statement
2019
V.1



Maps





MAPS OF ADIF MANAGED NETWORK

Map

- RFIG, owned by Adif.

Map 1

- Operating Territory Areas.

Map 2

- Passenger transport stations, Maximum length of passenger trains, Commuter Hubs and Maximum Speeds.

Map 2.1

- Lines and Passenger Transport Stations on metric gauge lines.

Map 2.2

- Maximum speeds of metric gauge lines.

Map 2.3

- Passenger trains maximum length for metric gauge lines.

Map 3

- Main Freight Transport Terminals, Fuel Supply Fix Points, Maximum Length of Freight Trains, Dynamic Weighbridges and Ports of General Interest with Connection Agreement to the General Interest Rail Network.

Map 3.1

- Maximum Length of Freight Trains on Metric Gauge Lines.

Map 4

- Distances in Kilometers and characteristic Ramps in thousandths.

Map 4.1

- Distances in Kilometers of metric gauge lines.

Map 4.2

- Characteristic Ramps in thousandths of metric gauge lines.

Map 5

- Types of Electrification and Catenaries, Safety and Blocking Systems.

Map 5.1

- Types of Electrification and Catenaries of metric gauge lines.

Map 5.2

- Safety and Blocking Systems of metric gauge lines.

Map 6

- Track gauge and Changers and types.

Map 7

- Private Loaders with connection to the General Interest Rail Network.

Map 7.1

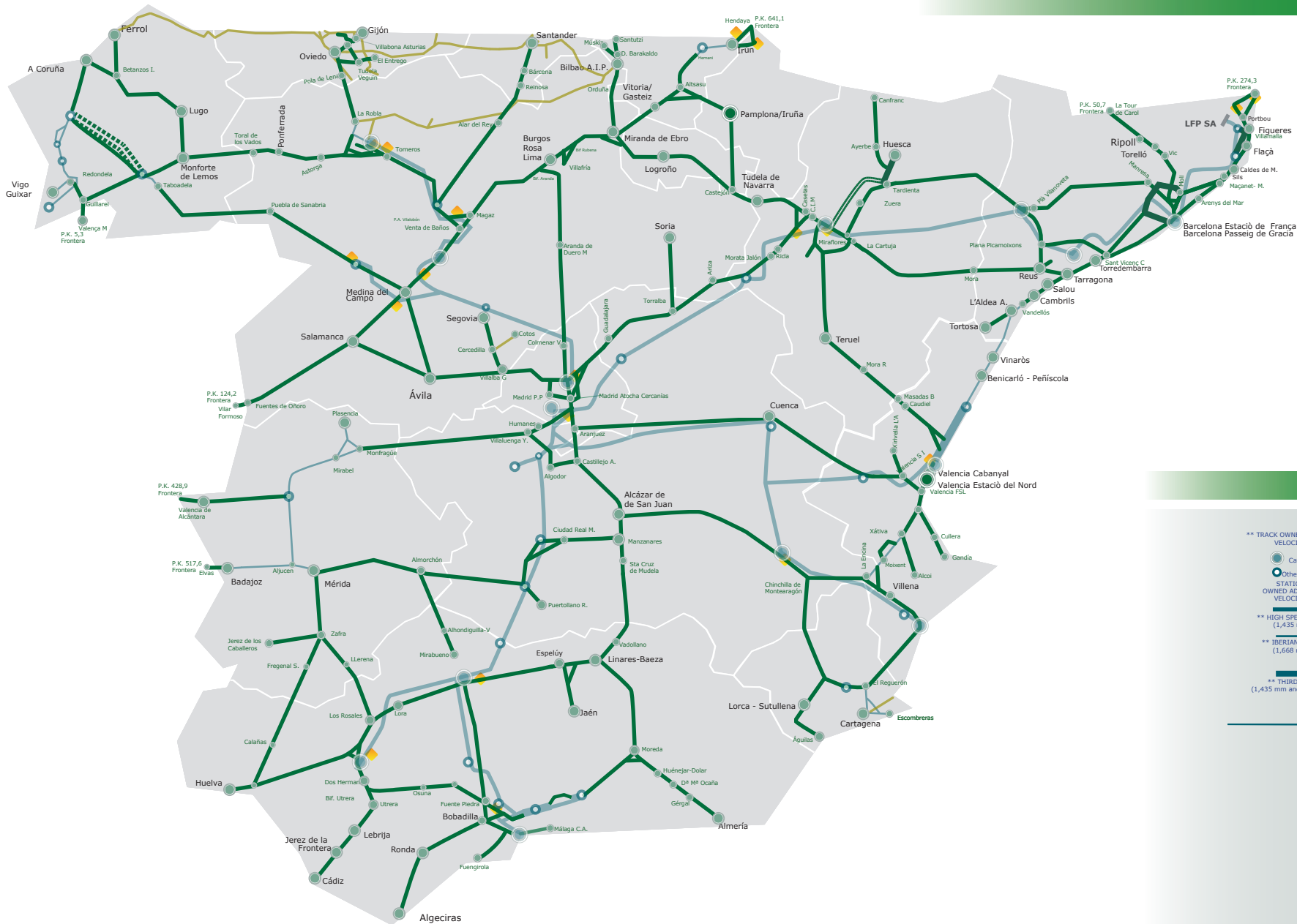
- Private Loaders with connection to the General Interest Rail Network of metric gauge lines.

These maps are available in attached document on the Adif Web, in interactive Pdf format that allow to add and disaggregate layers to individually visualize and print, the contents of each.



Maps



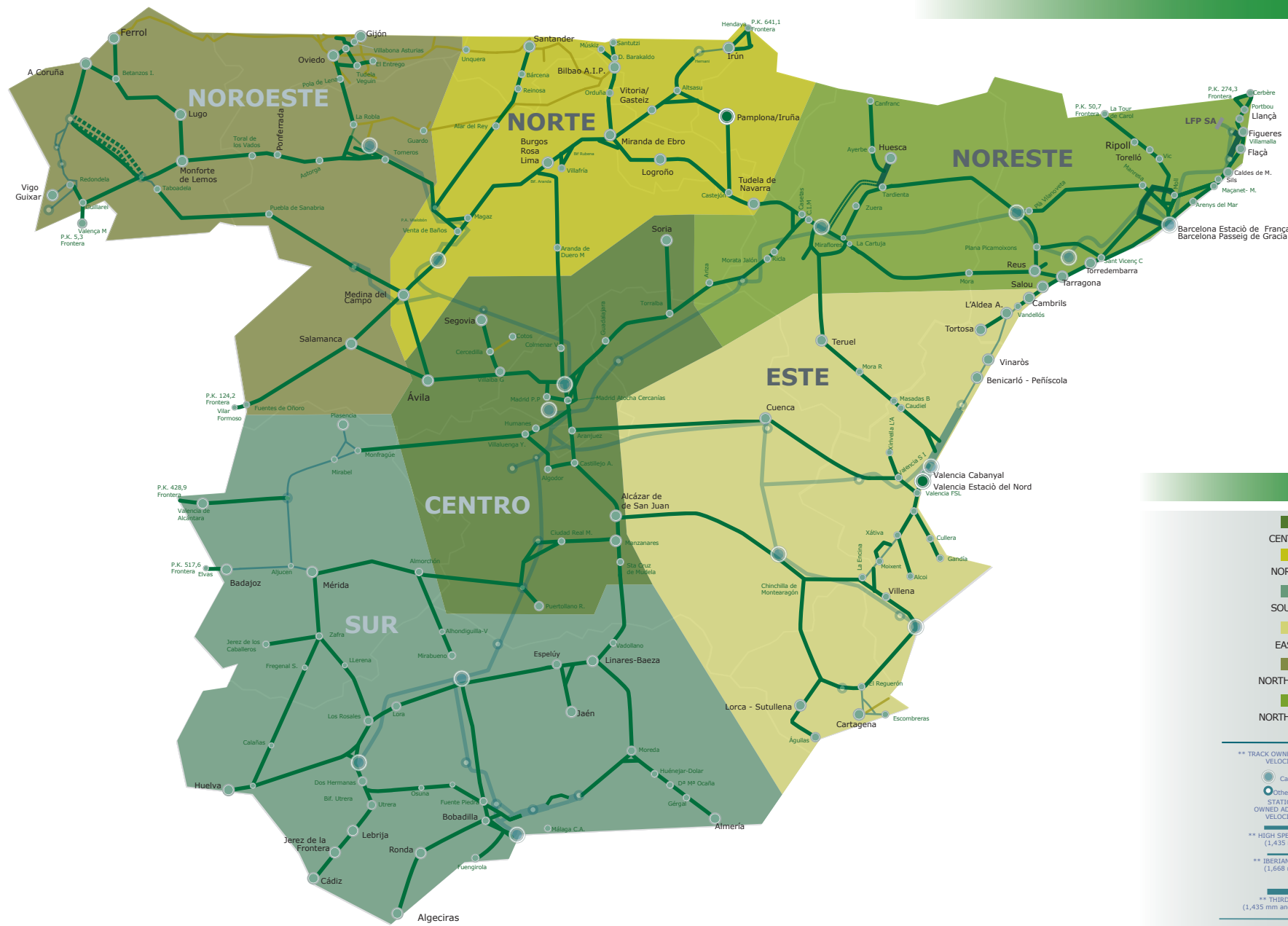


1 July 2019

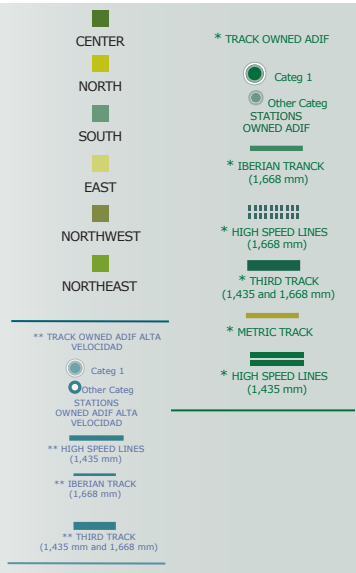
- ** TRACK OWNED ADIF ALTA VELOCIDAD
- Categ 1
- Other Categ
- STATIONS OWNED ADIF ALTA VELOCIDAD
- STATIONS OWNED ADIF
- ** HIGH SPEED LINES (1,435 mm)
- ** IBERIAN TRACK (1,668 mm)
- ** THIRD TRACK (1,435 mm and 1,668 mm)
- * TRACK OWNED ADIF
- Categ 1
- Other Categ
- * IBERIAN TRACK (1,668 mm)
- * HIGH SPEED LINES (1,668 mm)
- * THIRD TRACK (1,435 and 1,668 mm)
- * METRIC TRACK
- * HIGH SPEED LINES (1,435 mm)

◇ CHANGER

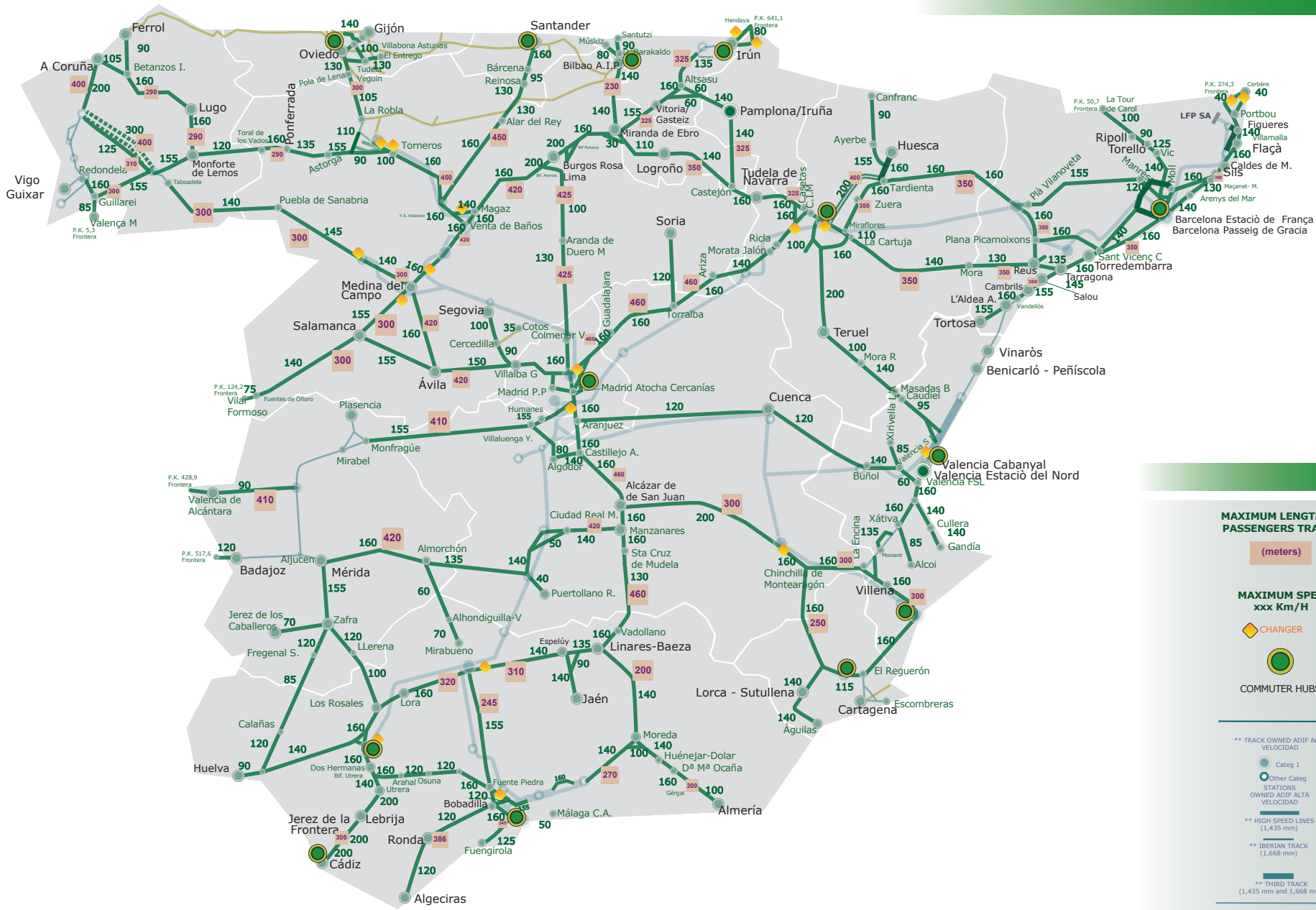
MAP 1 ADIF



1 July 2019



MAP 2 ADIF



1 July 2019

MAXIMUM LENGTH OF PASSENGER TRAINS
(meters)

MAXIMUM SPEED xxx Km/H

CHANGER

COMMUTER HUBS

TRACK OWNED ADIF ALTA VELOCIDAD

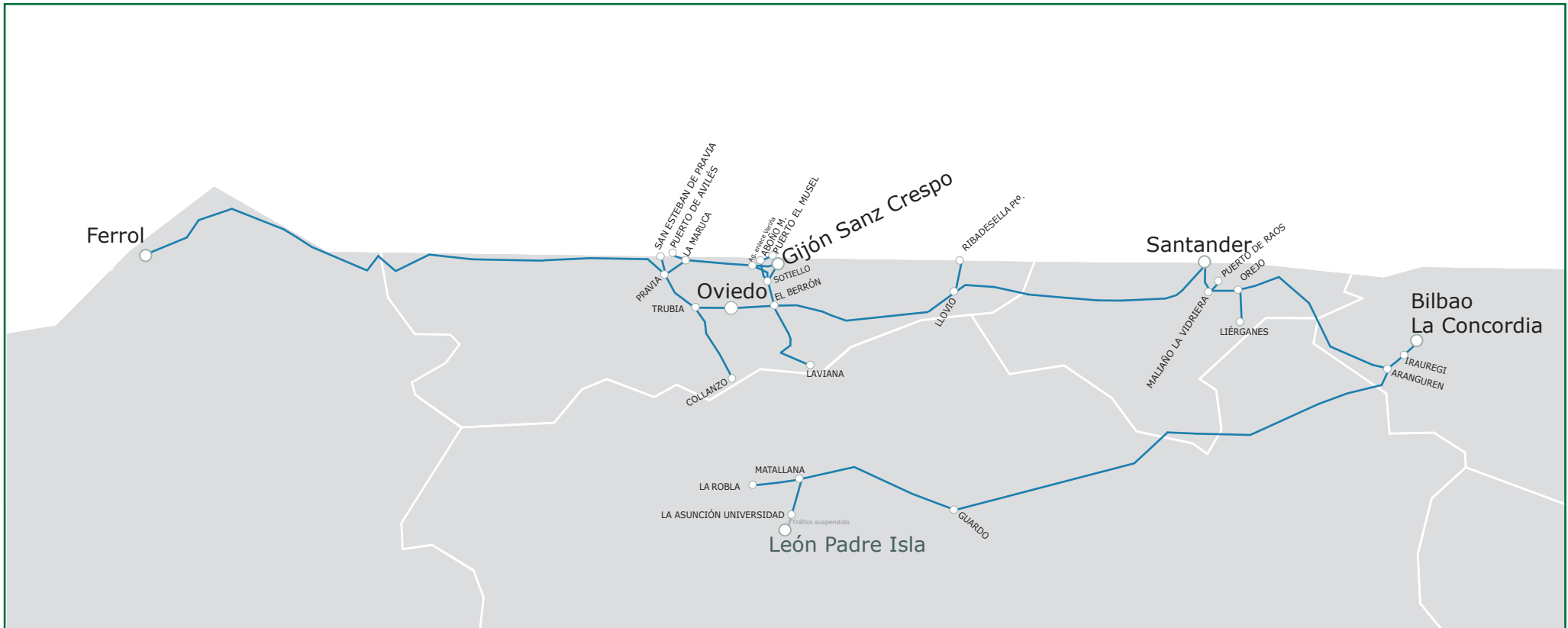
TRACK OWNED ADIF

- Categ 1
- Other Categ STATIONS OWNED ADIF
- * IBERIAN TRACK (1,668 mm)
- * HIGH SPEED LINES (1,668 mm)
- * THIRD TRACK (1,435 and 1,668 mm)
- * METRIC TRACK
- * HIGH SPEED LINES (1,435 mm)

TRACK OWNED ADIF ALTA VELOCIDAD

- Categ 1
- Other Categ STATIONS OWNED ADIF ALTA VELOCIDAD
- ** HIGH SPEED LINES (1,435 mm)
- ** IBERIAN TRACK (1,668 mm)
- *** THIRD TRACK (1,435 mm and 1,668 mm)

MAP 2.1 LINES AND STATIONS ON METRIC GAUGE LINES

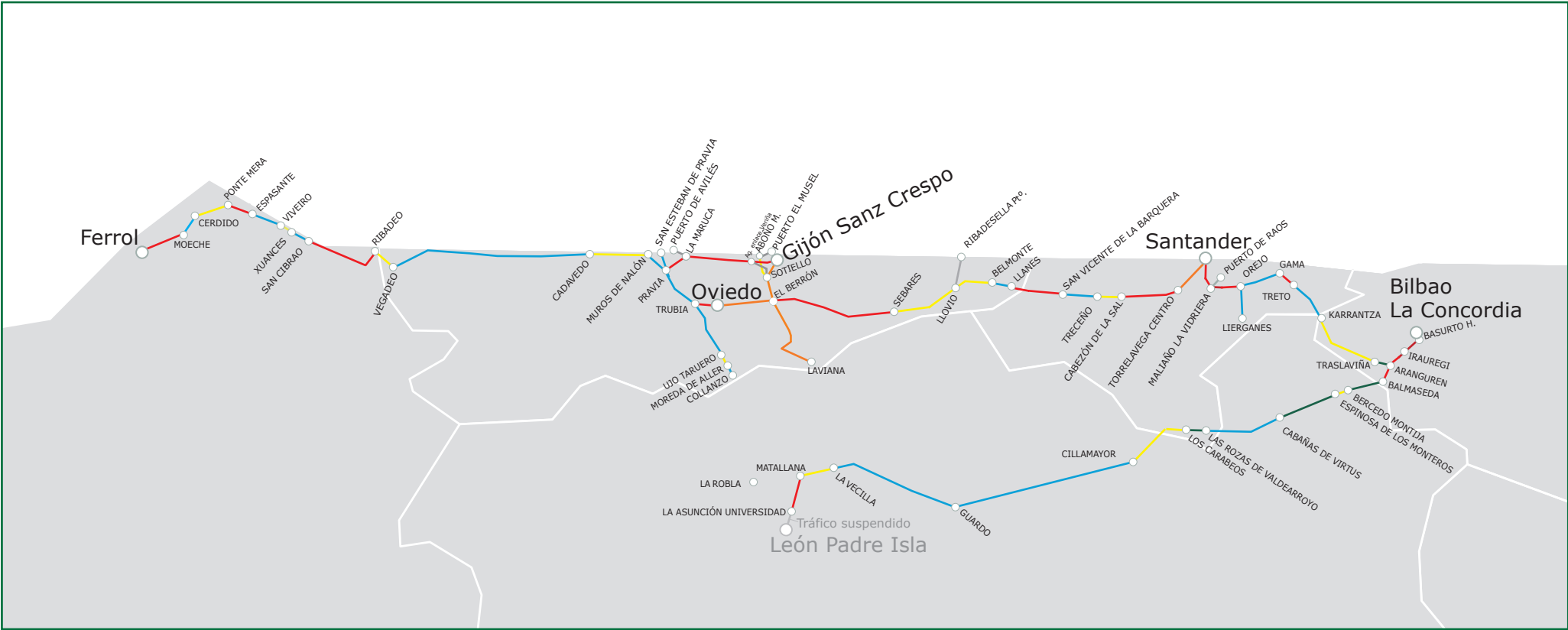


31 July 2018

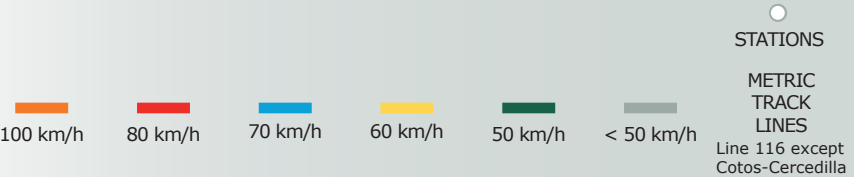
METRIC
TRACK
LINES
line 116 except
Cotos-Cercedilla

○
MAIN
PASSENGER
STATIONS

○
OTHER
STATIONS

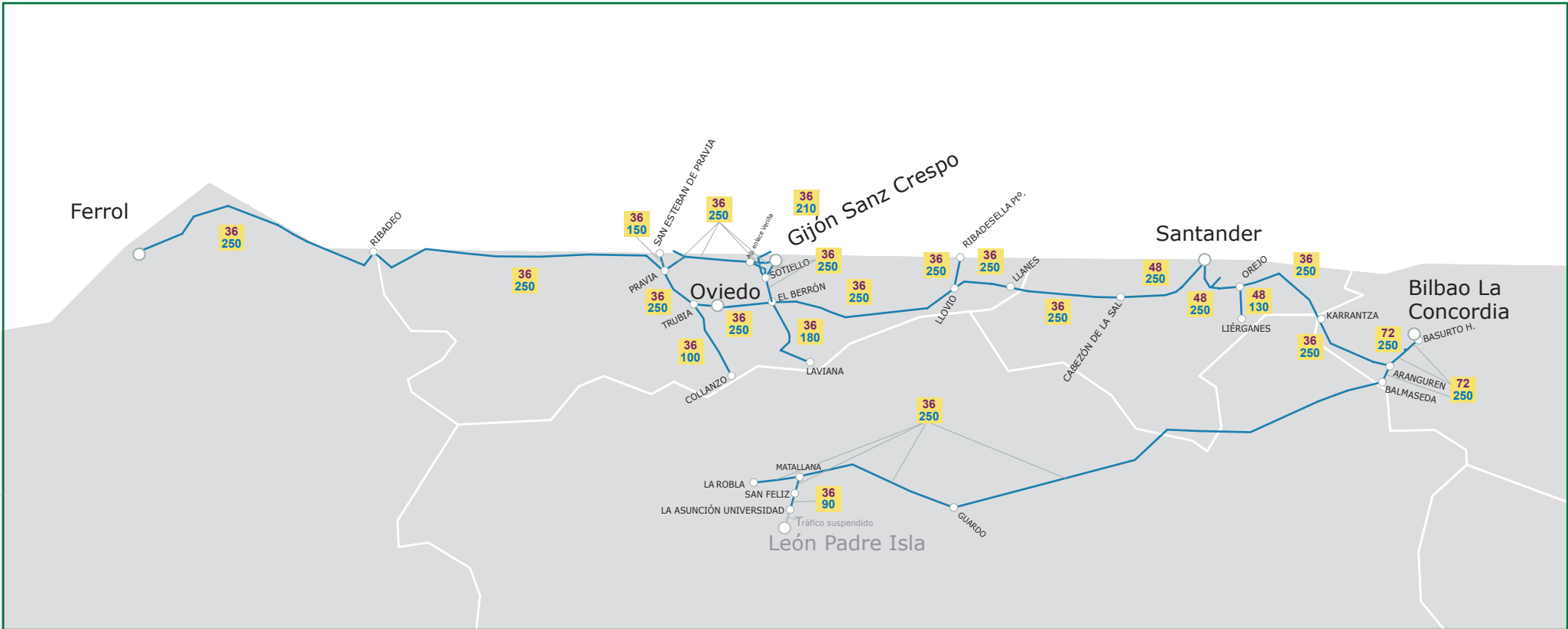


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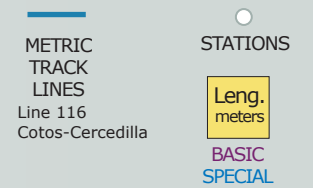


MAP 2.3

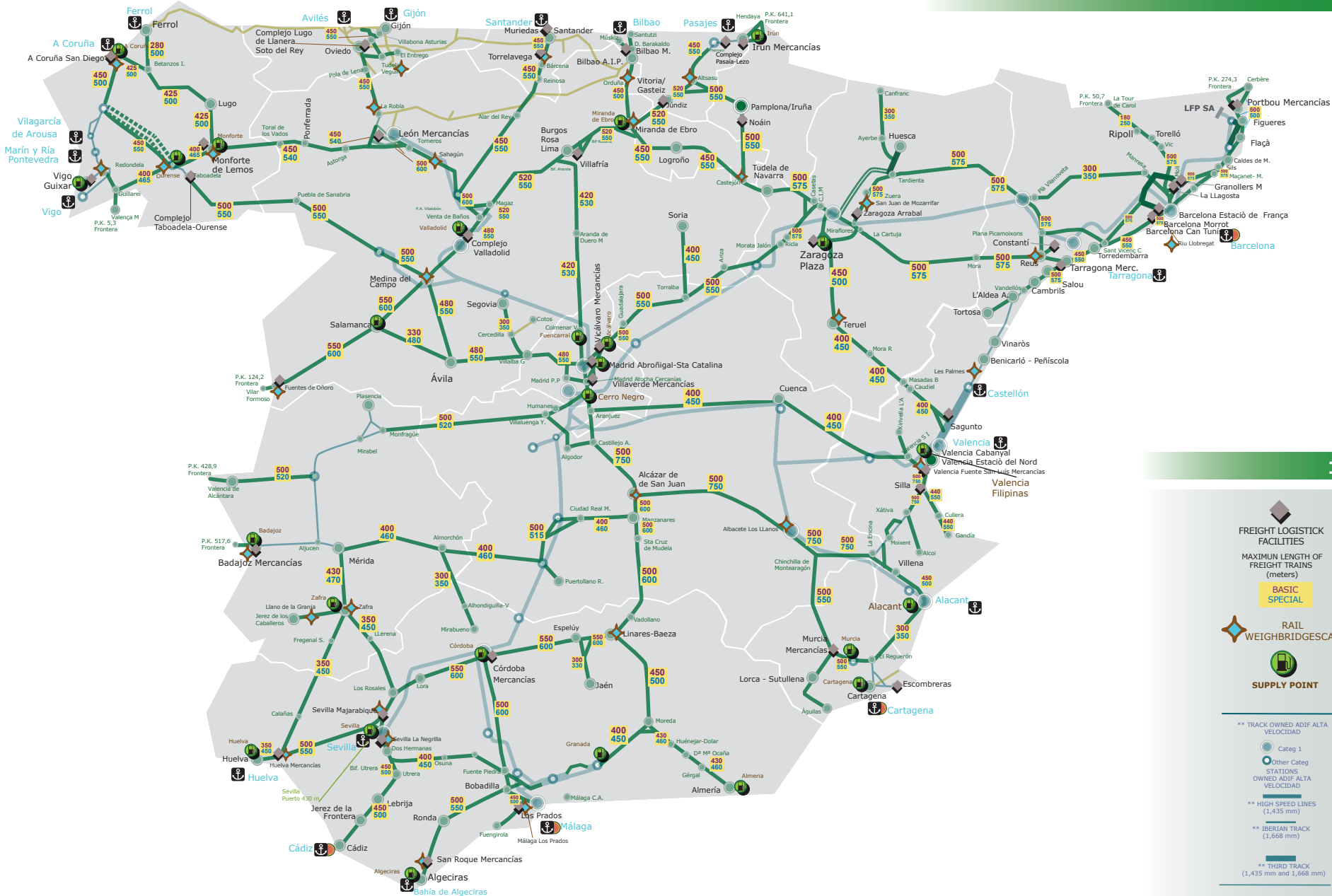
MAXIMUM LENGTH OF PASSENGER TRAINS ON METRIC GAUGE LINES



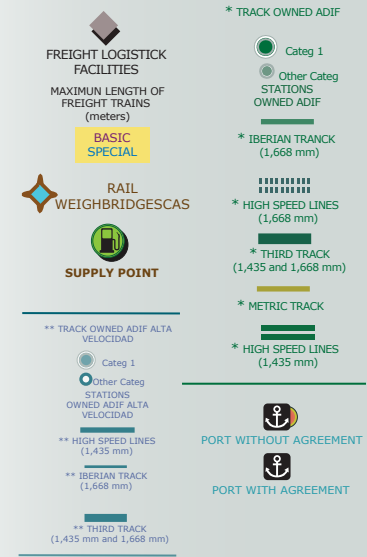
31 July 2018



MAP 3 ADIF



1 July 2019



The ports of Vigo, Marín and Ría from Pontevedra and Vilagarcía de Arousa, are connected to RFIG owned by Adif Alta Velocidad

MAP 3.1

MAXIMUM LENGTH OF FREIGHT TRAINS ON METRIC GAUGE LINES



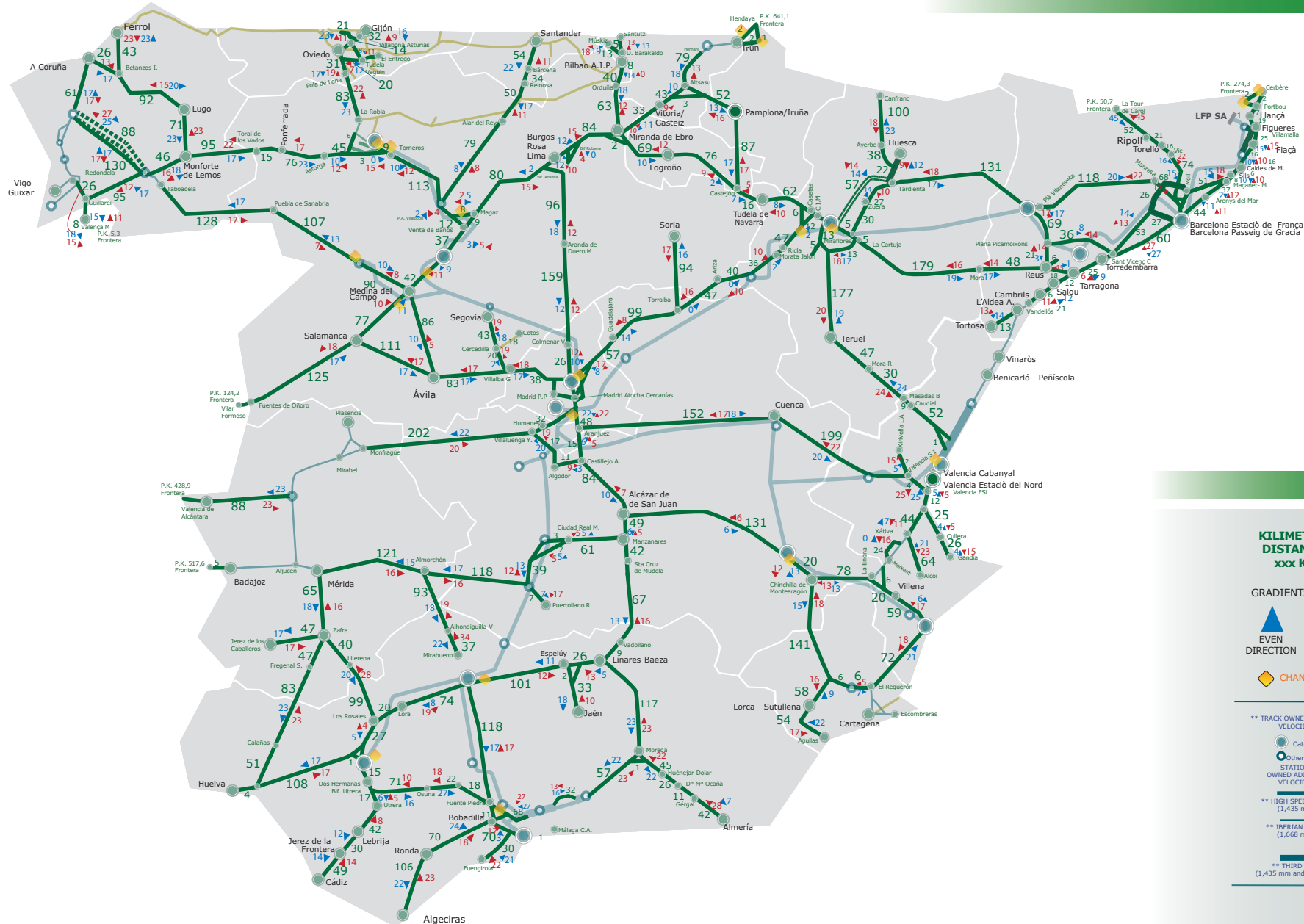
31 July 2018

— METRIC TRACK LINES
 Line 116 Cotos-Cercedilla

● STATIONS

Long. meters
BASIC
SPECIAL

MAP 4 ADIF



1 July 2019

KILIMETRIC DISTANCES xxx Km

GRADIENTS (millions)

▲ EVEN DIRECTION
▲ ODD DIRECTION

◆ CHANGER

** TRACK OWNED ADIF ALTA VELOCIDAD

● Categ 1
● Other Categ STATIONS OWNED ADIF ALTA VELOCIDAD

** HIGH SPEED LINES (1,435 mm)

** IBERIAN TRACK (1,668 mm)

*** THIRD TRACK (1,435 mm and 1,668 mm)

* TRACK OWNED ADIF

● Categ 1
● Other Categ STATIONS OWNED ADIF

* IBERIAN TRACK (1,668 mm)

■■■■■■■■■■ HIGH SPEED LINES (1,668 mm)

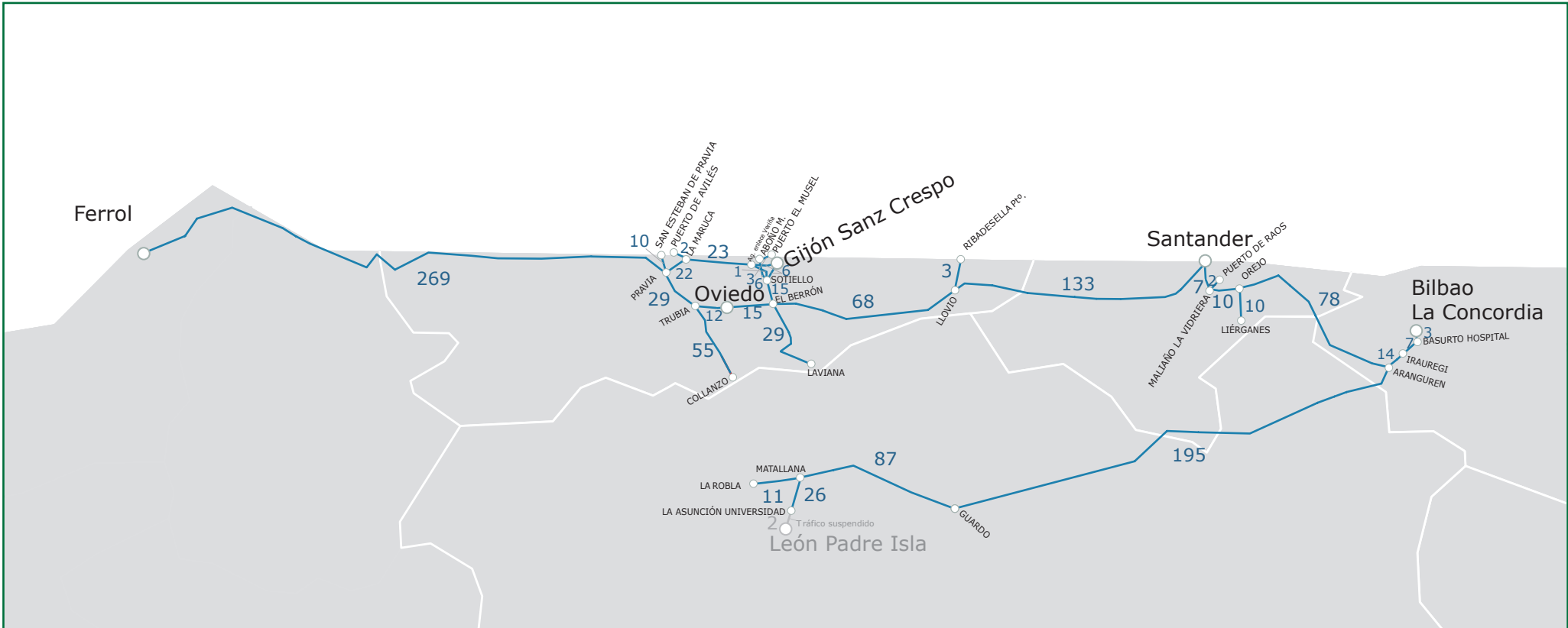
* HIGH SPEED LINES (1,435 mm)

* THIRD TRACK (1,435 and 1,668 mm)

* METRIC TRACK

* HIGH SPEED LINES (1,435 mm)

MAP 4.1 DISTANCES IN KILOMETERS OF METRIC GAUGE LINES

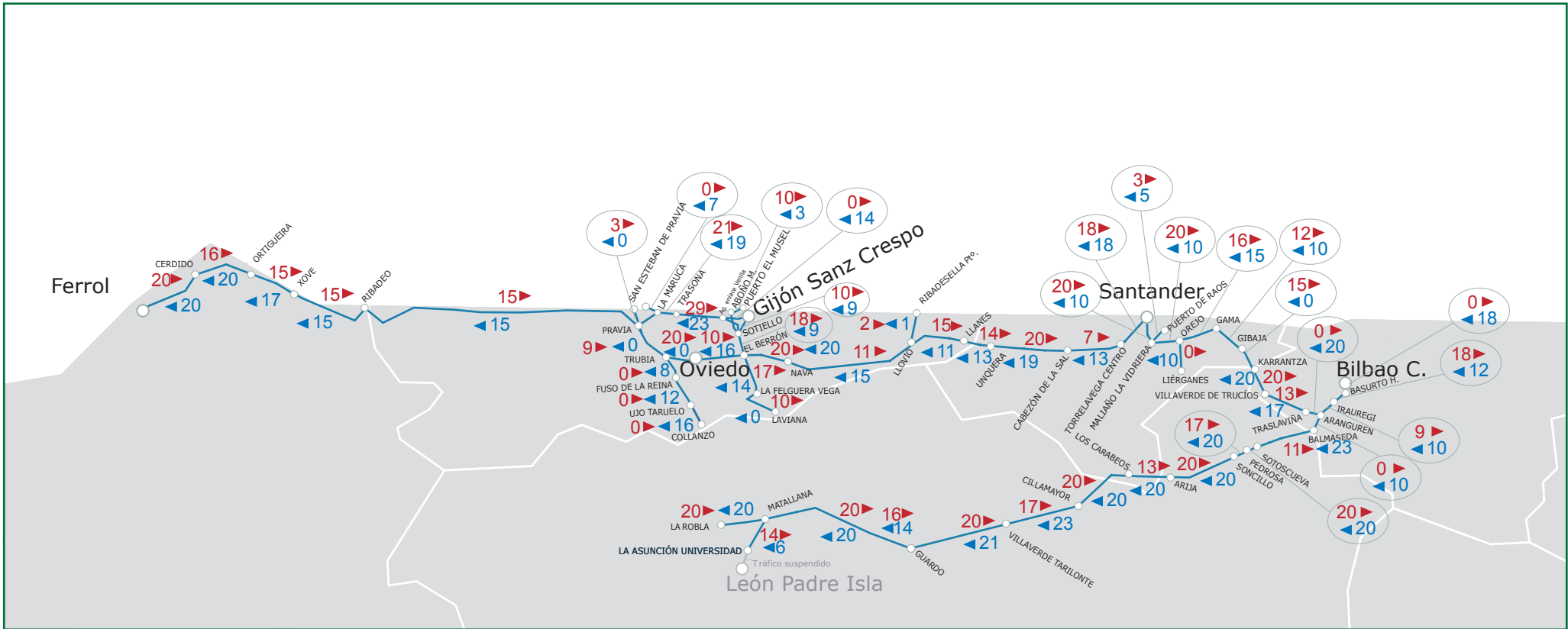


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METRIC TRACK LINES
Line 116
Cotos-Cercedilla

STATIONS

MAP 4.2 CHARACTERISTIC GRADIENTS (THOUSANDTHS) OF METRIC GAUGE LINES



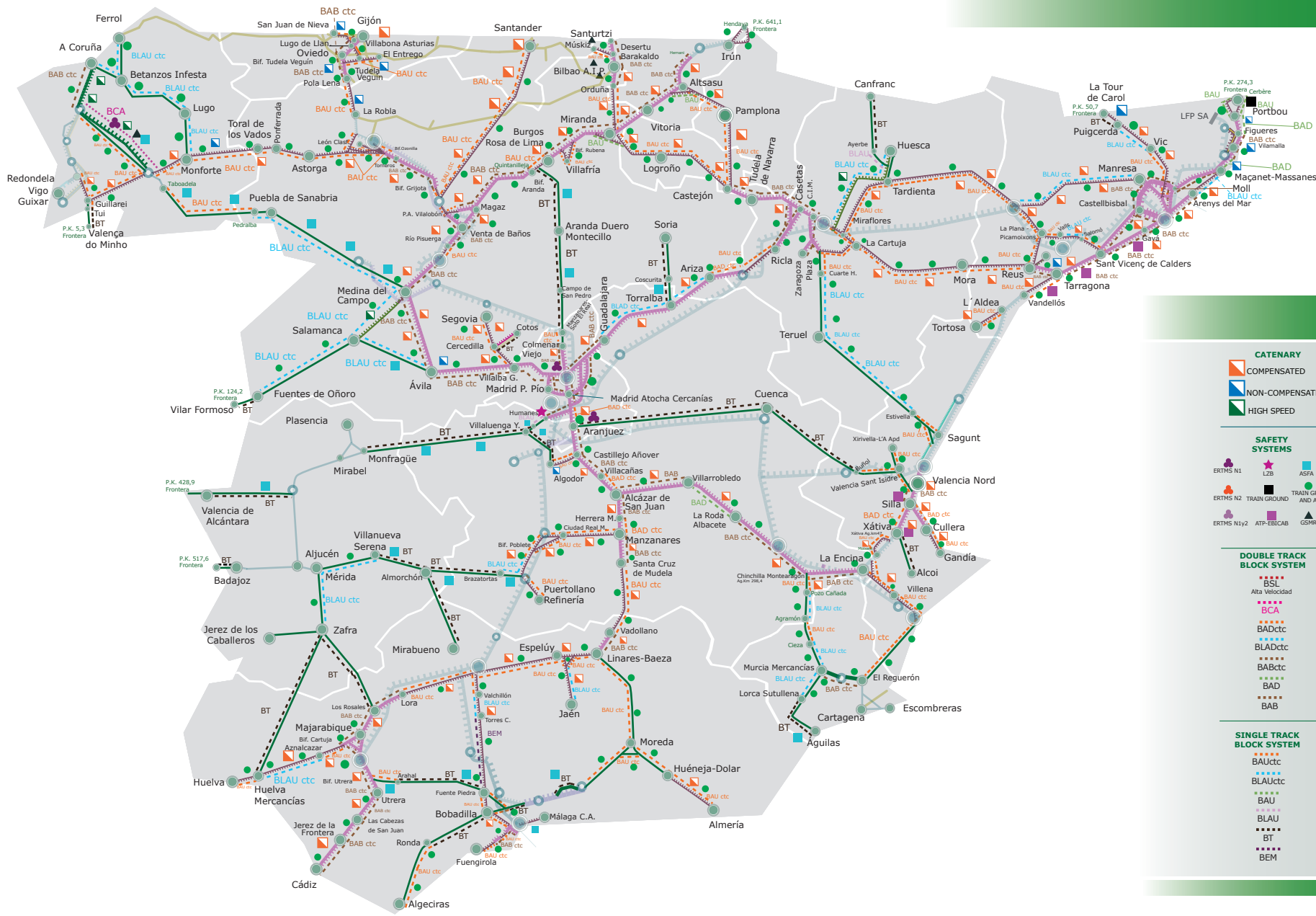
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— METRIC TRACK LINES
 Line 116 Cotos-Cercedilla

● STATIONS

▶ ODD DIRECTION ▶ EVEN DIRECTION

MAP 5 ADIF

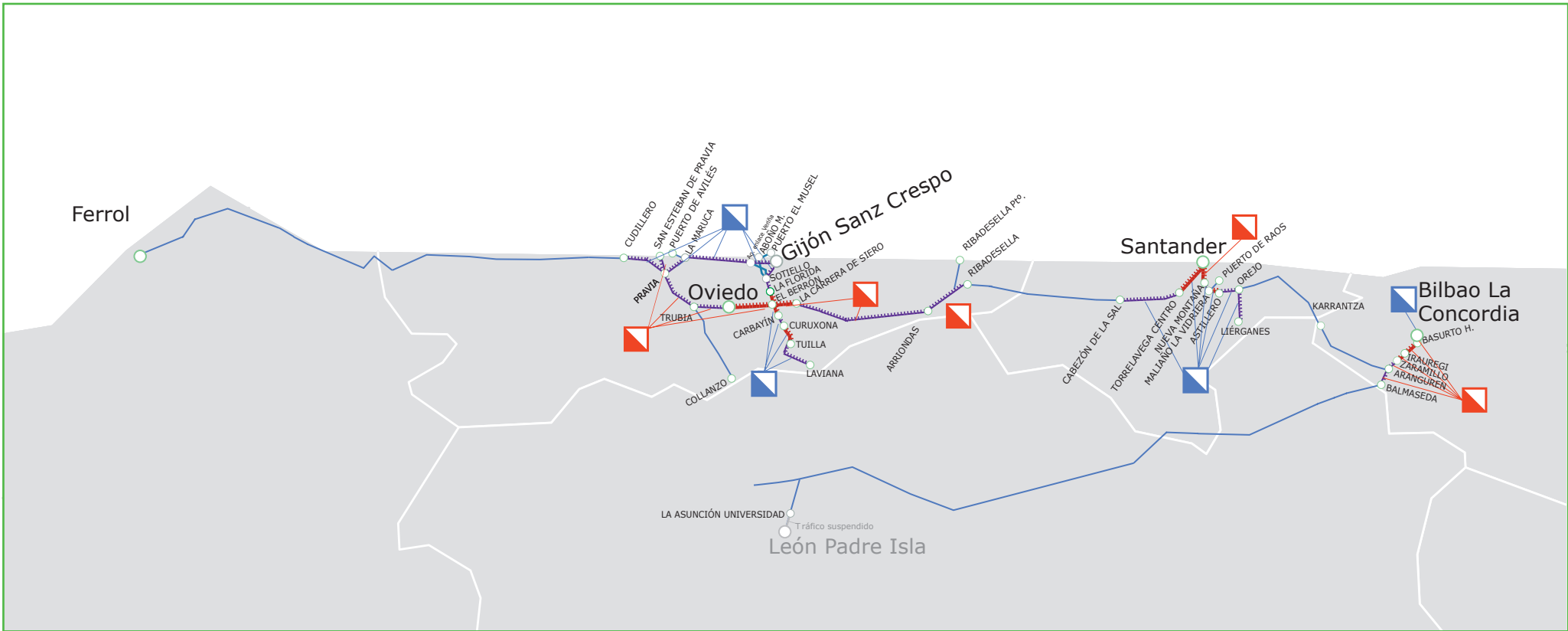


1 July 2019

| | | |
|---|--|--|
| <p>CATENARY</p> <ul style="list-style-type: none"> COMPENSATED NON-COMPENSATED HIGH SPEED | <p>SAFETY SYSTEMS</p> <ul style="list-style-type: none"> ERTMS N1 ERTMS N2 ERTMS N1y2 LZB ASFA TRAIN GROUND TRAIN GROUND AND ASFA ATP-EBICAB GSMR | <p>* TRACK OWNED ADIF</p> <p>* ELECTRIFIED RAILWAYS</p> <ul style="list-style-type: none"> Double at 25 KV 50 HZ Double at 3 KV Single at 25 KV 50 HZ Single at 3 KV Single at 3 KV 1,435mm Single at 1.5 KV <p>* NOT-ELECTRIFIED RAILWAYS</p> <ul style="list-style-type: none"> Double 1,668 mm Single 1,668 mm Metric Track |
| <p>DOUBLE TRACK BLOCK SYSTEM</p> <ul style="list-style-type: none"> BSL Alta Velocidad BCA BADctc BLADctc BABctc BAD BAB | <p>SINGLE TRACK BLOCK SYSTEM</p> <ul style="list-style-type: none"> BAUctc BLAUctc BAU BLAU BT BEM | <p>** TRACK OWNED ADIF ALTA VELOCIDAD</p> <p>** ELECTRIFIED RAILWAYS</p> <ul style="list-style-type: none"> 1,435 mm Double at 25 KV 50 HZ 1,668 mm Double at 25 KV 50 HZ 1,668 mm Double at 3 KV 1,668 mm Single at 3 KV 1,435 mm Single at 25 KV 50 HZ 1,435 mm Single at 3 KV <p>** NOT-ELECTRIFIED RAILWAYS</p> <ul style="list-style-type: none"> 1,435 mm Single at 3 KV 1,668 mm Single 1,668 mm |

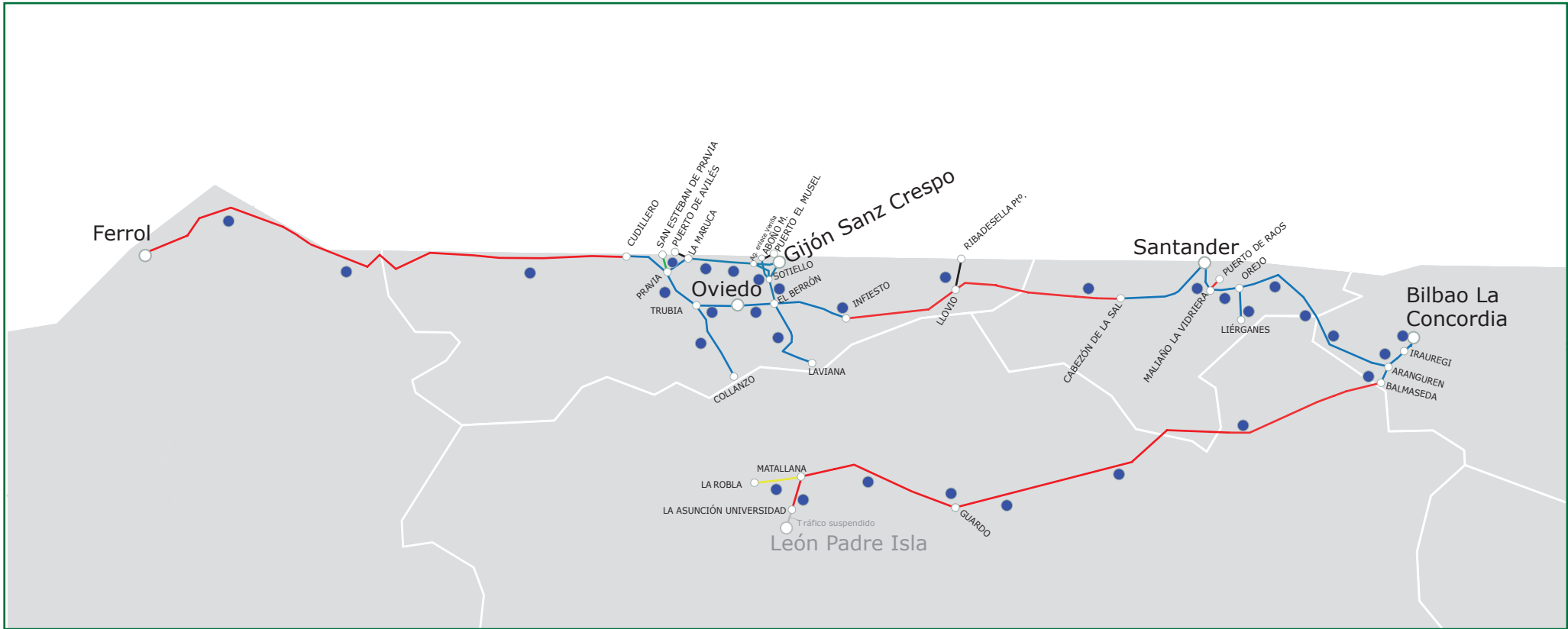
MAP 5.1

ELECTRIFIED LINES AND TYPES OF ELECTRIFICATION WITH METRIC GAUGE











31 July 2018

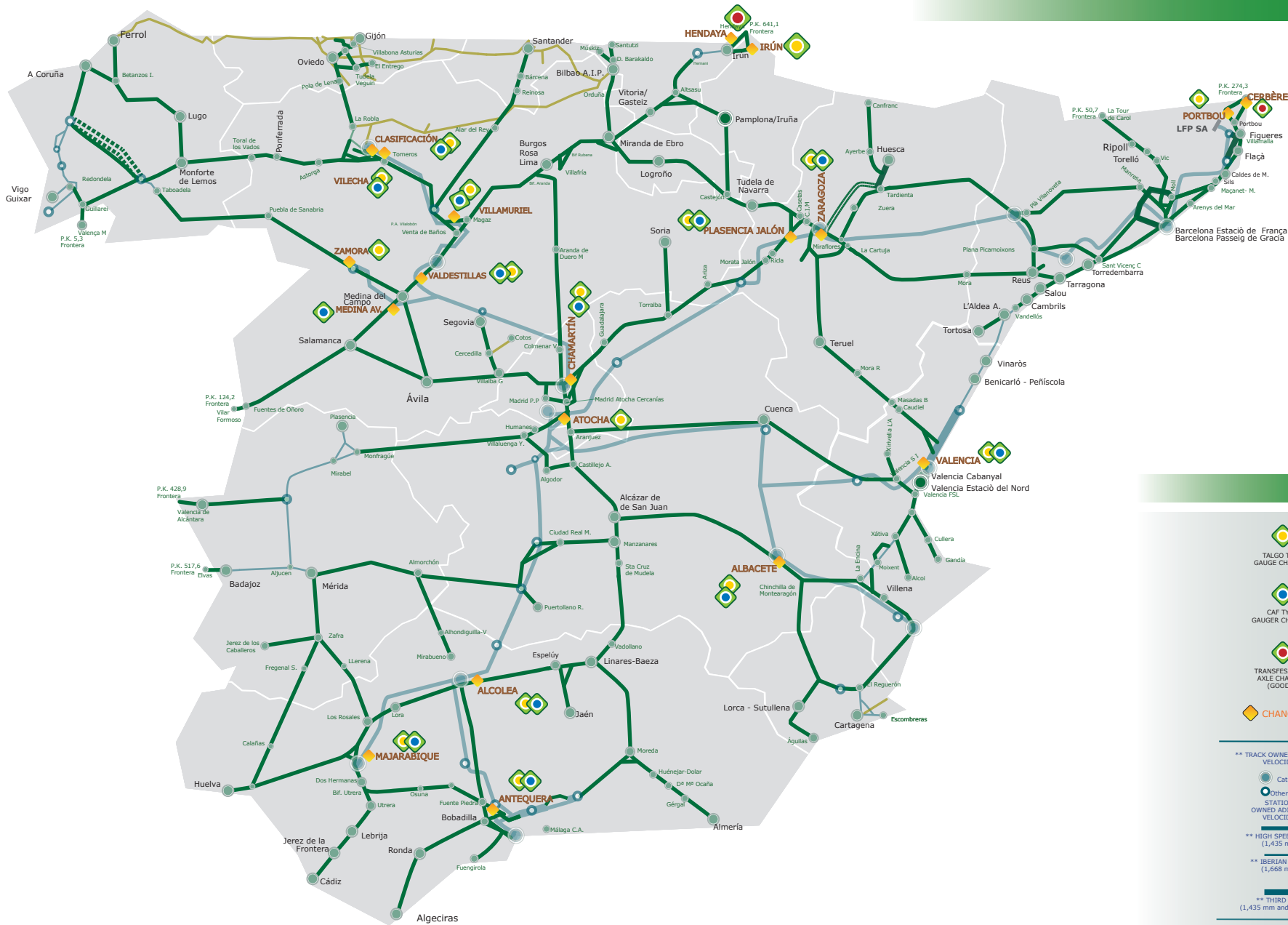
| METRIC TRACK LINES | CATENARY | NON-ELECTRIFIED RAILWAYS | ELECTRIFIED RAILWAYS |
|---------------------------------------|------------------------|--------------------------|-----------------------------|
| <p>Lines 116 Cotos-Cercedilla</p> | <p>COMPENSATED</p> | <p>SINGLE</p> | <p>DOUBLE AT 1,5 KV</p> |
| | <p>NON COMPENSATED</p> | | <p>SINGLE AT 1,5 KV</p> |



31 July 2018

| | | | |
|---|---|---|---|
|  | B.T. Telephone Block |  | STATIONS |
|  | B.A.U/B.A.D/B.A.B (Automatic Block + CTC) |  | B.E.M. Manual Electric Block |
|  | METRIC TRACK LINES |  | B.A.U (Automatic) |
|  | Line 116 except Cotos-Cercedilla |  | Other procedures (regulated by instruction) |
| | ASFA (analogical) | | |

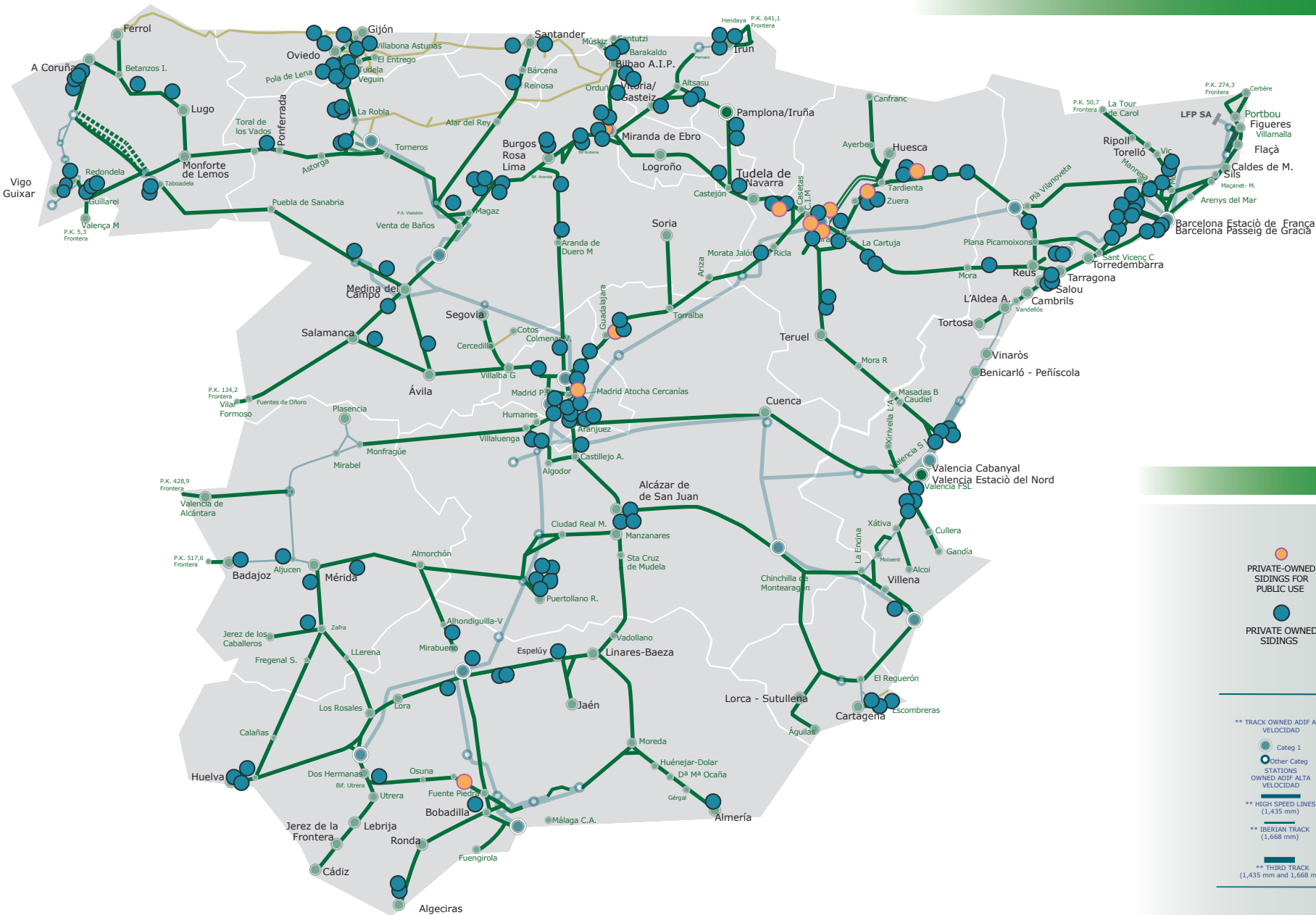
MAP 6 ADIF



1 July 2019

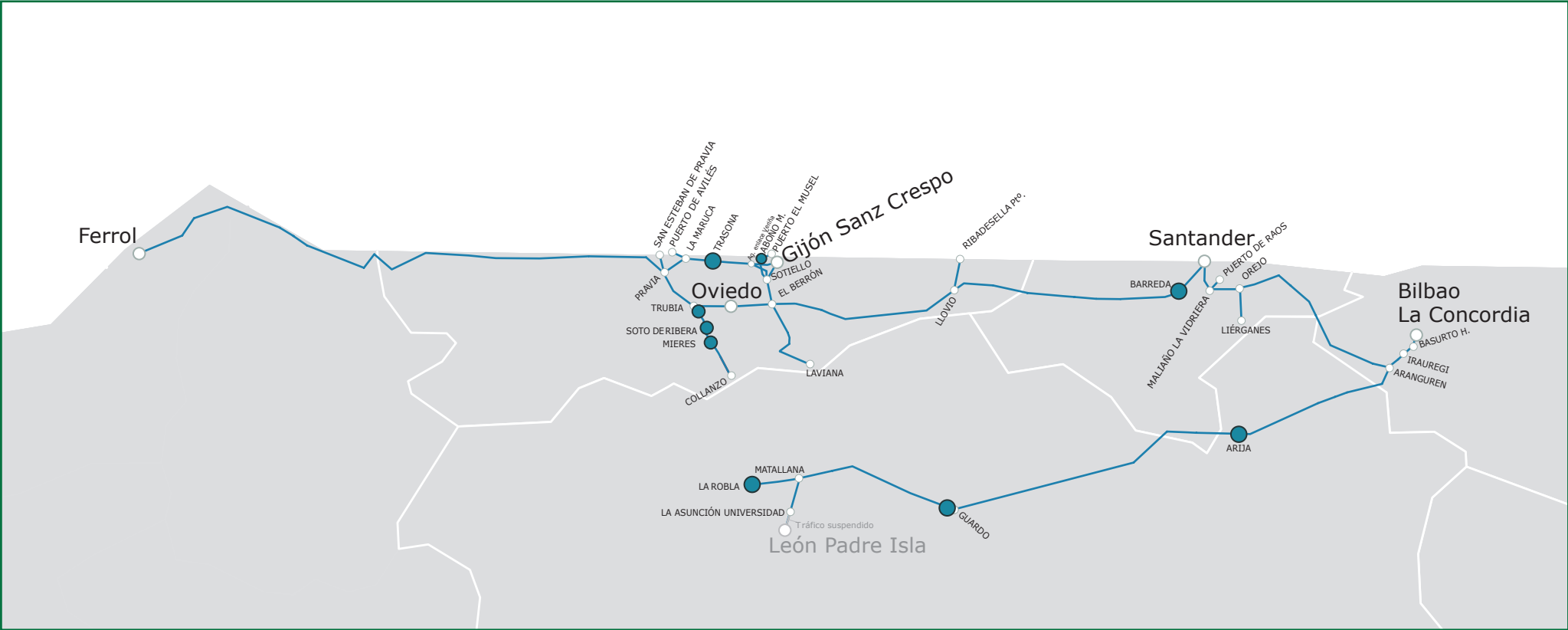
| | | | |
|--|--|--|------------------------------------|
| | TALGO TYPE GAUGE CHANGER | | TRACK OWNED ADIF |
| | CAF TYPE GAUGE CHANGER | | Other Categ STATIONS OWNED ADIF |
| | TRANSFESA TYPE AXLE CHANGER (GOODS) | | * IBERIAN TRACK (1,668 mm) |
| | CHANGER | | * HIGH SPEED LINES (1,668 mm) |
| | ** TRACK OWNED ADIF ALTA VELOCIDAD | | * THIRD TRACK (1,435 and 1,668 mm) |
| | Other Categ STATIONS OWNED ADIF ALTA VELOCIDAD | | * METRIC TRACK |
| | ** HIGH SPEED LINES (1,435 mm) | | * HIGH SPEED LINES (1,435 mm) |
| | ** IBERIAN TRACK (1,668 mm) | | |
| | *** THIRD TRACK (1,435 mm and 1,668 mm) | | |

MAP 7 ADIF





1 July 2019

- PRIVATE-OWNED SIDINGS FOR PUBLIC USE
- PRIVATE OWNED SIDINGS
- ** TRACK OWNED ADIF ALTA VELOCIDAD
- ** HIGH SPEED LINES (1,435 mm)
- ** IBERIAN TRACK (1,668 mm)
- *** THIRD TRACK (1,435 mm and 1,668 mm)
- * TRACK OWNED ADIF
- Categ 1 STATIONS OWNED ADIF
- Other Categ STATIONS OWNED ADIF
- * IBERIAN TRACK (1,668 mm)
- * HIGH SPEED LINES (1,668 mm)
- * THIRD TRACK (1,435 and 1,668 mm)
- * METRIC TRACK
- * HIGH SPEED LINES (1,435 mm)



31 July 2018

 METRIC TRACK LINES
 Lines 116 except Cotos-Cercedilla

 PRIVATE OWNED SIDINGS