

NETWORK STATEMENT

2022





Edition:

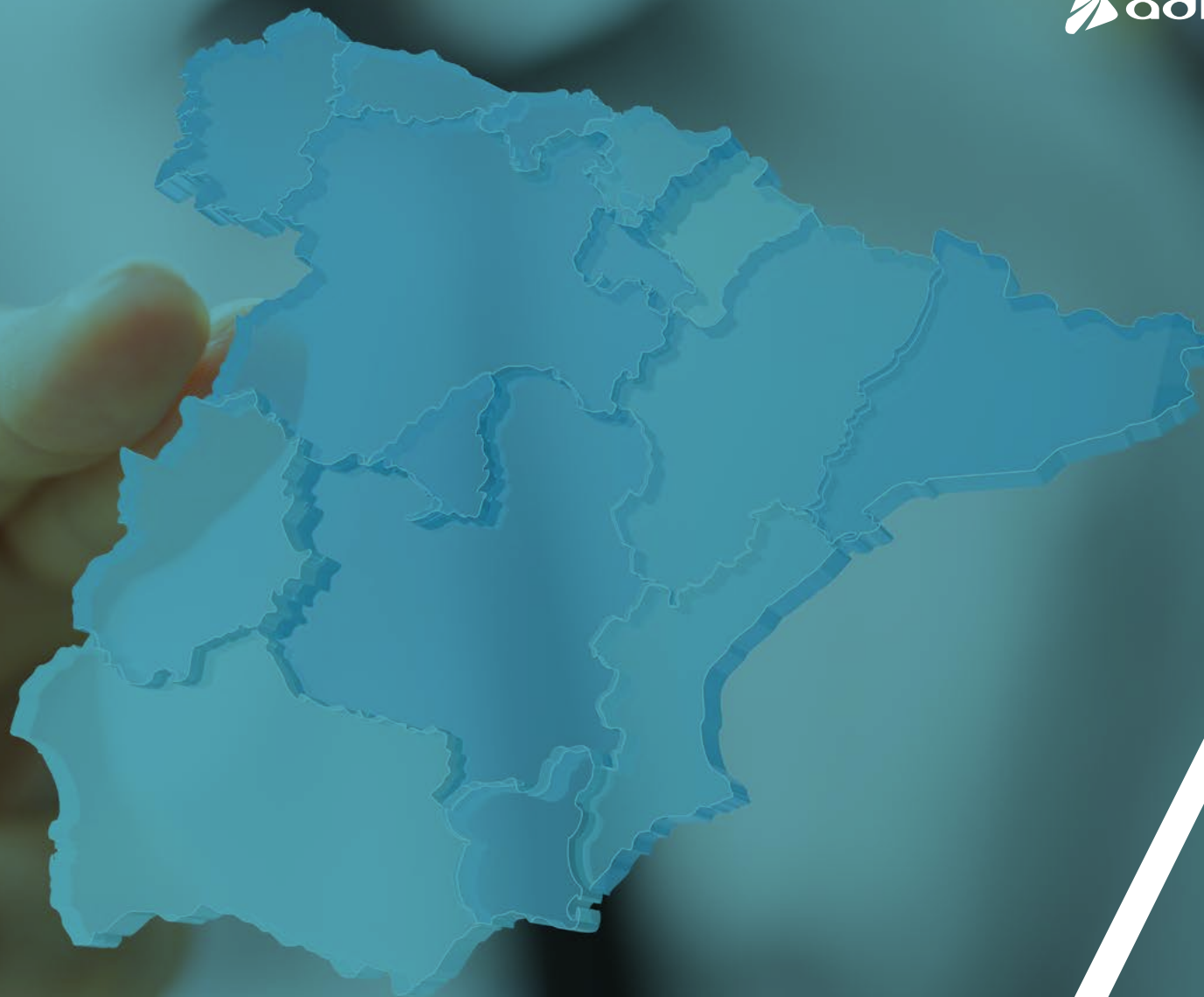
DIRECCIÓN GENERAL DE NEGOCIO Y OPERACIONES COMERCIALES

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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.

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:

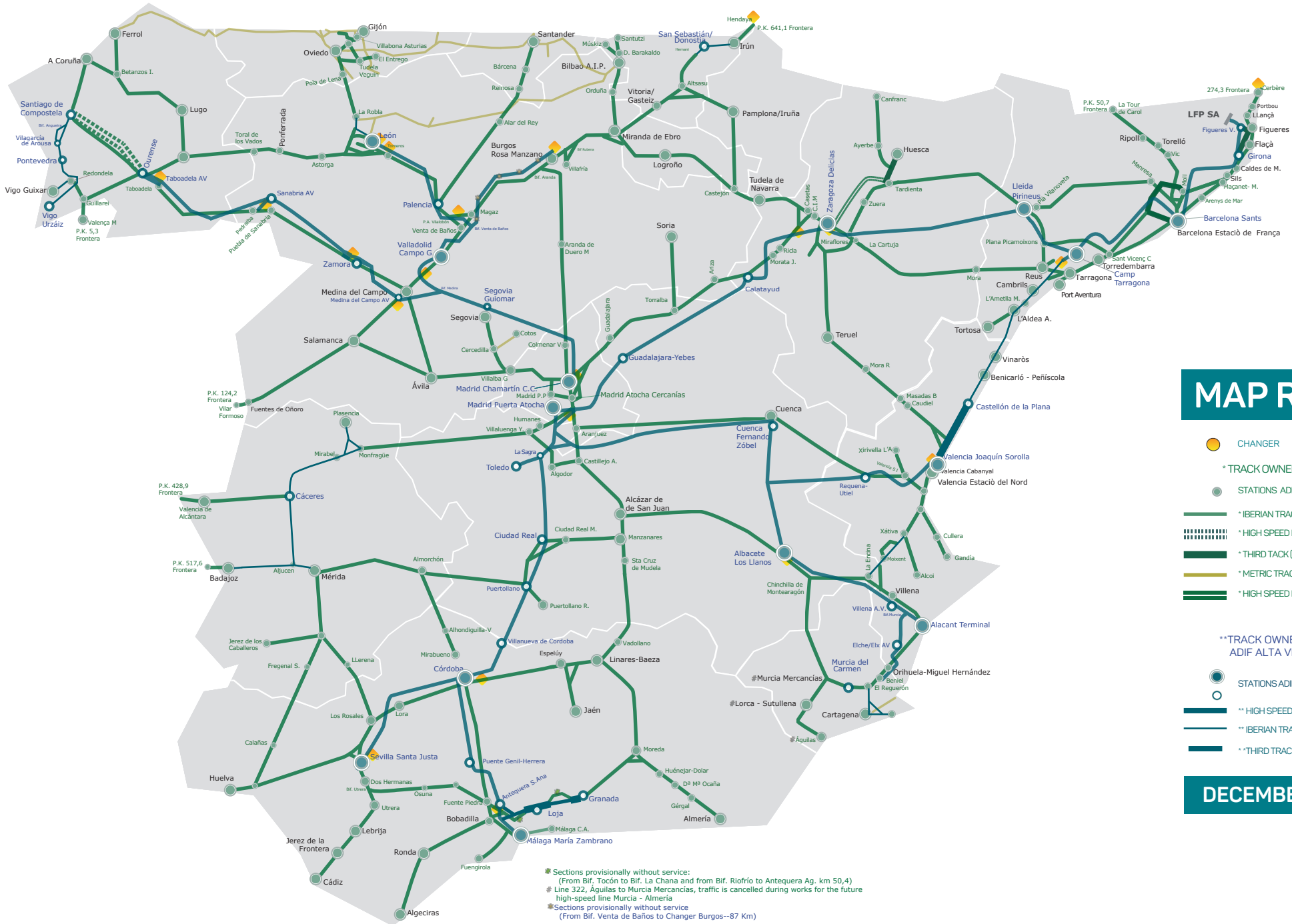
Types of Electrification and Catenaries.

Map 7 RAM:

Safety and Blocking Systems.

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.



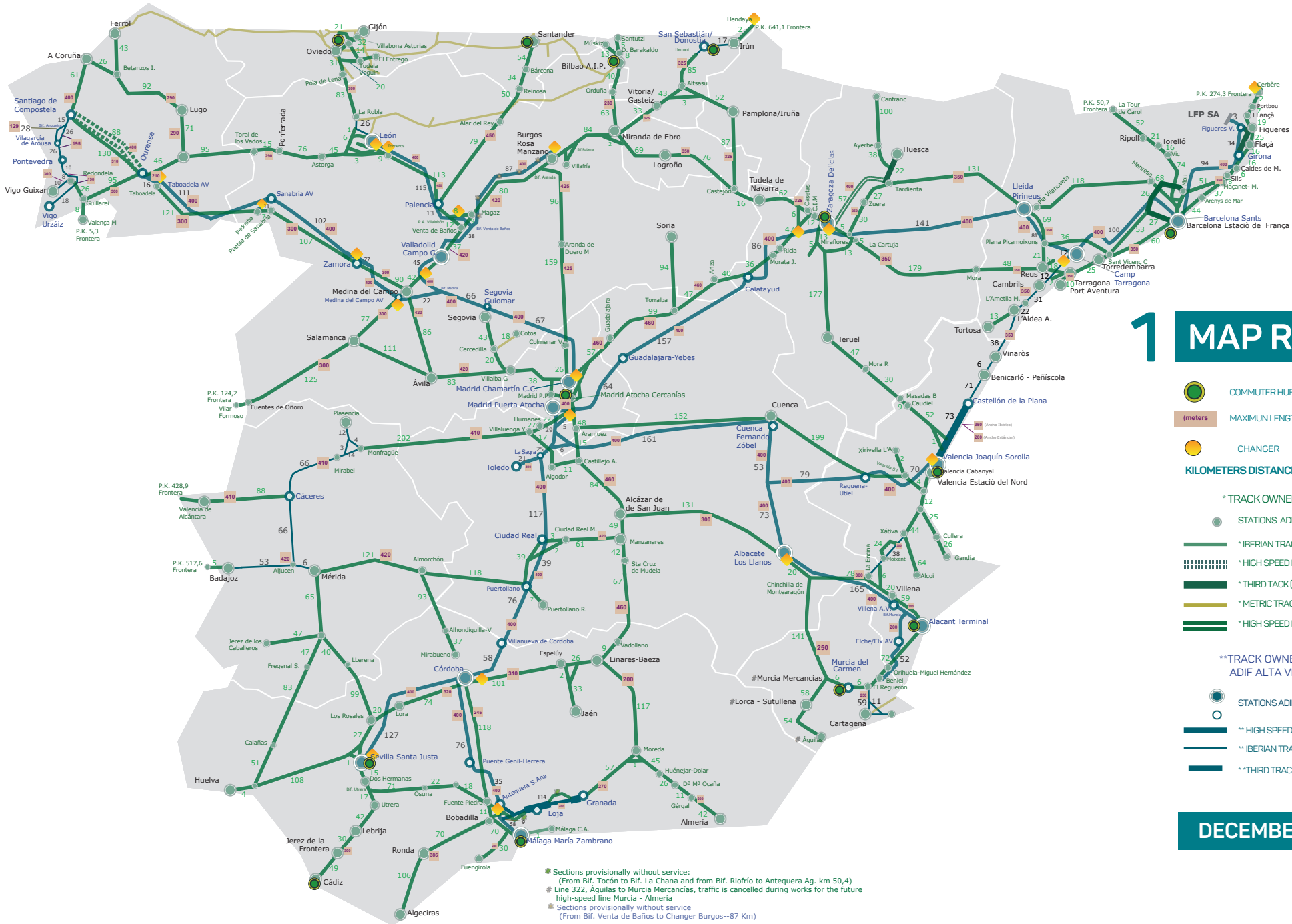
MAP RFIG

- 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 (1435 mm y 1668 mm)

DECEMBER 2021

■ Sections provisionally without service:
 (From Bif. Tocón to Bif. La Chana and from Bif. Riofrio to Antequera Ag. km 50,4)
Line 322, Águilas to Murcia Mercancías, traffic is cancelled during works for the future high-speed line Murcia - Almería
■ Sections provisionally without service
 (From Bif. Venta de Baños to Changer Burgos--87 Km)

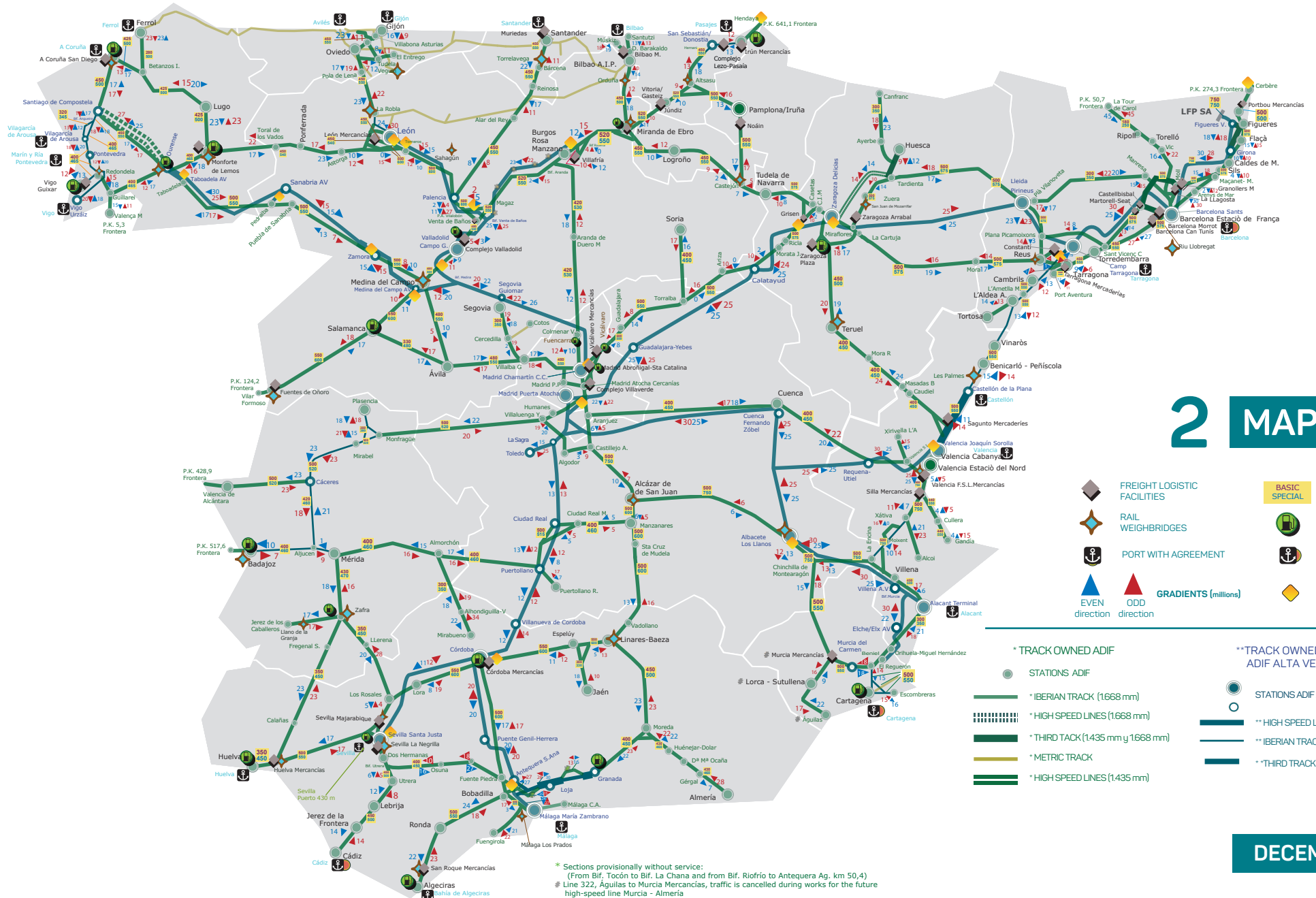


1 MAP RFIG

- COMMUTER HUBS
- 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 TACK (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 2021

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 (From Bif. Tocón to Bif. La Chana and from Bif. Riofrio to Antequera Ag. km 50,4)
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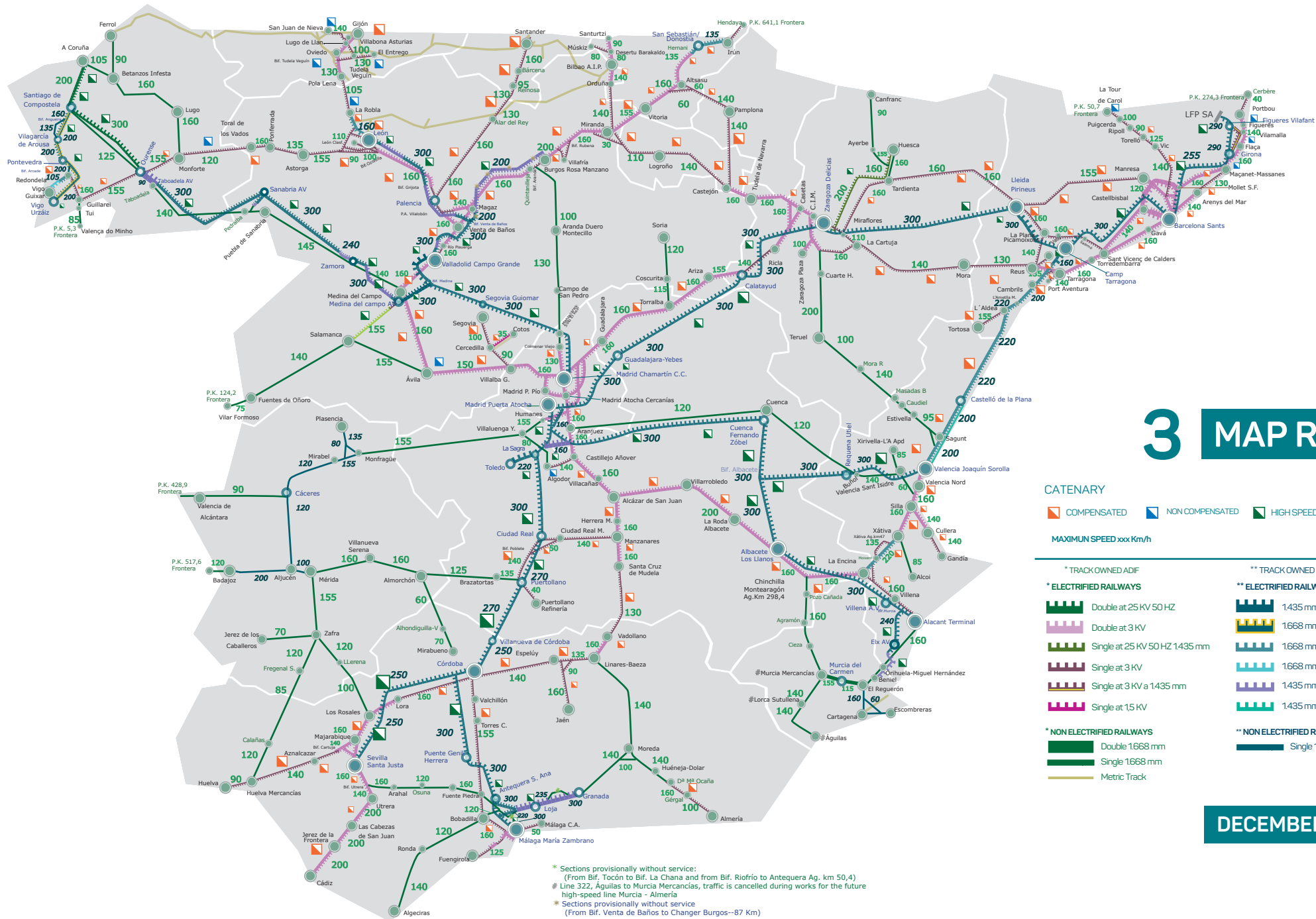
2 MAP RFIG

- FREIGHT LOGISTIC FACILITIES
- RAIL WEIGHBRIDGES
- PORT WITH AGREEMENT
- EVEN direction
- ODD direction
- GRADIENTS (millions)
- BASIC
- SPECIAL
- SUPPLY POINT
- PORT WITHOUT AGREEMENT
- CHANGER

- * TRACK OWNED ADIF
- STATIONS ADIF
- * IBERIAN TRACK (1668 mm)
- ▨ * HIGH SPEED LINES (1668 mm)
- * THIRD TACK (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 (1.668 mm)
- * THIRD TRACK (1435mm y 1668 mm)

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 (From Bif. Tocón to Bif. La Chana and from Bif. Riofrio to Antequera Ag. km 50.4)
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3 MAP RFIG

CATENARY

- ▣ COMPENSATED
- ▣ NON COMPENSATED
- ▣ HIGH SPEED

MAXIMUM SPEED xxx Km/h

* 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

* NON ELECTRIFIED RAILWAYS

- ▬ Double 1668 mm
- ▬ Single 1668 mm
- ▬ Metric Track

** TRACK OWNED ADIF ALTA VELOCIDAD

** ELECTRIFIED RAILWAYS

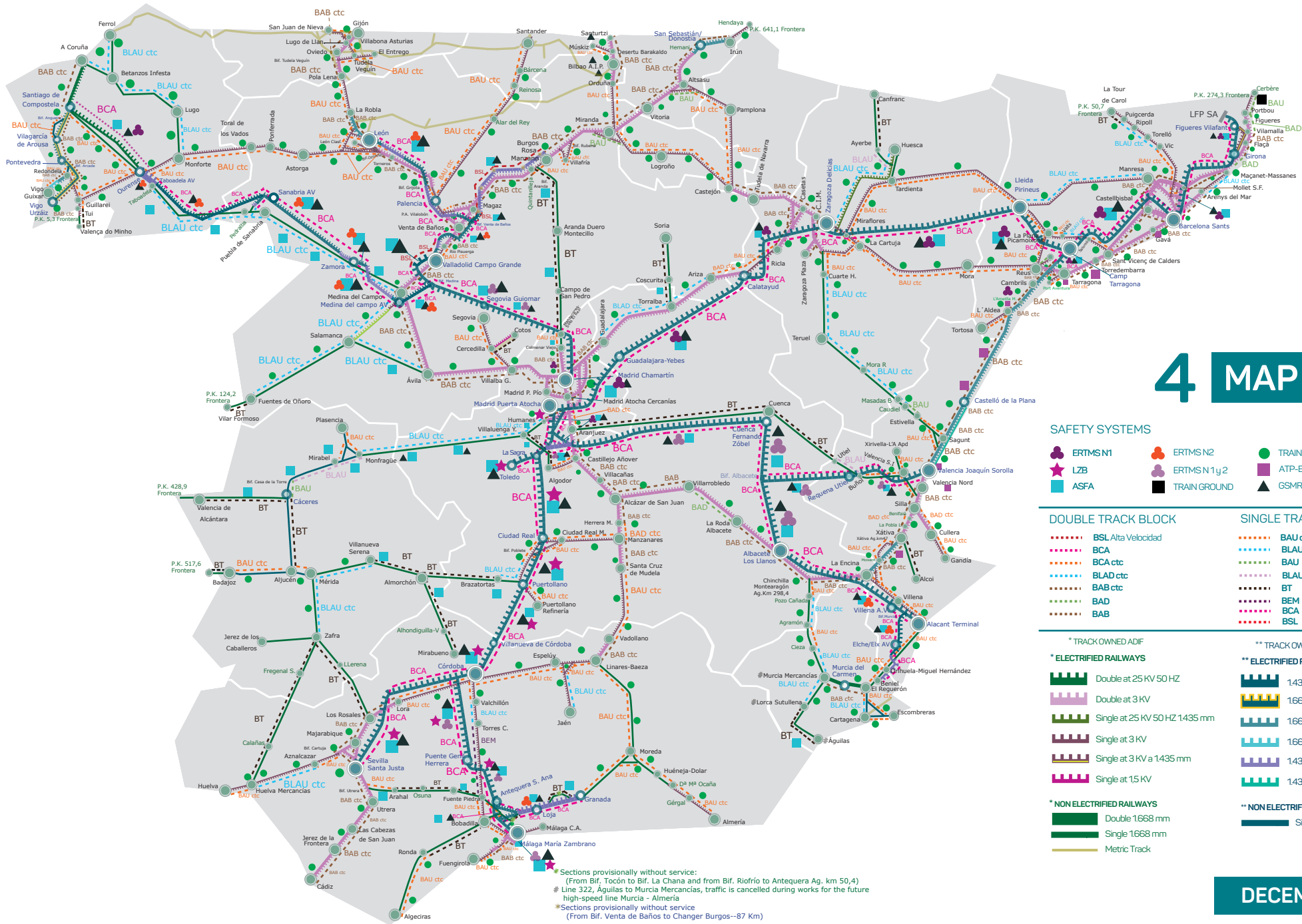
- ▬ 1435 mm Double at 25 KV 50 HZ
- ▬ 1668 mm Double at 25 KV 50 HZ
- ▬ 1668 mm Double at 3 KV
- ▬ 1668 mm Single at 3 KV
- ▬ 1435 mm Single at 25 KV 50 HZ
- ▬ 1435 mm Single at 3KV

** NON ELECTRIFIED RAILWAYS

- ▬ Single 1668 mm

* Sections provisionally without services:
 (From Bif. Tocón to Bif. La Chana and from Bif. Riofrio to Antequera Ag. km 50,4)
 # Line 322, Águilas to Murcia Mercancías, traffic is cancelled during works for the future high-speed line Murcia - Almería
 * Sections provisionally without service
 (From Bif. Venta de Baños to Changer Burgos--87 Km)

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4 MAP RFIG

SAFETY SYSTEMS

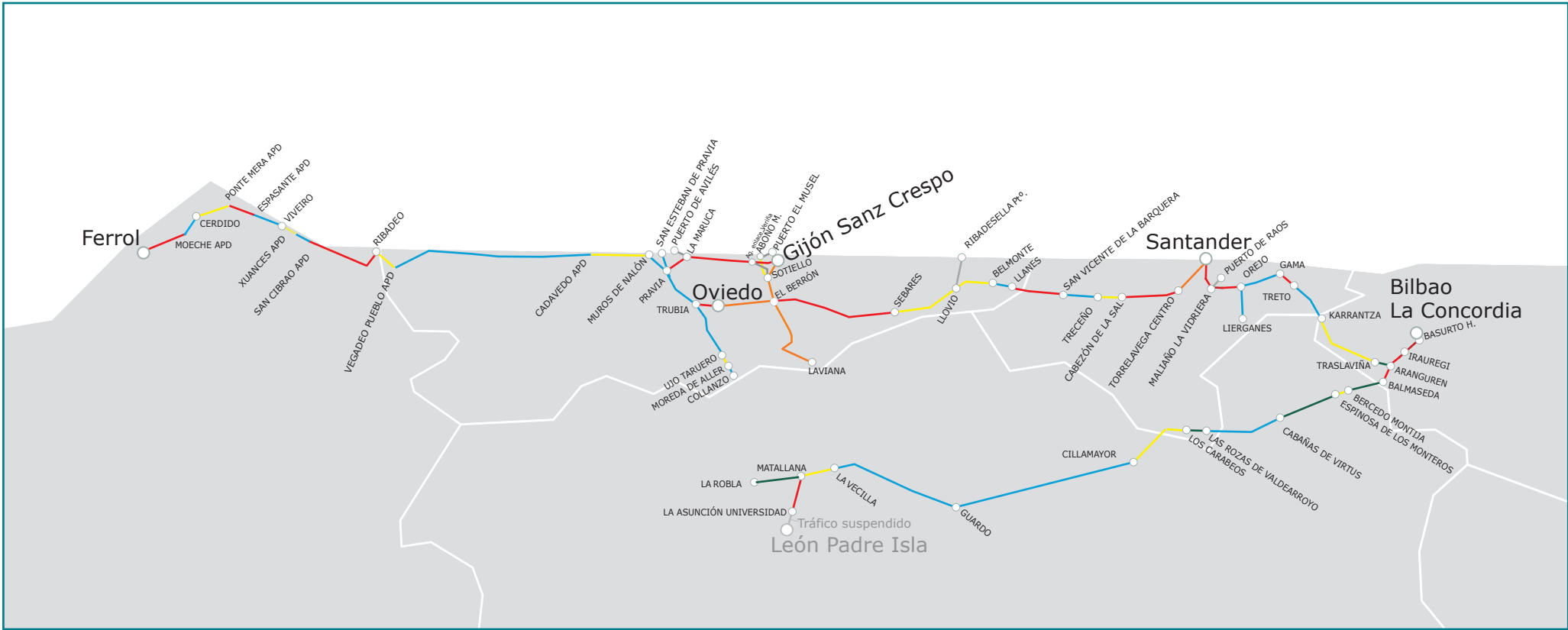
ERTMS N1	ERTMS N2	TRAIN GROUND AND ASFA
LZB	ERTMS N1y2	ATP-EBICAB
ASFA	TRAIN GROUND	GSMR

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

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

Sections provisionally without service:
 (From Bif. Tocón to Bif. La Chana and from Bif. Riofrio to Antequera Ag. km 50,4)
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 * Sections provisionally without service
 (From Bif. Venta de Baños to Changer Burgos--87 Km)

MAXIMUM SPEEDS ON METRIC GAUGE LINES



OCTOBER 2021

- 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 2021

- METRIC TRACK LINES
line 116 except Cotos-Cercedilla
- STATIONS
- Leng. meters BASIC
SPECIAL

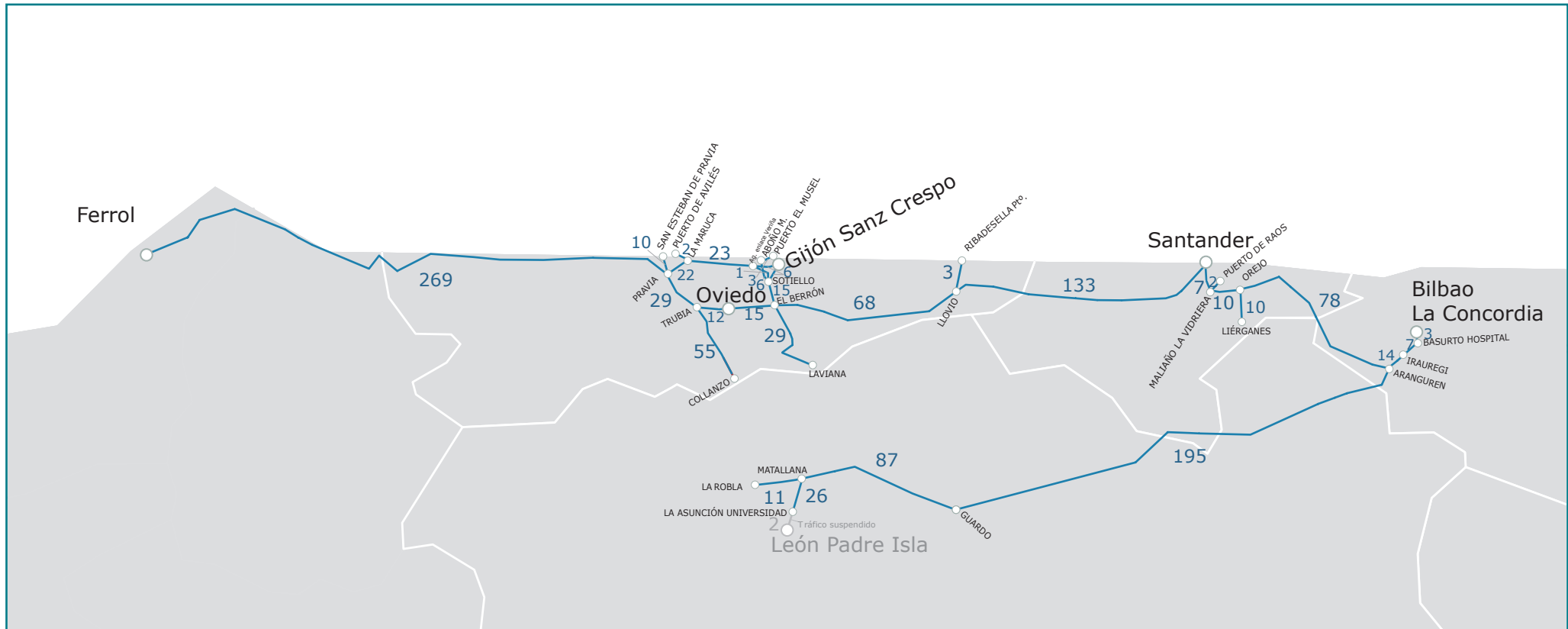
MAXIMUM LENGTH OF FREIGHT TRAINS ON METRIC GAUGE LINES



OCTOBER 2021



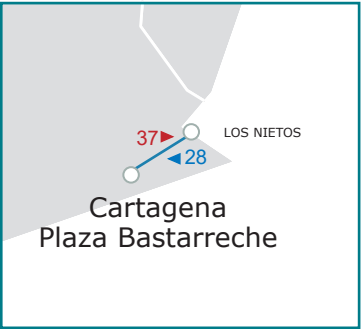
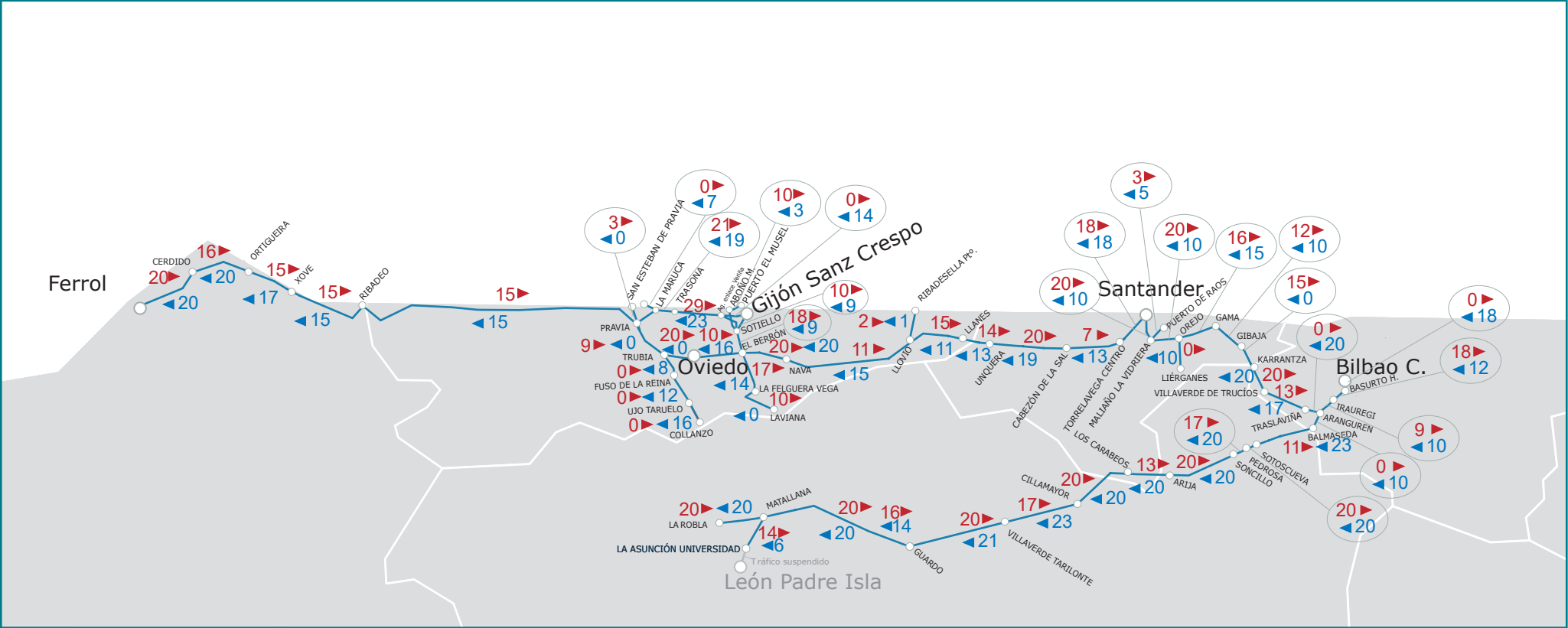
DISTANCES IN KILOMETERS OF METRIC GAUGE LINES



OCTOBER 2021

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

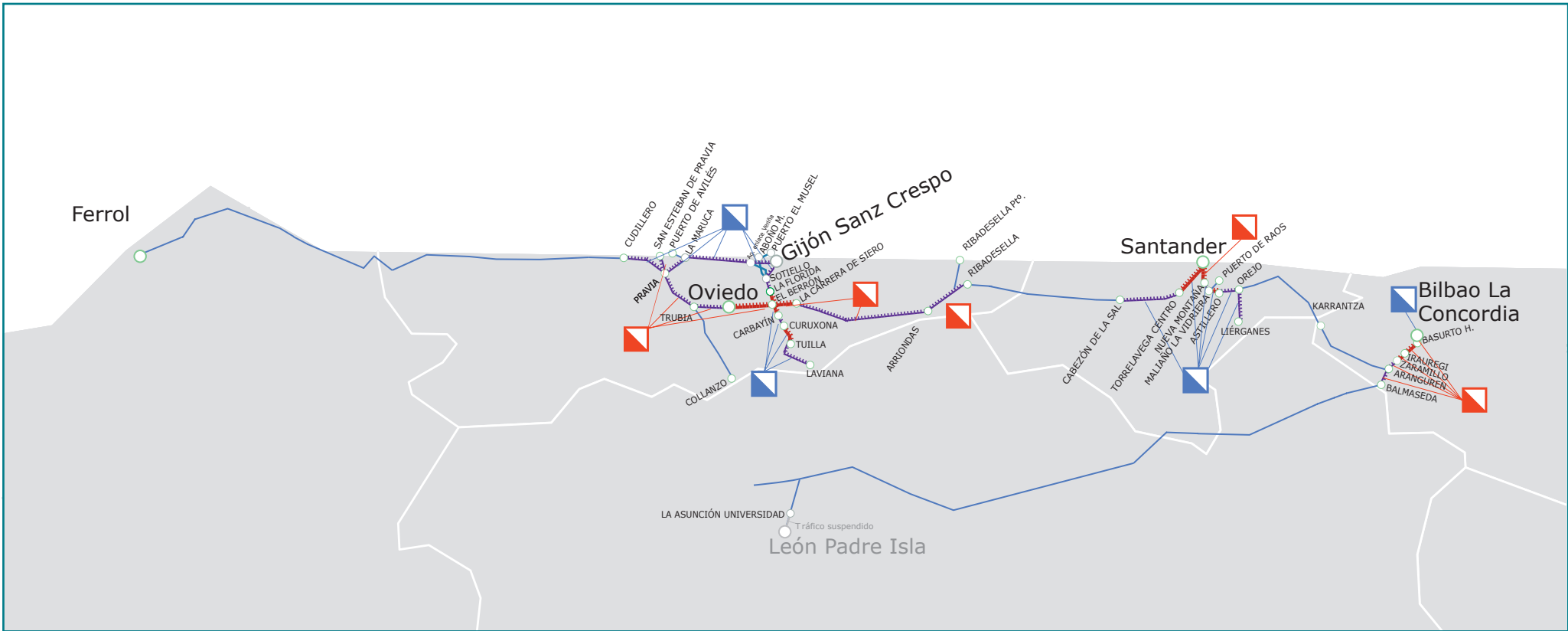
CHARACTERISTIC GRADIENTS (THOUSANDTHS) OF METRIC GAUGE LINES



OCTOBE 2021

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

ELECTRIFIED LINES AND TYPES OF ELECTRIFICATION OF METRIC GAUGE LINES



OCTOBER 2021

CATENARY

-  COMPENSATED
-  NON COMPENSATED

NON-ELECTRIFIED RAILWAYS

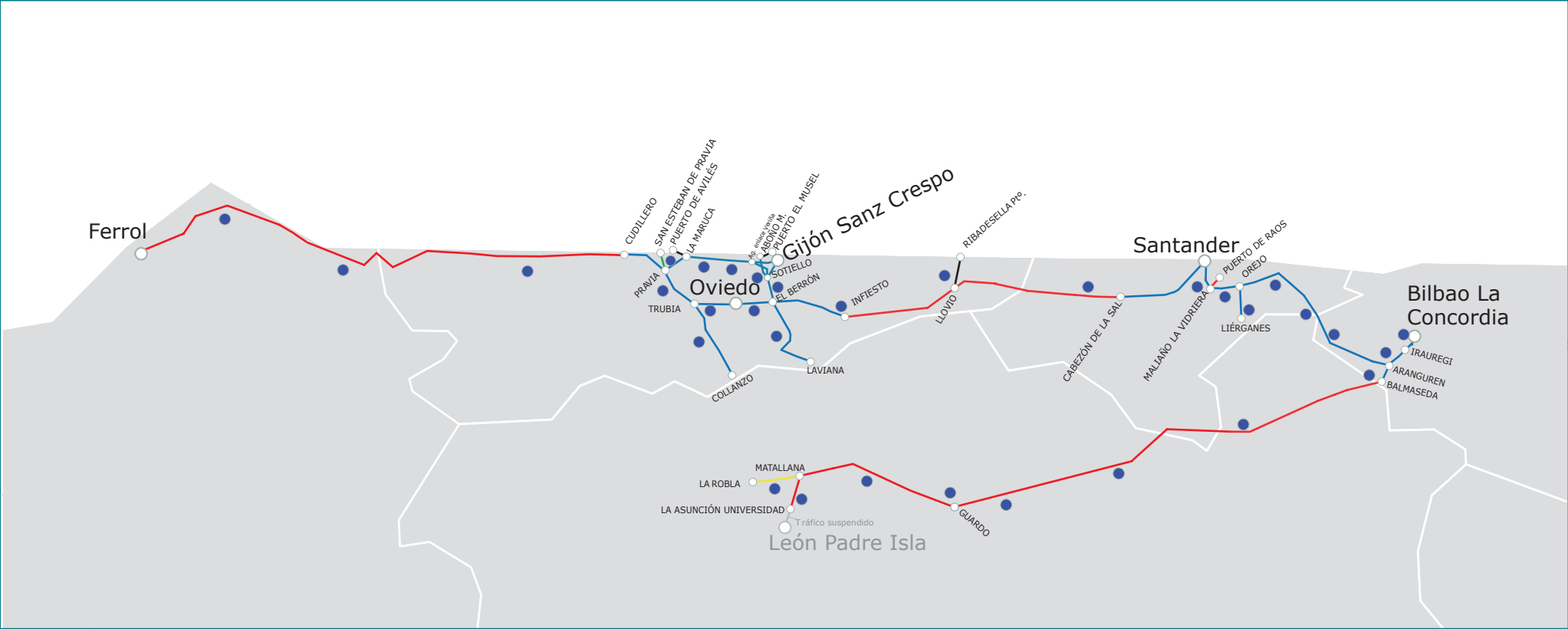
-  SINGLE

ELECTRIFIED RAILWAYS

-  DOUBLE AT 11.5 KV
-  SINGLE AT 1.5 KV

 METRIC TRACK LINES
line 116 except Cotos-Cercedilla

BLOCK AND SAFETY SYSTEMS ON METRIC GAUGE LINES



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- 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)
 - STATIONS