



Italian Agency for Agricultural Mechanization

**2nd Regional Forum on Sustainable Agricultural
Mechanization in Asia and the Pacific**

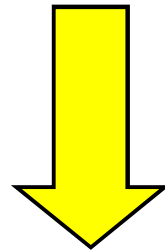
9th of September 2014

Serpong, Indonesia

Sandro Liberatori

Natascia Maisano

The future of the Agricultural Mechanization in Asia and the Pacific

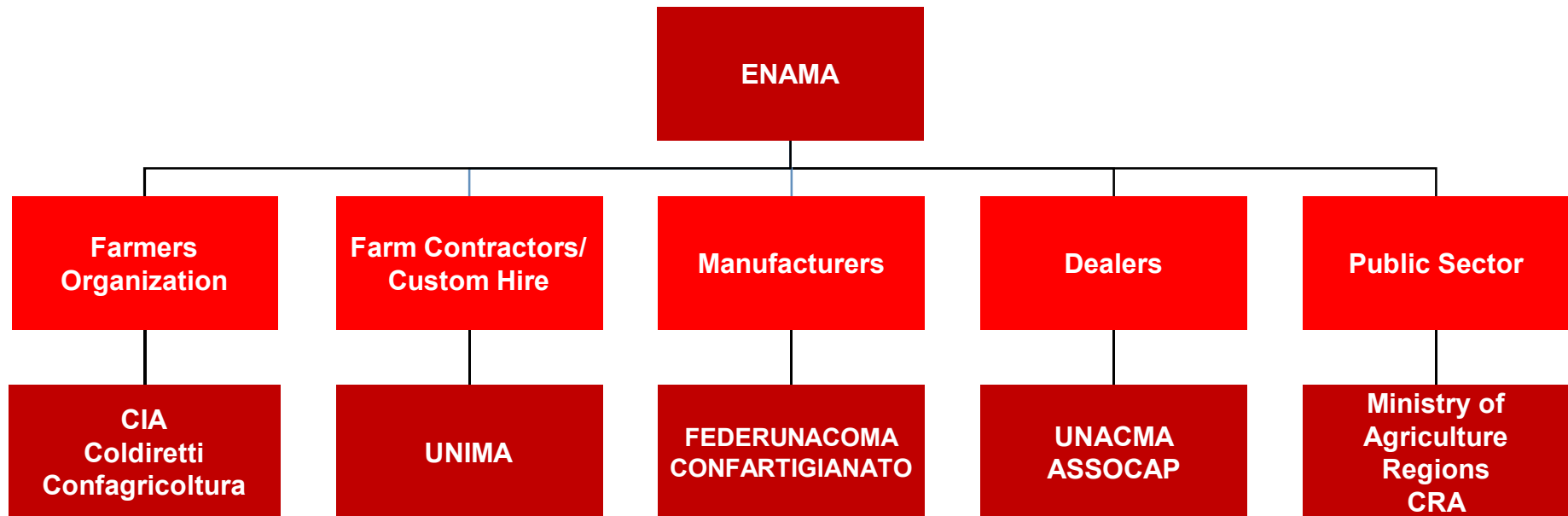


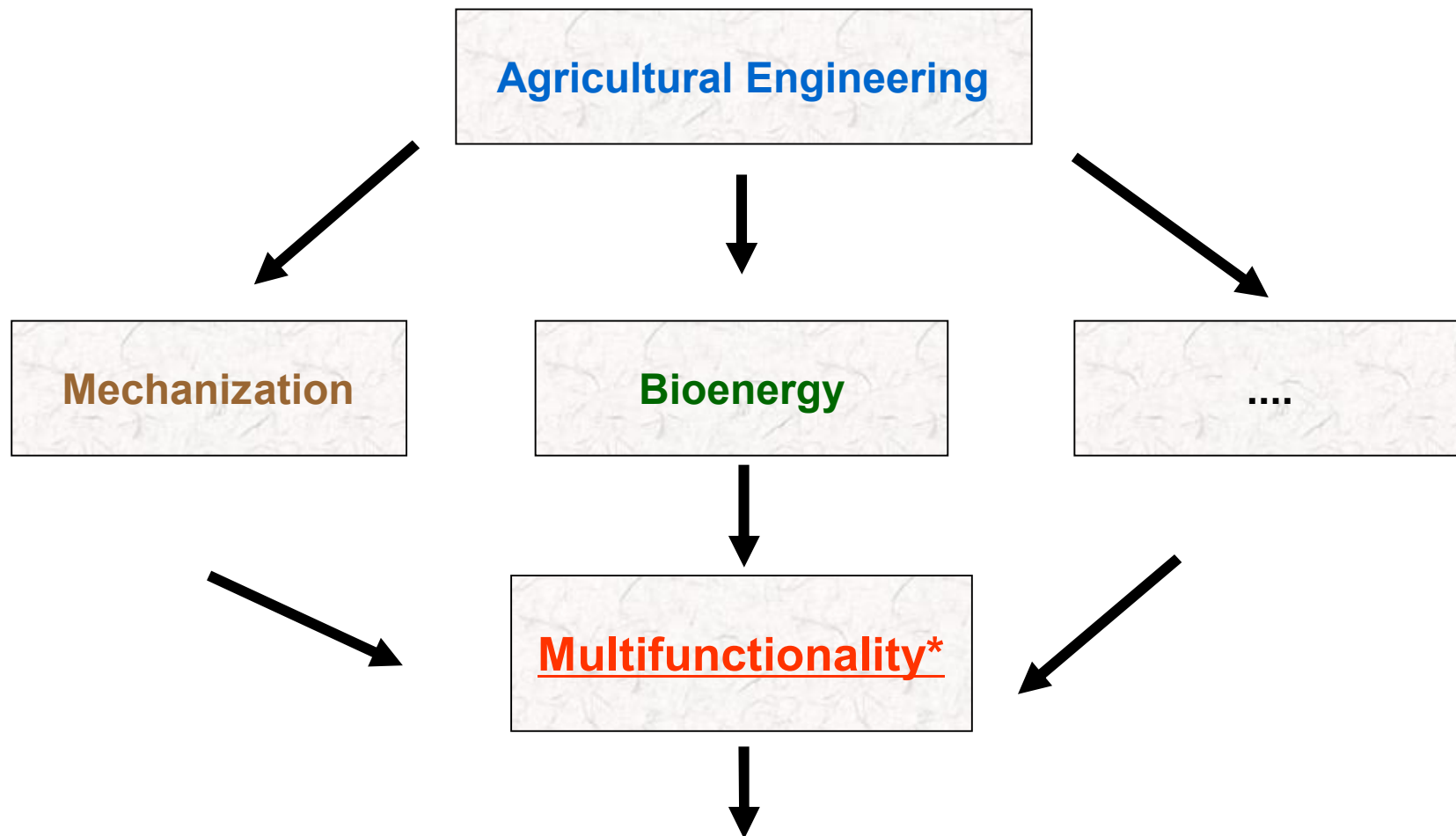
***towards a sustainable use of
farm machines***



Italian National Agency for Agricultural Mechanisation is an organization created to improve competitiveness, develop technology and assess the performance and safety of machinery, bioenergy in the agricultural sector in Italy and overseas.

Members of ENAMA

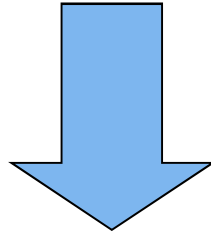




The farmers are the drivers of the primary sector

* Note: WTO Glossary - Idea that agriculture has many functions in addition to producing food and fibre, e.g. environmental protection, landscape preservation, rural employment, food security, etc. . in addition: bioenergy, bioproducts etc.

Good working system:



- ” harmonization of standards*
- ” harmonization of test procedures*
- ” harmonization of certification systems*
- ” international cooperation*
- ” sustainable systems*
- ” optimization of investment*
- ” ... (innovation, expertise, etc.) ...*

Global Harmonisation of Standards, Test procedures and Certification

➤ **Standards** →

*As defined by ISO: “document that provides requirements, specifications, guidelines or characteristics that can be used consistently to ensure that materials, processes and services are fit for their purpose”.....
.... and CEM adds: “standards are created by bringing together all interested parties such as manufacturers, consumers and regulators of a particular material, product, process or service”*

➤ **Test procedures** →

A test is a procedure for critical evaluation

➤ **Certification** →

The provision by an independent body of written assurance (a certificate) that the product, service or system in question meets specific requirements



Certificate ENAMA

Certificate N. 03.061

*Awarded to Maschio Gaspardo S.p.A.
Via Marcello, 73 - 35011 Campodarsego (PD) - Italy*

Rome, 2008/11/27

(Valid until five years or until reference regulations are altered)

Rotary Harrow

DM Rapido 3000

*(extensions: DM Rapido 4000, DM Rapido 3500, DM 3000, DM 3500,
DM 4000, DM Rapido 4000 combi, DM Rapido 3500 combi, DM
Rapido3000 combi, DM 3000 combi, DM 3500 combi, DM 4000 combi)*

*conforms to the requirements of safety of ENAMA specifications
category: 03.01 Soil tillage machines - rev. 2.3 - 2008/04/01 and
of performance of ENAMA specifications cat. 03 rev.2.1 -
September 2003.*

The Director

The President

Present certificate validity is subject to periodic surveillance and check in conformity with the modality of ENAMA contract.

ENAMA - ENTE NAZIONALE PER LA MECCANIZZAZIONE AGRICOLA - ITALIAN AGRICULTURAL MECHANISATION BODY
Via Venafro, 5 - 00158 - Rome - ITALY

International Cooperation



International Cooperation



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

International Cooperation



Organization for Economic
Cooperation and Development

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

Sustainable system: Bioenergy


- ✓ *Promotion and improvement of sustainable production of bioenergy from agriculture*
- ✓ *Contribution to a promotion of practices that will reduce negative environmental impacts and improvement the economic and social contribution of an increasing bioenergy production*

Sustainable system: Bioenergy


Enama, in the field of Biomass and agricultural energy, promotes the development of energy crop machines, the implementation of a certification system of small and large plants and biofuels

CERTIFICATION ENPLUS

ENPLUS CERTIFICATE CERTIFICATO ENPLUS



ENTE NAZIONALE PER LA
MECCANIZZAZIONE AGRICOLA



ENAMA
Ente Nazionale per la Meccanizzazione Agricola
Via Venezia, 5 - 00159 ROMA (ITALIA)
Ph. +39 06 408.600.30 / +39 06 408.600.27
Fax +39 06 407.626.4
www.enama.it / info@enama.it
P.Iva 0636731002
Cod.Fisc. 96391530689

ID-Nr.: IT 302

REGISTRAZIONE ENAMA N° / ENAMA REGISTRATION N°002 - IT302

Si certifica che il pellet di legno per riscaldamento domestico distribuito da:

It is certified that the Wood Pellet for Heating Purposes traded by:

ABELLON ENERGY ITALY S.r.l

Viale L. Majno, 26 - 20129 MILANO - ITALY

Confezionato nello stabilimento di:

Bagged into the plant of:

COLELLA INDUSTRIA S.p.A

Via delle Repubbliche Marinare, 40 - 80147 NAPOLI - ITALY

Commercializzato con i marchi commerciali:

Vedasi Allegato 1 - Il presente certificato non è da ritenersi valido se non accompagnato dal relativo Allegato


Marketed with the trademarks:
See Annex 1 - This certificate is not valid without the relative Annex

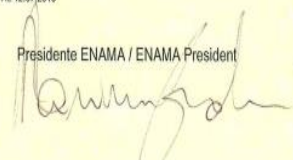
È conforme ai requisiti indicati nel "Manuale per la certificazione ENplus del pellet di legno da riscaldamento" Rev. ITA 2.0 - Aprile 2013, basato sulle norme europee UNI EN 14961-2: 2011 e UNI EN 15234-2: 2012, redatto dall'European Pellet Council (EPC), e risponde alla

classe di qualità A1

Meets the requirements of the "Handbook for the certification of wood pellets for heating purposes" Rev. ITA 2.0 - April 2013 based on the European Standards: UNI EN 14961-2: 2011 and UNI EN 15234-2: 2012, drawn up by European Pellet Council (EPC) and conforms to the A1 quality class.


DATA PRIMA EMISSIONE / FIRST ISSUE DATE 12.07.2013
VALIDO FINO AL / VALID UNTIL 12.07.2016


Direttore ENAMA / ENAMA Director



Presidente ENAMA / ENAMA President

La validità del presente certificato è subordinata alla sorveglianza periodica. Il certificato può essere sospeso o revocato in caso di inadempimento accertato da Enama. Il presente certificato è stato rilasciato in ottemperanza al contratto di cooperazione tra AIEI - Associazione Italiana Energie Agroforestali, detentrica della licenza ENplus per l'Italia e l'ente di certificazione ENAMA in adempimento ai requisiti indicati nel manuale sulla certificazione di pellet di legno ad uso energetico redatto dall'European Pellet Council (EPC).
Present certificate validity is subjected to periodical surveillance. The certificate can be suspended and withdrawn at any time in the event of non fulfilment ascertained by Enama. Present certificate is issued in compliance with the cooperation Agreement between Enama and AIEI - Agroforestry Energy Italian Association, holder in Italy of the Enplus license in order to fulfil the requirements of the Handbook for the certification of wood pellets for heating purposes, drawn up by European Pellet Council (EPC).

ENPLUS CERTIFICATE CERTIFICATO ENPLUS



ENTE NAZIONALE PER LA
MECCANIZZAZIONE AGRICOLA



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Allegato 1 al certificato ENplus / Annex 1 certificate

Elenco dei marchi commerciali
Trademark list

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Viale L. Majno, 26 - 20129 MILANO - ITALY


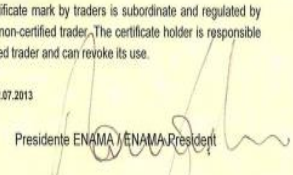
È commercializzato con i seguenti marchi commerciali:
Is marketed with the trademarks:

- PELLEJO PLUS;
- MIO PELLET;
- BIOFOCUS;
- BIO CANADESE.

La concessione d'uso del marchio e del numero identificativo da parte di rivenditori è subordinata e regolata da specifici contratti tra il titolare del certificato e il rivenditore che ne usufruisce. Il titolare del certificato è responsabile del corretto uso del marchio da parte del rivenditore e può revocarne l'uso.

The grant of the use of identification number and/or certificate mark by traders is subordinate and regulated by specific contracts between the certificate holder and the non-certified trader. The certificate holder is responsible of the correct use of the certificate mark by the non-certified trader and can revoke its use.

ROMA, 12.07.2013

 
Direttore ENAMA / ENAMA Director Presidente ENAMA / ENAMA President

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Optimization of investment

Custom hiring of Farm machinery

Through custom hiring of agricultural machinery, even small and medium farmers have been able to get the benefit of agricultural mechanization

It's a better way in order to provide affordable farm machinery to small and marginal farmers and in areas where farm labour is scarce

Optimization of investment

Custom hiring of Farm machinery

The fees of custom hiring for the farmers in Italy

Agricultural mechanization	Fees (€/ha)
Ploughing	124,60/379,10
Mowing	43,30
Milling	124,60
Irrigation	29,05
Seeding	45,40/116,80
Herbicide treatment	33,35/45,40

Optimization of investment

Custom hiring of Farm machinery

Feeds	Prices*
Milk	42,50 (€/hl)
Soft wheat	191,22 (€/ton)
Healing Herb	227,50 (€/ton)
Grain corn	189,04 (€/ton)

* Medium prices - August 2014 - ISMEA

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>

Email address to contact ENAMA:

sandro.liberatori@enama.it

natascia.maisano@enama.it