Italian Agency for Agricultural Mechanization

10th Session of the Technical Committee (TC) of CSAM
&
Regional Workshop on Establishing a Regional Database of Agricultural Mechanization in Asia and the Pacific

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STATISTICS FOR ITALY

Total surface = 17,000,000 ha
ITALIAN GDP 2013*

Total GDP: 1.400 billion €

* Source ISTAT - 2013
In Italy there is a ten-yearly census for agricultural sector

<table>
<thead>
<tr>
<th></th>
<th>ITALY</th>
<th>EUROPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agricultural land used</td>
<td>12.744.196,23 ha (tot. Surface 17.000.000 ha)</td>
<td>172.000.000 ha (tot. 214.000.000 ha)</td>
</tr>
<tr>
<td>Arable land</td>
<td>6.938.830,68 ha</td>
<td>104.000.000 ha</td>
</tr>
<tr>
<td>Woody plantation</td>
<td>2.323.183,97 ha</td>
<td>10.700.000 ha</td>
</tr>
</tbody>
</table>

* Source Ministry of Agriculture - 2013
## Italy Agricultural production

<table>
<thead>
<tr>
<th>Cereals</th>
<th>180,267,202 (51.6% arable land) - UE 54%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuber plants</td>
<td>15,676,844</td>
</tr>
<tr>
<td>Vegetables</td>
<td>118,553,251</td>
</tr>
<tr>
<td>Fruits</td>
<td>60,954,062</td>
</tr>
<tr>
<td>Citrus fruit</td>
<td>60,954,062</td>
</tr>
<tr>
<td>Vine</td>
<td>72,828,700</td>
</tr>
<tr>
<td>Olive</td>
<td>31,543,432</td>
</tr>
<tr>
<td>Grazing</td>
<td>1,112,933 units</td>
</tr>
<tr>
<td>Greenhouse vegetables</td>
<td>15,807,919</td>
</tr>
<tr>
<td>Tractors</td>
<td>1,600,000 units</td>
</tr>
<tr>
<td><strong>Total Value (million €)</strong></td>
<td><strong>54,116</strong></td>
</tr>
</tbody>
</table>
Europe
Europe (budget 2007 – 2013)

- 45 € billion for the agricultural sector
- 34 % of the overall budget (148 €. billion)

In 2011, for rural development spending to 11% and 30% for direct aid to farmers and market-related expenditure with clear rules according to the “State Aid Regulations”

*The new budget will be 2014 – 2020.*
Italian National Agency for Agricultural Mechanisation is an organization created to improve competitiveness, develop technology and assess the performance and safety of machinery, plants and their components and products and plants being used for energy production.
Through its activities, ENAMA disseminate the culture of certification, innovation and appropriate use of agricultural engineering in order to foster a safe, competitive agriculture to benefit the human, the environment and agricultural production.

ENAMA promotes projects, advice and solutions based on a high level of technical and regulatory knowledge for all actors in Italy and worldwide.
Members of ENAMA

ENAMA

Farmers Organization
- CIA Coldiretti Confagricoltura

Farm Contractors/Custom Hire
- UNIMA

Manufacturers
- FEDERUNACOMA CONFARTIGIANATO

Dealers
- UNACMA ASSOCAP

Public Sector
- Ministry of Agriculture Regions CRA
ENAMA ACTIVITIES

- Machine Certification
- **Product Certification (machine, components, fuels, plants etc.)**
- Homologation
- Technical Consulting
- International Activities
- Studies and researches
- Training and Information
- Innovation
ENAMA SYSTEM

NO PROFIT ORGANISATION

Activities with the Italian Ministry of Agriculture and public bodies (including International Organizations)

and

Activities with the private sector
Activities with the Ministry of Agriculture and public bodies (including International Organizations).

Incomes are provided by funding by the Ministry of Agriculture and other public national and international bodies based on a contribution* on expenses to perform projects. Other incomes are provided by Members annual fees.

On early basis these activities perform an important loss in terms of income.

Losses are covered by the net incomes of activities with the private sector.

* According to EU regulations
Activities with the private sector

Enama performs activities with the private sector in Italy and worldwide

These activities provide for a net income that is used to cover the losses of the activities with the public sector.

THEREFORE
ENAMA ACTIVITIES

Product Certification
Machine Certification
Homologation
Technical Consulting
International Activities
Studies and researches
Training and Information
Innovation

Activities with the Public Sector

Activities with the Private Sector

ENAMA cannot give its Members any financial benefit but all net incomes must be used to promote agriculture
Product Certification
ENAMA is the independent certification body of third party which benefits of the full representativity of the parts involved in the supply chain.

PRODUCT CERTIFICATION: Certification of products/services, regulated by the sectorial standards or equivalents references, that directly ensures the compliance of the product to specific requirements. Provides for the best guarantee on the continuity of product compliance.

PURPOSE OF PRODUCT CERTIFICATION: To provide confidence to the market about the ability of the producer to obtain and maintain conformity of products. For this reason the conformity mark, may be used for a specific period of time.

ENAMA CERTIFICATION MECHANIZATION:
• VS Enama certification of safety of agricultural machines
• Enama Certification of performances and safety of agricultural machines
• Enama certification of components of agricultural machines

AGROENERGY:
• ENplus Pellet Certification
• Agroforestry solid biofuel
• Certification
Machine Certification
Machine Certification

Enama performs voluntary and accredited safety tests and functional tests on agricultural machinery and components, released to the Manufacturers constituting a distinctive mark of its products and a considerable added value on the market.

The testing of the functional aspects, based on the current standards/regulation (ISO, EN, etc.), are carried out by specialized test centers coordinated by ENAMA on machines and components.

ENAMA offers a Certification service for agricultural machines and components:
• VS ENAMA: Safety Certification (accredited by Accredia with certificate no. 088B);
• Certification ENAMA: Performances Certification.

ENAMA performs its Certification activity without any conflict of interest and in the total impartiality and confidentiality in the data management.

ENAMA's Certificates are internationally recognized, e.g. ENTAM (European Network for Testing of Agricultural Machines).
Homologation

It's the fundamental requirement for the introduction of a vehicle in the public road traffic and it is divided in: EC; National; OECD / OECD; other. ENAMA can support manufacturers in the national and EC type approval process. Besides ENAMA can operate through its network of contacts at international level (OECD / OECD agreements ENTAM and ANTAM) in other countries too.

OECD/OCSE APPROVAL

It's the essential requirement for the export within the Members Countries, and it is aimed to test and verify the functional and safety features and requirements for wheeled agricultural and forestry tractors. Internationally recognized, it is based on OECD/OCSE Tractors Codes.

ENAMA, as OECD Coordination Centre, ensures:
• The same approach and interpretation of the Codes among the Test Stations across the world;
• A fast and accurate technical control of Test reports;
• Traceability and availability of test results.
Technical Consulting
ENAMA provides to public administrations, companies and operators, the tools and the knowledge needed to improve their activity, granting expertise and technical experience in the related area of interest.

ENAMA provides answers to questions related to the following areas:

- Safe use of agricultural machinery
- Type Approval of agricultural machinery
- Road Traffic and revision of agricultural machinery
- Explanation of regulations (ROAD CIRCULATION, ISO, UNI, EN, OCSE/OECD, etc.).

ENAMA published several documents concerning the safe use of agricultural machinery with the aim to provide farmers and operators of agro-mechanical equipment, an efficient training-informative instrument and a valuable contribution for the reduction of accidents related to the use of agricultural machinery.
Recently ENAMA has started new activities in the sector of Agro and Bioenergy supporting policies for the development of renewable energy in agriculture. The aim is to implement the certification of products and processes involved in the supply chain for the development of agriculture.

The mission of ENAMA is to ensure sustainability, efficiency and traceability of biofuels and of their whole production chain:

- Certification of agro-forestry biomass (*ENplus Certification of Pellets*)
- Certification of biofuels, bio-liquids and bio-lubricants
- Certification and development of biomethane and biogas
- Technical support to the supply chain actors, to central and local administrations and Italian Ministry of Agriculture
- Development of pilot projects
Innovation
ENAMA runs annual programs for the development of innovation in agricultural mechanization promoted and financed by the Italian Ministry of Agriculture, Food and Forestry.

The programs are designed to actively support research and development in the industry of agricultural machinery manufacturers, contributing at the same time to adjust the supply of agricultural machinery and equipment to the evolving mechanization needs of Italian agriculture. Besides it’s aimed to offer improved competitiveness to farmers in an increasingly internationalized market.

A further objective of the program is to improve workers and environment safety in the industry, in order to comply, in the design, use and management of agricultural machinery and equipment with the increasingly stringent regulations in this field.

To date, 14 innovative machines programs have been completed and 4 are still ongoing, for a total of 153 prototypes.
Training
Strong point of the ENAMA 20 years old training activity is the use of senior experts that provide for a better learning of the different operative techniques.

The ENAMA training courses have the purpose to give to professional operators a better knowledge on the safe use of agricultural machines.

- SAFE DRIVING TRAINING COURSES FOR AGRICULTURAL OPERATORS: the purpose is to offer to trainers and professional operators a correct driving technique, in order to obtain a higher safety level during the use of the machines in the field and on the road.

- TRAINING IN THE FIELD OF INSPECTION AND REGULATION OF AGRICULTURAL SPRAYERS IN USE: ENAMA operates together with Regional Offices to realise training courses for technicians responsible for the inspections on sprayers and for trainers.

- TRAINING ON THE SAFE USE OF THE AGRICULTURAL MACHINES: The attention is particularly focused on the upgrade of the old used machines in order to reduce the potential risks.
International Activities

ENAMA
Ente Nazionale per la Meccanizzazione Agricola

ENTAM SUPPORTO ALL’INTERNAZIONALIZZAZIONE

ENTAM (European Network for Testing of Agricultural Machinery) – istituito nel 1999 con il co-ordinamento di ENAMA, rappresenta la rete dei centri prova appartenenti ai paesi europei per lo svolgimento di attività comuni con lo scopo finale di effettuare e riconoscere le prove di prestazioni, sicurezza e protezione ambientale di macchine ed attrezzature agricole.

Attualmente, l’ENTAM rappresenta uno strumento internazionale in grado di garantire sistemi di prova armonizzati ed indipendenti su richiesta del costruttore le prove sono effettuate da centri provati specializzati con metodologie tecniche comuni al fine di offrire uno strumento per migliorare i mezzi prodotti, in accordo con le regole e gli standard internazionali e europei (ISO, EN, OECD).

L’ENTAM è composta da 31 membri, 1 membro onorario (FAO) e 4 membri osservatori provenienti da Stati estereuropei.

Sotto l’egida del Centro della Nazione Unita dell’Asia e del Pacifico per l’Ingenieria e la Meccanizzazione Agricola (UN/CSAM), l’ENTAM lavora in stretta collaborazione con Asian and Pacific Network for Testing of Agricultural Machinery (ANTAM) per promuovere la sostenibilità della meccanizzazione agricola in tutta la regione dell’Asia e del Pacifico.

Per maggiori informazioni consultare il sito: entam.net

ANTAM NETWORK

IL FUTURO DELLA MECCANIZZAZIONE AGRICOLA IN ASIA E NEL PACIFICO, ATTREZZANDO UN USO SOSTENIBILE DELLE MACCHINE AGRICOLE

ANTAM - Asian and the Pacific Network for Testing of Agricultural Machinery, promosso nel 2013 a Bangkok dall’UN/ESCAP/PCIAM, è il primo network della regione asiatica, dal quale è nato un programma per lo sviluppo e lo svolgimento di macchine e attrezzature agricole, la loro meccanizzazione per un miglioramento e l’uso sostenibile delle macchine agricole.

Il network si articola in tre campi: la promozione dell’attrezzatura agricola, la formazione degli operatori e la promozione della sostenibilità dell’agricoltura.

Il network è composto da 14 Stati asian, con deleghi di rappresentanza, e dalle organizzazioni professionali agricole e lavoro in stretta collaborazione con FAO, UNIDO, UNCTAD e per promuovere la meccanizzazione agricola, la formazione degli operatori e la promozione della sostenibilità dell’agricoltura.

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Per maggiori informazioni visitare il sito: un-csam.org/index.asp
International Cooperation

ENTAM

OECD

United Nations ESCAP

Economic and Social Commission for Asia and the Pacific

ANTAM
ENAMA is a founder member of **ENTAM (European Network for Testing of Agricultural Machines)**. It's an international effort to guarantee independent and harmonised testing systems.

Regarding the voluntary or compulsory testing in the field of agricultural engineering ENTAM testing stations assess:

- performances
- safety
- environmental protection
- animal welfare requirements in animal husbandry
OECD TRACTOR CODES

• **Functions**: OECD Tractor Codes Certification involves 34 member countries and 32 Testing Stations. OECD exemplify the standardization, testing and certification system.

• **Role of ENAMA**: is the Coordinating Center of OECD codes and is the National Designated Authority of Italy for OECD Standard Codes for the Official Testing of Agriculture and Forestry Tractors.
**International Cooperation**

**ANTAM** is the first Network applied in the Asia-Pacific Region and its aim is to facilitate the trade and use of agricultural machines and to implement *common requirements of safety of the operator, environment and food production and best performance.*

Besides its aim is to promote *harmonization of standards, testing procedures and certification of agricultural machinery* for a better quality, sustainability of agriculture and subsidy policy in Member countries. The different stakeholders co-operation ensures that *farmers can have an easy access to improved machinery to increase production and safety.*

ENAMA acts as **Technical Reference Unit** of ANTAM and it will *provide for technical support and third party on the technical content of the incoming reports* performed by Member Countries. ENAMA’s role will represent an important and valid international connection between ANTAM and all the international organizations (FAO, UNIDO, OECD) and the ENTAM network.
For further informations, visit:

http://www.enama.it/it/index.php
http://www.entam.net/index.php
http://www.oecd.org/agriculture/code/tractors.htm

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