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

Key priorities

- Sustaining inclusive growth
- Sustainable development & resilience
- Regional cooperation & connectivity

Qingdao, 27th of October 2013
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

Qingdao, 27th of October 2013
3 Pillars of safety
G20 at OECD - 2011 S. Liberatori

Region wide standards and guidelines

Agriculture
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
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
EXISTING 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

32 Testing Stations

OECD tractor Codes

Qingdao, 27th of October 2013
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.
OECD CODES

A GOOD EXAMPLE OF:

STANDARDISATION
+
TESTING
+
CERTIFICATION

UNDER THE UMBRELLA OF AN
INTER GOVERNMENTAL ORGANISATION

Qingdao, 27th of October 2013
ENTAM
Is an agreement among different countries:

Observer Members
Honorary Witness

Qingdao, 27th of October 2013
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 - Test Report

**Sprayer type:** Trailed tunnel sprayer  
**Trademark:** Agricolmeccanica Srl  
**Model:** DRIFT RECOVERY 2000  
**Manufacturer:** AGRICOLMECCANICA Srl  
Stradone Zulino Nord, 4050  
33050 Torviscosa (UD) - ITALY  
**Test report:** 05.179  
**January 2013**

### Responsibility and recognition

<table>
<thead>
<tr>
<th>Performing competent authority:</th>
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</table>
| Crop Protection Technology DISAPA - University of Turin  
Via Leonardo da Vinci, 44  
1 - 10095 Grugliasco (TO) - ITALY |

**This test is recognized by the ENTAM members:**

| CMA - Administracio de la Generalitat de Catalunya, Centre de Mecanització Agrària - SPAIN |
| EPH002/13 |
| FJ-BLT HBLFA Francisco Josephinum Wieselburg - Biomass, Logistics, Technology - AUSTRIA |
| 062/13 |
| IRSTEA - Institut National de Recherche en Sciences et Technologies pour l’Environnement et l’Agriculture (formerly CEMAGREF) - FRANCE |
| IRSTEA/CEMAGREF/ENTAM/13/002 |
| JKI - Julius Kühn-Institut (formerly BBA) - GERMANY |
| ENT-J-01/13 |
| MGI - MEZEGAZDASÁGI GEPESÍTESI INTÉZET - HUNGARY |
| I-68/2013 |
| PIMR - Przemysłowy Instytut Mszyn Rolniczych - POLAND |
| PIMR-88/ENTAM/13 |
ENAMA
National Agency for Agricultural Engineering:

Qingdao, 27th of October 2013
Members of ENAMA

ENAMA
Non profit organization recognized by decree 231/2000

Farmers organization
- CIA Coldiretti Confagricoltura

Farm contractors
- UNIMA

Manufacturers
- UNACOMA

Dealers
- UNACMA ASSOCAP

Public sector
- Ministry of Agriculture Regions CRA-ING

Qingdao, 27th of October 2013
ENAMA’s main activities

Certification

Homologation

Innovation

Extension

Technical Support

Training
The ENAMA Certification

ENAMA’s Certification

Safety certification + performances

Qingdao, 27th of October 2013
ENAMA’s Certification

Safety

Testing centers:
• CRA-ING Monterotondo
• CRA-ING Treviglio
• DEIAFA Torino

Using test protocols

Positive Result

ENAMA’s Mark on the machine

Positive result

Using check lists

ENAMA’s Certificate

Safety Certification

Protocollo per Il Rilievo delle Caratteristiche Funzionali
Categoria 05
Macchine IRRORATRICI
Metodologia approvata in ambito ENTAM (European Network for Testing of Agricultural Machines)
Protocollo Categoria 05
Revisione 2.0 - Ottobre 2008

Qingdao, 27\textsuperscript{th} of October 2013

ENAMA’s Mark on the machine

ENAMA’s certificate
MANUFACTURER

Type Approval for road circulation

EEC and ITALIAN MINISTRY OF TRANSPORT

Qingdao, 27th of October 2013
Innovation

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

Safety guide of agricultural machines

Theory

Road test

Field test
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
International activities

- International projects → UE → other
- Bilateral agreements → ABMAQ / Brazil
- ENTAM (European Network for Testing Agricultural Machines)
- OECD
- EU
- FAO, UNIDO
- UN-ESCAP / UN-CSAM
ANTAM

Good Gov.

No System

Bad Gov.
Thank You

For more info:
www.enama.it
www.oecd.org
www.entam.com

Qingdao, 27th of October 2013