

# CUSTOMISED MAP APP

<https://mapaalacarta.cnig.es>

Map Apps for Citizens  
22 september 2022

Celia Sevilla

National Geographic Institute of Spain

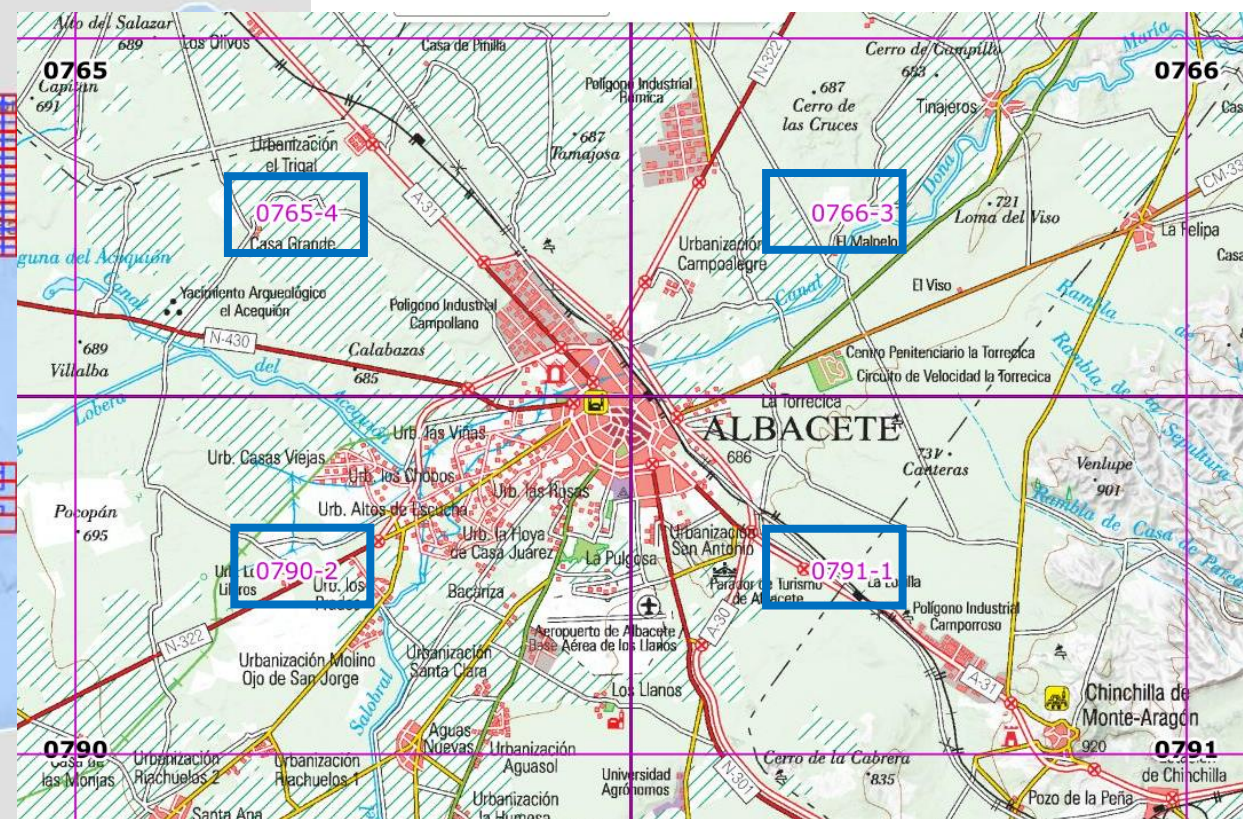
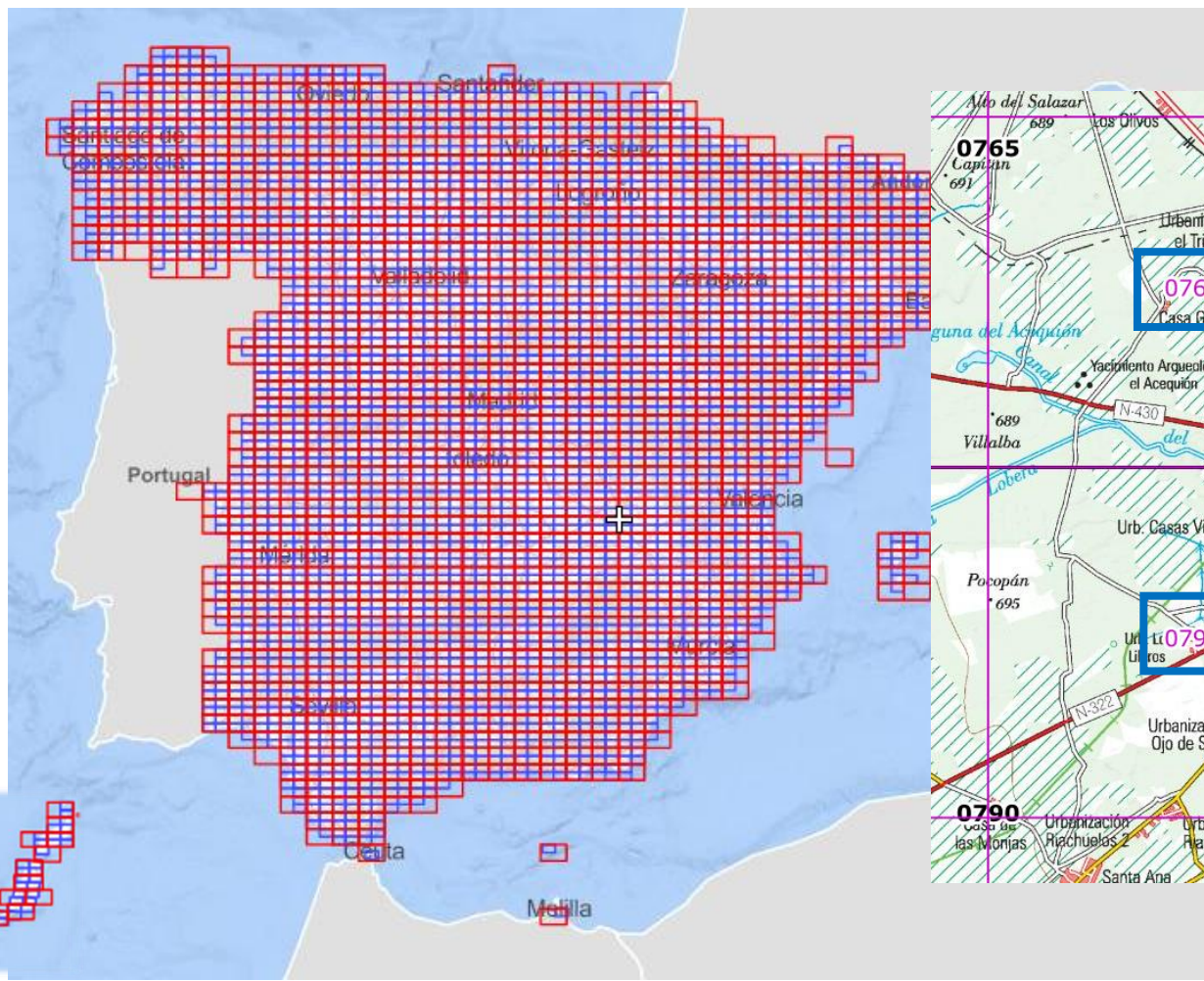


# Introduction

- The topographic map sheet was the unit of work and distribution (4.123 sheets at 25k)

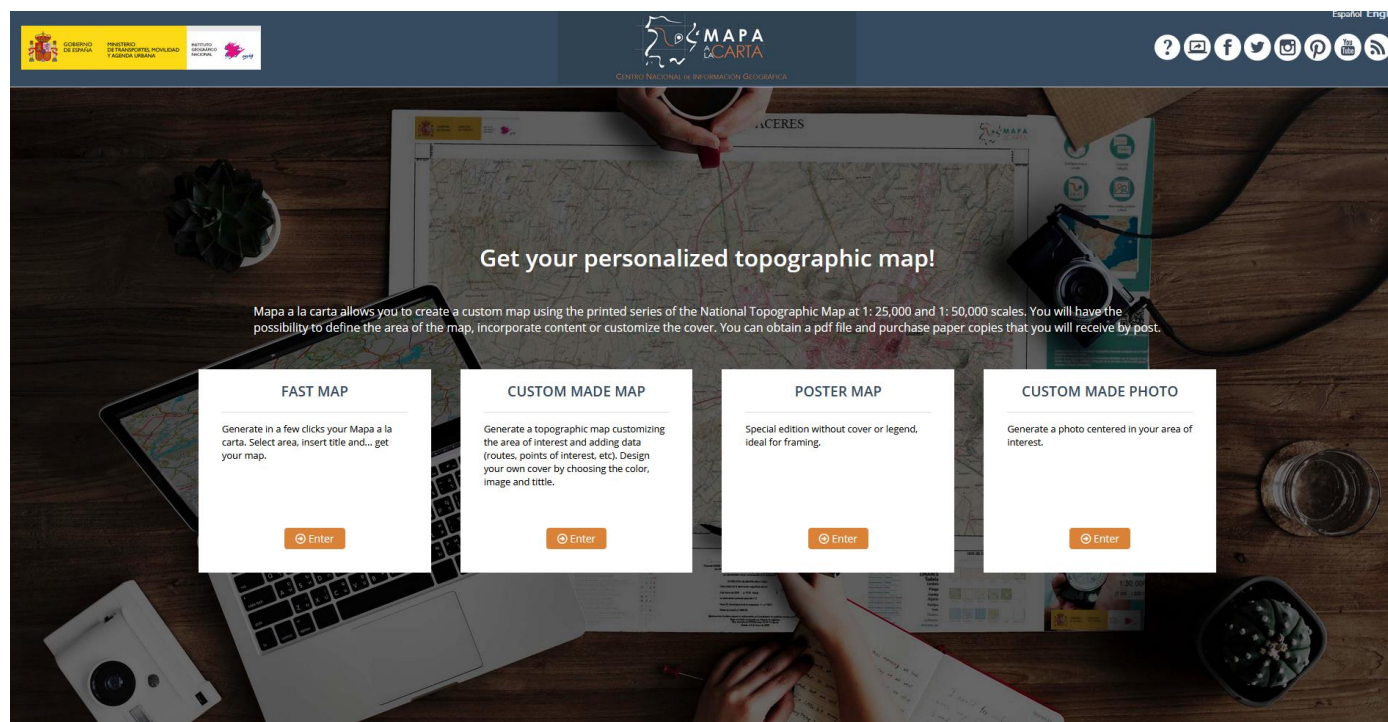


web application to get customised topographic maps and aerial photos



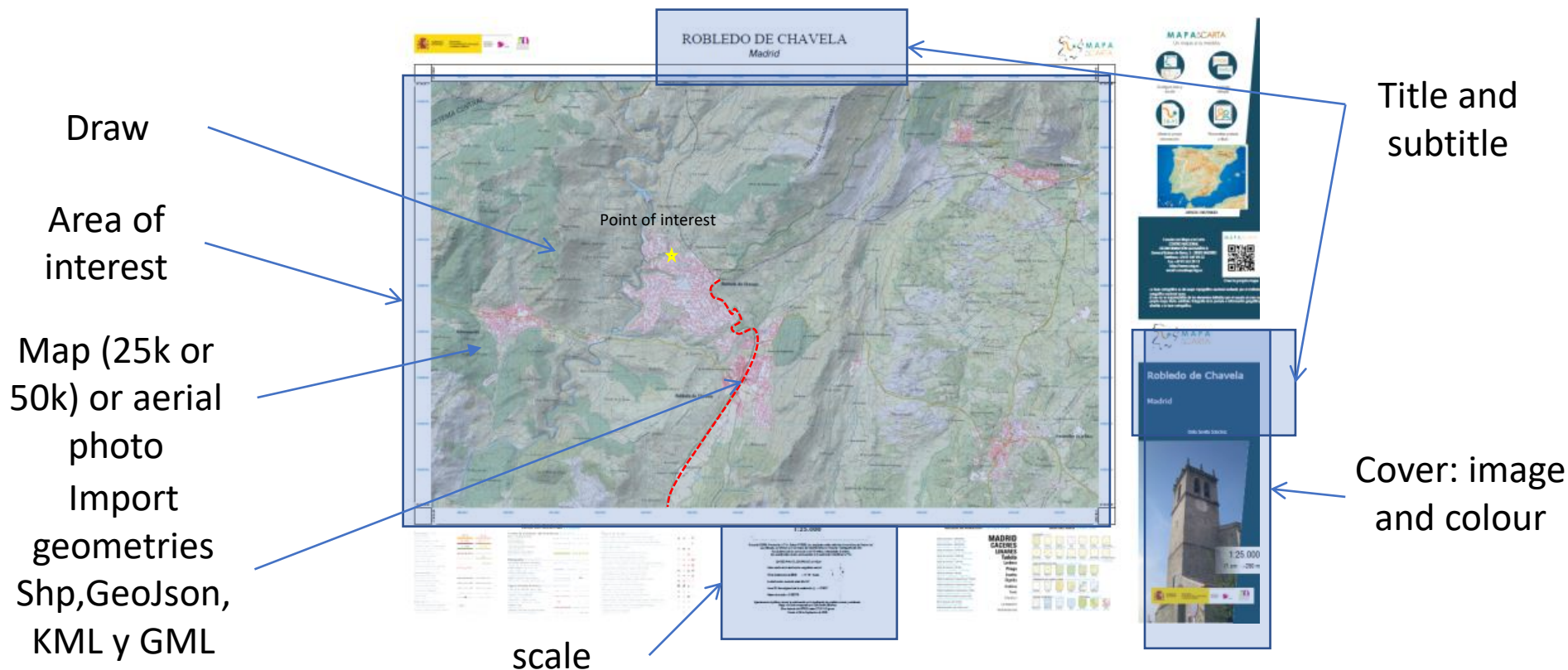
# Characteristics

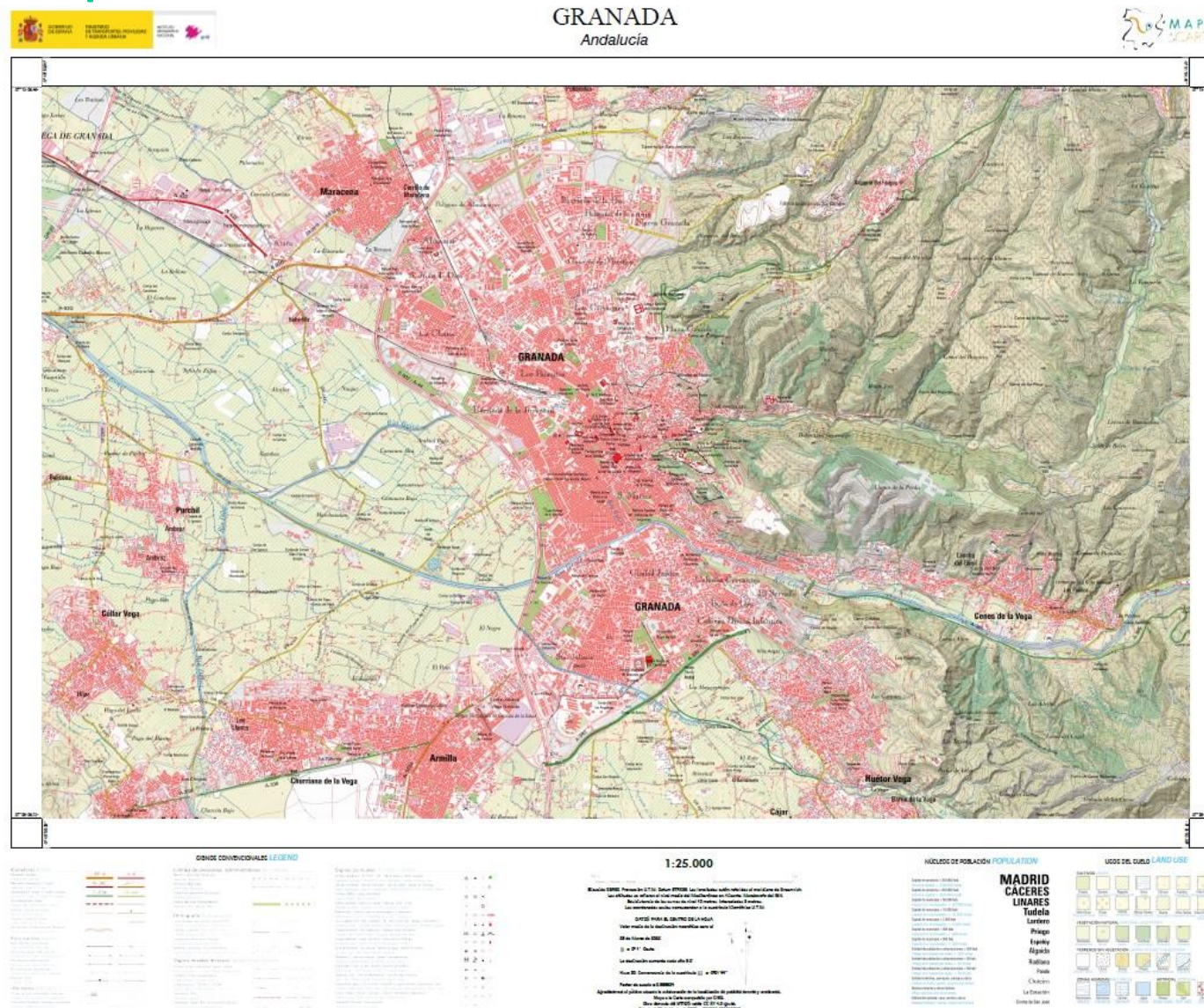
- V.1 published in March of 2021. V.2 March 2022.
- Open source *software*
- The customized map or aerial photo can be download for free or purchased
- Four options: basic, advanced, poster or aerial photo



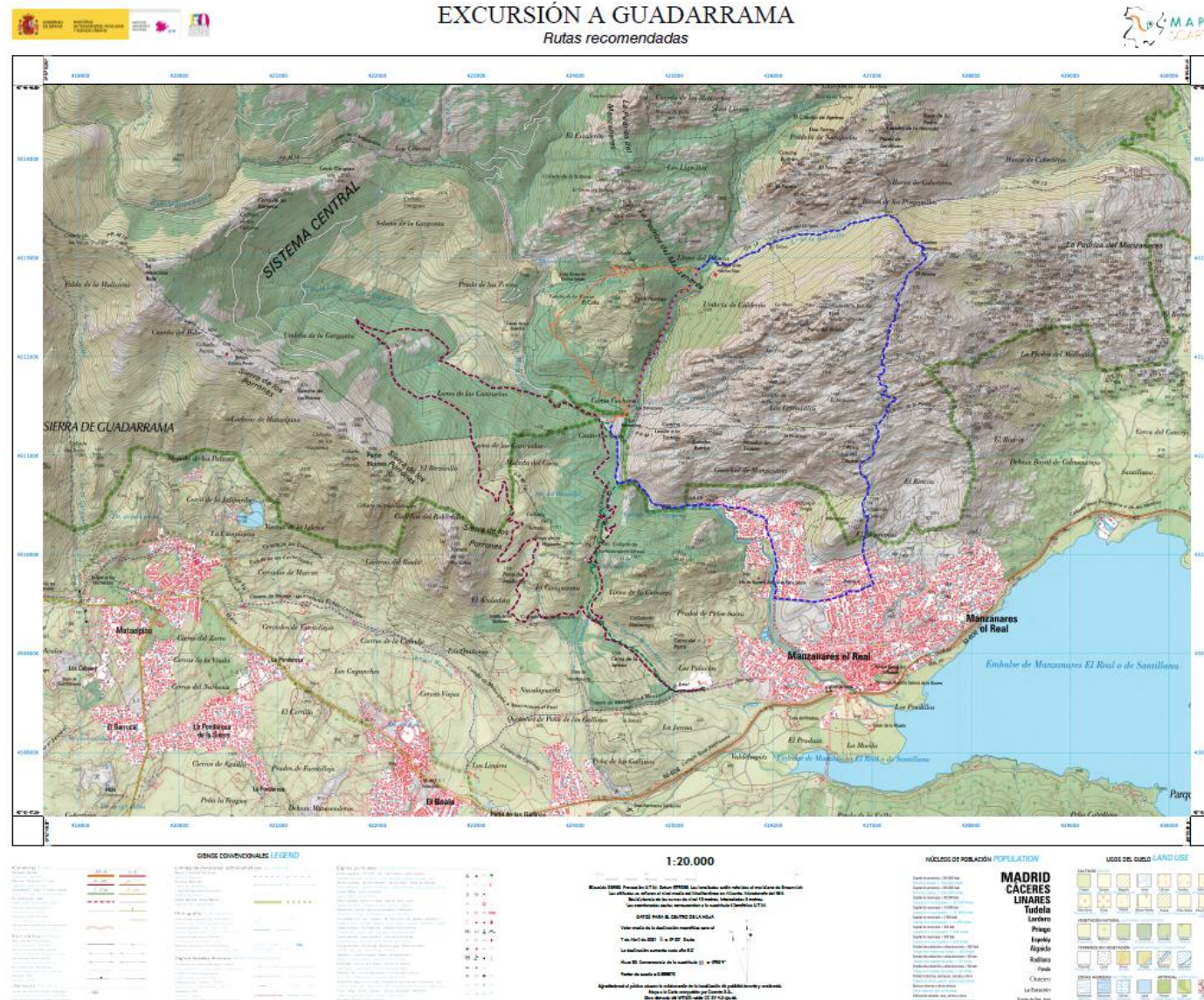
# Characteristics

- Configuration: area of interest, scale, cover, title, import or draw geometries...





## EXCURSIÓN A GUADARRAMA





**MAPA & CARTA**  
Un mapa a tu medida



Configura línea y escala



Leyenda topológica



Añade la propia información



Personaliza portada y título



21047-367049028

Creado con **Mapa a tu Carta**  
CENTRO NACIONAL DE INFORMACIÓN GEOGRÁFICA  
Carretera de los Reyes, 3  
28003 MADRID  
Teléfono +34 91 587 05 16  
<http://www.cnga.es>  
[usuario@mapa.gub.es](mailto:usuario@mapa.gub.es)

**MAPA & CARTA**



Crea tu propio mapa

La base cartográfica es del Mapa Topográfico Nacional realizado por el Instituto Geográfico Nacional (IGN).  
La IGN es responsable de los elementos definidos por el usuario al crear su propio mapa (línea, símbolo, título) de la portada e información geográfica añadida a la base cartográfica.



**MAPA & CARTA**

## Excursión a Guadarrama

### Rutas recomendadas

Carran 6.6.



1:20.000

(1 cm = 200 m)



Ministerio de Medio Ambiente, Cambio Climático y Transición Energética



Ministerio de Transportes, Movilidad y Agenda Urbana



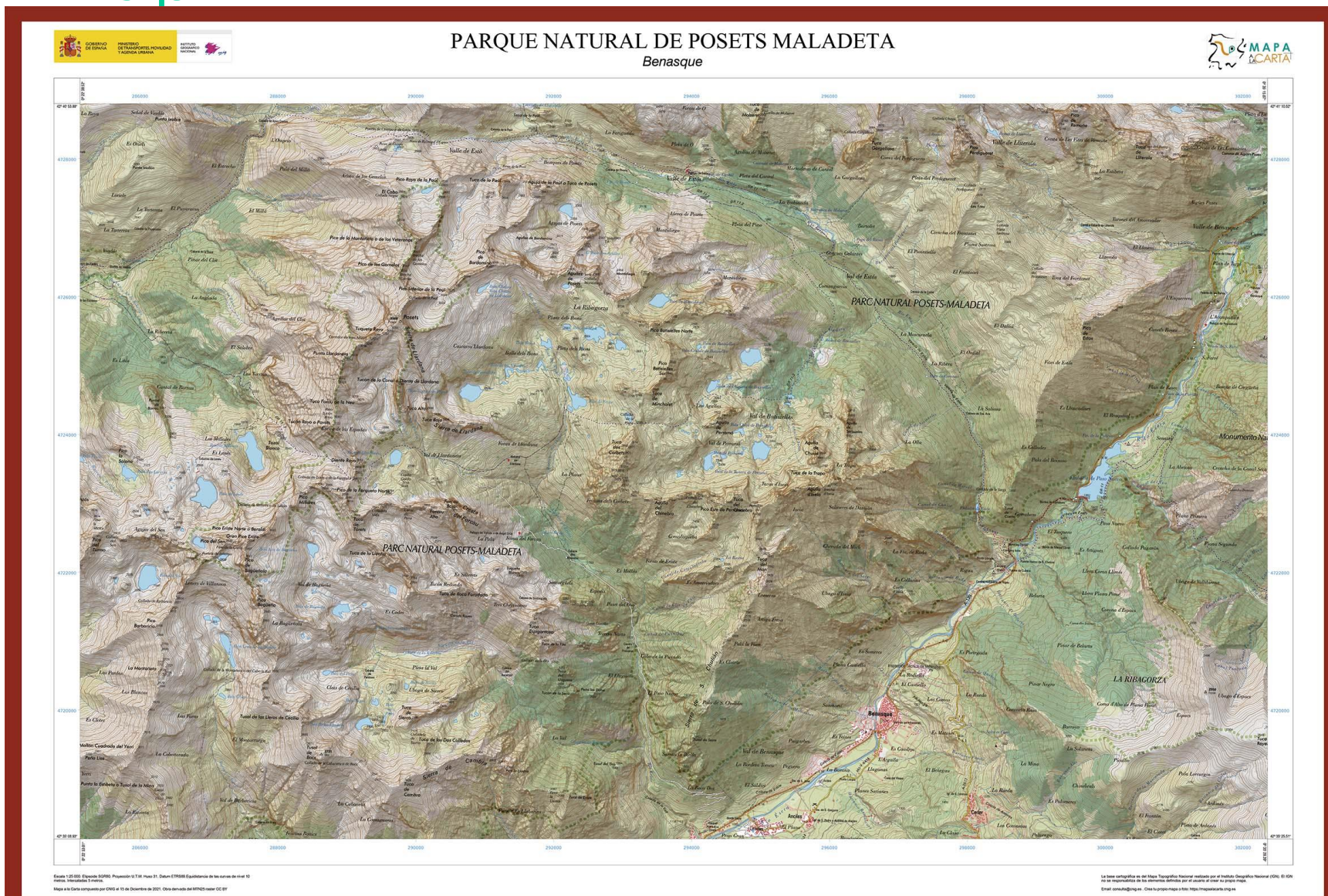
Ministerio de Sanidad, Consumo y Bienestar Social



Ministerio de Asuntos Exteriores, Unión Europea y Cooperación



# Poster Map





## Steps: Map/photo design

- Map/photo configuration:
  - Area of interest
  - Product: 25k or 50k
  - Orientation
  - Grid
  - Grid dimension
  - Import geometries: KML, SHP, GPX o GeoJSON
  - Draw entities
  - Load routes from the catalogue
  - Save Session

The screenshot displays the 'MAPA A LA CARTA' web application interface. At the top, there is a header with logos for the Spanish Government, the Ministry of Transport, Mobility and Urban Agenda, the National Geographic Institute, and Eurogeographics. The main navigation bar includes three steps: 'MAP DESIGN' (Configure the contents that suits you), 'COVER DESIGN' (Customize map information), and 'SUMMARY' (Download and acquire the results). The 'MAP DESIGN' step is currently active, showing a map of San Sebastián, Spain, with a grid overlay. The map includes labels for various locations such as Soto de Viñuelas, Fuente del Fresno, La Granjilla, San Sebastián, los Reyes, Alcobendas, and San Isidro. On the right side, there is a configuration panel with the following settings:
 

- Product:** 1:25.000 (selected) and 1:50.000.
- Scale:** 30K, 25K (selected), and 20K.
- Orientation:** Horizontal (selected) and Vertical.
- Grid:** Grid (selected) and Coordinates.
- Cell dimension:** 1 Km (selected), 2 Km, and 5 Km.

 At the bottom of the interface, there is a 'Help' button and a navigation bar with back and forward arrows.



## Steps: cover desing

- Colour
- Image: from the gallery or user's image
- Tittle
- Subtitle
- Author

The screenshot displays the 'Cover design' step of the MAPA A LA CARTA application. The interface includes a header with logos and a navigation bar with three main steps: MAP DESIGN, COVER DESIGN (active), and SUMMARY. The 'Cover design' section features a preview of a map cover for Madrid, showing a red background, the title 'Madrid', the subtitle 'Customized Map', the author 'Celia Sevilla', and a scale of 1:25,000. Below the preview, there are options to select a background color and enter text for the title, subtitle, and author. An 'Upload image' button is also present. At the bottom, there is a gallery of images categorized by theme: ADVENTURE, CARTOGRAPHY, CITIES, NATURE, LANDSCAPE, and OTHERS. The 'CITIES' category is currently selected, showing various city-related images.

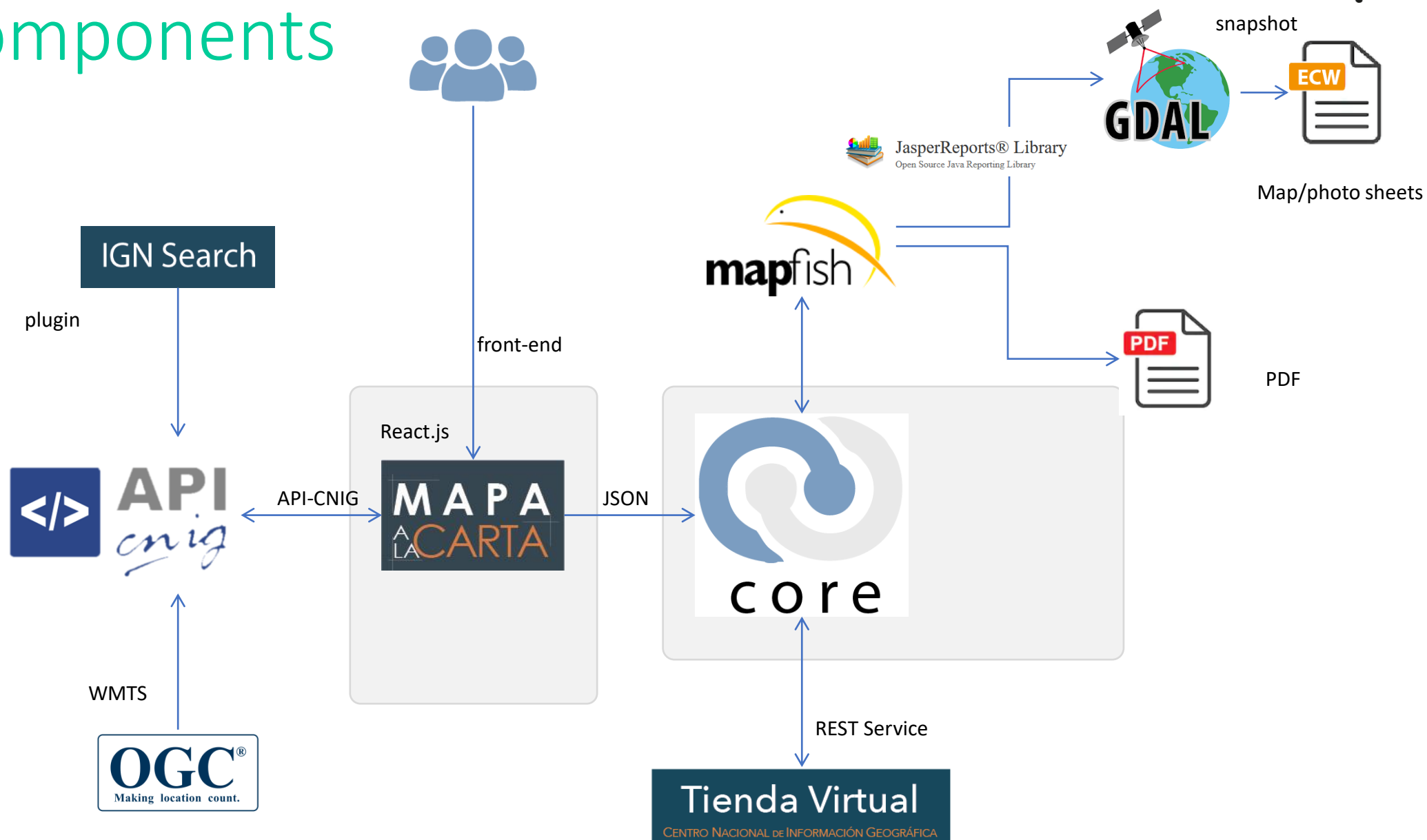
## Steps: cover desing

- Free download of a high quality pdf
- Printed copy:
  - Paper type:
    - Normal
    - Waterproof
    - Rigid
    - Photographic
  - Presentation:
    - Folded
    - Flat
  - Copy number

The screenshot shows the 'Summary' step of the 'MAPA A LA CARTA' website. The interface is in Spanish. At the top, there are logos for the Spanish Government, the Ministry of Transport, and the National Geographic Institute. The main navigation bar includes 'MAP DESIGN' (Configure the contents that suits you), 'COVER DESIGN' (Customize map information), and 'SUMMARY' (Download and acquire the results). The 'Summary' section is active, showing a preview of the map cover and the map area. The cover preview shows a map of Madrid with a red header and a photo of a building. The map area shows a detailed map of San Sebastián. On the right, there are options to 'Generate PDF' (Download map in PDF format at maximum resolution. This process may take a few minutes.) and 'Acquire print copy' (Receive, by post, a duplicate of the map that has been generated.). Below these, there are options for 'Paper type' (Normal, Waterproof) and 'Presentation' (Folded, Flat). At the bottom, there is a price of 5.37€ and a 'BUY' button. A QR code is visible in the bottom right corner of the page.



## Components



# Printing service

- 7 Map shops have a help desk and printing service (without delivery costs)



# New version next year

- More point and linear symbols.
- Enable the user to import his symbology (SVG, PNG).
- Option to display/hide the legend on the poster map.
- Configure your own legend.
- Enable to design cartographic series.
- Access to the application with the code of the map designed in a previous session.



# Conclusions

- Very competitive price:

Paper	VAT INCLUDED
	Delivery cost not included, from 3€
Normal	6,50 €
Waterproof	9,00 €
Rigid	16,50 €
Photo paper	7,50 €

- Statistics: 3000 unique visits/month. 110 maps/month
- Many uses: touristic, promotional, associations, civil works, projects, etc
- Customised and exclusive product at high quality

<https://mapaalacarta.cnig.es>



# Thanks questions?

[celia.sevilla@cnig.es](mailto:celia.sevilla@cnig.es)

[consulta@cnig.es](mailto:consulta@cnig.es)