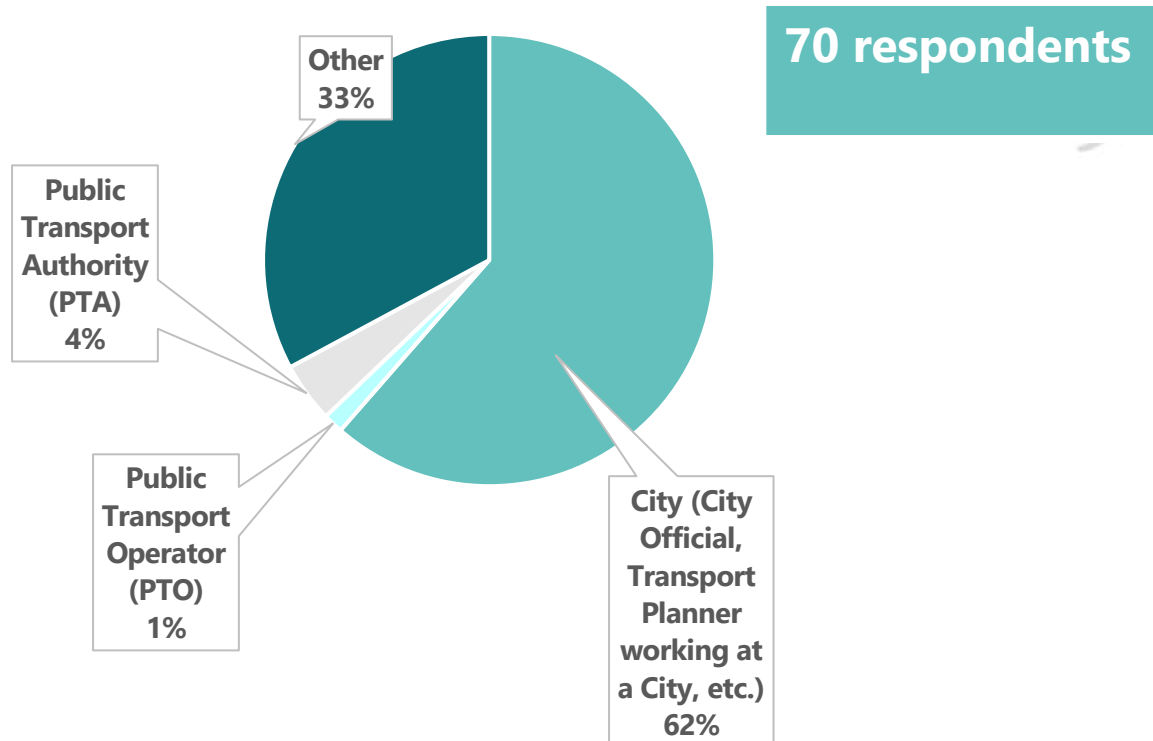


SURVEY 2020

How satellite navigation is
empowering Public Transport &
Urban Mobility solutions?

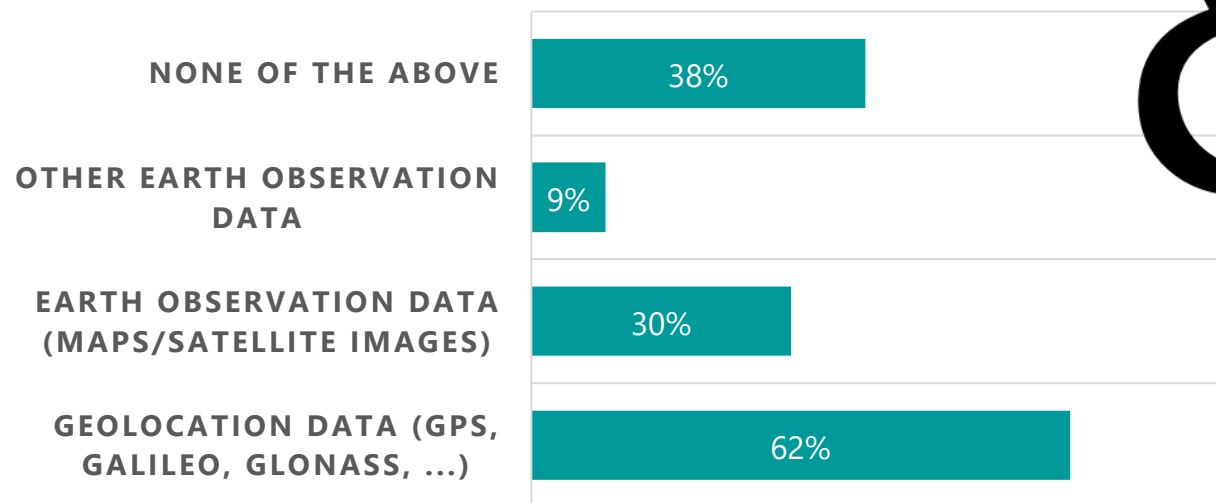
Key Outcomes

Who completed our survey?



Wide geographical spread: respondents coming from Argentina, Finland, Denmark, Brazil, Spain, Estonia, Belgium, Portugal, among others

Geolocation data is the most used Space Data used when planning/operating mobility services...



...it is used for a wide range of purposes, including

- To plan (book), to track, to regulate the supply of vehicles
- Check vehicle paths and location; driver identification;
- Geolocation of geolocation of the municipal fleet and survey

Which Space Data are you using to PLAN or OPERATE your mobility service(s)?

How do you use Geolocation Data to PLAN or OPERATE your mobility services?

Cities use Earth Observation Data (Copernicus, or other) in various ways to plan & operate services

We use Google Earth to show speed between sections between bus stops, fuel consumption, idle times, traffic jams, technical signals and FMS of the buses, heat maps, ticket data and ticketing ... We take into account meteorological and atmospheric pollution information for our management

EMT de Valencia

To determine the best itineraries for any relations

Zaragoza (Spain)

view streets, localizations, to understand needs in equipment, acessibilities, etc...

Montijo (Portugal)

Observation, diagnosis and prediction of impacts of extreme weather events; Perception of climate change; Observation and action in emergency situations (natural and technological accidents).

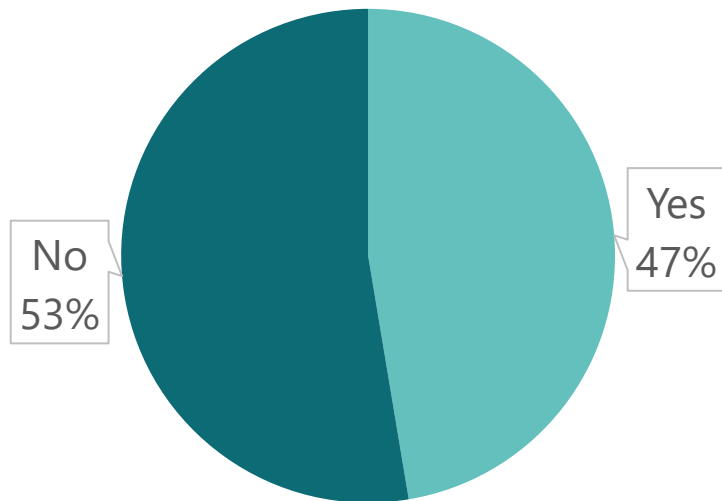
Municipality of Porto

Creation of strategic and operational maps for planning, management and monitoring of the territory, allocation of infrastructure and public services, support for carrying out activities (eg environmental education), among others.

Municipality of Palmela (Portugal)

Room for improvement: promoting recognition & use of GALILEO

A slight majority of
respondents has not heard of
GALILEO



Do you know where
GALILEO stands for?



6% of respondents use it
for their fleet:

Who uses GALILEO?

- Rhr (Bogotà)
- City of Rakvere
- Braga
- Porto

Various reasons for not using GALILEO...

“

Onboard fleet management system does not have a Galileo GNSS chip

Ongoing contract with other provider

Equipment is not available as standard (mostly GPS) and it is a cost difference

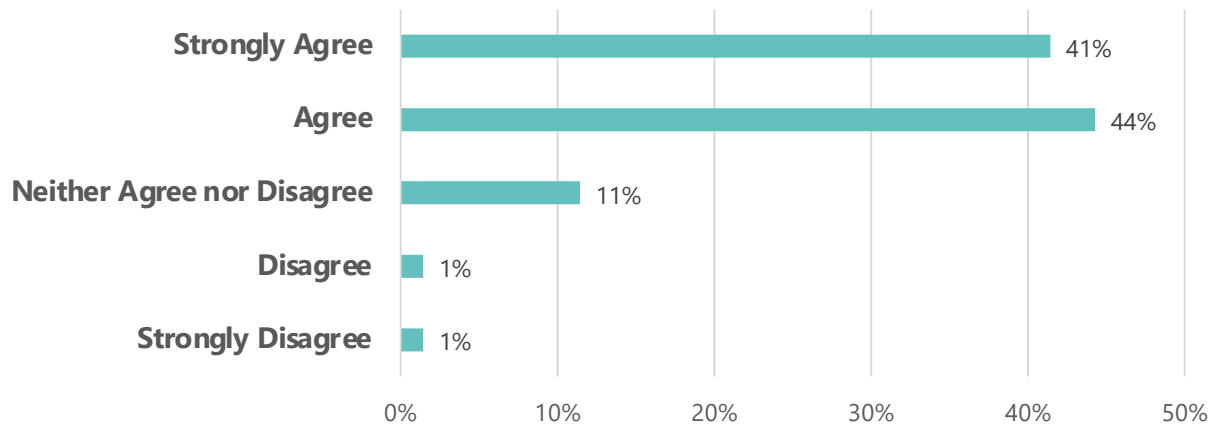
Signal availability and reliability

I haven't heard of GALILEO

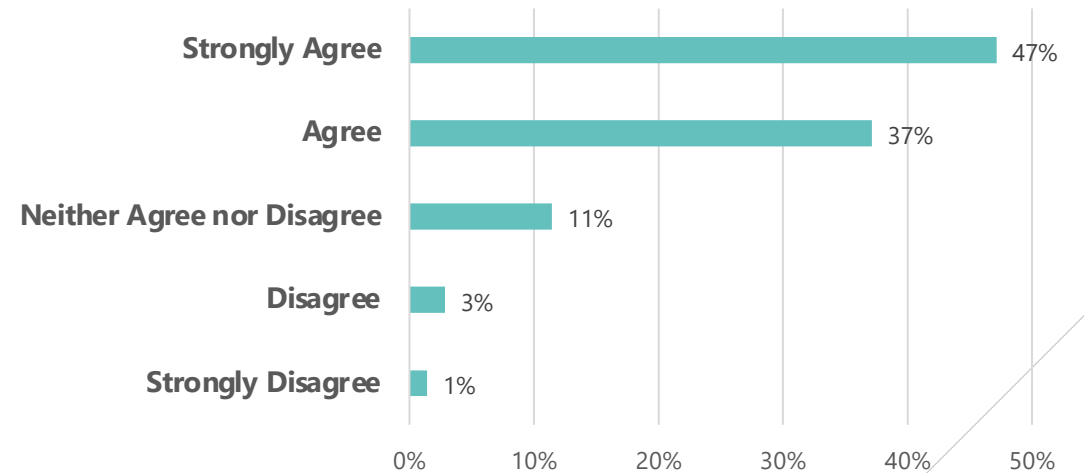
The available software must be modified to taken into account different geolocation signals

”

Strong beliefs that Geolocation Data will help improve existing mobility services & enable new mobility services during the COVID-19 crisis & recovery phase

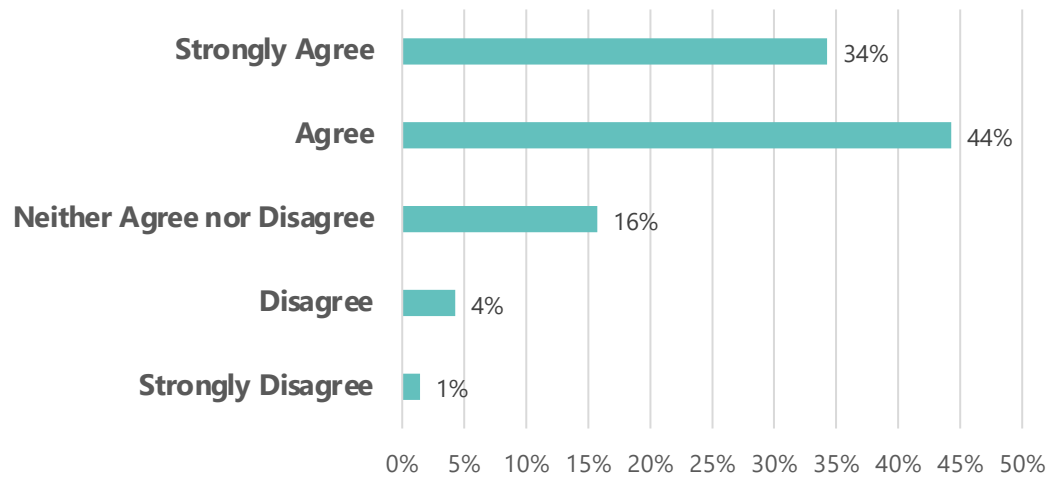


Geolocation Data will help improve EXISTING mobility services

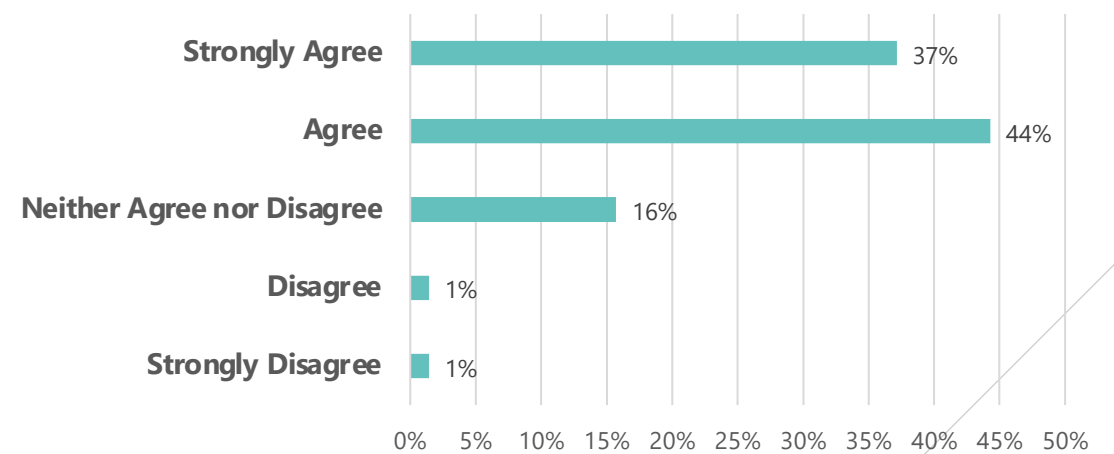


Geolocation Data will enable NEW mobility services and solutions

Strong beliefs that Earth Observation Data will help improve existing mobility services & enable new mobility services during the COVID-19 crisis & recovery phase

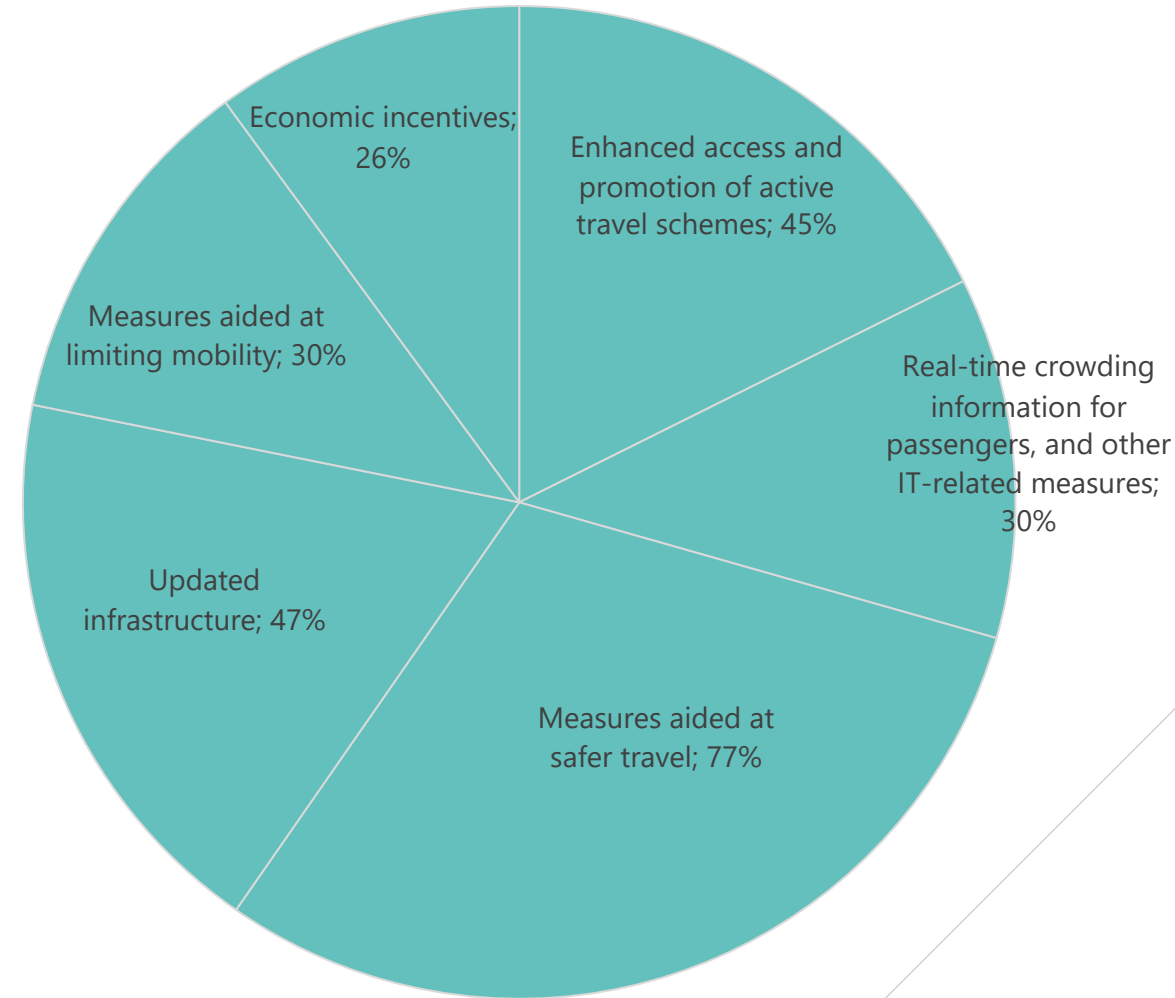


Earth Observation data will help improve EXISTING mobility services

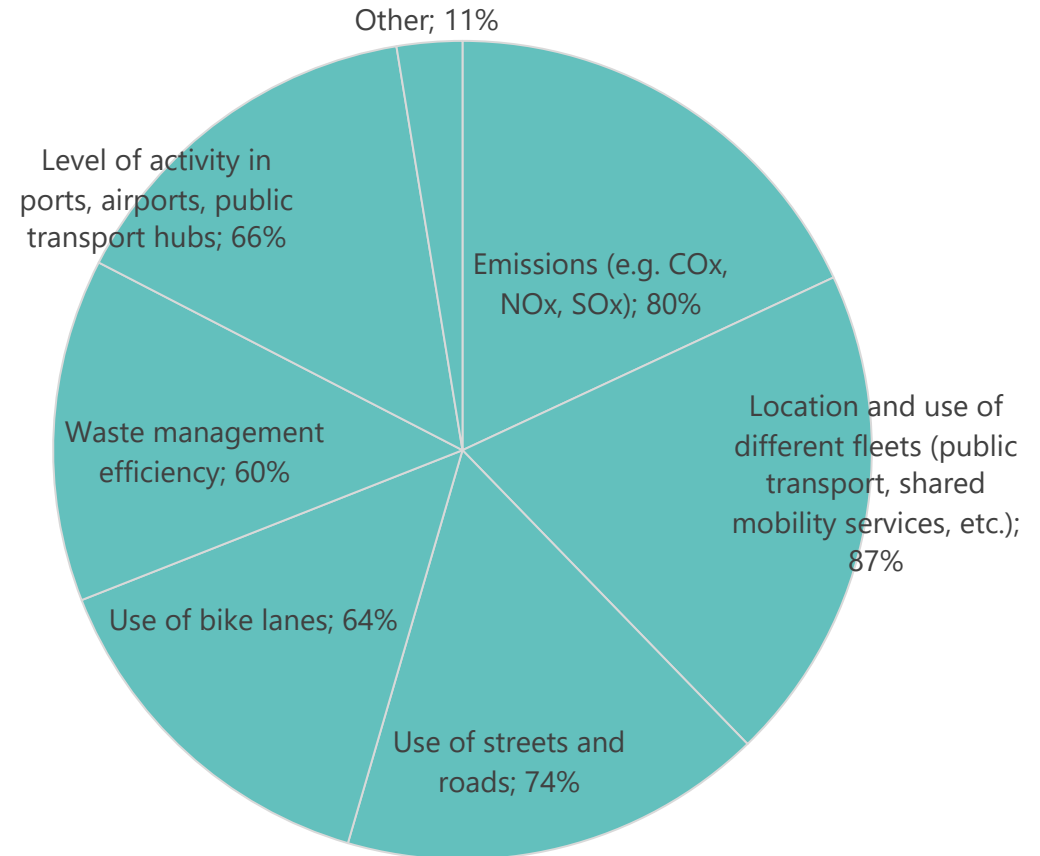


Earth Observation data will enable NEW mobility services and solutions

53% of respondents indicates to have plans to modernise or upgrade their transport solutions to be more efficient/sustainable as part of a post-COVID-19 recovery plan



No less than **91%**
agrees:
**Space Data is
needed or
useful, for
implementing a
strategy for more
sustainable
cities and
transportation**



Which indicators do you think can be monitored with Space Data as a support tool to a "go green" strategy for Cities? (multiple choice)

Different kinds of support needed from ARIADNA & the GSA in order to "go green"



**Strategic
Advisory
services
(36%)**



**Technical
Advisory
services
(34%)**



**Commercial
Advisory
services
(11%)**



**Competitive
Advisory
services
(9%)**



**All of the
above
(51%)**