

# NETWORK STATEMENT 2027



# 9

## MAPS



# MAPS RFIG

## Map RFIG:

Rail Network of General Interest, RFIG.

## Map 1:

Passenger transport stations, maximum length of passenger trains, commuter hubs and distances in kilometers.

## Map 2:

Main freight transport terminals, fuel supply fix points, maximum length of freight trains, dynamic weighbridges, characteristic ramps in thousandths and ports of general interest with connection agreement to the General Interest Rail Network.

Update Map 2

## Map 3:

Maximum speeds, types of electrification and catenaries.

## Map 4:

Safety and blocking systems.

NOTE:

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

## Map 1 RAM:

Maximum speeds.

## Map 2 RAM:

Passenger trains maximum length.

## Map 3 RAM:

Maximum length of freight trains.

## Map 4 RAM:

Distances in kilometers.

## Map 5 RAM:

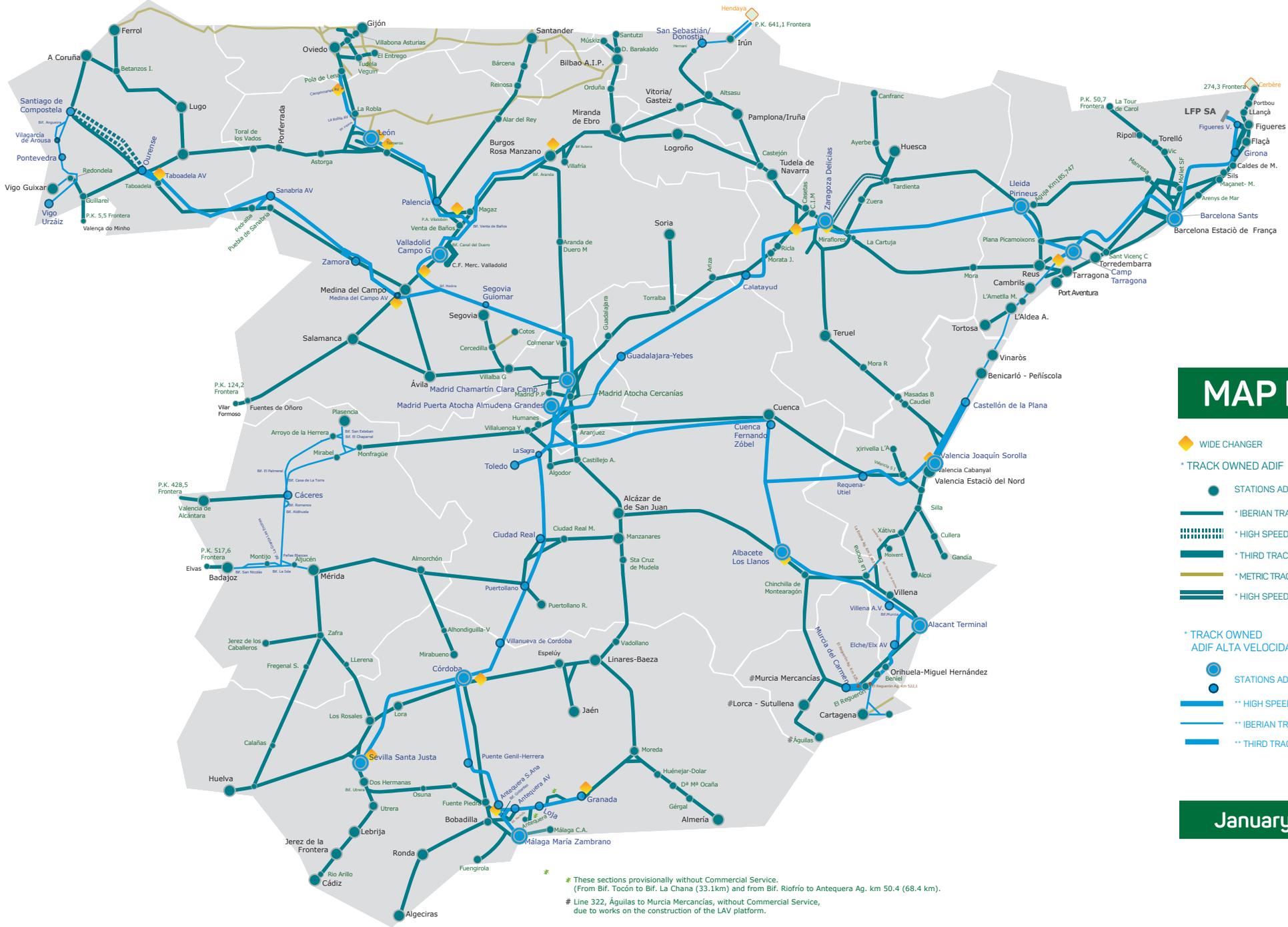
Characteristic ramps in thousandths.

## Map 6 RAM:

Types of electrification and catenaries.

## Map 7 RAM:

Safety and blocking systems.



# MAP RFEG

◆ WIDE CHANGER    ◆ SHAFT CHANGER

\* TRACK OWNED ADIF

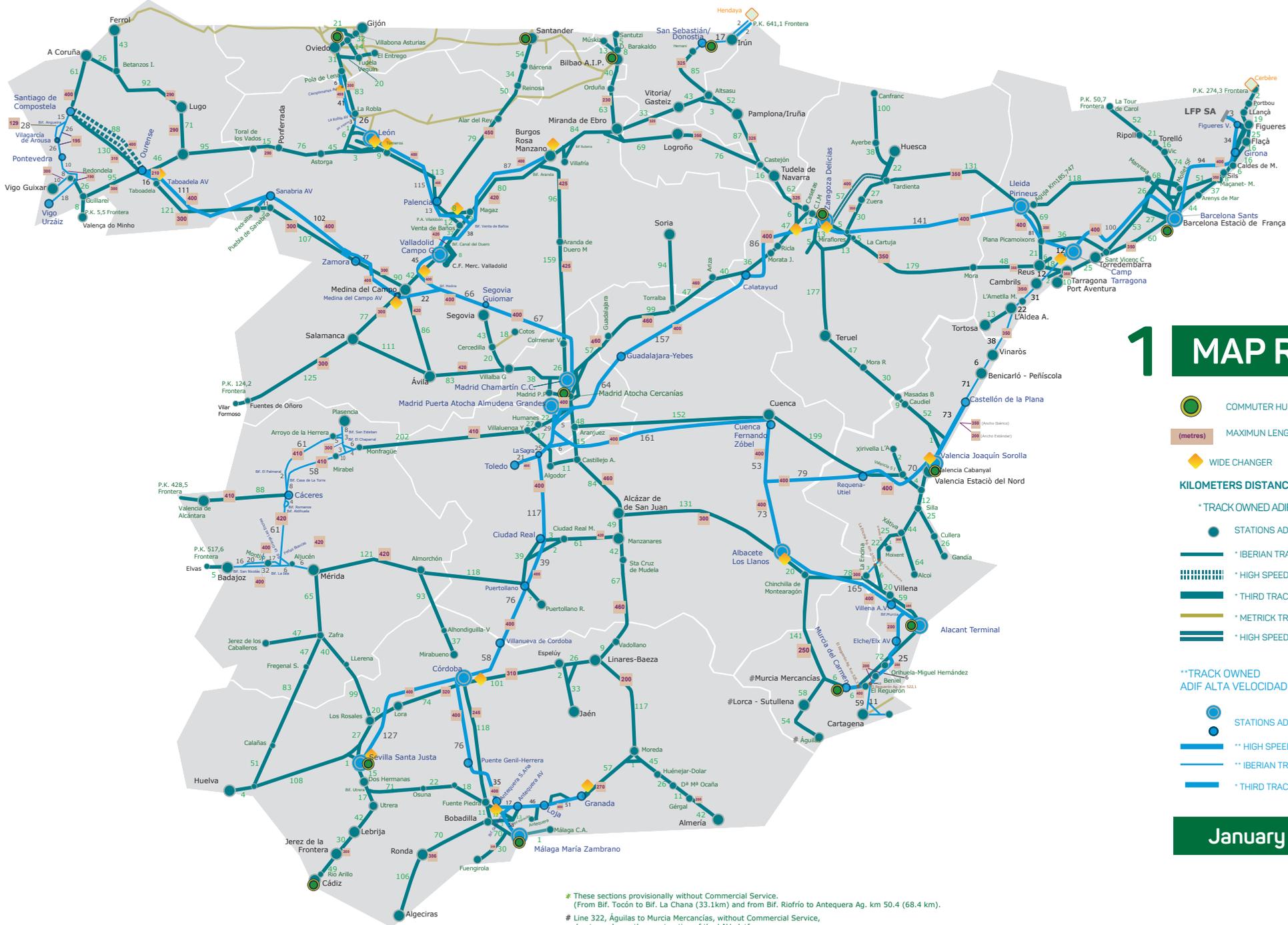
- STATIONS ADIF
- IBERIAN TRACK (1.668 mm)
- ▤ HIGH SPEED LINES (1.668 mm)
- THIRD TRACK (1.435 mm and 1.668 mm)
- METRIC TRACK
- HIGH SPEED LINES (1.435 mm)

\* TRACK OWNED ADIF ALTA VELOCIDAD

- STATIONS ADIF ALTA VELOCIDAD
- HIGH SPEED LINES (1.435 mm)
- IBERIAN TRACK (1.668 mm)
- THIRD TRACK (1.435mm and 1.668 mm)

# January 2025

\* These sections provisionally without Commercial Service.  
 (From Bif. Tocón to Bif. La Chana (33.1km) and from Bif. Riofrío to Antequera Ag. km 50.4 (68.4 km).  
 # Line 322, Águilas to Murcia Mercancías, without Commercial Service, due to works on the construction of the LAV platform.

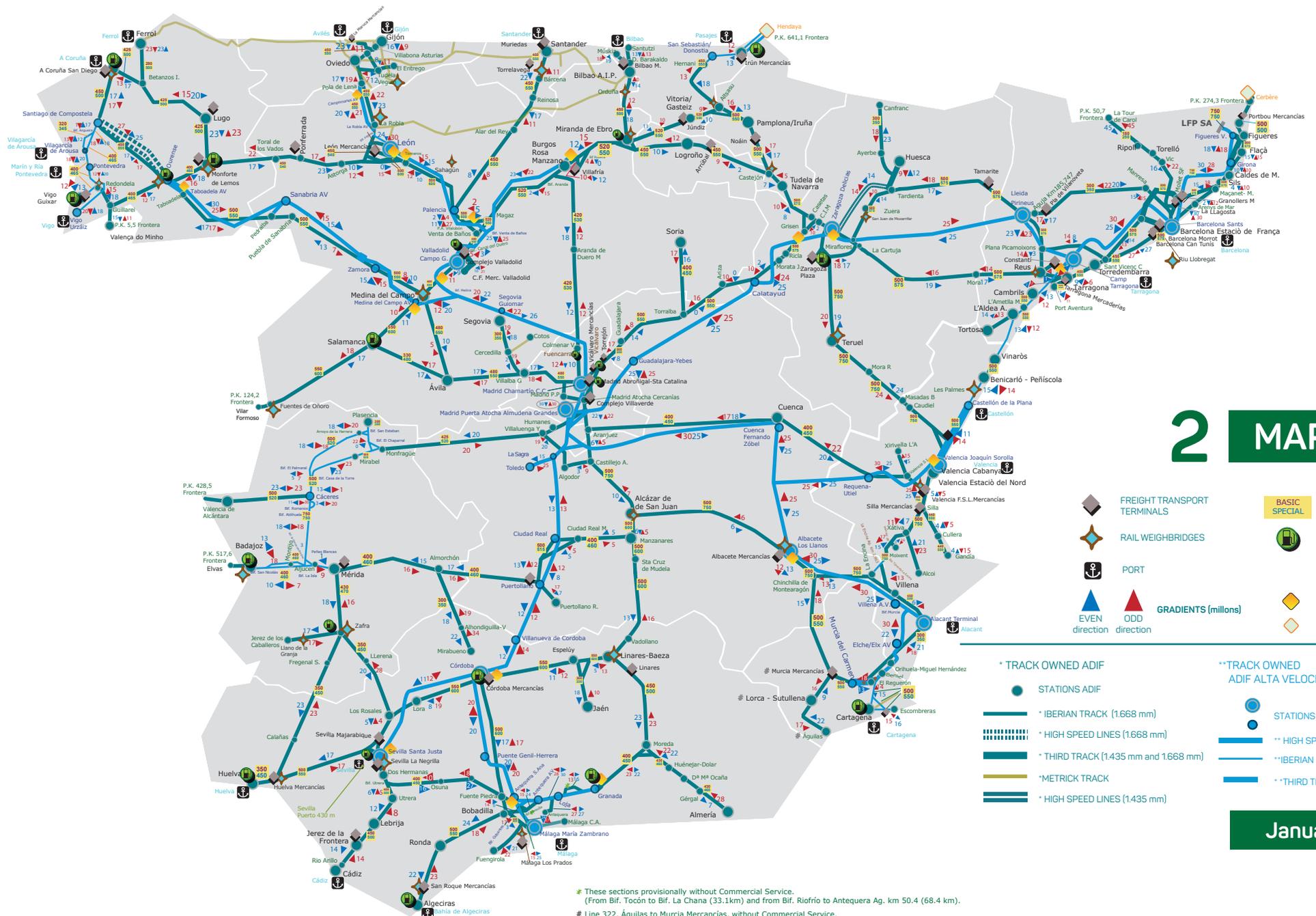


# 1 MAP RFIG

- COMMUTER HUBS
- (metres) MAXIMUM LENGTH OF PASSANGER TRAINS
- WIDE CHANGER AXLE CHANGER
- KILOMETERS DISTANCES xxx Km**
- \* TRACK OWNED ADIF
- STATIONS ADIF
- \* IBERIAN TRACK (1.668 mm)
- \* HIGH SPEED LINES (1.668 mm)
- \* THIRD TRACK (1.435 mm and 1.668 mm)
- \* METRICK TRACK
- \* HIGH SPEED LINES (1.435 mm)
- \*\* TRACK OWNED ADIF ALTA VELOCIDAD**
- STATIONS ADIF ALTA VELOCIDAD
- \*\* HIGH SPEED LINES (1.435 mm)
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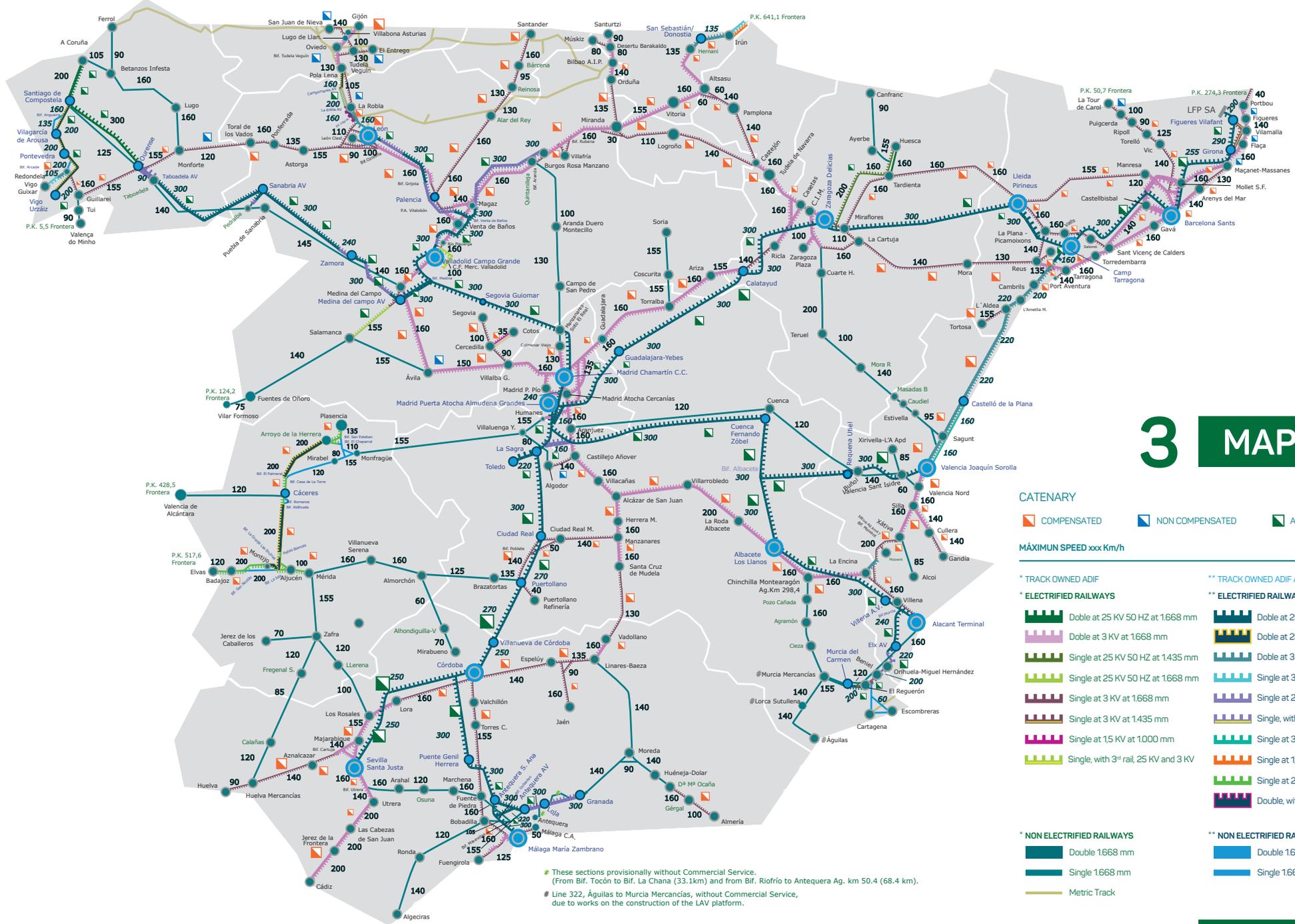
# 2 MAP RFEG

- FREIGHT TRANSPORT TERMINALS
- RAIL WEIGHBRIDGES
- PORT
- EVEN direction
- ODD direction
- GRADIENTS (millions)
- SHAFT CHANGER
- FIXED CHANGER
- BASIC
- SPECIAL
- MAXIMUM LENGTH OF FREIGHT TRAINS (meters)
- FIXED SUPPLY POINT

- \* TRACK OWNED ADIF**
  - STATIONS ADIF
  - \* IBERIAN TRACK (1.668 mm)
  - \* HIGH SPEED LINES (1.668 mm)
  - \* THIRD TRACK (1.435 mm and 1.668 mm)
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# 3 MAP RFIG

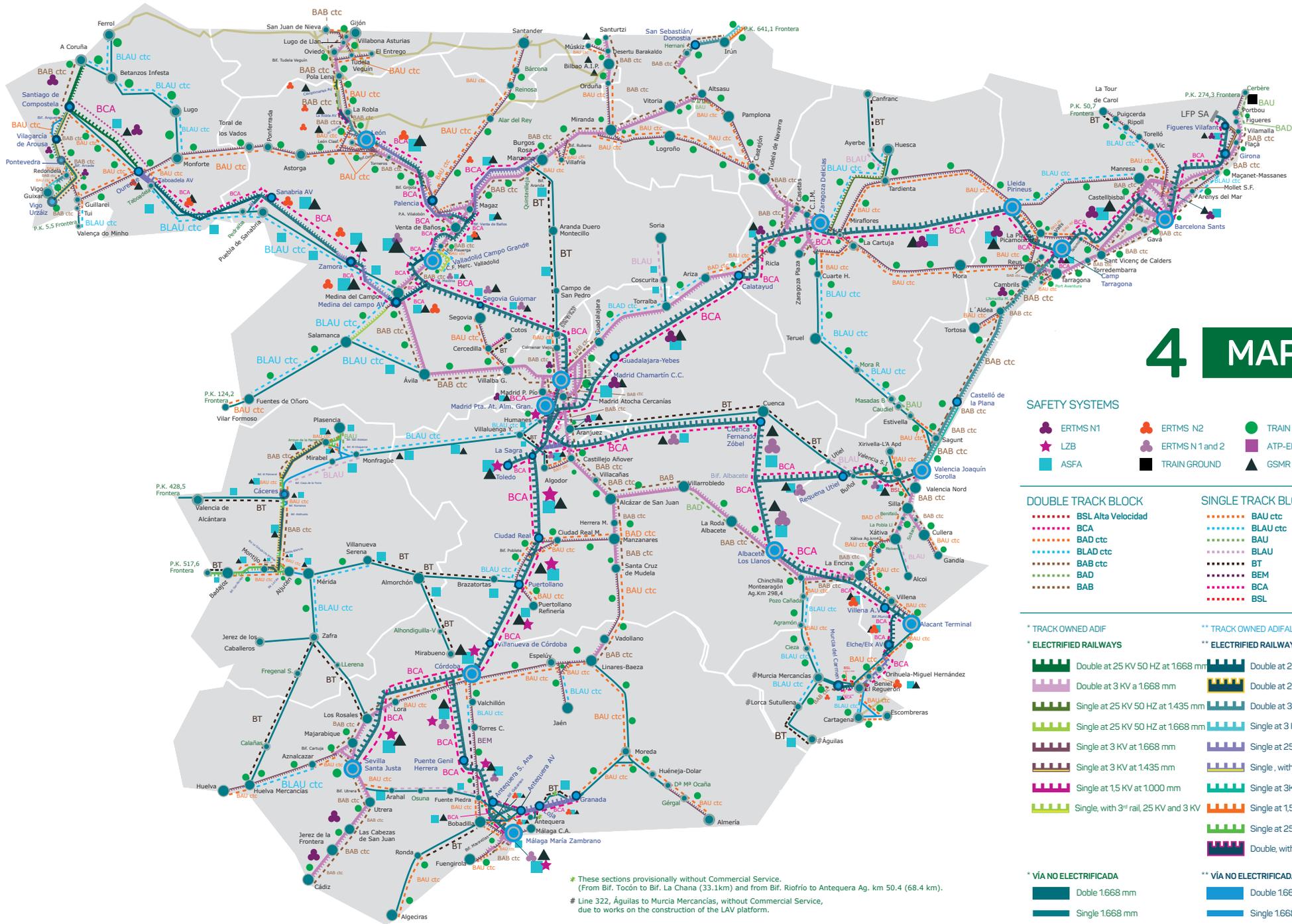
## CATENARY

- ▣ COMPENSATED
- ▣ NON COMPENSATED
- ▣ ALTA VELOCIDAD

## MÁXIMUN SPEED xxx Km/h

- \* TRACK OWNED ADIF
- \*\* TRACK OWNED ADIF ALTA VELOCIDAD
- \* ELECTRIFIED RAILWAYS
- \*\* ELECTRIFIED RAILWAYS
- \* NON ELECTRIFIED RAILWAYS
- \*\* NON ELECTRIFIED RAILWAYS

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# 4 MAP RFIG

## SAFETY SYSTEMS

- ERTMS N1
- ERTMS N2
- TRAIN GROUND AND ASFA
- ★ LZB
- ERTMS N1 and 2
- ATP-EBICAB
- ASFA
- TRAIN GROUND
- ▲ GSMR

## DOUBLE TRACK BLOCK

- BSL Alta Velocidad
- BCA
- BAD ctc
- BLAD ctc
- BAB ctc
- BAD
- BAB

## SINGLE TRACK BLOCK

- BAU ctc
- BLAU ctc
- BAU
- BLAU
- BT
- BEM
- BCA
- BSL

## \* TRACK OWNED ADIF

### \* ELECTRIFIED RAILWAYS

- Double at 25 KV 50 HZ at 1668 mm
- Double at 3 KV at 1668 mm
- Single at 25 KV 50 HZ at 1435 mm
- Single at 25 KV 50 HZ at 1668 mm
- Single at 3 KV at 1668 mm
- Single at 3 KV at 1435 mm
- Single at 1,5 KV at 1.000 mm
- Single, with 3<sup>rd</sup> rail, 25 KV and 3 KV

## \*\* TRACK OWNED ADIFALTA VELOCIDAD

### \*\* ELECTRIFIED RAILWAYS

- Double at 25 KV 50 HZ at 1435 mm
- Double at 25 KV 50 HZ at 1668 mm
- Double at 3 KV at 1668 mm
- Single at 3 KV at 1668 mm
- Single at 25 KV 50 HZ at 1435 mm
- Single, with 3<sup>rd</sup> rail, at 25 KV 50 HZ at 1435 mm
- Single at 3KV at 1435 mm
- Single at 1,5 KV at 1668 mm
- Single at 25 KV 50 HZ at 1668 mm
- Double, with 3<sup>rd</sup> rail, at 25 KV 50 HZ at 1668 mm

## \* VÍA NO ELECTRIFICADA

- Doble 1.668 mm
- Single 1.668 mm
- Metrick Track

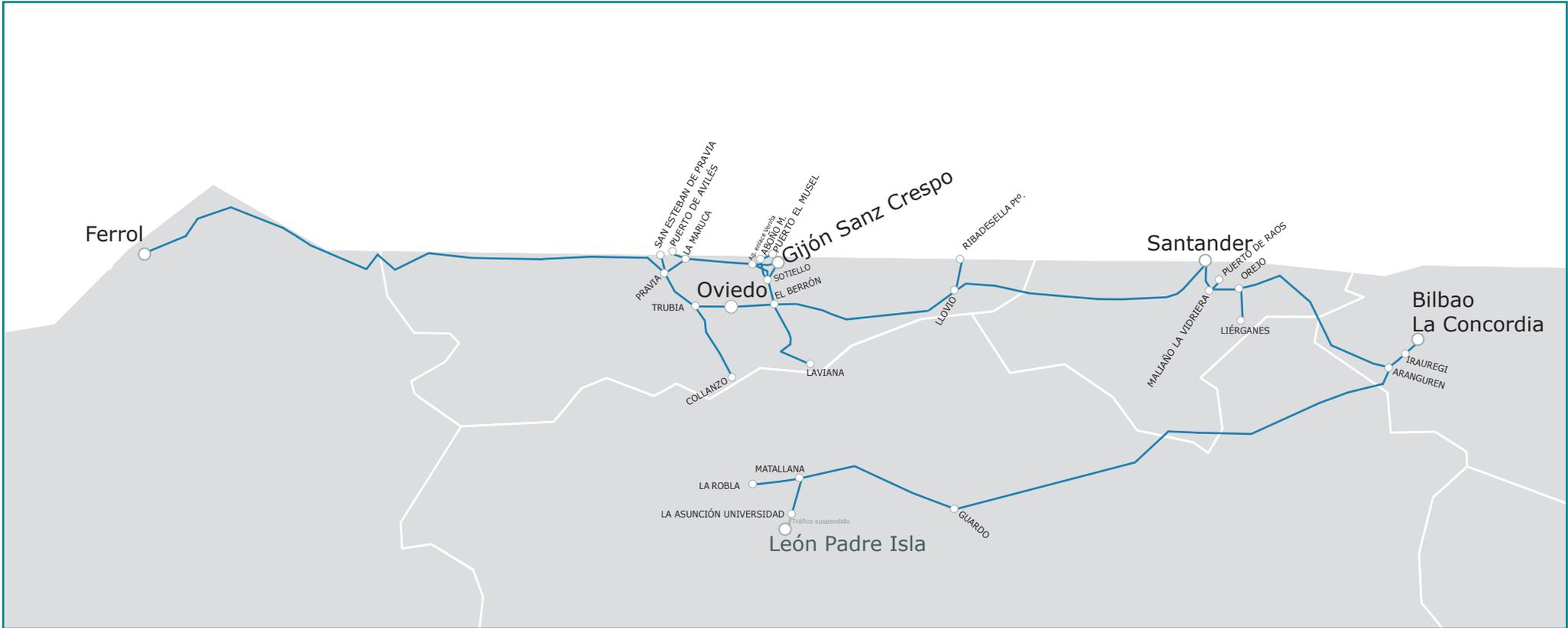
## \*\* VÍA NO ELECTRIFICADA

- Double 1.668 mm
- Single 1.668 mm

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# Metric Gauge Lines and Stations

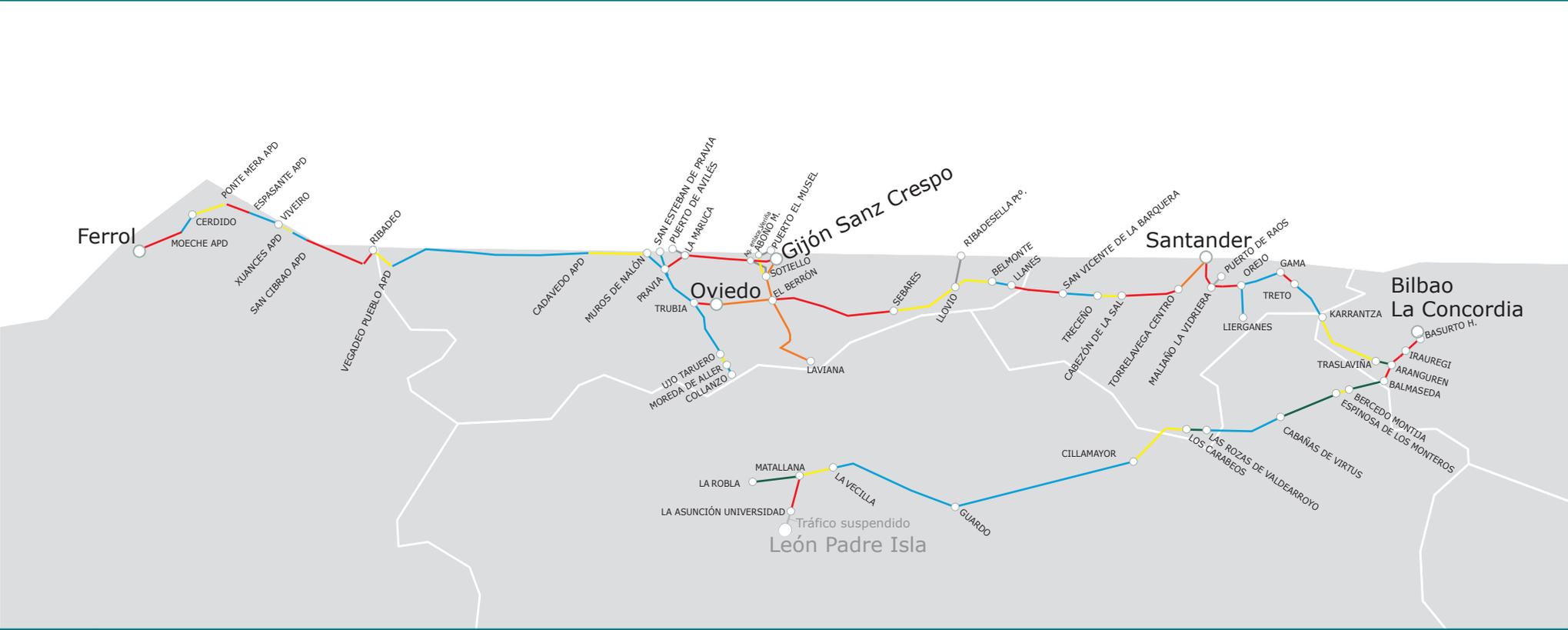
MAP



January 2025

- Metric Track Lines  
Line 116 except Cotos-Cercedilla
- Main Stations of Passengers
- Other Stations

# Maximum Speeds on Metric Gauge Lines



January 2025

- 100 km/h
- 80 km/h
- 70 km/h
- 60 km/h
- 50 km/h
- <50 km/h

METRIC TRACK LINES  
Line 116 except Cotos-Cercadilla  
○ STATIONS

# Maximum Length of Passenger Trains Aranguren on Metric Gauge Lines



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- METRIC TRACK LINES  
line 116 except Cotos-Cerceda
- STATIONS
- Long metres BASIC SPECIAL

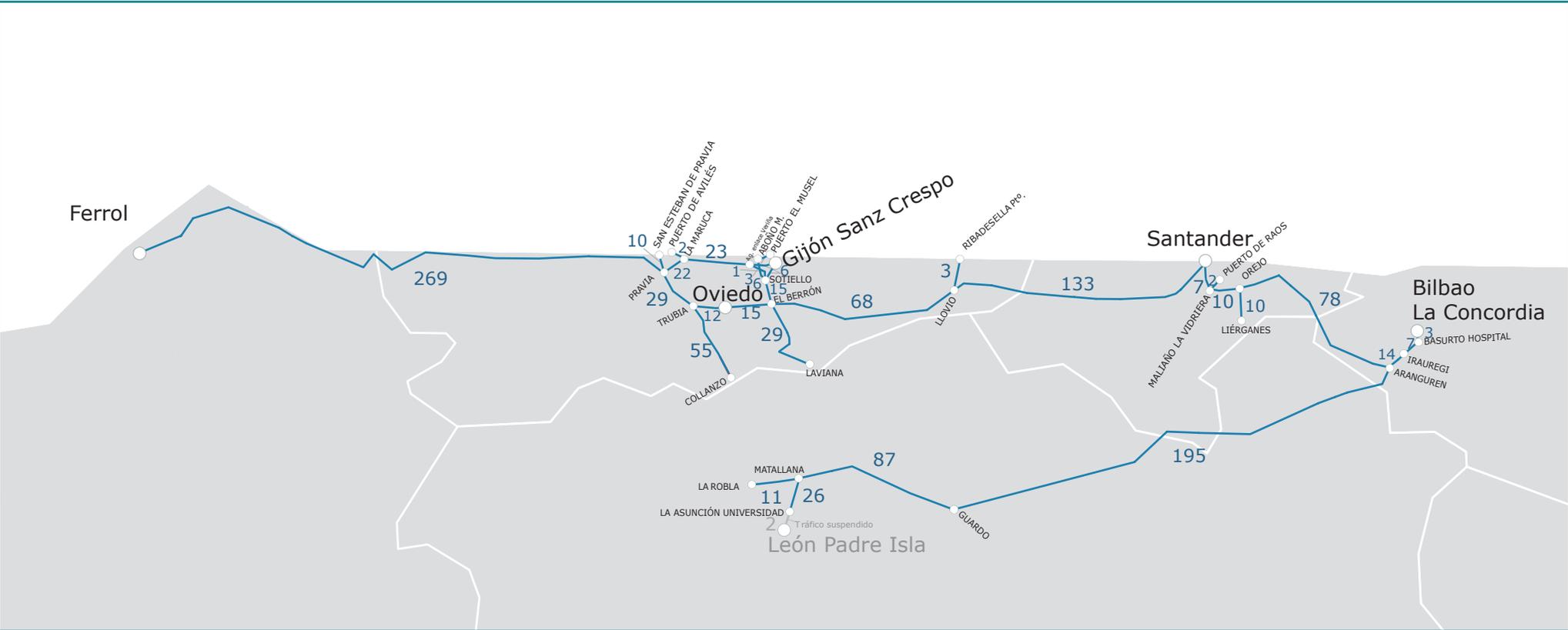
# Maximum Length of Freight Trains On Metric Gauge Lines



January 2025

- METRIC TRACK LINES  
line 116 except Cotos-Cercedilla
- STATIONS
- Long metres BASIC SPECIAL

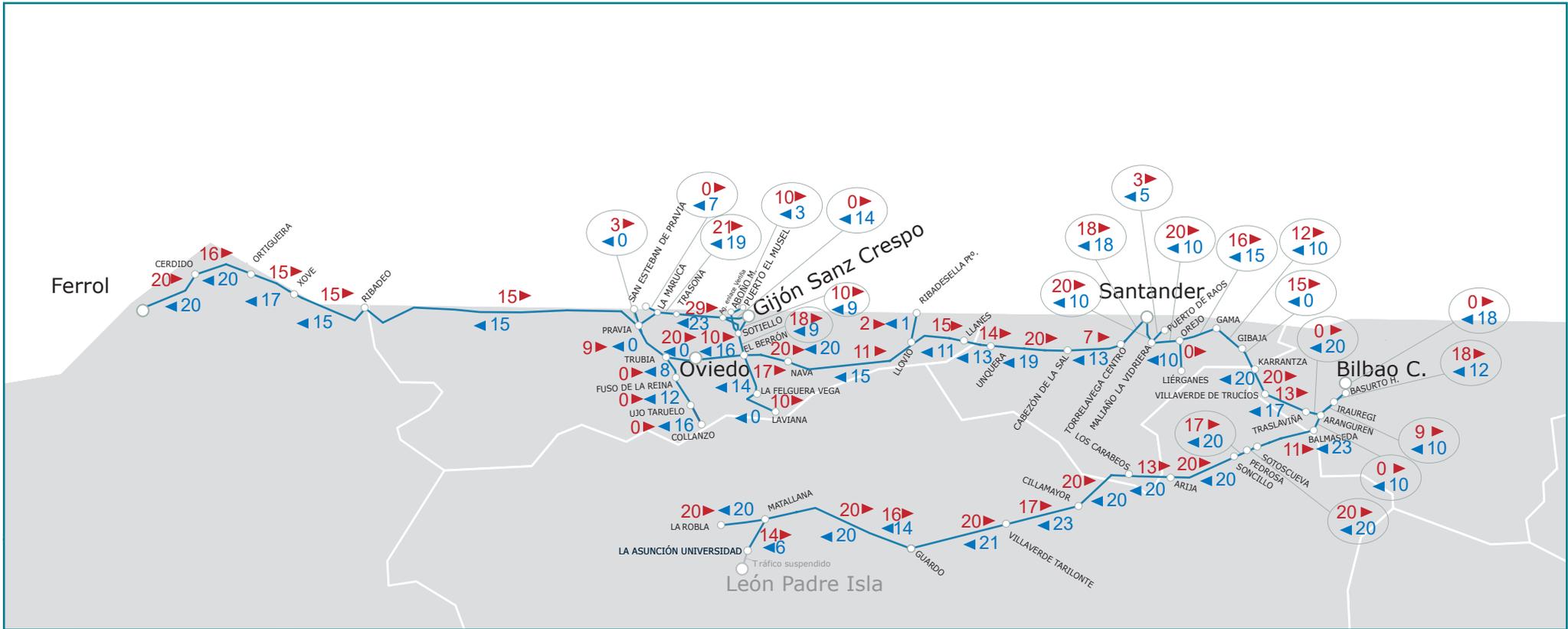
# Distances In Kilometers of Metric Gauge Lines



January 2025

- METRIC TRACK LINES  
line 116 except Cotos-Cercedilla
- STATIONS

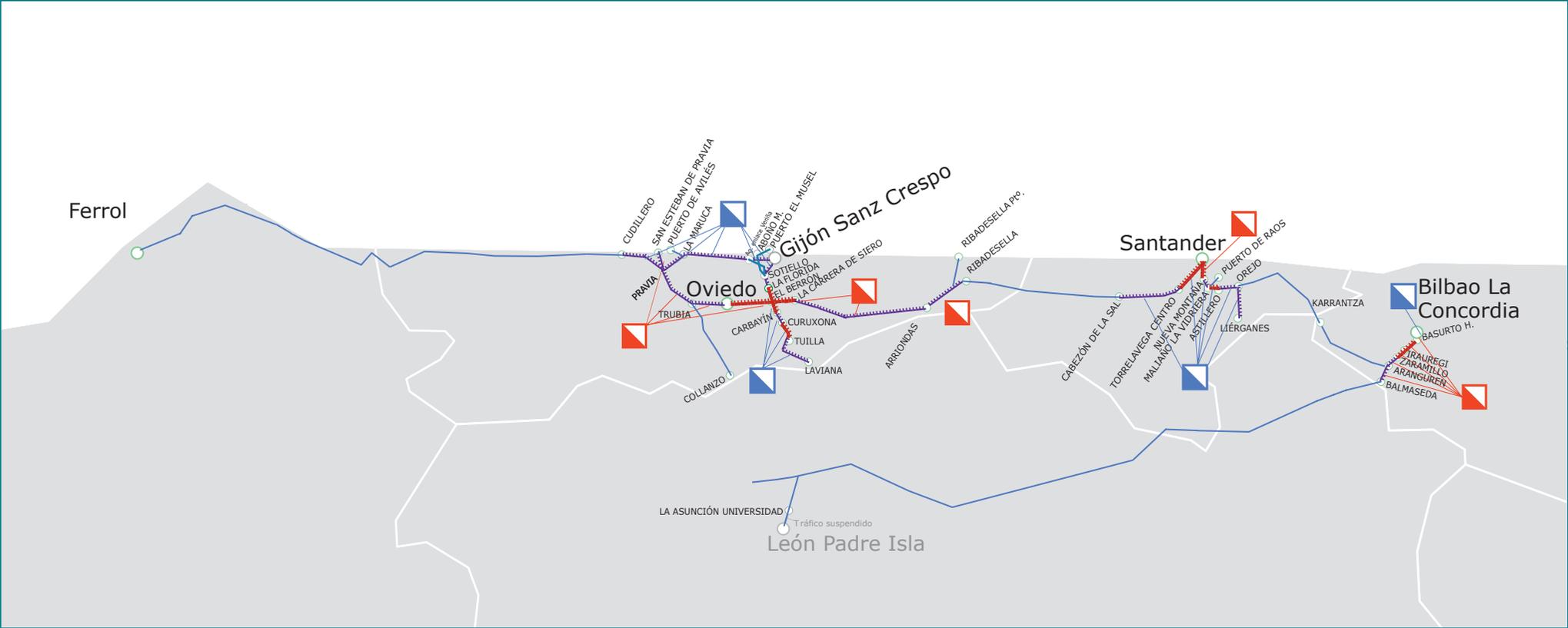
# Characteristic Gradients (Thousandths) of Metric Gauge Lines



**January 2025**

- METRIC TRACK LINES  
line 116 except Cotos-Cercedilla
- STATIONS
- ▲ ODD DIRECTION
- ▲ EVEN DIRECTION

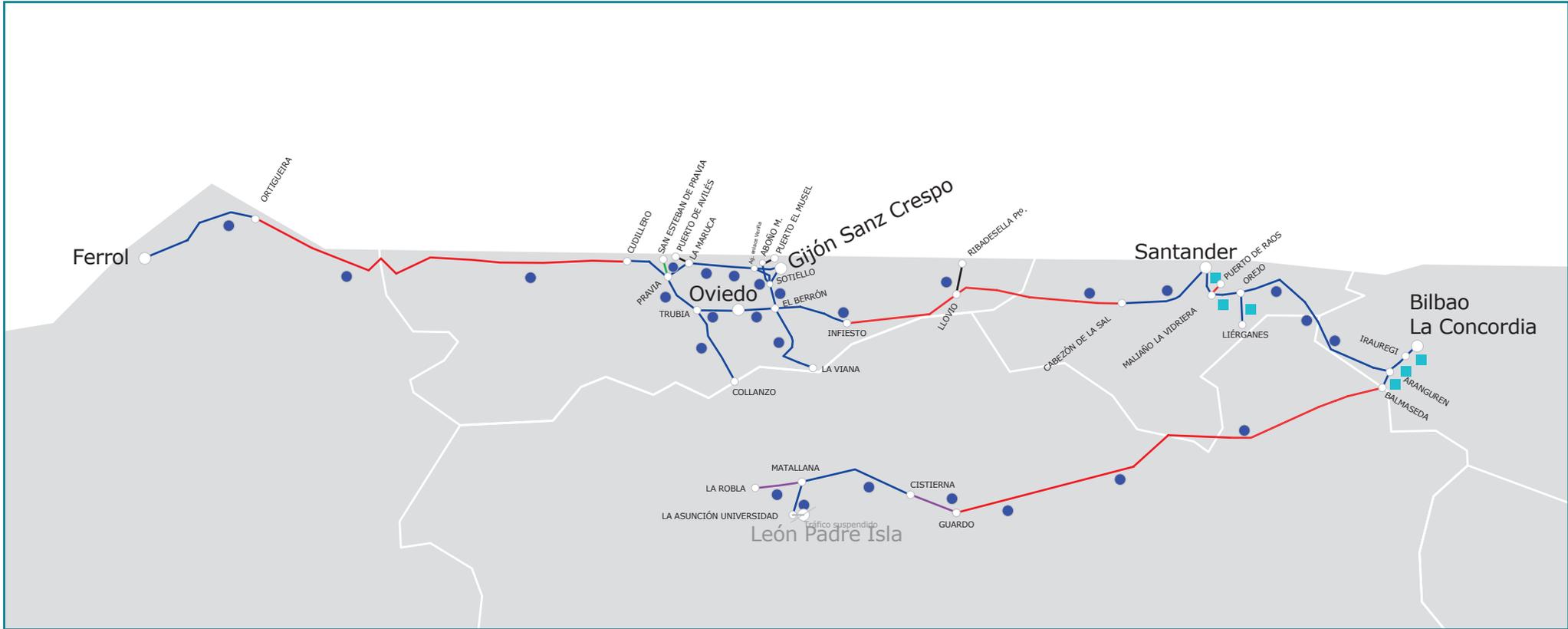
# Electrified Lines and Types of Electrification of Metric Gauge Lines



CATENARY		NON-ELECTRIFIED RAILWAYS	ELECTRIFIED RAILWAYS	METRIC TRACK LINES line 116 except Cotos-Cercedilla
COMPENSATED	NON COMPENSATED	SINGLE	DOUBLE AT 1.5 KV	STATIONS
			SINGLE AT 1.5 KV	

January 2025

# Block and Safety Systems on Metric Gauge Lines



January 2025

- B.T. Telephone Block
- B.A.U. / B.A.D / B.A.B Automatic Block + CTC
- B.A.U. Automatic Block
- B.E.M. Manual Electric Block
- Other Procedures (Regulated by Instruction)
- B.L.A.U. + CTC

- METRIC TRACK LINES  
Except lines 116 Cotos-Cercedilla
- ASFA (analogical) y ETC EMR
  - ASFA (digital) y ETC EMR
  - STACIONES

