







WP 4 IRPINIA NEAR-FAULT OBSERVATORY

Gaetano Festa, Gilberto Saccorotti

Nicola Piana Agostinetti, Aldo Zollo, Luca Elia, Raffaello Pegna, Claudio Strumia, Francesco Scotto di Uccio & RisscLab Unina.













Participants





INGV-Pisa

FIBIR-LONG

Sensing longfiber cables with DAS systems collaboration with UNIMIB, UNINA



J017

INFARRAYS

Installation of arrays within ISNet collaboration with INGV











List of Deliverables

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Title	Bimester	Deliverables		
IO4.1	4	D4.1 Definition and completion of the hiring procedures D4.2 Purchase of the central station acquisition systems		
IO4.2	8	D4.3 Purchase of the servers for network control center of the Irpinia seismic Network D4.4 Purchase of the storage system for optical fiber data distribution D4.5 Purchase of the DAS systems		
IO4.3	12	D4.6 (B12) Purchase of the Array – Nodes instrumentation		
IO4.4	15	D4.7 Finalisation of the civil infrastructures for the WP D4.8 Instrument installation and data distribution D4.9 Completion of all the expenses referred to the indirect costs		









Cost breakdown

Cost description	Region		Cost (euro)
Personnel (2 Technologists, 1 Technician)	OS		326.760
DAS and storage systems	S		594.994
Hosting cases for fiber	S		12.826
10 central stations and 54 nodes for 6 arrays – servers	S		600.000
Site installation - hosting cases for arrays	S		241.122
General costs		OS	124.298











Personnel (4.1)

Hiring procedures completed by June 2023



Technologist

Luca Elia Start: July

2023

Working on management of the arrays, and related data



Technologist

Raffaello Pegna Start: September 2023

Development of workflows for earthquake analysis recorded by DAS



Technician

Not filled











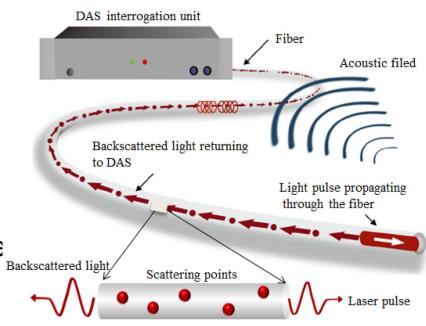
DAS Purchase (4.1)

Task 4.1 involved the purchase of **4 Distributed Acoustic Sensing (DAS)** interrogators for the measurement of dynamic deformation over a wide range of distances (1-100 km)

Total amount: **€480,700.00** + VAT

The **purchase tender is completed**, and the contract is under assignment. Instruments are supposed to be delivered within the next 2 months.

Part of the storage system is included within this current purchase. Additional disk space will be acquired separately.











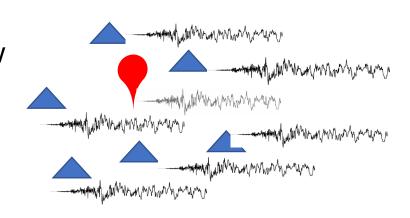


INFARRAYS (4.2)

Task 4.2 involved the purchase of **Central stations** for the Arrays, **servers** to manage the new data acquisition, **array instruments** for nodes, and **civil infrastructure** to host the new arrays.

Total amount: €491,803 + VAT – instruments

€197,641 + VAT – civil infrastructures













Central station (4.2)

First tender on MEPA was deserted

Contacted an abroad enterprise

Direct negotiation **concluded** (Oct 2023) – Order sent Instruments will be delivered by **February 2024**

Servers (4.2)

Direct negotiation started, expected to be **concluded** by Dec 2023















Nodes and Civil Infrastructure

Delayed to 2024

- Acquisitions have to be done in sequence, since functionality and capability of the arrays will depend on the components
- First tender deserted
- Change in the Italian public contract code











Meetings

2 Meetings (Milan and Florence) for Task 4.1. Design, organization of the data, data acquisition and processing.

1 Meeting (Naples) for Task 4.2. Design of the infrastructure and scientific goals.

