

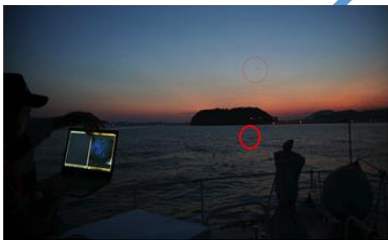
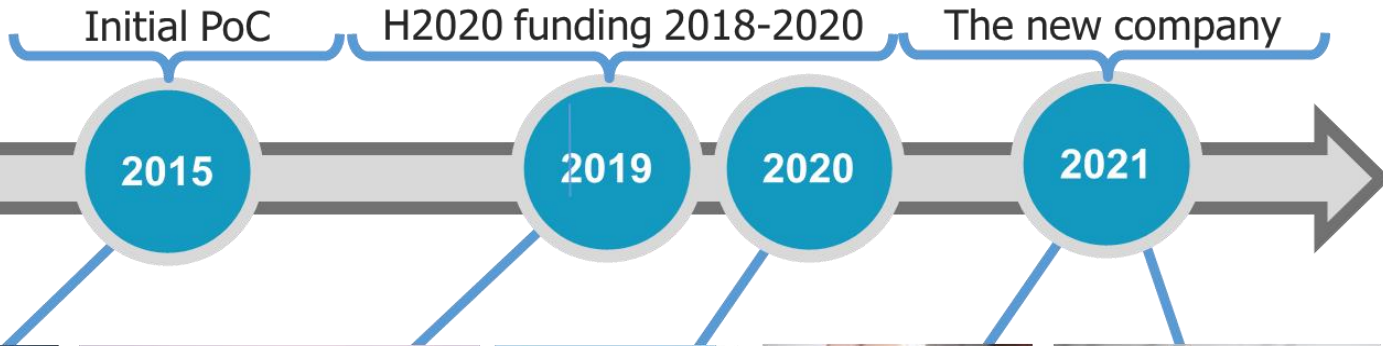
The SARA Project s.r.l. (TSP)

<https://www.youtube.com/watch?v=hJwbnTZG3Z8>



Company profile

The Sara Project s.r.l. aims to perform development, production and marketing of **integrated turn-key systems** for public and private users operating in the **environmental observation, video surveillance and Search&Rescue**. The platforms, mainly produced in the cloud and carried out according to the operational needs and process of customers, are focused on the integration of innovative sensors (air, terrestrial and submarine drones) and on the development of algorithms based on satellite navigation technologies (**GNSS**), Satellite Observation of the Earth (**EO**), Computer Vision (**CV**) and artificial intelligence (**AI**).



1st concept demo
With Italy coast Guard,
July 2015



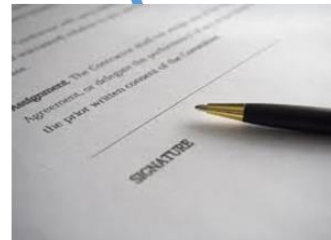
Solution Validation
Szczecin and Baltic sea,
September 2019



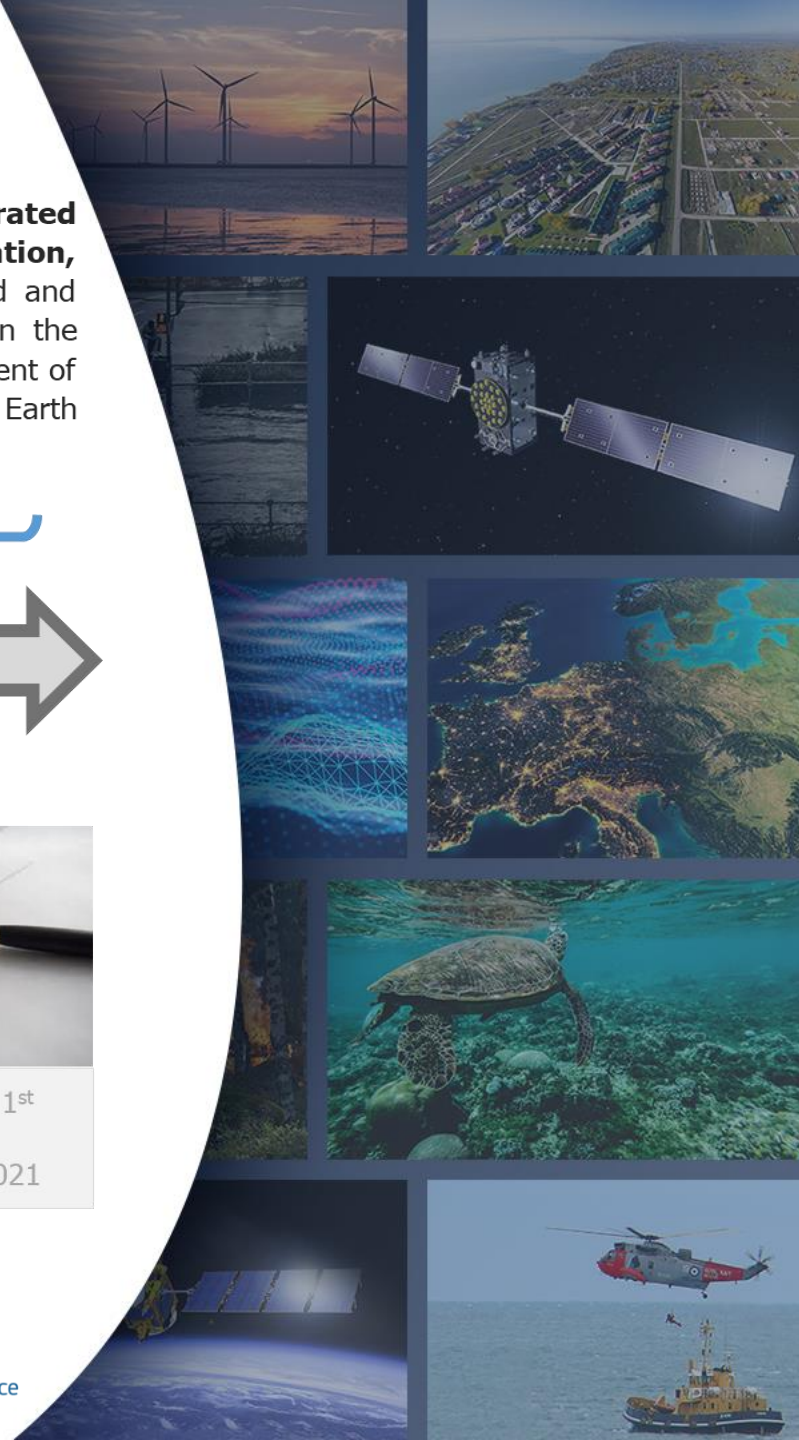
Channel w.22
stakeholders,
January 2020



TSP company
establishment
June 2021



Signature of 1st
contracts
September 2021



Technologies and Services



OPERATIONAL ALTITUDE

up to

100m

depending on regulation constrains

PAYLOAD

DJI ZENMUSE Z30 Optical payload with (Day operations)

30

X optical

6

X digital Zoom

ENDURANCE

ENDURANCE (TETHERED) up to

8

hours of persistent operations

WEATHER CONDITIONS

MAX WIND RESISTENCE

10

m/s (14 m/s wind gust)

MAX WIND GUST

4

m/s (14 m/s wind gust)

MAX WIND DESCEND (TETHERED)

2

m/s (2 m/s tethered)



Distant monitoring



DAY OPERATION (optical camera)

Survivor swimming (Critical dimension: 0,5m), Optics: 13mm, Maximum Detection Range:

700

m

Small Vessel at the horizon (Critical dimension: 28,7m), Optics: 13mm, Max Range:

8

Nautical Miles

NIGHT OPERATION (thermal camera)

Survivor swimming (0,5m): Optics: 13mm, Range Max:

300

m

Small Vessel at the horizon (Critical dimension: 28,7m), Optics: 13mm, Max Range:

5

Nautical Miles





to support logistic activities in Antarctica and Arctic

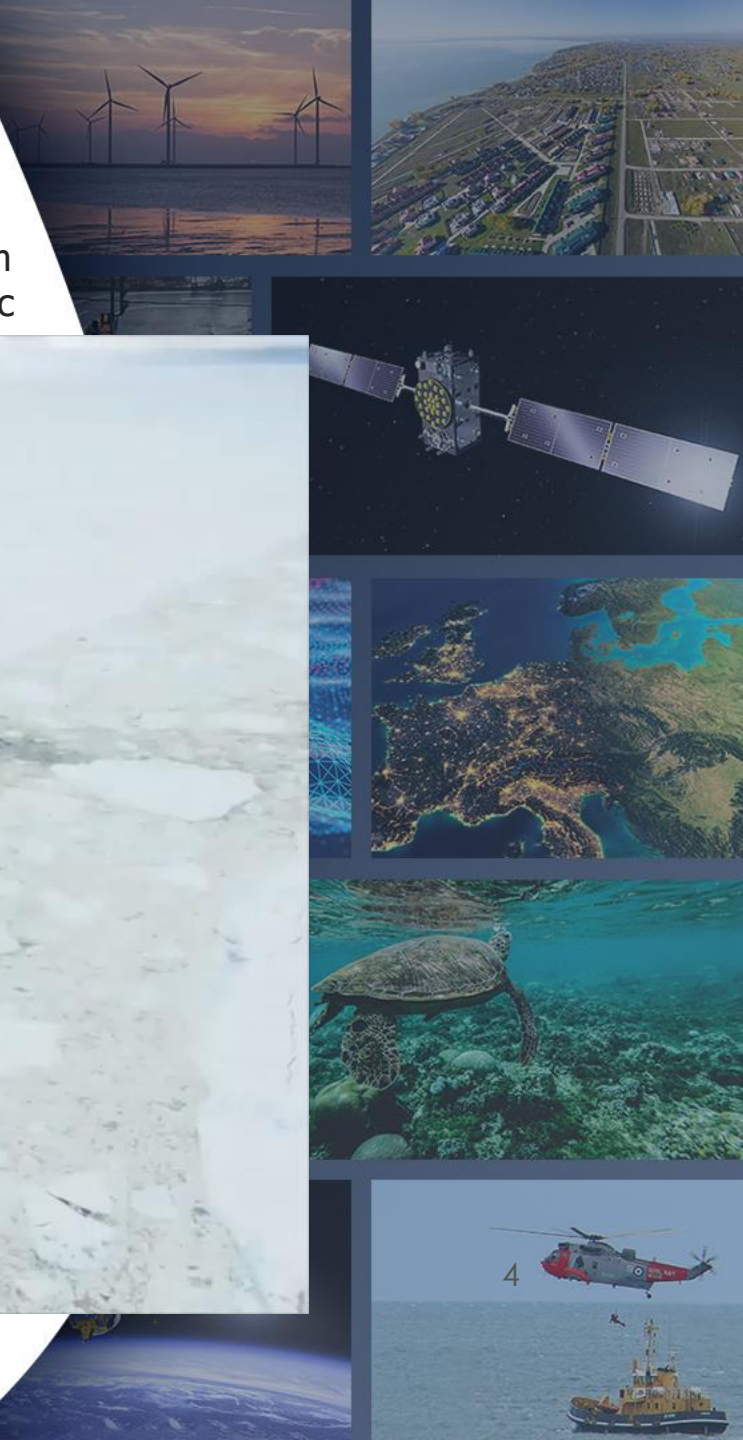
OGS R/V **Laura Bassi** - an icebreaker research vessel – OGS supports the Italian National Antarctic Program (PNRA) together with CNR (National Research Council) research and logistic activities in Antarctica and Arctic

TSP solution based on a tethered drone will improve the range dramatically (horizon distance) allowing to cover a wider area.

Useful products:

- Optical images (geocoded)
- Possible radar installation onboard

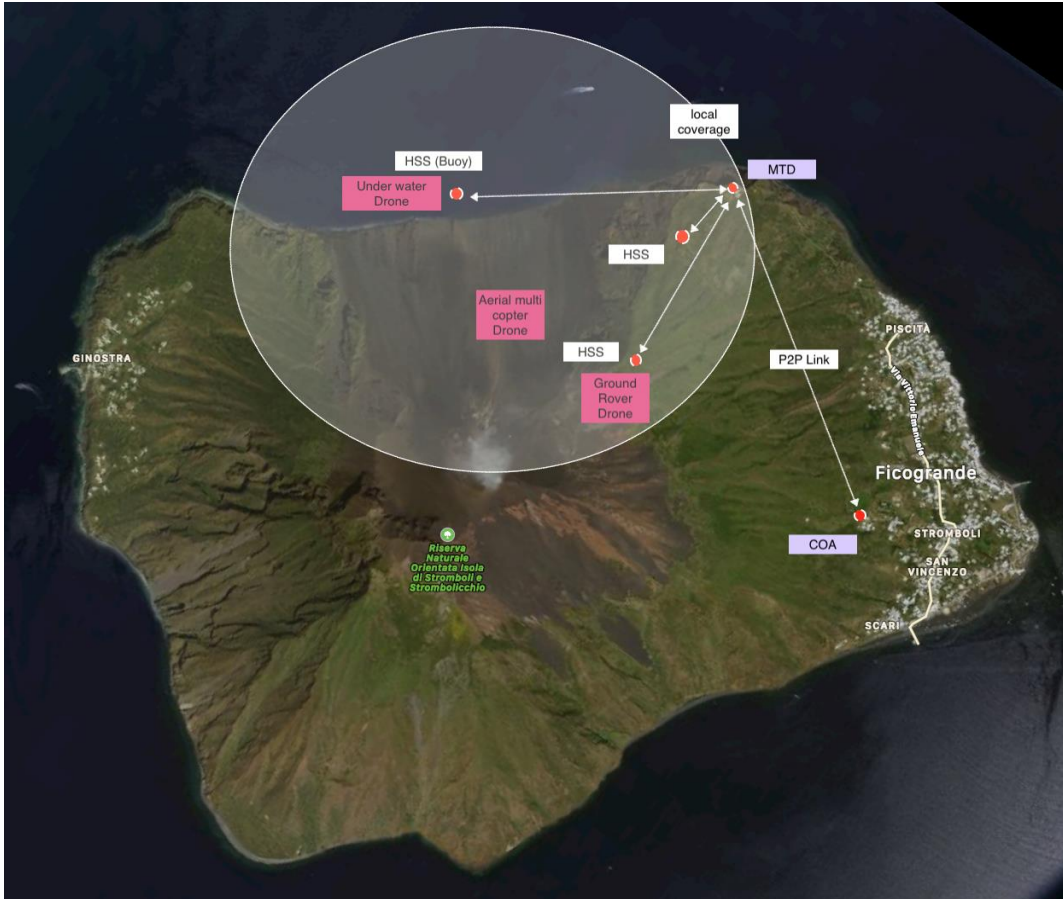
The system will also be used for monitoring upload/unload ship operations





to support Stromboli multi-hazard scenario monitoring (National emergency plan defined by Civil Protection Department 2015)

Nowcasting-Forecasting | Early warning | Characterisation of phenomena | Hazard assessment | **Context awareness | Process workflow**



SATELLITE MONITORING

- Pléiades-1 images and Digital Surface Models
- Sentinel-2 MSI images
- MODIS and SEVIRI infrared data
- Sentinel-1 DInSAR e SBAS

GROUND-BASED MONITORING

- Visible and infrared livecams
- Seismic stations
- Ground-Based InSARs
- Acoustic sensors
- Dilatometers, strainmeters, tiltmeters
- GNSS network
- Wave buoys
- UV sensors for volcanic gas
- **Fleet of air and underwater drones**



Additional investments to do what?!

Regional Market → European Market → worldwide Market



- to protect IPR world wide
- to scale up on European/worldwide scale
- to hire a Product Manager
- to strongly enforce the SW development team (App development upgrade)
- to build up a network of TSP sales representatives (target EU 28)
- to create a customer care office
- to develop an affiliation network of certified pilots (service model)
- to upgrade a small fleet of drones



Thank you for your attention!



Marco Nisi
CEO

marco.nisi@thesaraproject.eu

Mob. +39 339 7497723

The SARA Project s.r.l.

Via Montevideo, 18 - 00198 – Rome (RM), Italy

P.IVA C.F. n. 16221861004

Web Site: www.thesaraproject.eu | e-mail: info@thesaraproject.eu | pec: thesaraproject@pec.it

