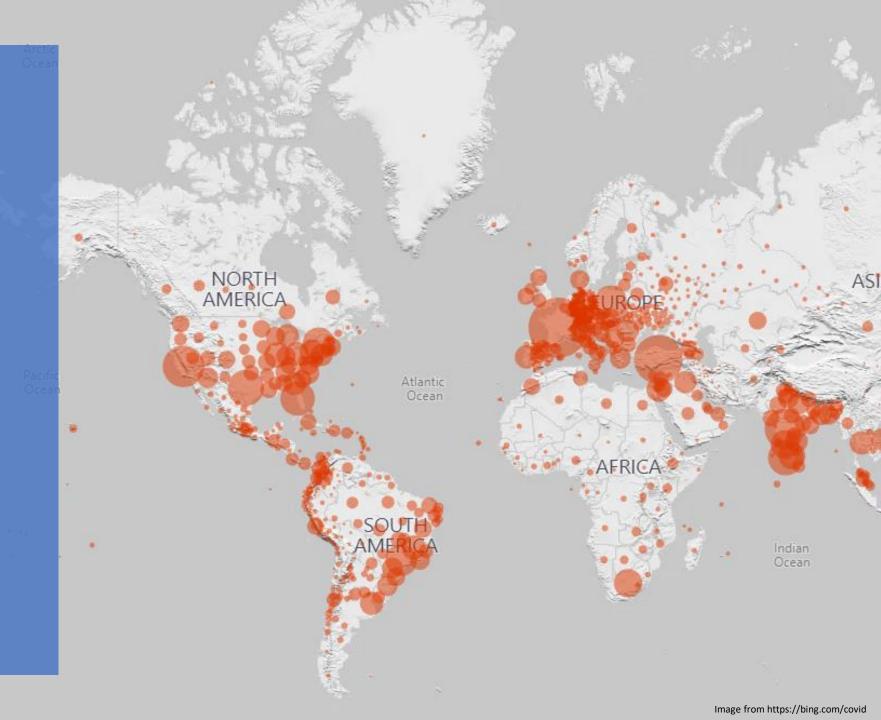


## **Big Data for a better future** Telcos Role in the COVID-19 Pandemic

Elena Gil Lizasoain Global Director – Product & Business Operation – Telefónica Tech

28.02.2022

The COVID-19 pandemic is the first event in decades that produces firstorder negative impacts in public health and economies at global scale





National and local governments started to implement policies of social distancing and lockdown and needed datadriven insights to evaluate and measure the impact of the decisions implemented

**Telefonica has** supported those decision-making processes by providing highfrequency and lowlatency mobility insights for governments along our footprint



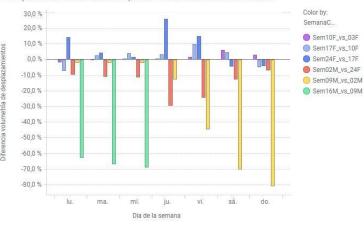


## 

We built a tool to monitor national mobility in real time allowing us to analyze, study and compare several parameters between territories



Comparativa semanal de desplazamientos salientes de Madrid



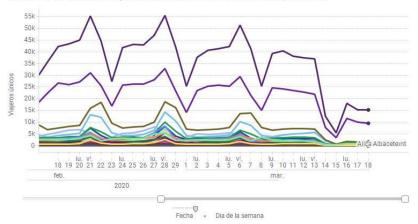
#### Promedio de viajeros salientes de Madrid

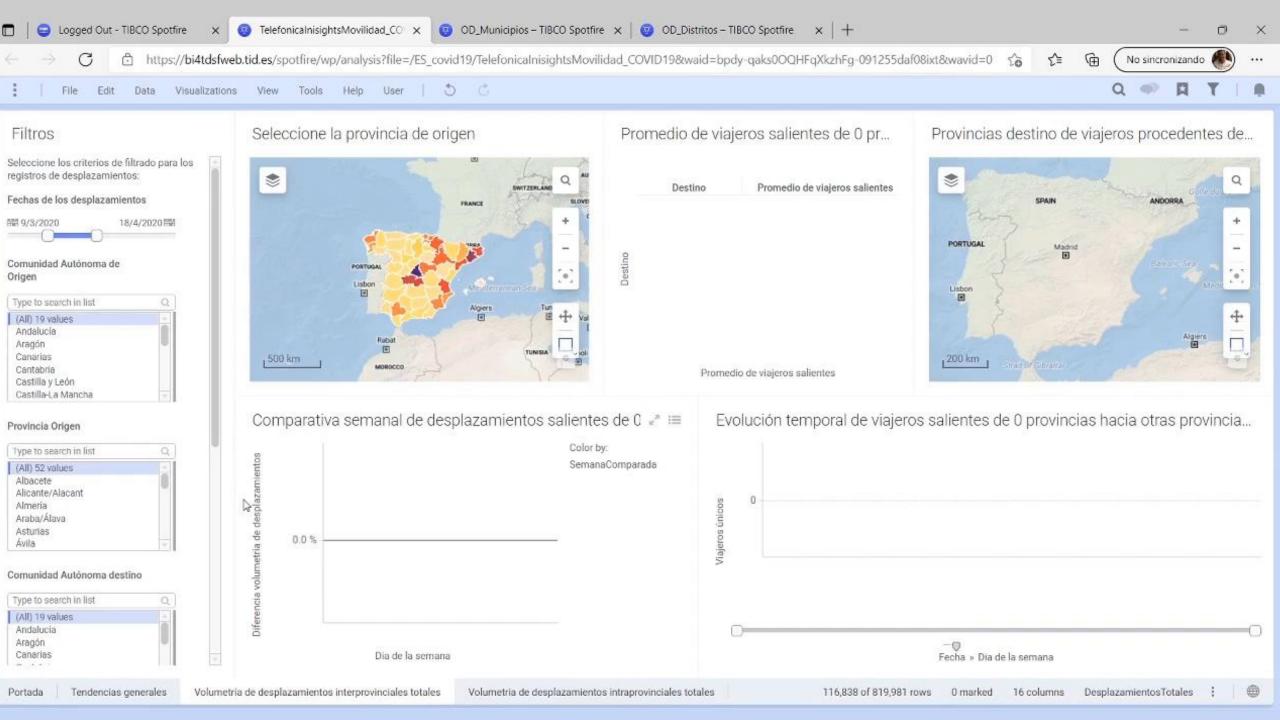
Destino	Promedio de viajeros salientes
Toledo	37941,32
Guadalajara	22885,40
Segovia	9057,94
Ávila	5728,81
Barcelona	4166,23
Cuenca	3958,89
Ciudad Real	3402,11
Valencia/Val	2885,81
Zaragoza	2654,19
Valladolid	2601,34
Cáceres	2348,21
Burgos	2324,89
Salamanca	1898,19
Alicante/Ala	1826,57
Sevilla	1688,36
Málaga	1600,87
Badajoz	1300.38

Provincias destino de viajeros procedentes de Madrid



Evolución temporal de viajeros salientes de Madrid hacia otras provincias

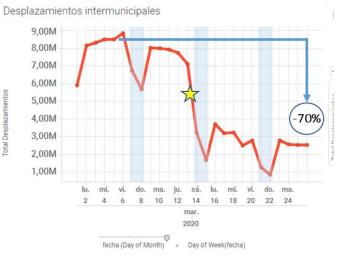


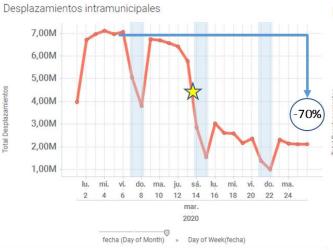


We used **aggregated and anonymized data** to analyze the evolution of mobility prior and after the first lockdown in Spain

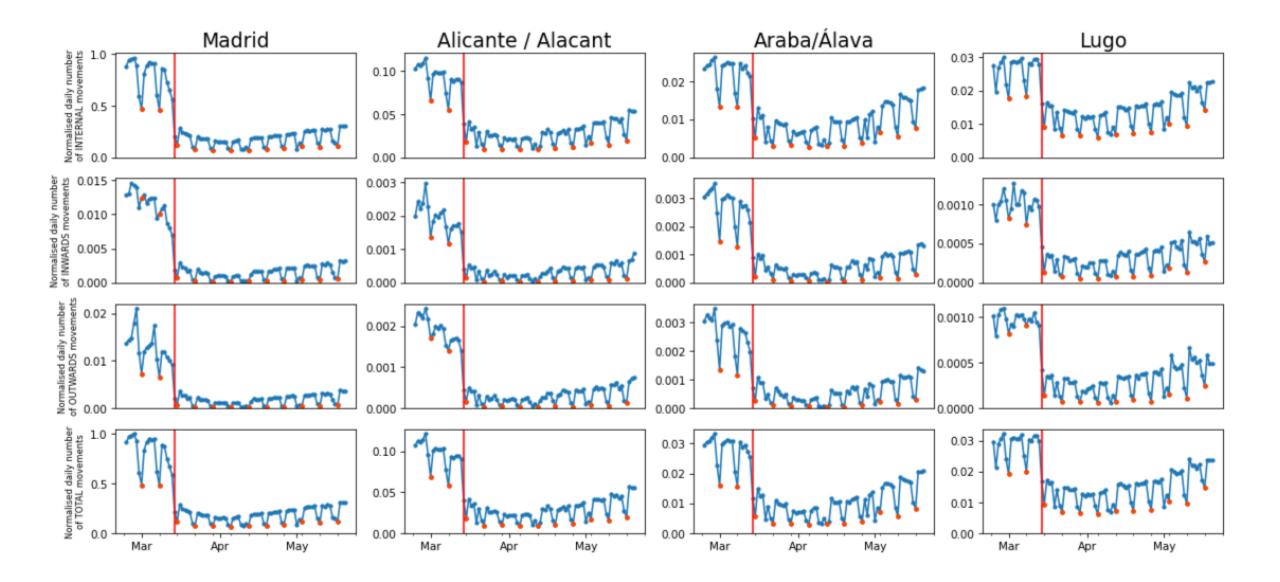




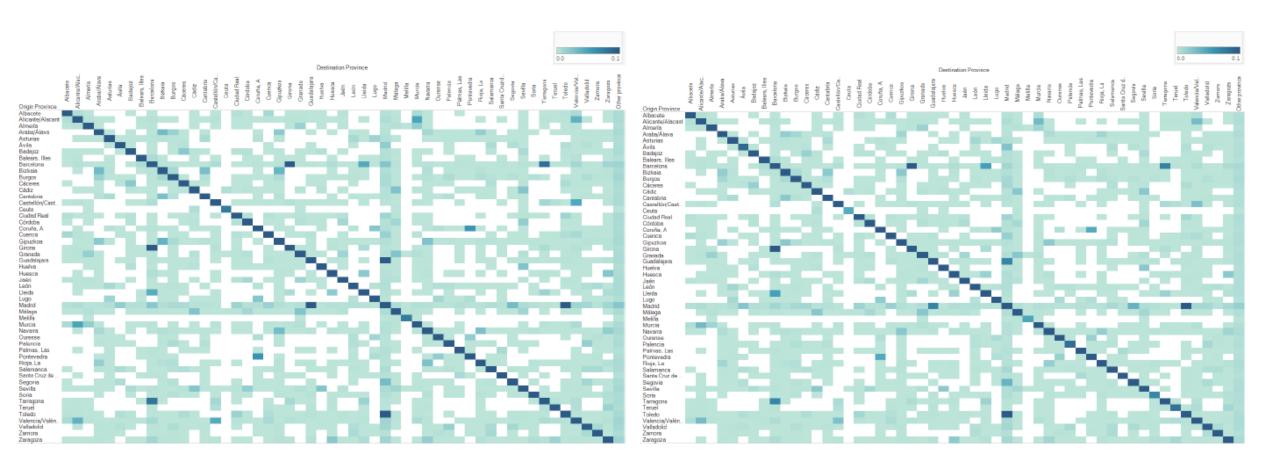




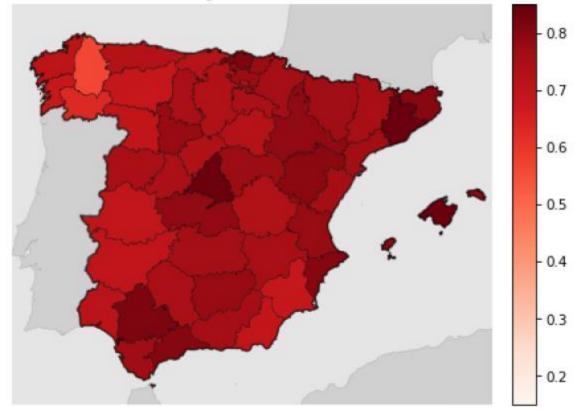
#### We normalised mobility indicators at NUTS3 level so that data can be comparable between territories



#### We developed connectivity matrices to understand movements between different territories

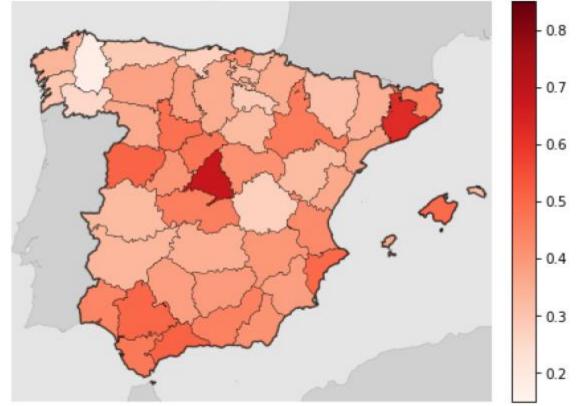


#### We mapped the reduction of mobility by territories and time periods



Reduction in mobility between 2020-02-26 and 2020-04-01





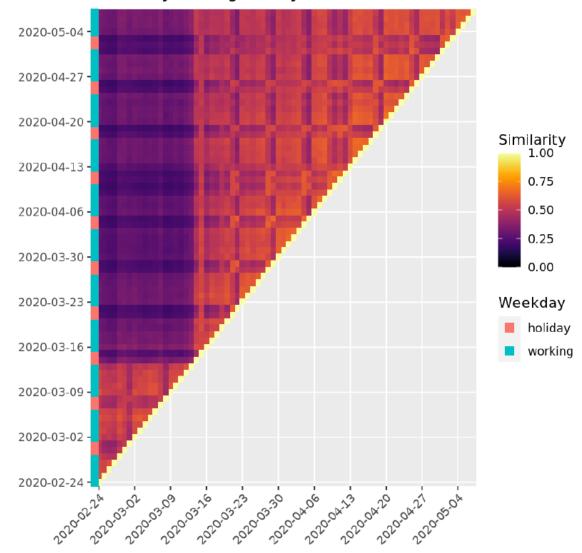
We were able to estimate socio-economic costs & evidence by **Mobility Functional Areas and analyze the** average weekly spending with credit card





We studied the similarity between Mobility Functional áreas determining that there was no major differences before and after lockdown.

#### Similarity among all days



## We relate the success of this project to several shared factors

Privacy by Design Commitment of Telefonica with the society Digitization of Telco networks

## But there is more to be done in the future

### Unchain the full potential of Telco Data

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Foster Public – Private Collaboration

Design fair and sustainable business models

# Many thanks for your attendance

