

## Session 3: Harmonized test methods for PAE not included in ISO EN 16122 series

### The SPISE Advice: Main goal and the activities done by SPISE TWGs

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#### Introduction

During the 4<sup>th</sup> SPISE workshop held in Lana (Italy) in 2012 it was again underlined the gap of harmonized standards necessary to fulfill the requirements of the art 8 of the SUD Directive and allow Member States to inspect the functionality of all type of Pesticide Application Equipment (PAE) in an appropriate and harmonized way. In order to try to solve that gap was decided to establish inside the SPISE community several Technical Working Groups (SPISE TWGs) with the goal to produce specific SPISE Advice on those topic and was ask for voluntaries to work inside of these SPISE TWGs. The SPISE TWGs established at that time were seven with the aim to develop SPISE Advices on those items\_ related to the inspection of the PAE - considered of main importance for their diffuse presence in EU or for their environmental impact - not yet covered by the harmonized standards ( ISO 16122 series) or for which were a need of clarification to improve the necessary harmonization of this activity. SPISE advices describe a procedure which *is not mandatory but can be voluntarily adopted* in the PAE functional inspection activities made by the national authorized workshops.

After several SPISE TWGs meetings (in total have made from 2013 till now eleven TWGs meetings hosted by different Institutions working on that Topic in EU- fig.1) SPISE community has decided to increase the number of TWGs to sixteen in order to cover all the main PAE in use in EU ( tab 1).

**From 2013 - 11 SPISE TWGs meetings have been held**

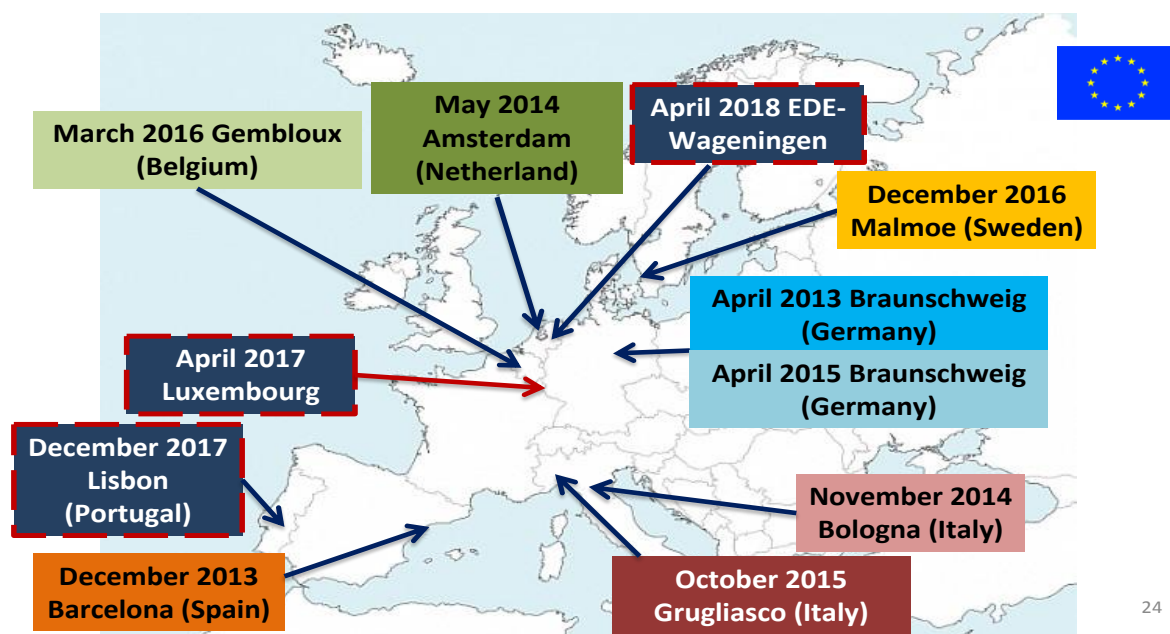


Figure 1 – The SPISE Technical Working Group (TWGs) meetings held from 2013 till now

- **TWG 1: *What to be considered when you buy a sprayer*** (Chairmen: E. Gil ; C. Schulze – Stentrop)
- **TWG 2: *Definition of a common risk assessment procedure for PAE to be exempted from the inspection*** (Chairmen: B. Huyghebaert, N. Bjugstad, J. Wegener)
- **TWG 3: *Practical implementation of sprayer inspection*** (Chairmen: J.P. Douzals; V. Polvéche)
- **TWG 4: *Quality assurance for workshop activities*** (Chairmen: J. Kole; P. Harasta)
- **TWG 5: *Training material*** (Chairmen: E. Nilsson; H. Kramer; H. Wehmann)
- **TWG 6: *Sprayer adjustment*** (Chairmen: P. Balsari; J. Lagenakens; A. Herbst)
- **TWG 7: *Train Application – State of the art and parameters to be inspected*** (Chairmen: J. Kole; P.Balsari; H. Kramer)
- **TWG 8: *Dusters - State of the art and parameters to be inspected*** (Chairmen:P.Balsari; E. Gil)
- **TWG 9: *Microgranulators - State of the art and parameters to be inspected*** (Chairmen: T. Bals; J. Kole)
- **TWG 10: *Soil fumigation equipment - State of the art and parameters to be inspected*** (Chairmen: B. Huyghebaert; J. Kole)
- **TWG 11: *Foggers and LVM*** (Chairmen: T. Bals; J. Kole)
- **TWG 12: *PAE for post harvest treatment*** (Chairmen: E. Nilsson; J. Kole; P. Balsari; B. Huyghebaert; E. Gil; F. Solanelles)
- **TWG 13: *Seed Treatment Equipment*** Chairmen: E. Nilsson; H.-J. Osteroth)
- **TWG 14: *Wiper applicators*** (Chairmen: P. Balsari; E. Gil)
- **TWG 15: *PAE “with compressor tanks” for experimental plot application*** (Chairmen: J. Kole; E. Nilsson)
- **TWG 16: *PAE with CDA atomizer*** (Chairmen: ( J. Kole; T. Bals)

25

Table 1- The sixteen technical working groups established inside the SPISE community in order to produce SPISE Advices for those PAE not yet covered by harmonized standards or for which were a need of clarification to improve the necessary harmonization of the PAE inspection activity. (In red the TWGs that has been dismantled because of the Advice already produced)

## The activities done

Prior to the coming into force of the SUD Directive the TWGs activities has been mainly concentrated on the PAE Adjustment made at the workshop as an important, also if not mandatory, activity to be done in addition to the functional inspection ones in order to guarantee a more efficient and environmental respecting pesticide application. Thanks to the more than valuable and voluntary activities made by the SPISE TWGs Chairmen and the great support of a group of voluntaries of the SPISE community, already in May 2015 the first SPISE Advice about *how to make the field crop sprayers’ adjustment at the workshop* was produced. After that additional three SPISE Advice has been produced ( fig.2): *Advice for bush and tree crops sprayer adjustment, Advice for functional inspection of special spraying trains and other vehicles for chemical weed control on railways and public road, Advice for inspector’s training* ,that have been presented also at SPISE 6<sup>th</sup> Workshop in Barcelona ( 2016).

Always following the SUD Directive requirements and the need of MS to have indication about the criteria to be mentioned/used in their National Action Plan for the exemption of same PAE from the mandatory periodical functional control, the SPISE TWG 2 have recently end to realize the Advice on “*Common risk assessment procedure for PAE to be exempted from the inspections*” that will be published by the end of this year and presented during this SPISE 7<sup>th</sup> Workshop.

Also following the suggestion of the EU Commission DG Sante F the SPISE WG in March 2017 has send a letter to CEN TC 144 General Director underling the necessity to have additional standards in the EN 16122 series concerning further “minor” PAE . In this letter were also mentioned the following priority in terms of PAE necessary to have indication about how to make their functional inspection: Dusters; Micro granulators; Soil fumigation equipment; Foggers and LVA equipment; PAE for seed treatment

and post-harvest treatments; Wiper applicators; PAE with rotary atomizers; PAE for experimental plot application.

All the advice concerning the functional inspection of these types of PAE will be presented by the related TWGs Chairmen during this SPISE 7<sup>th</sup> Workshop.

Some of them are already in a final version and will be soon published and freely downloaded, as for all the published Advice, from the JKI website:

<http://spise.julius-kuehn.de/>

It is expected that all the activities in charge of the present established SPISE TWGs will be finalized by the end of 2020.



28

Fig.2 : The SPISE Advices already produced

## Conclusion

Four SPISE Advices have been already prepared by the voluntary and more than plausible activities done by the SPISE TWGs, two will be available by the end of 2018 and several more between 2019 and 2020. All the SPISE Advice can be freely downloaded at website: <http://spise.julius-kuehn.de/>

SPISE WG has asked the Commission DG Santé F for supporting the translation of the SPISE Advice in MS language by the SUD Working Group Members.

The SPISE Community hopes that thanks to use of these Advices, MS workshops will be able to fulfil the SUD art 8 requirements in a more harmonized way as long as EN harmonized standards will be not available. In that sense during the CEN TC144 meeting of 27-28 November 2017 where the content of SPISE letter addressed to CEN were examined after a SPISE WG presentation, CEN/TC 144 at unanimity has taken the following resolution (n°637/2017): *CEN/TC144 thanks SPISE for their initiative and invites Members bodies to provide NWI proposal to CEN TC144 in line with the priority presented during the meeting.*

Following the content of this resolution two New Working Item (NWI) proposals will be soon presented: one related to the functional requirements for brand new dusters the second one related to the new micro granulators. As soon this NWI will be accepted an additional NWI proposal will be made concerning the methods and requirements for the functional inspections of this type of PAE in use in EU. In both cases the SPISE Advices already defined for these two types of PAE will be used as base for the development of these new EN Standards.

## References

<http://spise.julius-kuehn.de/>

EN ISO 16122-1 (2015) - Agricultural and forestry machinery - Inspection of sprayers in use - Part 1: General

Directive 2009/128/EC of the European Parliament and of the Council of 21 October 2009 establishing a framework for Community action to achieve the sustainable use of pesticides. <http://eur-lex.europa.eu/eli/dir/2009/128/2009-11-25>