

Agricultural Industry Electronics Foundation AEF

An Initiative of Agricultural Industry to foster Electronic Standards

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Chairman AEF





Topics

- Why did Ag Industry found an organisation for electronics?
- AEF organisation and objectives
- North American aspects
- Project teams and project scope
- Future

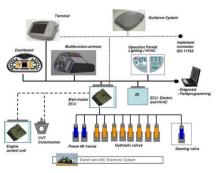






Electronic in Ag machinery --- last 20 years

- Control of mechanical systems
- Operator Control Interface
- Control Network
- Automatic Control











Electronic in Ag machinery --- next 20 years

Communication between coupled Machines
 Control and Data Communication Interface
 'ISOBUS' (ISO 11783)



- Communication Machine to Management Systems
- Communication Machine to Machine in Fleets
- *Electric Power* (HighVoltage)









Electronic in Ag machinery --- next 20 years



Agricultural Machinery Manufacturers have to communicate and to cooperate to make electronic interfaces compatible, reliable and beneficial for the customer





Agricultural *Industry* Electronics Foundation



- Founded: 28. Oktober 2008
- Initiative of agricultural manufacturer companies and their associations
- Registered as e.V. in Frankfurt, Germany

International organisation for implementation of standards in electronic systems in agricultural machinery



Foundation Members = Funding Members = Steering Committee



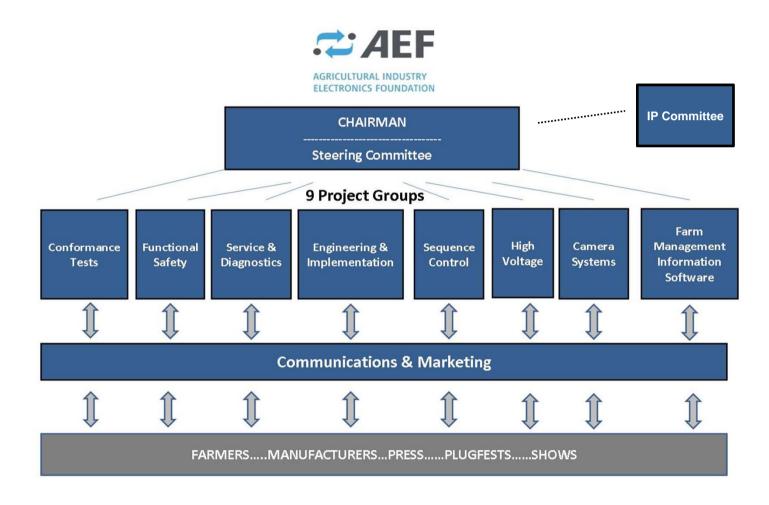
General Members: more than 140 Members



Machine manufacturer: 26
System manufacturer: 23
Supplier: 25
Software Provider: 6
Others: 34











AEF – short History

2008 2011 2012

Small membership No products



Founder Member Contribution

>140 members
Multiple Product
development almost
completed





Service & Diagnostics
database launched
Conformance test launched
AEF require some full time
"employees"

- Founder Member Contribution
- General Member Service Charge
- Database License fee
- Conformance test license fee
- Sales of guideline documents to non members





AEF does no standardization work but prepare technical concept and functionality

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ISO committees do formal standardization



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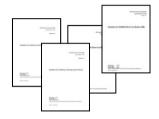
AEF takes care for full implementation of formal standards according to industry and their business processes





AEF – Service for Members

 Industry aligned Guidelines for agricultural industry how to implement electronic standards for Marketing, Service, Engineering, Safety



 Organisation of international and industry wide cross Cooperation: e.g. Engineering 'Plugfests'



International test and Certification processes











Information Platform for dealers, service, customers:
 AEF ISOBUS database



Reconciliation of IP and patents for industry standards

AEF – North American Aspects

- Engineering Organisation of AEF is well established in North America:
 e.g. project team E&I ,vice team leader'; NTTL plugfest
- Marketing and Communication of AEF is not well established in North America
- South America is a growing market for electronic applications in Ag machinery expecting support from established markets like NA or EU; closer relations between South America and North America need a good representation of AEF in USA
- What is essential in Ag Industry Electronics in North America in the next future and is not covered by AEF?
- What should AEF provide for North America especially?

We need your involvement (!)

- Different users (customers) and markets different demands different requirements (?)
- Networking to cover complex subjects
- Worldwide compatibility of solutions

More Information:

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Thank you very much for your attention

