



The **Radioelectric Experimental Centre G. Marconi (CReSM)** represents a natural continuation of Guglielmo Marconi's research activities, that he himself founded in 1933 as "Centro Radioelettrico Sperimentale del Consiglio Nazionale delle Ricerche di Torre Chiaruccia" in Santa Marinella, in the province of Rome.

The Centre was re-established in 1999, mainly dealing with research activities and development of telecommunications as well as with advanced education in new technologies in ICT field. It organizes various scientific events.

The Centre's main research topics are:

- wireless and mobile systems,
- channel coding,
- cryptography,
- radar and satellite communications,
- advanced software platforms.

The wireless/mobile systems are devoted to video surveillance and telecontrol.

The experience developed in channel coding deals with LDPC codes with strong error correction capability.

The interest in cryptography originates from the risk of traditional public key encryption systems due to quantum computers.

Radar systems are employed for maritime traffic control and oil spill detection. Satellite communications were employed to support the services for civil protection.

In advanced software platforms some Industry 4.0 application have been developed.



### Organization

The CReSM is a public institution controlled by MIUR. It is directed by an Administrative Council, composed by representatives of various Ministries and scientific institutes.

Its legal main office is at Università di Tor Vergata in Rome.

The most important operational office is at Università Politecnica delle Marche in Ancona.

In the technological transfer activity, the Centre represents the link between the research institutes, universities and various enterprises, especially those of SME type.

Web site : [www.centromarconi.it](http://www.centromarconi.it)

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Since 2001 until 2009, the Centre has been in Area Science Park, Trieste, where a laboratory on radio mobile service was installed.