



The Italian Institution for
research and promotion
of standardization



WHO WE ARE

ENR is a non-profit organization with legal personality under private law, with registered office in Palermo.

The purpose of the organization is to contribute, in the interest of the community, to the research and promotion of guidelines and technical standards in the field of sustainability, quality, safety and environment. Specifically, the reference is to all the different phases that make up the entire process of standardization, proposing and carrying out the necessary activities and initiatives in this regard. This is achieved mainly through the establishment of expert groups and continuous dialogue with public and private institutions.

As specified in the ENR Charter, Members by right, with their own representatives, are:

- The Italian Ministry of Agriculture, Food, Forestry and Tourism (MIPAAFT)
- The Italian Ministry of Economic Development (MISE)
- The Italian Ministry of Education, University and Research (MIUR)
- The Italian Ministry for Environment, Land and Sea Protection (MATTM).

MISSION OF ENR

Standardization is an important issue: it is able to offer the best guarantees for products, processes and services to the different target uses and, at the same time, the best margins of competitiveness for products manufacturers, processes and services providers. ENR plays a significant role in the production and promotion of the use of voluntary technical standards. In the current phase of market globalization this approach to the standardization is one of the main tools to defend and support the community. ENR contributes significantly to the development of new legislative standards and, by acting as a hub for the standardization system as a whole, works to facilitate the creation of the necessary framework for accredited subjects to effectively carry out their certification activities. ENR aims to bridge the gap between competence and capacity in the field of standardization by promoting the use of technical standards in real contexts.

Technical standards are documents which, from the point of view of their content, define the characteristics (dimensional, of performance, environmental, quality and safety related and organizational, etc.) of a product, process or service, according to the state of the art. As for their value, technical standards may be adopted by a recognised standardization body, for repeated or continuous application. Even if in general it is not compulsory to comply with a technical standard, nevertheless, supply contracts and collaboration relationships between operators frequently refer to technical standards for the purposes of mutual understanding and standardization. The contribution of ENR, in collaboration with other national or international subject operating in such a sector consists of studies and research on the drafting, qualification and updating of the technical standards themselves, including what is called, in the E.U., pre-normative research and of their dissemination and use in collaboration with other national or international actors, active in such a sector, in activities of promotion and support of the adoption of technical standards. The above is sustained through feasibility testing, experimentation, training and information addressed not only to operators in the different production sectors but, more generally, to the public opinion.

OVERVIEW

Consistently with the true meaning of the term “standardization”, the co-presence in the ENR’s mission of both research and promotion tasks, aims at bridging the gap between competence and capacity, summarized in the English expression of *capacity building*.

There are, in fact, several examples of professionalism in which competence has no value without the ability to operate. For this reason, ENR activities are oriented towards capacity building.

ENR also takes up the challenge of globalization posed by today’s reality, focusing its research and standardization activities on the theme of sustainability through a series of initiatives aimed at enhancing the value of goods, products or services in full respect of the environment and any further future needs.

ENR OPERATING SECTORS / THEMATIC PROJECTS

- Marine and Maritime ICT
- Agri-food
- Healthcare ICT
- Cloud services in e-government in the Public Administration sector
- Critical Infrastructures
- Innovative companies
- Technologies for Cultural Heritage
- Advanced Training Courses on ICT standardization
- Advanced Training Courses on Forensic Computer Science

OPERATING METHODS

Operating methods include in particular:

- The systematic relationship with the Ministries that appoint their own representatives to the ENR Board of Administration
- The production of protocols, guidelines, operational procedures, to facilitate the practical application of the technical standards
- The attention to the international dimension



The action of ENR unfolds as:

1. Identification of the need for standardisation of a specific target use
2. Initial recognition of the first experiences from the identified target use.
3. Identification and formulation of general guidelines for the target-use
4. Writing-up of a first draft standard (typically of a voluntary and non-binding nature), through the setting-up of a Technical Committee of users, manufacturers of the product/service to be standardized and relevant public and private Institutional bodies related to the item under analysis
5. Publication and presentation of the first draft standard and creation of awareness and feedback on the net
6. Promotion of the use of standard
7. Promotion of the dissemination of the standard
8. Training of potential users of the standard

Key benefits

The production and promotion of standards are aimed at the protection and support of the community as a whole subjects users-consumers of products and services both as producers of the same, not only as a defense against any improper competences based on inadequate products or processes, but also as enabling factor for best positioning in the international competition. The activity of ENR is not limited to the production of standards stricto sensu, but rather to the whole process of standardization.

CHARACTERISTICS OF TECHNICAL RULES

Consensuality

It must be approved with the consent of those who participated in the work.

Democracy

All economic/social stakeholders may participate in the activities and, above all, anyone who is given the opportunity to comment during the procedure leading up to final approval.

Trasparency

ENR outlines the key steps in the process of approving a draft standard, keeping the project itself available to interested parties.

Voluntariness

Standards are a reference that stakeholders impose on themselves voluntarily.



LIST OF THE MAIN ENR PROJECTS

TecBIA - Low Environmental Impact Technologies for the production of energy on ships

Development of zero-emission power generation systems for marine applications

Call for proposals MISE Large R&D projects PON/Sustainable industry - in collaboration with FINCANTIERI S.p.A. and CETENA S.p.A

ARES - Autonomous Robotics for the Extended Ship

Creation of an RD&I ecosystem in the shipbuilding and marine robotics sector

Project financed with PON funds "Research and Innovation" 2014-2020 MIUR and FSC (Fund for Development and Cohesion) area of specialization "Shipbuilding and robotics"; Lead partner CNR-ISSIA

KNOWLEDGE HUB ON FOOD AND NUTRITION SECURITY

Joint international initiative JPI (A healthy diet for a healthy life), JPI Oceans and FACCE-JPI (JPI Agriculture, Food Security and Climate Change) to create a hub of knowledge and networking in the field of food safety with a view to sharing and collaborating with international partners (with case studies on the olive oil sector), in collaboration with the Department of Agri-environmental Food Science of the University of Pisa and the Department of Food and Forestry of the University of Palermo

PRE.MED. - PREcision MEDICINE

Production of voluntary technical standards in the field of PREcision MEDICINE

National Project MISE H2020 - e-health - in collaboration with the Cooperativa EDP La Traccia

MOQAP - Maritime Operations Quality Assurance Platform

Service platform with predictive and prescriptive capabilities for analysing data on a vessel's behaviour at sea

National Project MISE H2020 - maritime - in collaboration with SIRM

RTA - Company Technological Performance

Management system for innovation

Project in collaboration with L.U.P.T - University of Naples Federico II

LAS - Health Care Waiting Lists

Priority management system of waiting lists for access to hospitalisation under the election procedure

Regional Project co-financed by the Ministry of Health and the Liguria Region



CLOUD FOR EUROPE: Pre-Commercial Procurement (PCP) Tender Cloud for Europe

Brokerage of Cloud services for the PA; development of regulatory frameworks on the matter; enforcement of these rules
European project in collaboration with the EUCENTRE Foundation

PA@CLOUD (project @GCloud) - Pre-Commercial Procurement (PCP)

Survey of innovation needs within the public sector in the Convergence Regions Project
PON Research and Competitiveness 2007-2013 MIUR-MISE

TECLA - NanoTechnologies and nanomaterials for cultural heritage

Service for the dissemination of results in the field of Cultural Heritage
PON Research and Competitiveness Project 2007-2013, in collaboration with the University of Palermo

IRC-FSH - Interregional Research Centre Food Safety & Health

Documentary system aimed at certifying the laboratories of the IRC-FSH centre
National project financed by MIUR within the framework of the PON "Research and Competitiveness", in collaboration with the Magna Graecia" University of Catanzaro Foundation

SI.CURA - Intelligent System for the care and well-being of the individual-user and rational management, efficient and collaborative home care service

Improving the health and well-being of the population
National Project MISE H2020 - e-health - in collaboration with ITSLab S.r.l.

SI.NA.PO. - SAFETY Port Navigation

Creation of an intelligent and adaptive decision support system for the real-time reconfiguration of on-board installations in the event of a breakdown
Regional Project in collaboration with CNR-ICAR and Intermarine - Call for proposals P.O.R. FESR SICILIA 2014/2020

MAS - Maritime Security and Anti-Terrorism System

Protection of critical infrastructure against terrorist attacks
Project co-funded by the European Commission

PRO.FLO.MER. - FLORICULTURE PRODUCTION IN THE SOUTH OF ITALY

Enhancement of the floricultural productions of the South Italy
National Project MIPAAFT

POSEIDON - Innovative products and services for the development of a sustainable sea economy in Sicily

Study of a new sensor system for environmental monitoring and development of an electronic system for interfacing and controlling the analysed parameters
Project POR FESR Sicilia 2014/2020 in collaboration with FINCANTIERI S.p.A.



AGRIFOOD PROJECT - OIL AND OLIVE OIL SECTOR

Research project in the oil and olive sector for the promotion of European and national guidelines and standards for the entire food chain of standardization related to the culture of olives, from the plant to the bottle. The project also provides for the creation of a website designed to reflect the culture of the various target groups involved in the subject, with the aim of facilitating the process of product certification.

of the oil supply chain

D.M. No. 30311 of 31/10/2018- MIPAAFT in concert with MEF

AGRIFOOD PROJECT - DROPS OF PLEASURE AND HEALTH

Cooperation project in the supply chain for the development of new products, processes and technologies in the agricultural and food sector in Sicily for the production and dissemination of an innovative line of low alcohol drinks obtained from wine and grape juice flavoured with organic production biofortified with elements of high nutraceutical value.

Measure 16.1 RDP Sicilian Region 2014-2020

AGRIFOOD PROJECT - NEW SPARKLING WINE PROCESSES

Project that aims at applying innovative techniques of vineyard management in full respect of the environment, ethically correct and sustainable - in order to obtain high quality grapes with better characteristics in terms of quality for the subsequent vinification for the production of sparkling wine.

Measure 16.1 RDP Sicilian Region 2014-2020

ENHANCEMENT OF INTANGIBLE ASSETS

Study on the state of the art of rules and processes for the certification of software applications in the medical field Project co-financed under the program "Smart Cities and Communities and Social Innovation" - PON Research and Competitiveness of 2013, supported by the Ministry of Education, University and Research (MIUR), in collaboration with CNR-ICAR

ENR-UNIGE/DIBRIS

Highly Specialized Course on ICT Standardization, within the Framework Agreement (MoU) signed between ENR and UNIGE-DIBRIS

ENR-ANESA-CD- INTERNATIONAL TELEMATIC UNIVERSITY UNINETTUNO

High Specialized Course on Forensic Informatics, within the agreement signed between ENR, ANESA-CD and UNINETTUNO INTERNATIONAL TELEMATIC UNIVERSITY with reference to the Law 4/2013 on unorganized professions.





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