

ENTAM/ENAMA THE EUROPEAN EXPERIENCE ANTAM THE ASIAN FUTURE

Qingdao, 27th of October 2013





Governments adopt development agenda for inclusive and resilient growth (may 2013)

Sustaining inclusive growth

Sustainable development & resilience

Agriculture

Regional cooperation & connectivity



World Agriculture

One of the most hazardous occupation

Wide use of chemicals

Close relation to the environment

Primary sector of the economy

Agricultural output in 2011 4.249.237 billions of US\$ 6.2% of GDP





3 Pillars of safety

G20 at OECD - 2011 S. Liberatori



Region wide standards and guidelines



The creation of an Asia-Pacific Network for Testing of Agricultural machinery has the Organization for Economic and Development (OECD) and the European Network for Testing of Agricultural Machines (ENTAM) as examples currently in operation. Both institutions have offered strong support for the establishment of such a network in the region.

Taking up this challenge, the Centre for Sustainable Agriculture Mechanization (UN-CSAM), one of five regional institutes under the umbrella of the United Nation Economic and Social Commission for Asia and the Pacific (ESCAP), has promoted the establishment of an Asia-Pacific network for testing agricultural machinery and farm implements, more commonly referred to as **ANTAM**.

ANTAM will facilitate the trade and use of agricultural machines and implements fulfilling common requirements of safety (operator, environment, food production) and performance.



In this frame a system based on:

STANDARDISATION + TESTING/VERIFICATION + CERTIFICATION

is the frame for development and trade offering benefits to all

STAKEHOLDERS



ANTAM: The Asian future To make ANTAM more affective the following items must be discussed/solved:

Common basis for standards and guidelines Enama has provided two crop protection testing methodologies as a first step.

Common policies for agricultural mechanization

Step by step policy/deadlines until ANTAM = ENTAM



EXHISTING NETWORKS:

OECD Tractor Codes Certification

ENTAM European Network for Testing Agricultural Machines





OECD TRACTOR CODES CERTIFICATION





The OECD Certification

(The Organisation for Economic Co-operation and Development)

Agricultural mechanization

34 Member Countries

OECD tractor Codes

32 Testing Stations



OECD CODES



Code 2

Testing of agricultural and forestry tractor performance.

Code 3

Testing of the strength of **protective structures** for agricultural and forestry tractors **(dynamic test)**.

Code 4

Testing of the strength of **protective structures** for agricultural and forestry tractors **(static test)**.

Code 5

Noise measurement at the driver's position(s).

Code 6

Testing of **front-mounted protective structures on narrow-track wheeled** agricultural and forestry tractors.

Code 7

Testing of the **rear-mounted protective structures on narrow-track wheeled** agricultural and forestry tractors.

Code 8

Testing of **protective structures on tracklaying tractors**.

Code 9

Protective structures for telehandlers (testing of falling-object and roll-over protective structures fitted to self-propelled variable reach all-terrain trucks for agricultural use).

Code 10

Testing of Falling object protective structures





Department of Biological Systems Engineering University of Nebraska - East Campus

th the OECD STANDARD CODE 2 tricles Testing of Agricultural and Foreatry

University of Nebraska - East Campus Lincoln, Nebraska 68583,0832, USA

ate of approval No: 22 781







OECD CODES

A GOOD EXAMPLE OF:

STANDARDISATION

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TESTING

+ CERTIFICATION

UNDER THE UMBRELLA OF AN INTER GOVERNMENTAL ORGANISATION

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ENTAM

Is an agreement among different countries:



Observer Members









Honorary Witness



Food and Agriculture Organization of the United Nations



ENTAM Agreement art. 2

- develop common activities in the field of agricultural and forestry engineering;
- develop common activities and documents with the aim to develop testing activities for the mutual recognition of test and test reports in the field of agricultural and forestry engineering;
- develop common research projects;
- promote the exchange of information among the Institutions;
- keep contacts with other National, International, public and private Institutions.



ENTAM REPORT



ENTAM - Test Report



Sprayer type:
Trade mark:
Model:

Trailed tunnel sprayer Agricolmeccanica Srl DRIFT RECOVERY 2000

ENTAM

Manufacturer:

Test report: 05.179

AGRICOLMECCANICA Srl Stradone Zuino Nord, 4050 33050 Torviscosa (UD) - ITALY January 2013

Responsibility and recognition



Crop Protection Technology DISAFA – University of Torino Via Leonardo da Vinci, 44

Performing competent authority:

I - 10095 Grugliasco (TO) - ITALY

This test is recognized by the ENTAM members:

Generalitat de Catalunya Departament d'Agricultur Alimentació i Acció Rural	CMA - Administració de la Generalitat de a, Catalunya, Centre de Mecanització Agrària – SPAIN	EPH002/13
FJ	FJ-BLT HBLFA Francisco Josephinum Wieselburg - Biomass, Logistics, Technology – AUSTRIA	062/13
irstea	IRSTEA - Institut National de Recherche en Sciences et Technologies pour l'Environnement et l'Agriculture (formerly CEMAGREF) – FRANCE	IRSTEA/ CEMAGREF/ ENTAM/13/002
Euclerschwaprathet for Fahruphases	JKI - Julius Kühn-Institut (formerly BBA) – GERMANY	ENT-I-01/13
	MGI - MEZOGAZDASÁGI GÉPESÍTÉSI INTÉZET- HUNGARY	I-68/2013
PIMR	PIMR - Przemysłowy Instytut Maszyn Rolniczych – POLAND	PIMR- 88/ENTAM/13

Qingdao, 27th of October 2013

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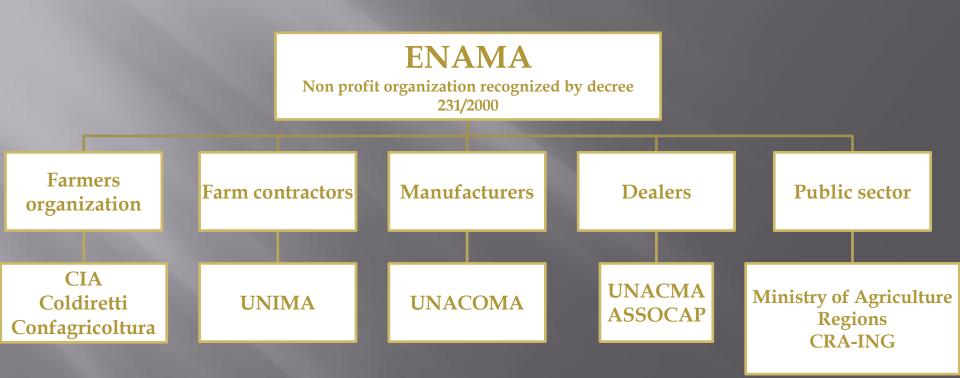


ENAMA National Agency for Agricultural Engineering:



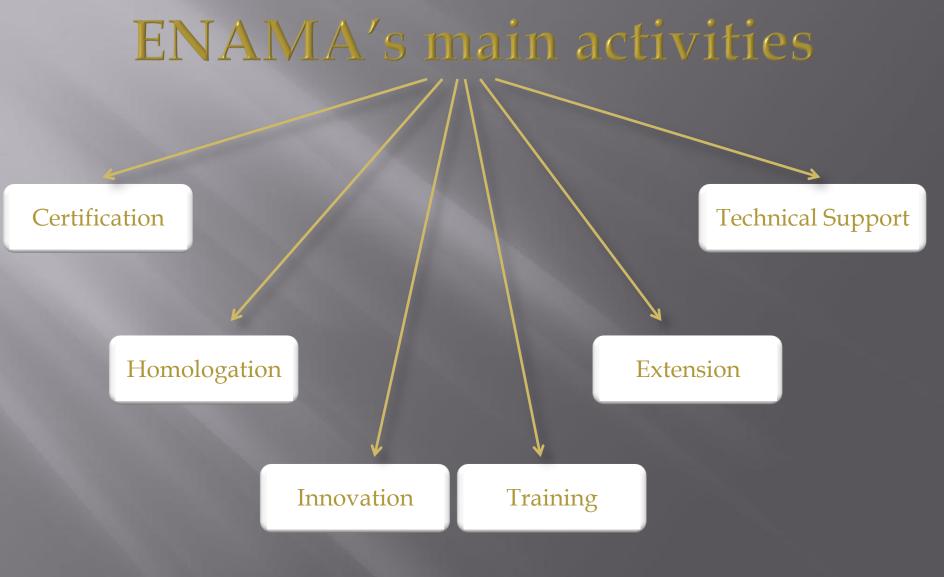


Members of ENAMA













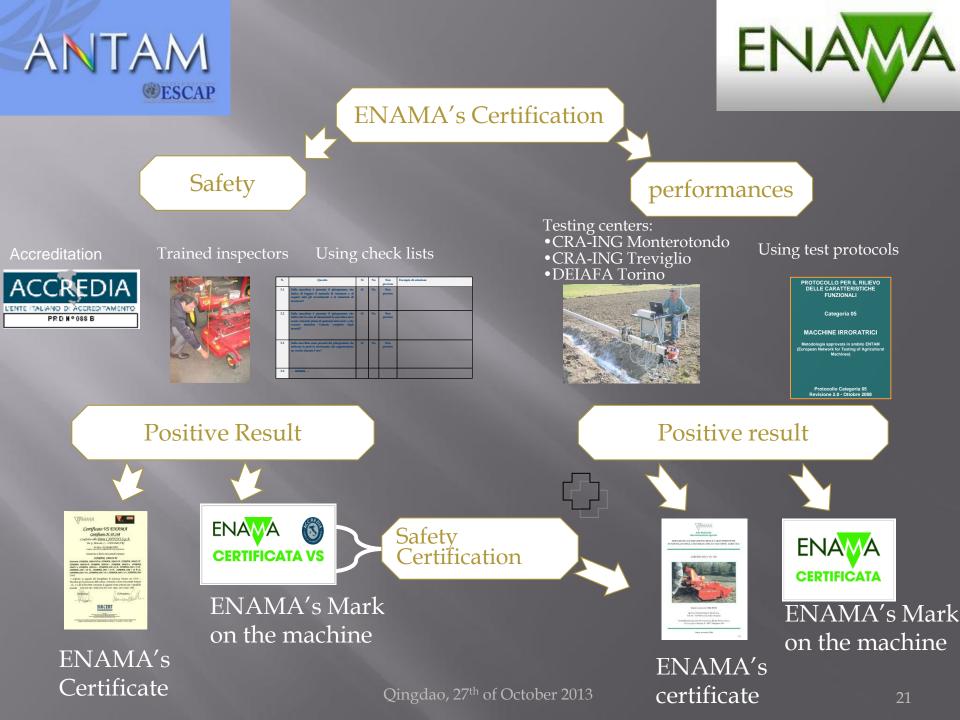
The ENAMA Certification

ENAMA's Certification



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performances







Homologation

MANUFACTURER



Type Approval for road circulation

ENAMA

EEC and ITALIAN MINISTRY OF TRANSPORT





Innovation

More than 140 new machines or components have been developed by the industry with ENAMA's support









Extension







Technical Support



Coordination of the activity for the definition of the National methodology for the inspection of the agricultural sprayers (in accordance with the Directive for the Sustainable Use of Pesticides - 2009/128/CE)

High value consultancy to all takeholders and national as well as international organizations







- ENTAM (European Network for Testing Agricultural Machines)
- OECD
- EU
- FAO, UNIDO
- UN-ESCAP / UN-CSAM



ANTAM

No System





Good Gov.

Bad Gov.

Thank You

For more info: <u>www.enama.it</u> <u>www.oecd.org</u> www.entam.com