

# NETWORK STATEMENT

## 2023



# 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.

The Official State Gazette of 02/03/2023 published the Resolution of 23 February 2023 by the Directorate-General for Planning and Assessing the Railway Network, which published the Agreement of the Council of Ministers of 21 February 2023, to close the railway section between Tarancon and Utiel of line 03-310 Aranjuez-Valencia Fuente de San Luis.

## 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:

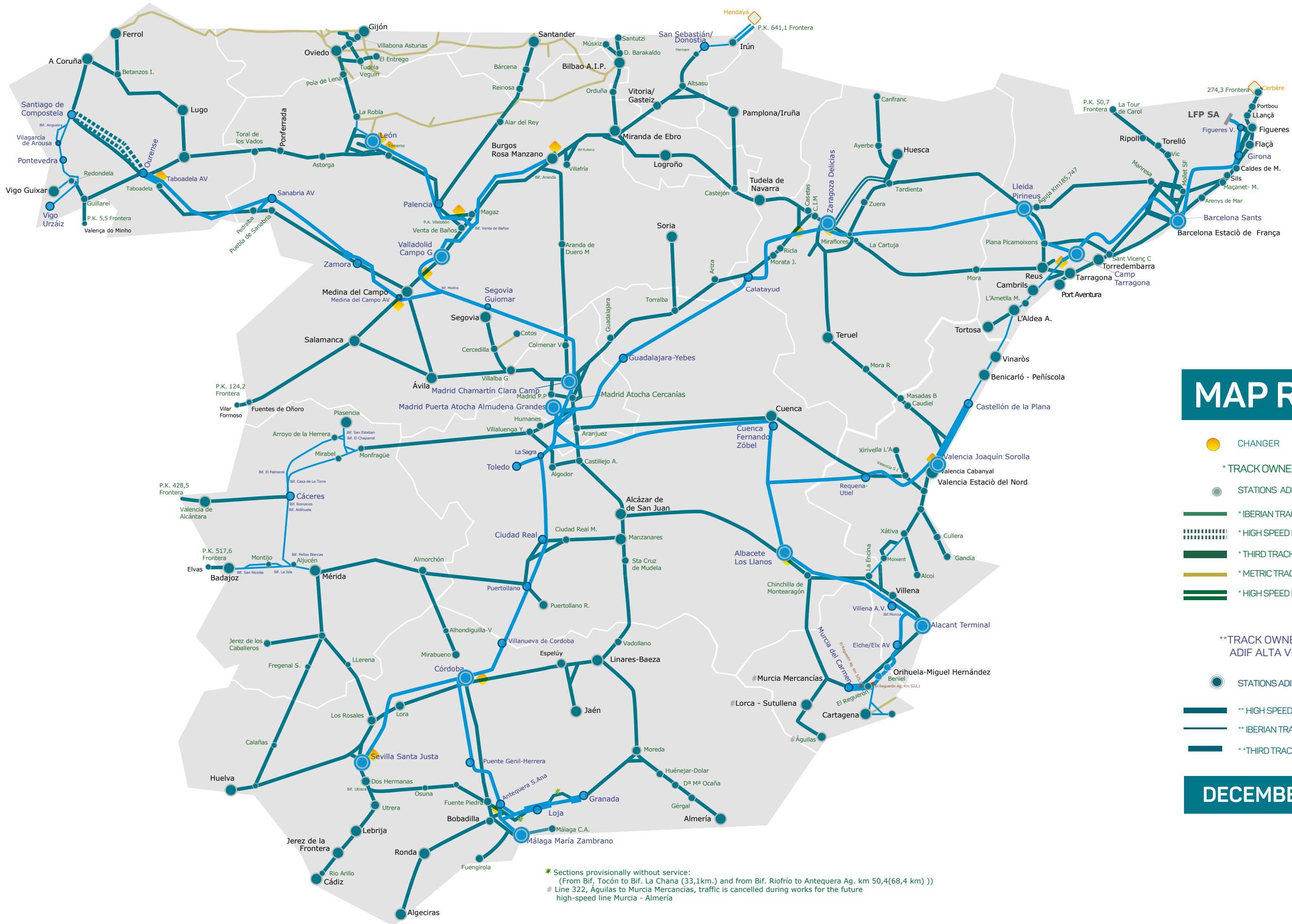
Characteristic Ramps in thousandths.

## Map 6 RAM:

Types of Electrification and Catenaries.

## Map 7 RAM:

Safety and Blocking Systems.

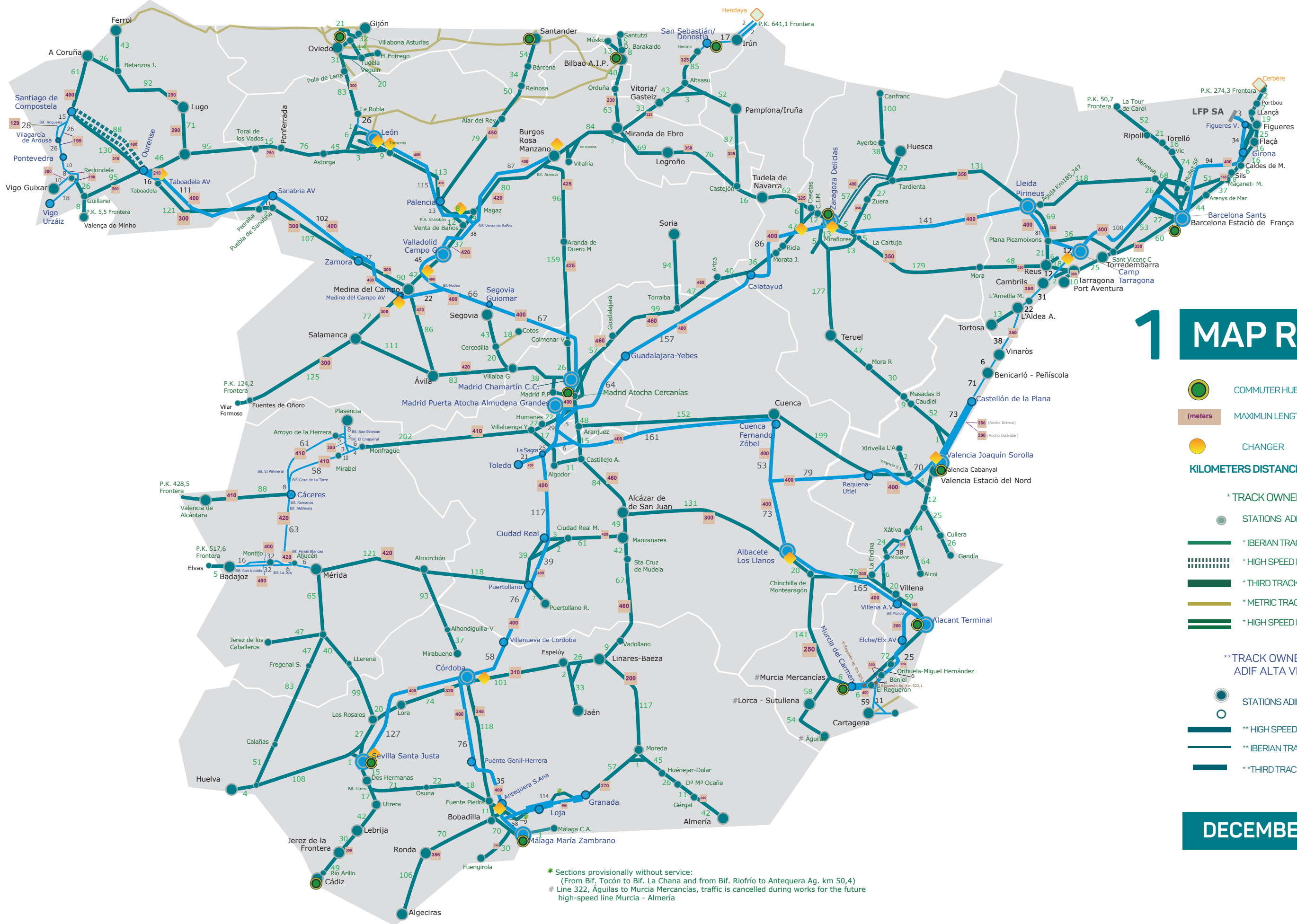


# MAP RFIG

- CHANGER
- \* TRACK OWNED ADIF
- STATIONS ADIF
- \* IBERIAN TRACK (1668 mm)
- \* HIGH SPEED LINES (1668 mm)
- \* THIRD TRACK (1435 mm y 1668 mm)
- \* METRIC TRACK
- \* HIGH SPEED LINES (1435 mm)
  
- \*\* TRACK OWNED ADIF ALTA VELOCIDAD
- STATIONS ADIF ALTA VELOCIDAD
- \*\* HIGH SPEED LINES (1435 mm)
- \*\* IBERIAN TRACK (1668 mm)
- \*\* THIRD TRACK (1435mm y 1668 mm)

# DECEMBER 2022

\* Sections provisionally without 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, traffic is cancelled during works for the future high-speed line Murcia - Almería

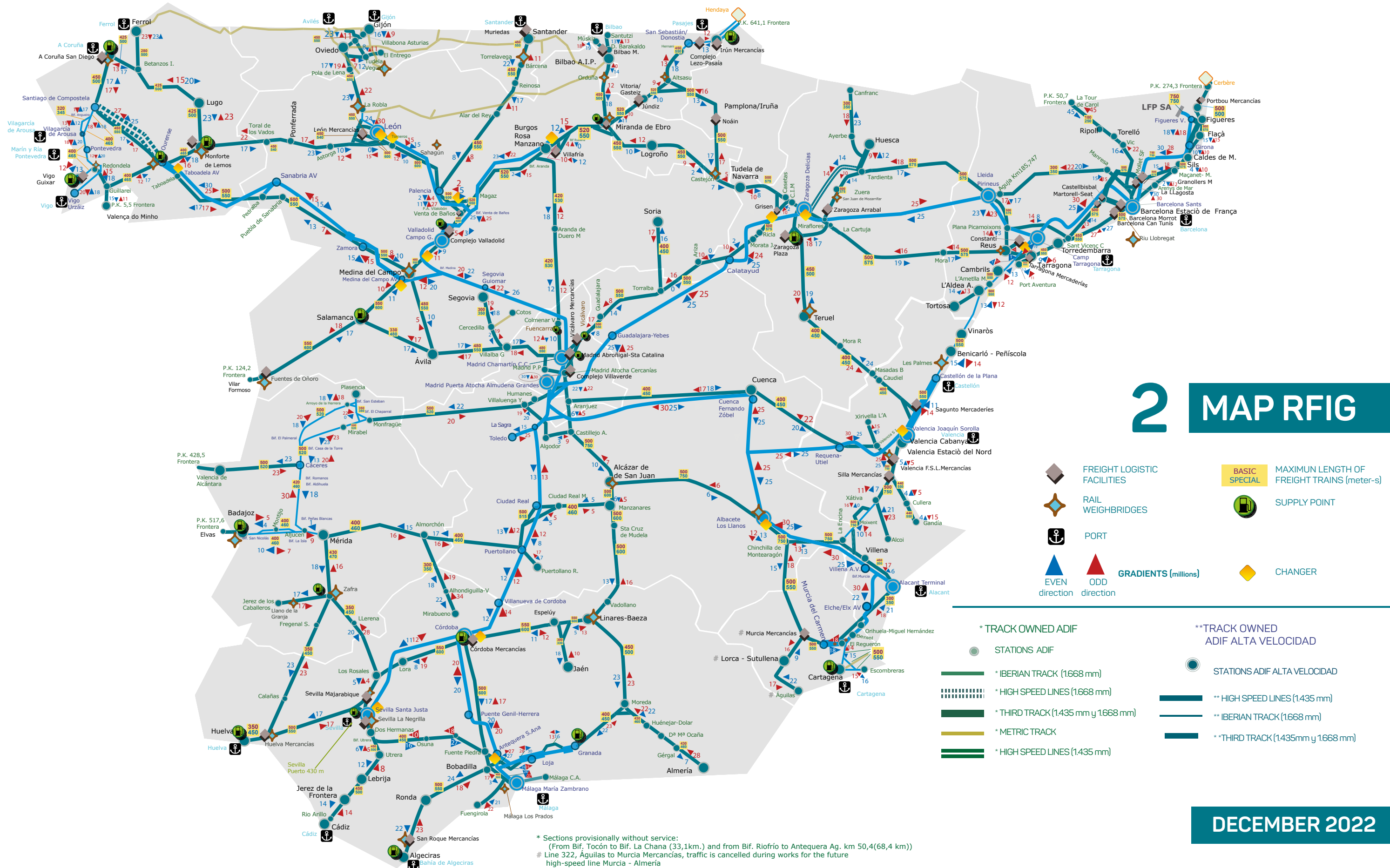


# 1 MAP RFIG

- COMMUTER HUBS
- (meters) MAXIMUM LENGTH OF PASSANGER TRAINS
- CHANGER
- KILOMETERS DISTANCES xxx Km**
- \* TRACK OWNED ADIF**
- STATIONS ADIF
- \* IBERIAN TRACK (1668 mm)
- \* HIGH SPEED LINES (1668 mm)
- \* THIRD TRACK (1435 mm y 1668 mm)
- \* METRIC TRACK
- \* HIGH SPEED LINES (1435 mm)
- \*\* TRACK OWNED ADIF ALTA VELOCIDAD**
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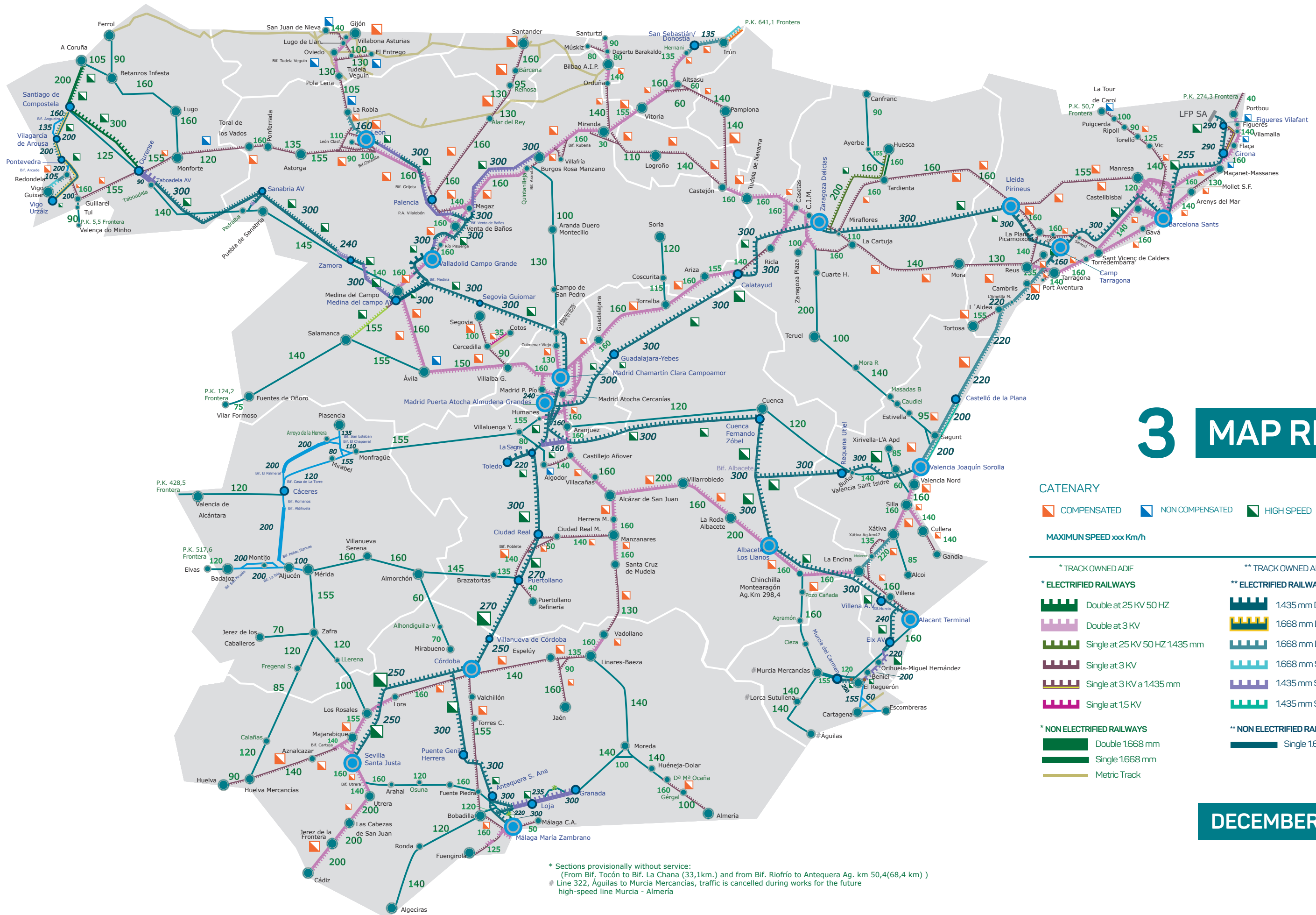
# 2 MAP RFIG

- FREIGHT LOGISTIC FACILITIES
- RAIL WEIGHBRIDGES
- PORT
- EVEN direction
- ODD direction
- GRADIENTS (millions)
- BASIC
- SPECIAL
- SUPPLY POINT
- CHANGER

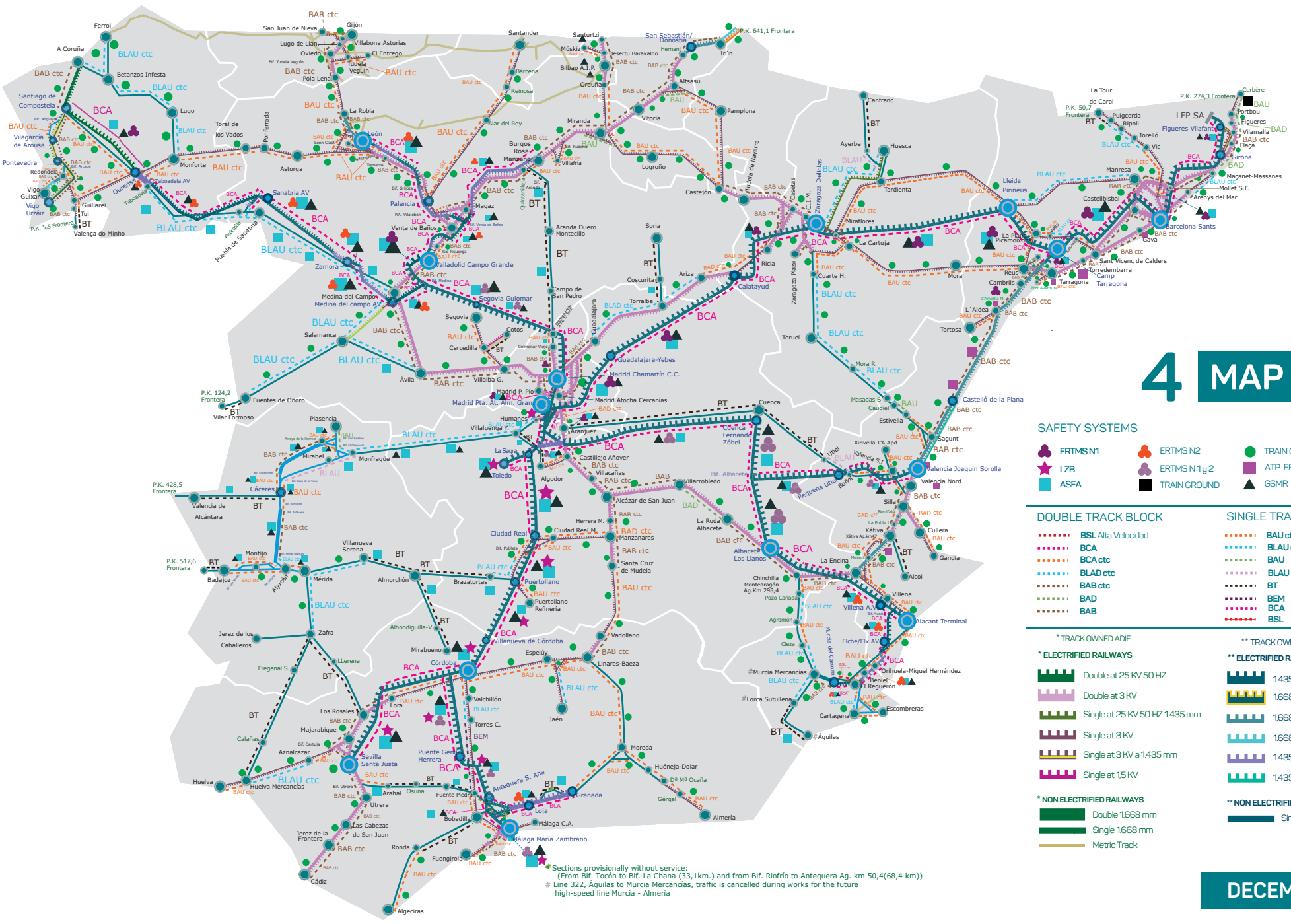
- \* TRACK OWNED ADIF
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**DECEMBER 2022**



# 4 MAP RFIG

- SAFETY SYSTEMS**
- ERTMS N1
  - LZB
  - ASFA
  - ERTMS N2
  - ERTMS N1y2
  - TRAIN GROUND
  - TRAIN GROUND AND ASFA
  - ATP-EBICAB
  - GSMR

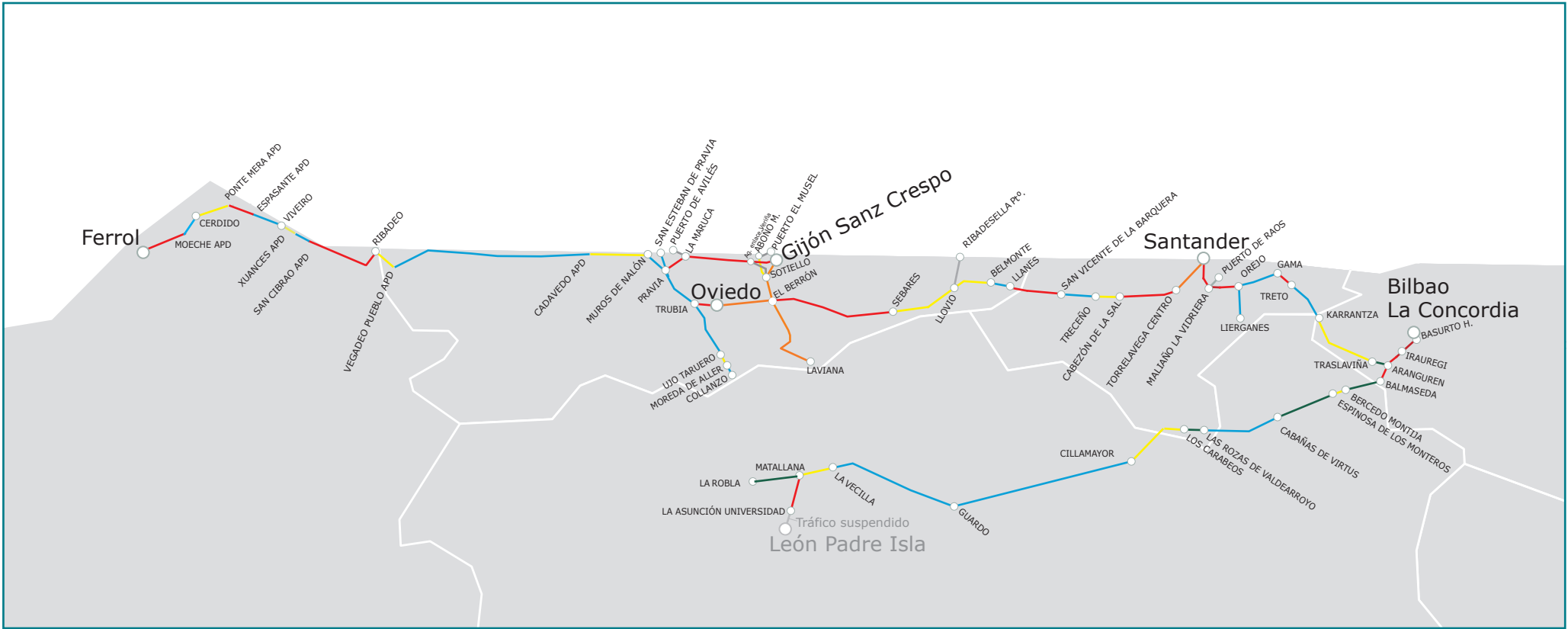
- DOUBLE TRACK BLOCK**
- BSL Alta Velocidad
  - BCA
  - BCA ctc
  - BLAD ctc
  - BAB ctc
  - BAD
  - BAB
- SINGLE TRACK BLOCK**
- BAU ctc
  - BLAU ctc
  - BAU
  - BLAU
  - BT
  - BEM
  - BCA
  - BSL

- \* TRACK OWNED ADIF**
- \* ELECTRIFIED RAILWAYS**
- Double at 25 KV 50 HZ
  - Double at 3 KV
  - Single at 25 KV 50 HZ 1435 mm
  - Single at 3 KV
  - Single at 3 KV a 1435 mm
  - Single at 15 KV
- \*\* TRACK OWNED ADIF ALTA VELOCIDAD**
- \*\* ELECTRIFIED RAILWAYS**
- 1435 mm Double at 25 KV 50 HZ
  - 1668 mm Double at 25 KV 50 HZ
  - 1668 mm Double at 3 KV
  - 1668 mm Single at 3 KV
  - 1435 mm Single at 25 KV 50 HZ
  - 1435 mm Single at 3KV
- \* NON ELECTRIFIED RAILWAYS**
- Double 1668 mm
  - Single 1668 mm
  - Metric Track
- \*\* NON ELECTRIFIED RAILWAYS**
- Single 1668 mm

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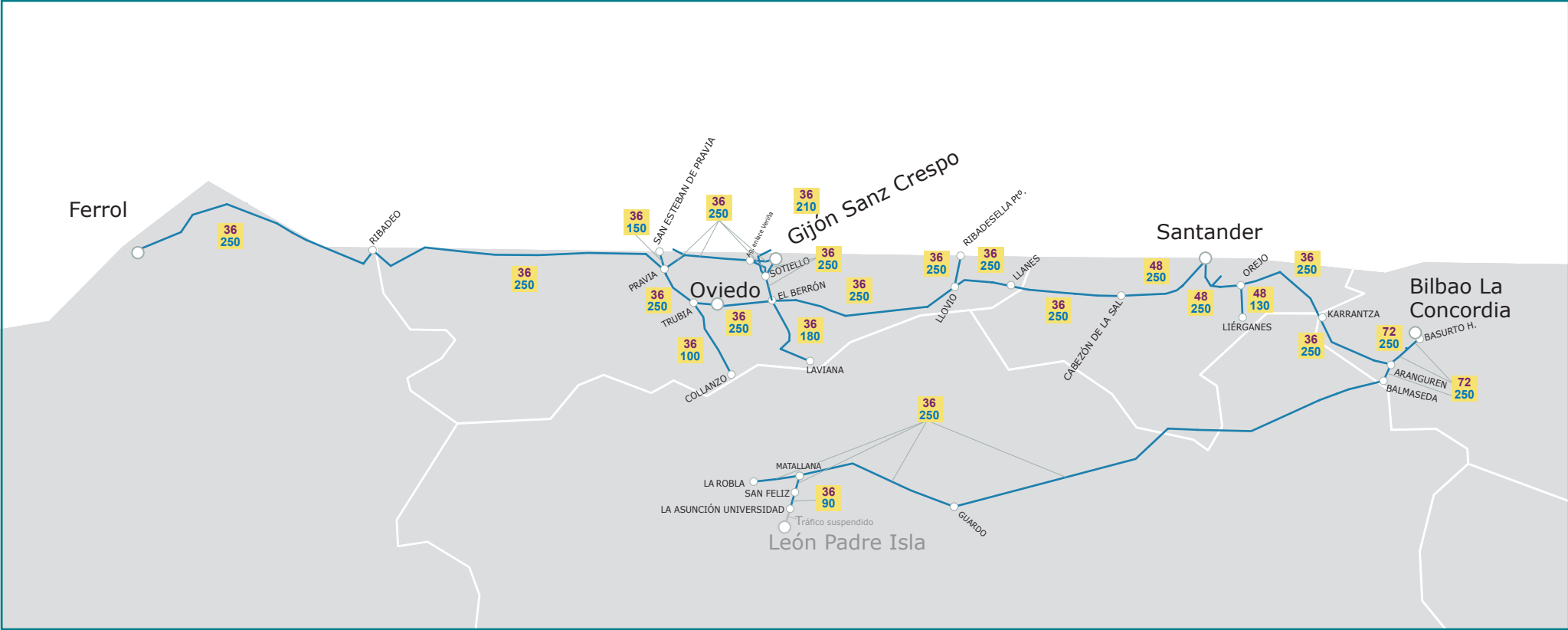
# MAXIMUM SPEEDS ON METRIC GAUGE LINES



October 2022

- 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-Cercedilla
- STATIONS

# MAXIMUM LENGTH OF PASSENGER TRAINS ON METRIC GAUGE LINES



October 2022

METRIC TRACK LINES  
line 116 except Cotos-Cercedilla

STATIONS

Long metros BASIC  
SPECIAL



# MAXIMUM LENGTH OF FREIGHT TRAINS ON METRIC GAUGE LINES



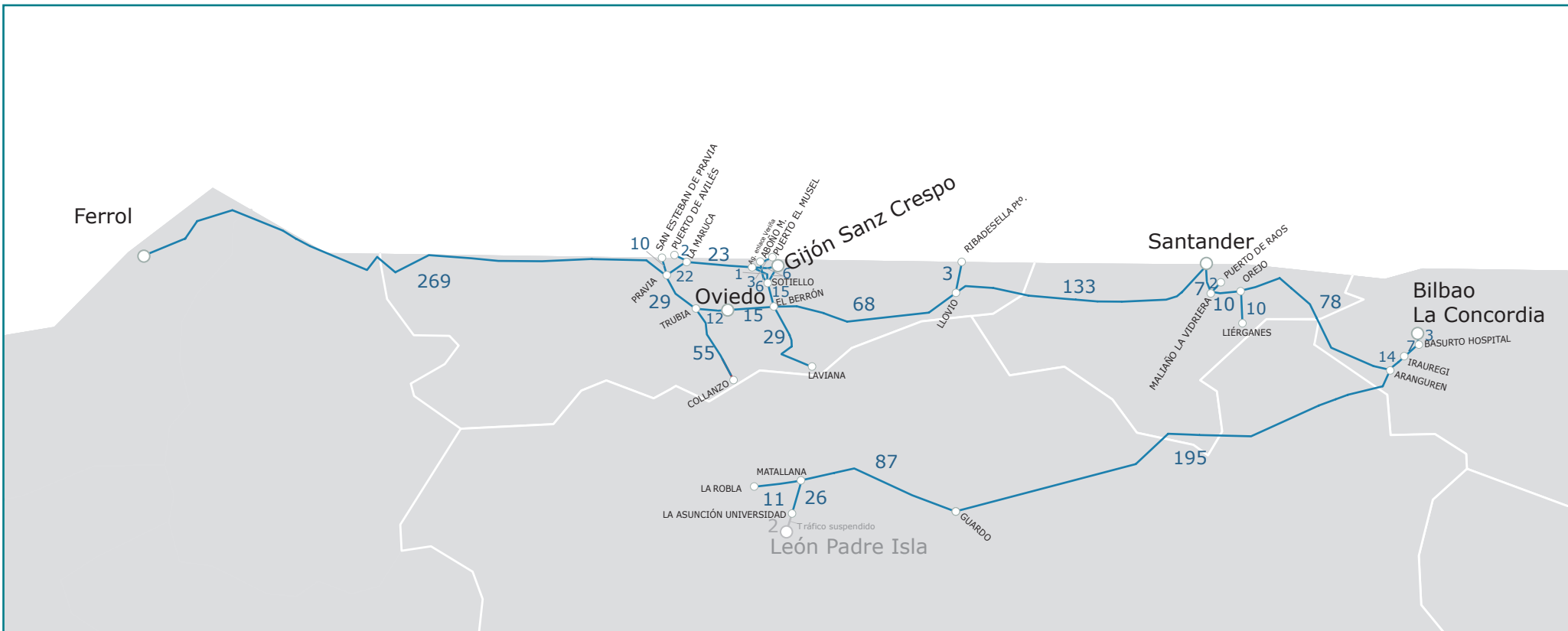
October 2022

— METRIC TRACK LINES  
line 116 except Cotos-Cercedilla

○ STATIONS

Leng. meters BASIC SPECIAL

# DISTANCES IN KILOMETERS OF METRIC GAUGE LINES

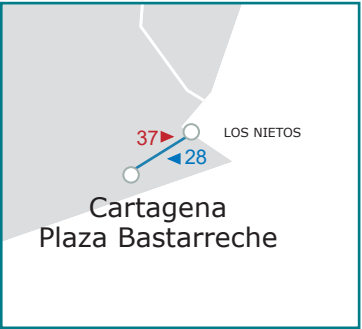
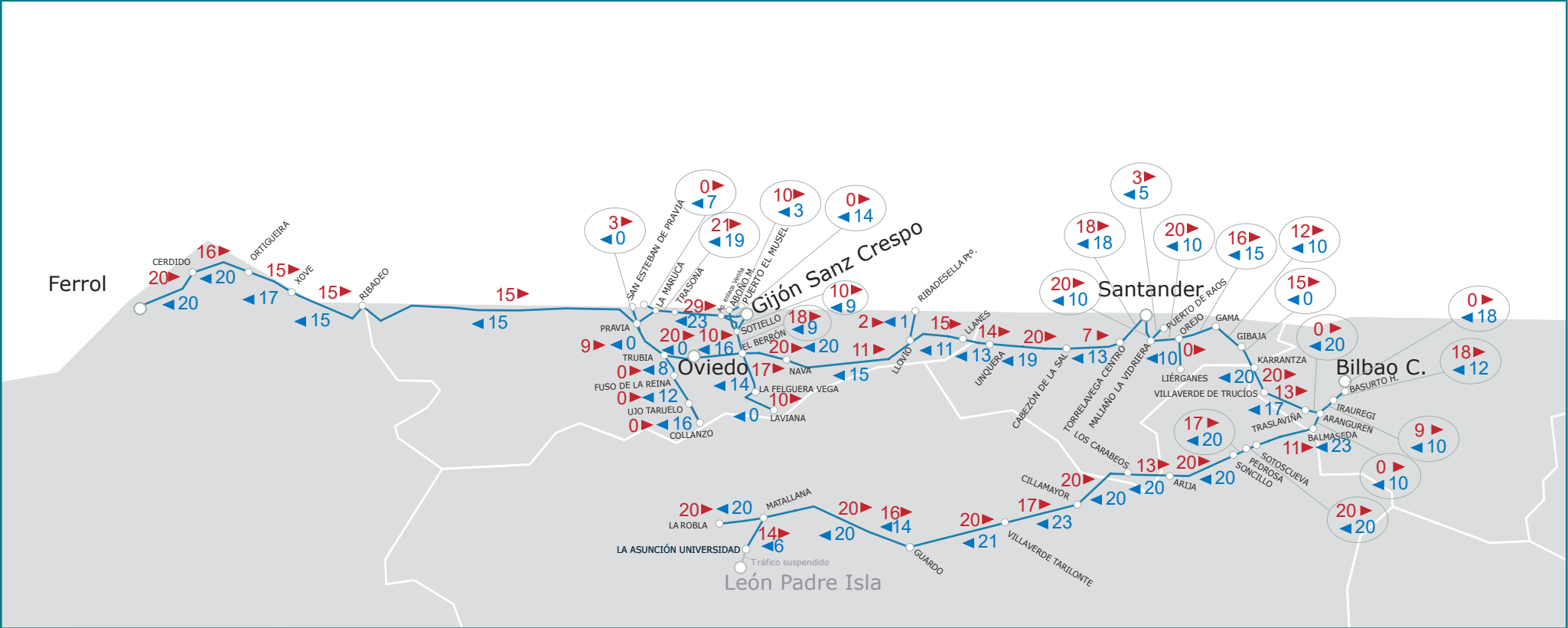


October 2022

METRIC TRACK LINES  
line 116 except Cotos-Cercedilla

STATIONS

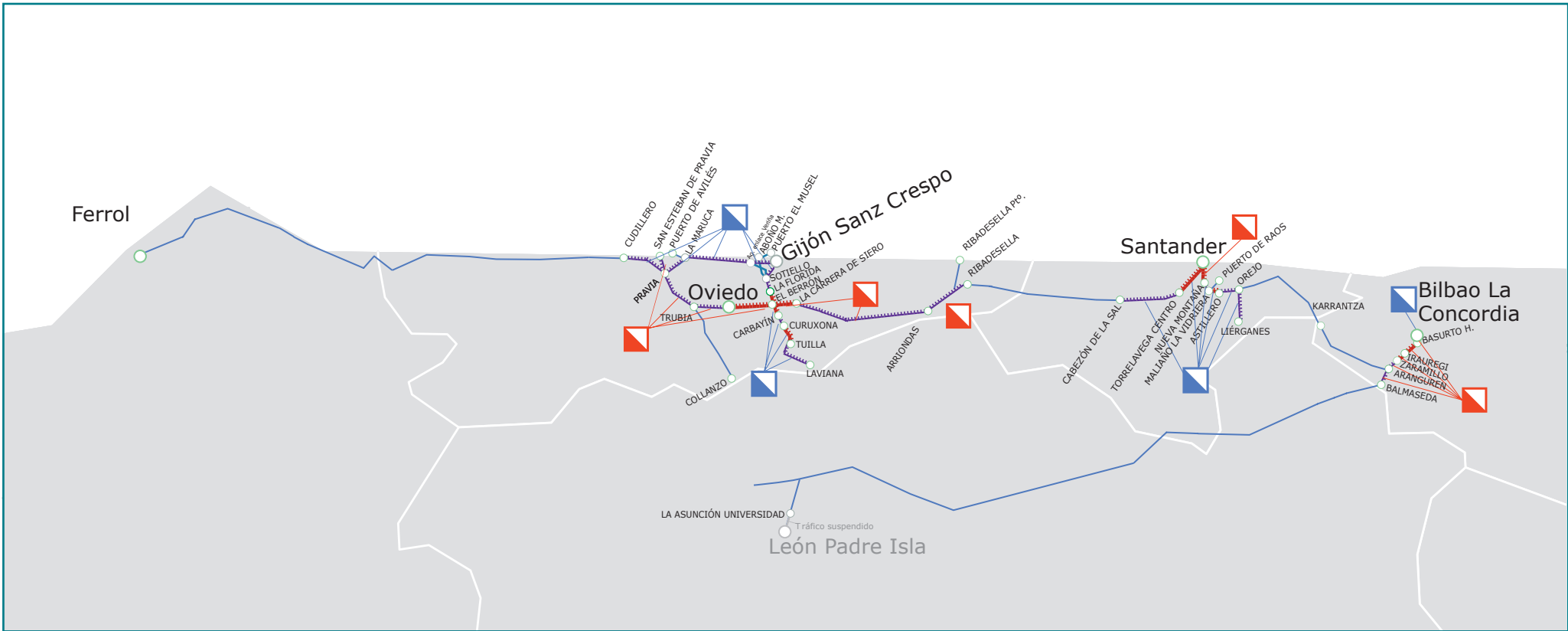
# CHARACTERISTIC GRADIENTS (THOUSANDTHS) OF METRIC GAUGE LINES



October 2022

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

# ELECTRIFIED LINES AND TYPES OF ELECTRIFICATION OF METRIC GAUGE LINES



October 2022

- CATENARY

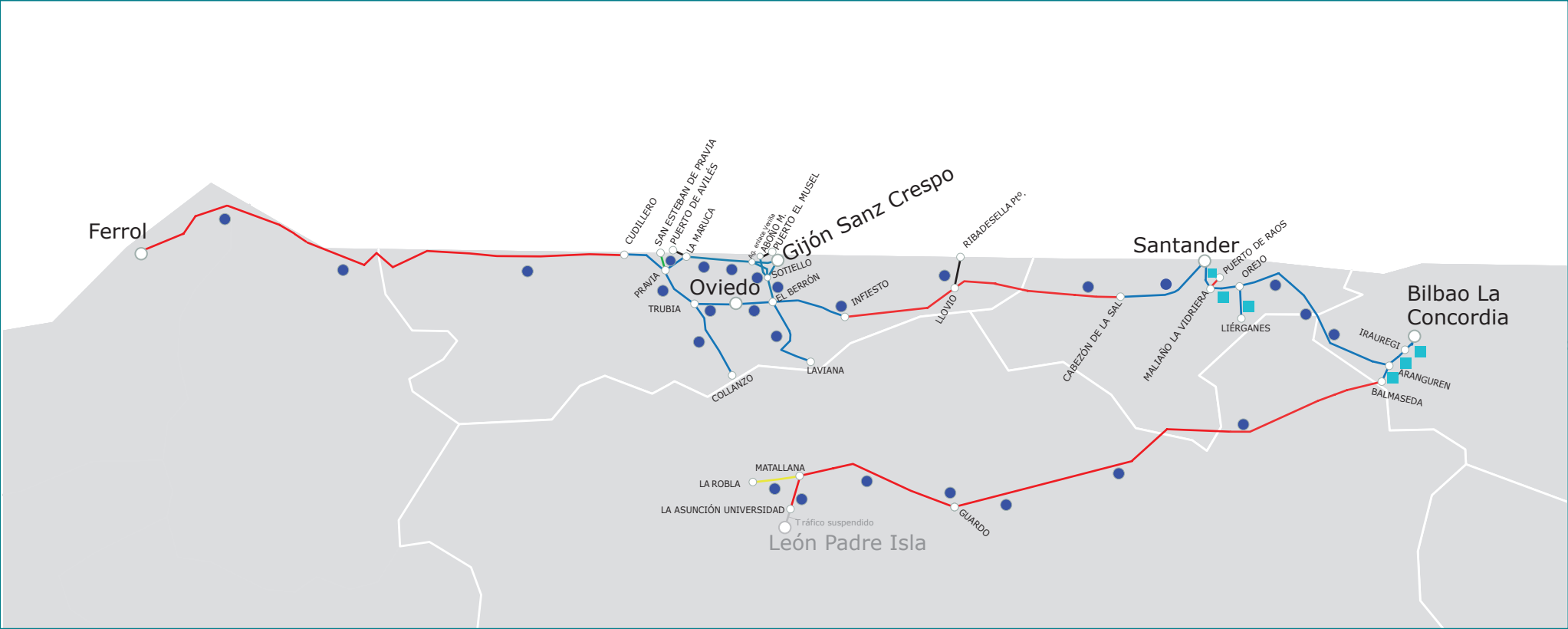
  - ▣ COMPENSATED
  - ▣ NON COMPENSATED
- NON-ELECTRIFIED RAILWAYS

  - SINGLE
- ELECTRIFIED RAILWAYS

  - DOUBLE AT 1.5 KV
  - SINGLE AT 1.5 KV
- METRIC TRACK LINES  
line 116 except Cotos-Cercedilla

  -

# BLOCK AND SAFETY SYSTEMS ON METRIC GAUGE LINES



October 2022

- 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)
- METRIC TRACK LINES  
line 116 except Cotos-Cercedilla
- ASFA (analogical)
- ASFA (digital)
- STATIONS



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