IGN Copernicus Relay and National Land Reference Centre activities for Dissemination of InSAR techniques among potential GEP users in Spain

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### Objectives



#### Description

- Time series InSAR require demanding resources. GEP offers its own to provide results within some hours without amost any effort from user side.
- Visualization tools are quick and easy to do a first analysis of results.
- Successful cases in GEP help to understand how InSAR methodologies can help in may application areas

## Results

- Snapping processing La Palma eruption (Spain)
  - Track 169 2018 2021 (S1A)
  - Track 60 2018 2022 (S1A)
- Good point density, velocities and deformation time series similar to GNSS permanente stations and to PSBAS results, PS over lava flows.

# Results



Velocities cm/year (Track 169)

Velocities cm/year (Track 60)

### Benefits to Society

 InSAR techniques are not commonly used in Spain but they are extremely useful to detect deformations for example in infraestructures (roads, railways...). Many participats in the course belong to infraestructure maintenance and planning. Main aim of the course was to show the potential of InSAR techniques for their case studies by using GEP plataform which makes this objective easier through its functionalities.