In March 2013, the NEMO-Phase 2 Tower, a prototype of the KM3Net-It Towers, has been successfully installed in the Capo Passero site, at a depth of 3500 m and 80 km off from the southern coast of Sicily. The unfurled tower is 450 m high, it is composed of 8 mechanical floors, for a total amount of 32 PMTs and various instruments for environmental measurements. The tower positioning is achieved by an acoustic system. The tower acquires and transmits all the measured signals to shore, to the INFN Laboratory in Portugal, Sicily. Data reduction is completely performed in the on-shore laboratory by a dedicated computing facility connected to a persistent storage system at INFN-LNS, in Catania. The analysis of data collected during 12 months shows that the PMT single rates are stable and compatible with what is expected by the Chernov light due to particles from radioactive "n" decay, with a small percentage of light bursts due to bioluminescence. These features confirm the optimal nature of the Capo Passero abyssal site. KM3Net-It has hosted the KM3Net-1 Phase-1 detector (8 Towers + 24 KM3Net-1 string) and its possible future extensions.

From Capo Passero site the KM3Net-It Cherenkov Neutrino Telescope will be able to search for neutrinos from the Galactic Centre, and will complement the view of the sky from Antarctica.

**The Tower main features: sensors, calibration tools, electronics, environmental condition probes**

**Tower and floors**
- Main floor characteristics:
  - Window on the top and power
  - 1 central sensor electronics
  - 2 Hydrophones
  - Calibration sensors
  - Laser beacon
  - LED boards: Time CAL
  - Oceanographic Sensors
  - Pressure Depth
  - Transmissometer
  - Current meter reader

**Off-shore data Acquisition electronics components**
- PMT’s timing

**PMT’s timing**
- Adjacent PMT’s comparison: the PMT, triggered by a "n" decay, is "complimented by a "µ" decay" in the other.

**Environmental properties**
- Conductivity [Bilm]
- Temperature [°C]
- Deep-sea current [cm s⁻¹]

**PMTs rates**
- One year measurement of PMTs single rate [BiM], averaged over 15 min.
- 10⁻⁶ PMT single rate ~5kHz !!

**Atm. µ tracks reconstruction**
- One year measurement of PMTs single rate [BiM], averaged over 15 min.
- 10⁻⁶ PMT single rate ~5kHz !!

**Tower prototype in KM3NeT-It site: 1 year of continuous data-taking**
- One year measurement of PMTs single rate [BiM], averaged over 15 min.
- 10⁻⁶ PMT single rate ~5kHz !!