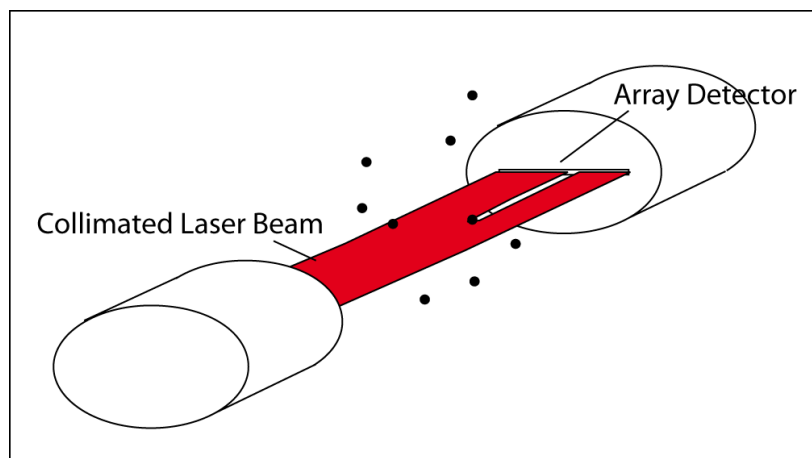
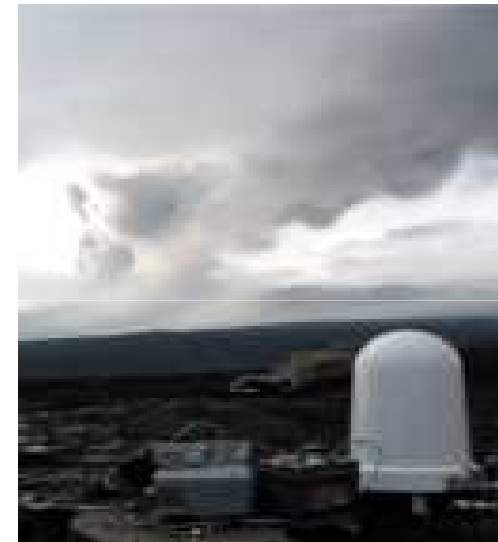


SMe (micro) enterprise based in Florence, Italy, working in geophysics and instrument design and development with robust background in applied optics

Currently modifying Pludix Doppler Radar, tested during the 2010 Eyja eruption, for Italian Civil Protection

FUTUREVOLC: we will work on development of automated sensors for tephra fallout and grain size measurements. 10 instruments should be delivered during the project.



Target:

Ash particles resolution $\sim 50 \mu\text{m}$. Real-time processing of the grain size and final velocity of ash. Low power requirements. As cheap as possible.

Person Months	36
Personnel Costs	143.344,00
Travel Costs	20.000,00
Indirect Costs	98.000,40
Total Eligible Costs	261.334,40
Total Requested Costs	196.000,40

MS65 (month 18): Prototype of the Tephra fall-out detector completed, measuring apparent grainsize and terminal velocity.

MS75 (month 30): A network of 10 tephra fallout detectors deployed in the field.

D7.3 (month 14): Report on the calibration of the tephra fallout detector, report on real time source location of infrasound and report on improved image cross-correlation method for camera data to determine eruption source parameters in real time.

D7.5 (month 36): Grain-size distribution analysis from the tephra fallout instrument system in real-time.