INTAS

2nd National Focal Point meeting

21 June 2018

Co-funded by the Horizon 2020 programme of the European Union

Name Surname
XX–05–2018
Brussels

TRANSFORMERS FANS

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Meeting agenda

1. INTAS presentation
2. State of play
3. Outline of WP4 testing methodologies
4. Questions to be discussed
5. Concluding remarks
6. Testing pilots (separate powerpoint)

Starting point

The need for the INTAS project arises from the difficulty that national Market Surveillance Authorities (MSAs) and market actors face in establishing and verifying compliance with energy performance requirements for large industrial products subject to requirements of the Ecodesign Directive.

INTAS scope: Power transformers and large fans

The regulations

Power transformers

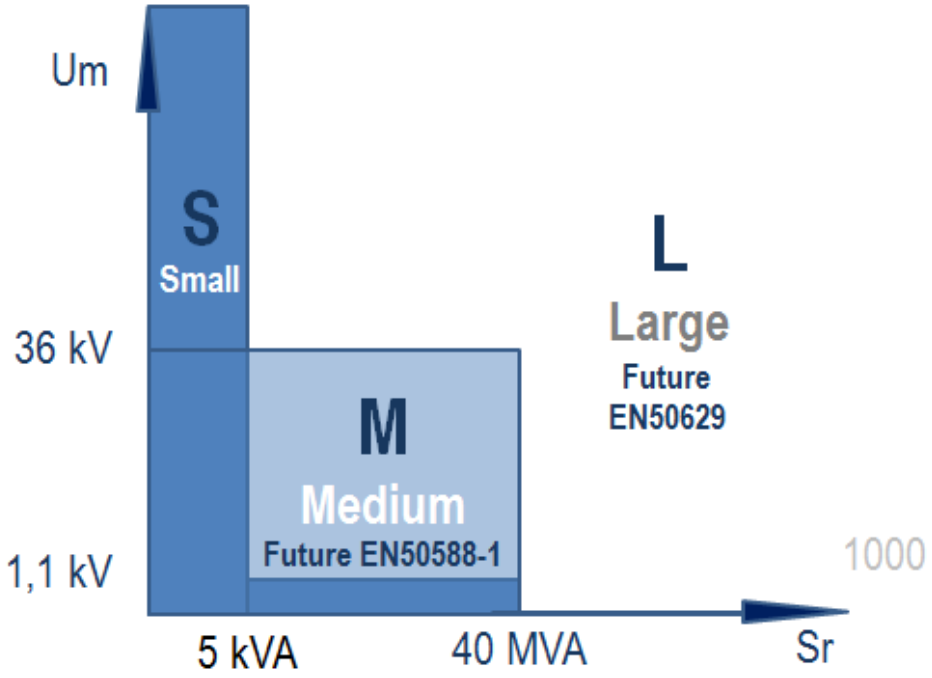
- Regulation EU No. 548/2014
- Review-study: https://transformers.vito.be/planning
- Review-study stakeholder meeting 29 March

Large fans

- Regulation EC No. 327/2011
- Review-study: http://fanreview.eu/
- New scoping standard under way:

  ”Fans – Procedures and methods to determine and evaluate the energy efficiency for the electrical input power range 125 W up to 500 kW”

What are large transformers?



What are large fans?

Large
10-500 kW

Medium
1-10 kW

Small
< 1 kW

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INDUSTRIAL AND TERTIARY PRODUCT TESTING AND APPLICATION OF STANDARDS

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The project aims to 8

- Support European Member State MSAs to deliver compliance for large products, specifically for large fans and transformers
- Support industry to be sure of what their obligations are under the Ecodesign Directive and to deliver compliance in a manner that will be broadly accepted by MSAs
- Foster a common European approach to the delivery and verification of compliance for these products

Content

- INTAS presentation
- Outcome of the 1st NFP meetings
- Outcome of WP3
- Outline of WP4
- Outline of WP6
- Questions to be discussed

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About INTAS

- European project (Horizon 2020 - Energy Efficiency)
- Active from March 2016 to February 2019
- 16 partners
  - 11 national Market Surveillance Authorities (MSAs)
  - 5 cooperating organisations at European level
- Budget: ca. 1,9 million Euros (incl. product testing)

http://www.intas-testing.eu/about-project/team-and-contacts

INTAS key goals

- Support European Member State MSAs deliver compliance for large industrial products:
  - Fans
  - Power transformers
- Support the industry to be sure of what their obligations are under the Ecodesign Directive and to deliver compliance
- Foster a common European approach to the delivery and verification of compliance for these products

Project partners

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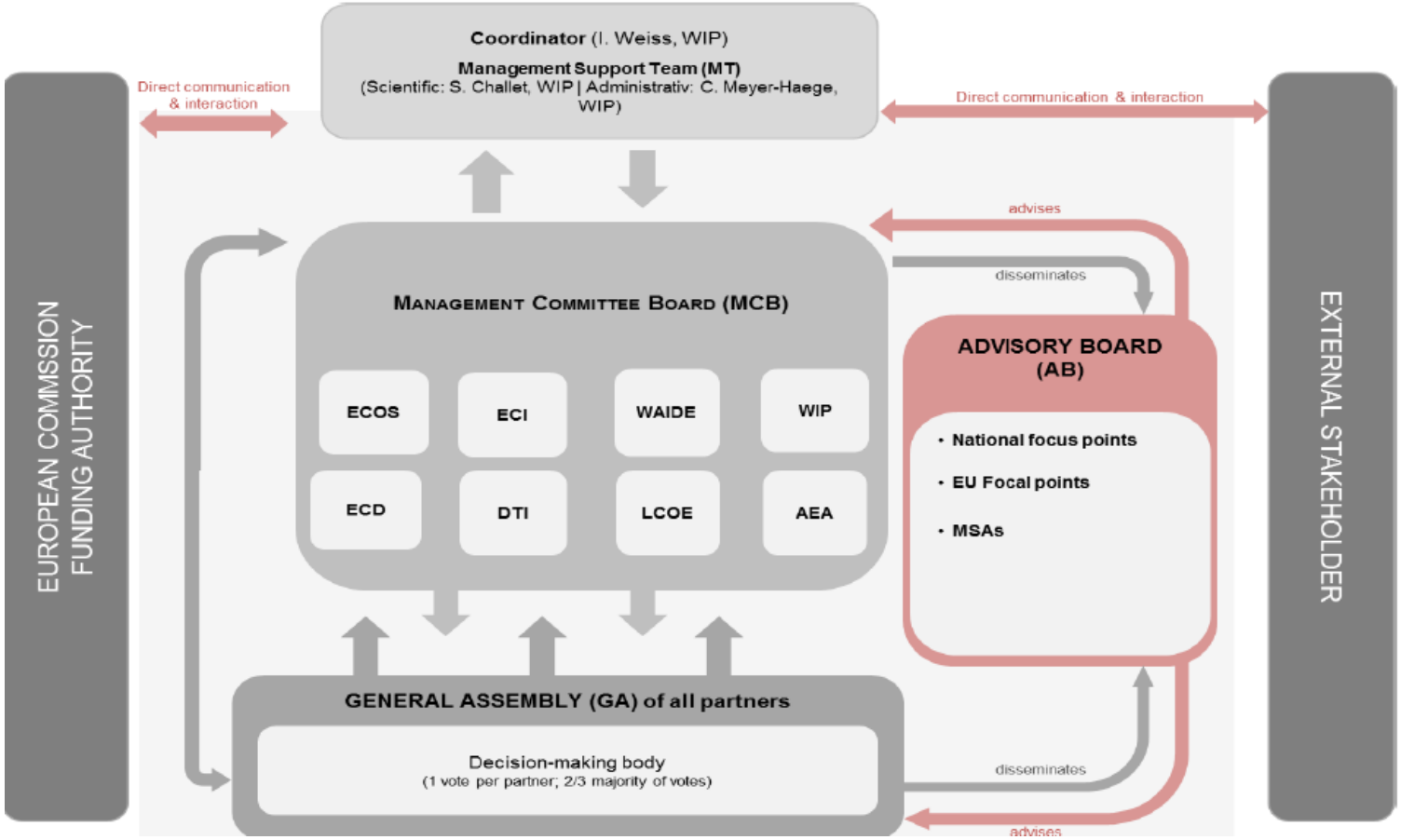
Europe: WIP – Renewable Energies, European Environmental Citizens' Organisation for Standardisation, European Copper Institute, Engineering Consulting and Design, Waide Strategic Efficiency
Austria: Austrian Energy Agency
Belgium: Federal Public Service Health, Food Chain, Safety and Environment
Czech Republic: SEVEn Energy Efficiency Center
Denmark: Danish Technological Institute
Finland: Finnish Safety and Chemicals Agency
Italy: Italian National Agency for New Technologies, Energy and Sustainable Economic Development
Poland: The Polish Foundation for Energy
Portugal: Directorate General of Energy and Geology, Economic and Food Safety Authority
Romania: Romanian Regulatory Authority for Energy
Spain: Foundation for the Promotion of Industrial Innovation

Management structure



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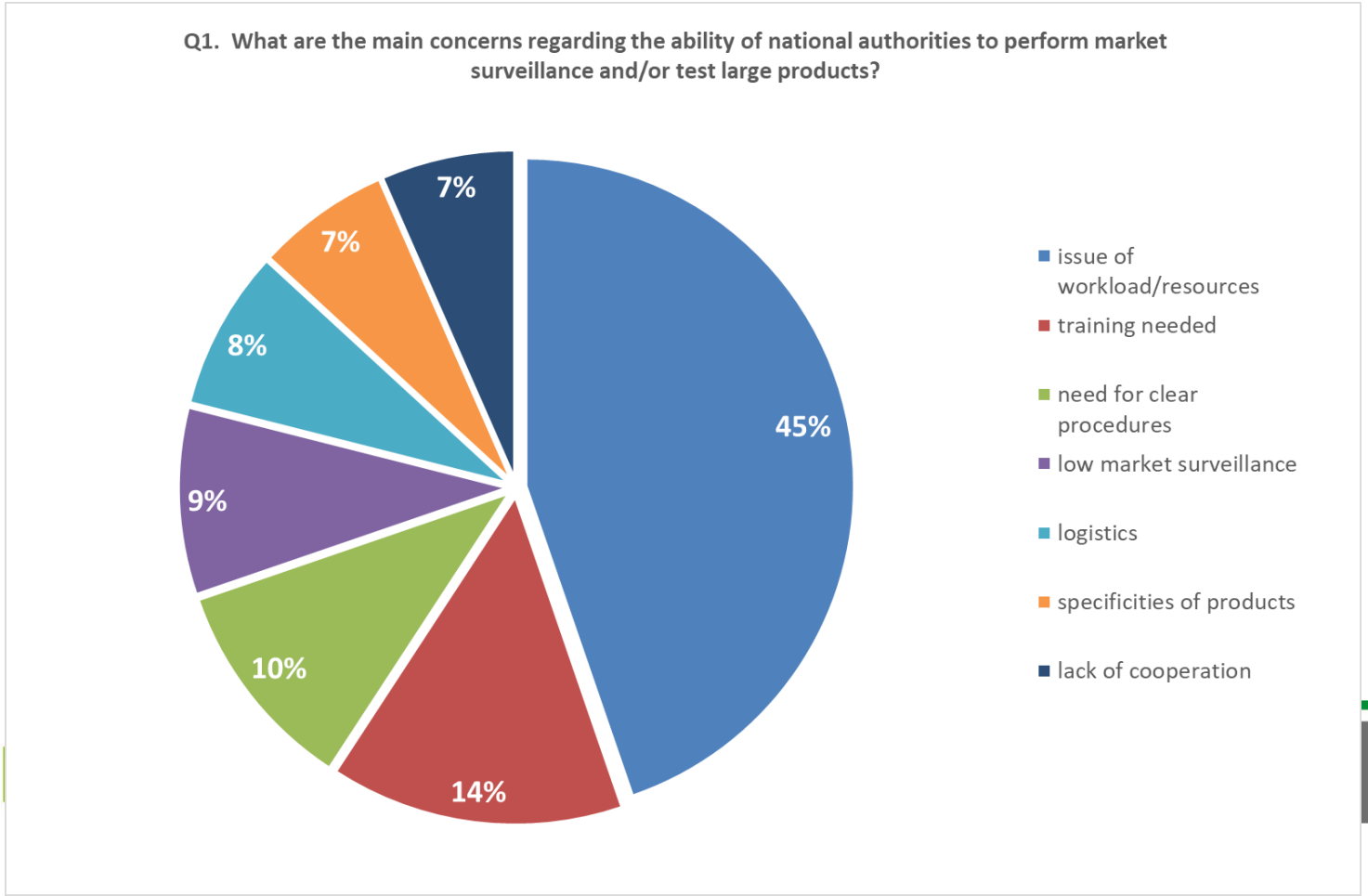
1st NFP meetings

16

- Meetings were organized in 9 member states (DK, IT, ES, RO, PT, AT, CZ, FI and PO)
- 48 stakeholders provided feedback, which was anonymized and translated
- Deliverable 6.3 will be public after the summer

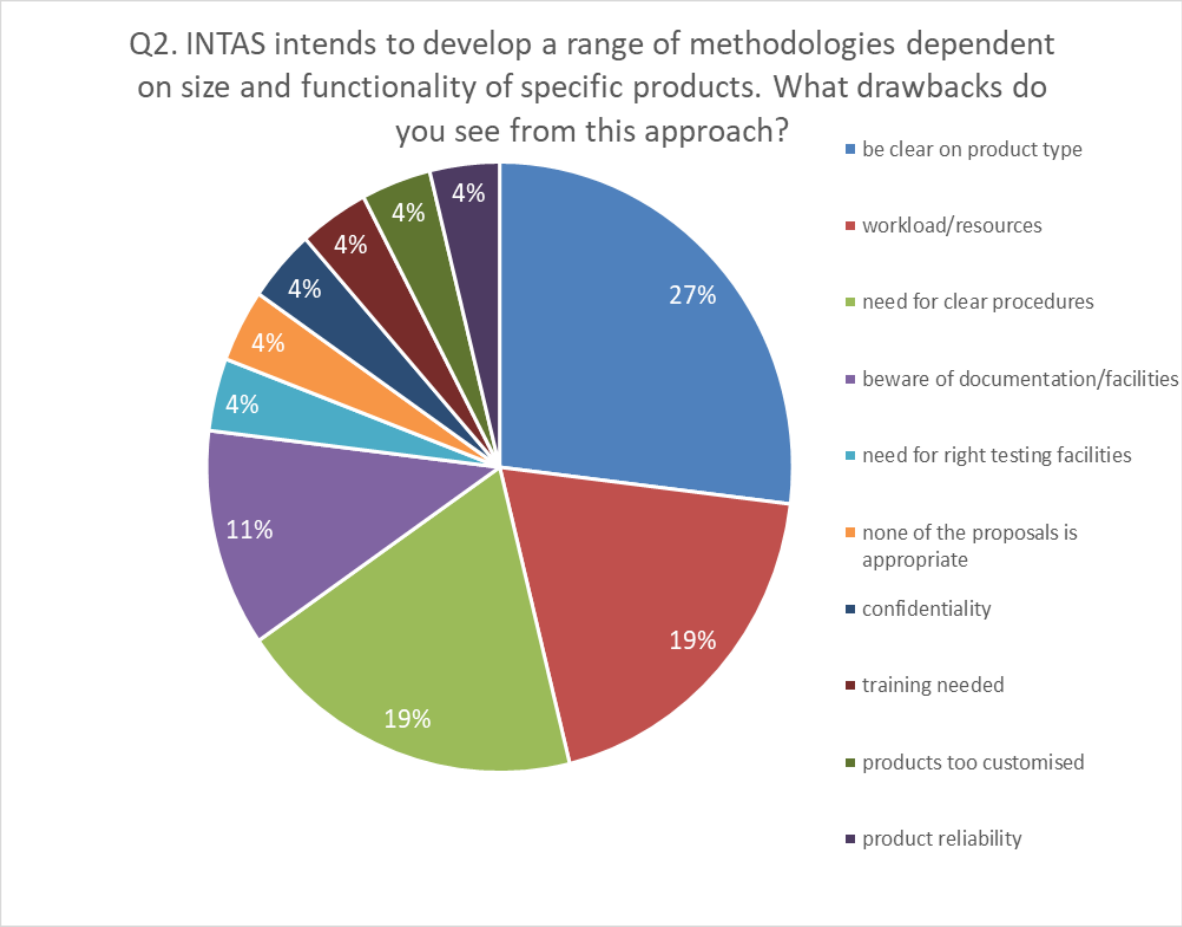
1st NFP meetings

Question 1. What are the main concerns regarding the ability of national authorities to perform market surveillance and/or test large products?



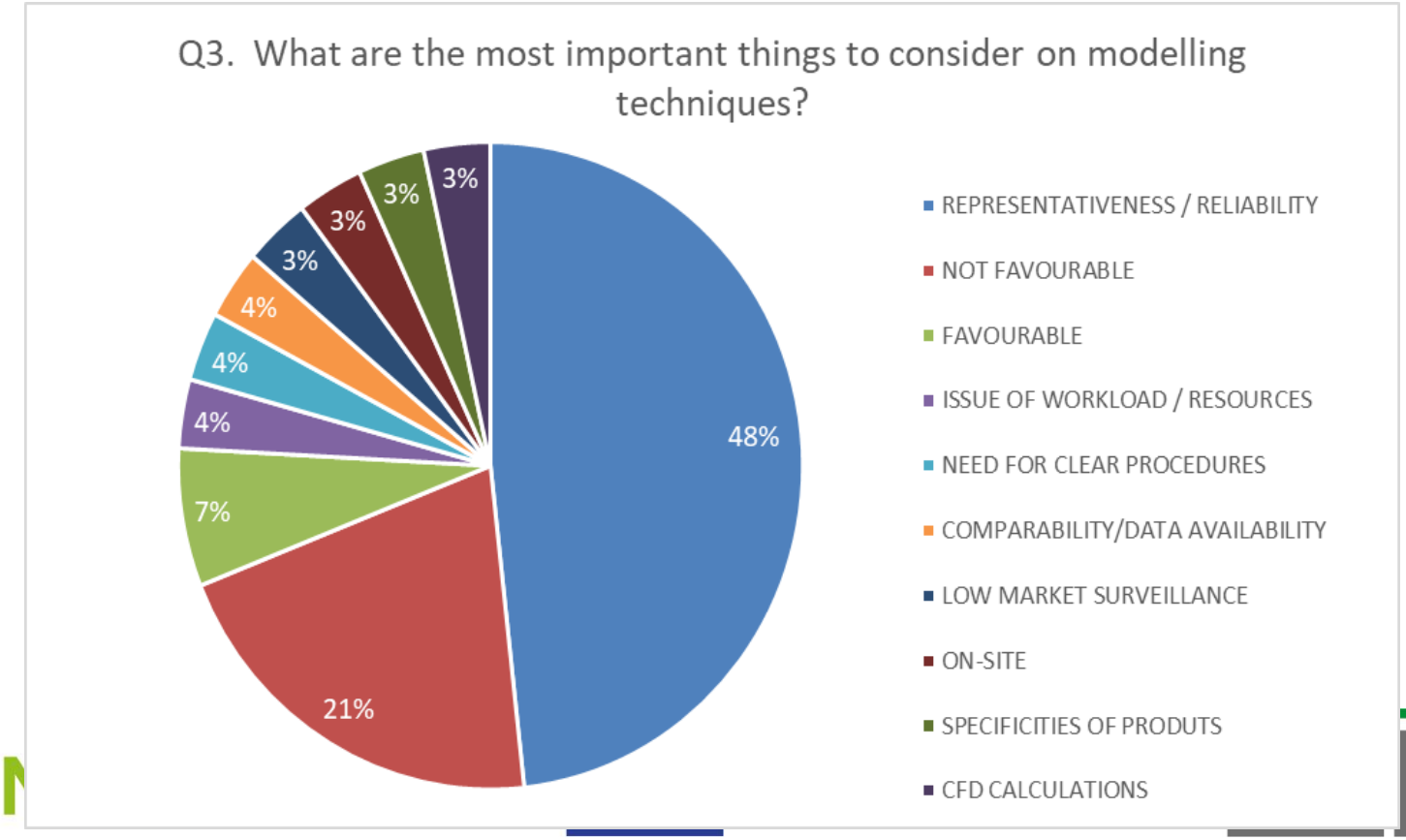
1st NFP meetings

Question 2. INTAS intends to develop a range of methodologies dependent on the size and functionality of specific products (this may include witness testing at manufacturer or on-site, using/rent manufacturer's test facilities, scale model testing or part-load testing of products). What drawbacks, if any, do you see from this approach?



1st NFP meetings

Question 3. It is foreseen that modelling techniques may be used – do you have any experience of this? And what are the most important things we should consider?



1st NFP meetings

Conclusions (1/2)

- The undeniable particularity of performing market surveillance and testing of large products was confirmed by the stakeholders
- Specifically looking at the main concerns regarding the ability of national authorities to perform market surveillance and/or test large products, issues related to workload and resources were by far the most recurrent referring to the lack of financial and human resources, the costs of purchasing products to be tested, transportation, or the unavailability of laboratories. Other obstacles such as the lack of technically skilled staff and low awareness of the requirements, the need for simple and clear procedures, the current low market surveillance of large products impeding the level-playing field, the specificities of these customized products and the related logistic, together with the current lack of cooperation will need to be addressed by INTAS.
- Concerning INTAS intention to develop a range of methodologies dependent on size and functionality of specific products overall stakeholders agree with the approach. The feedback shows a general reluctance towards on-site testing, with a clear preference to testing at manufacturers', and an interest in modelling and part-load testing

1st NFP meetings

Conclusions (2/2)

- Regarding the foreseen use of modelling techniques, the views from stakeholders were mixed. Several manufacturers already have experience on this and believe they can be applicable for fans, but not transformers. Other stakeholders are generally reluctant to their use, due to the lack of precision of the results of these techniques. Consequently, INTAS will therefore need to address aspects such as the representativeness and reliability of the results to evaluate the adequateness of such techniques.
- Although INTAS will not be able to solve all these issues, it is the project intention to propose a compliance assessment methodology that considers the following aspects:
  - It is cost-effective,
  - It is complemented by training and capacity building,
  - It comprises simple and clear procedures,
  - It strengthens the current low market surveillance,
  - It considers the specificities of the products and the logistics of the business models, and
  - It builds up cooperation at different levels.

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Outcome of WP3

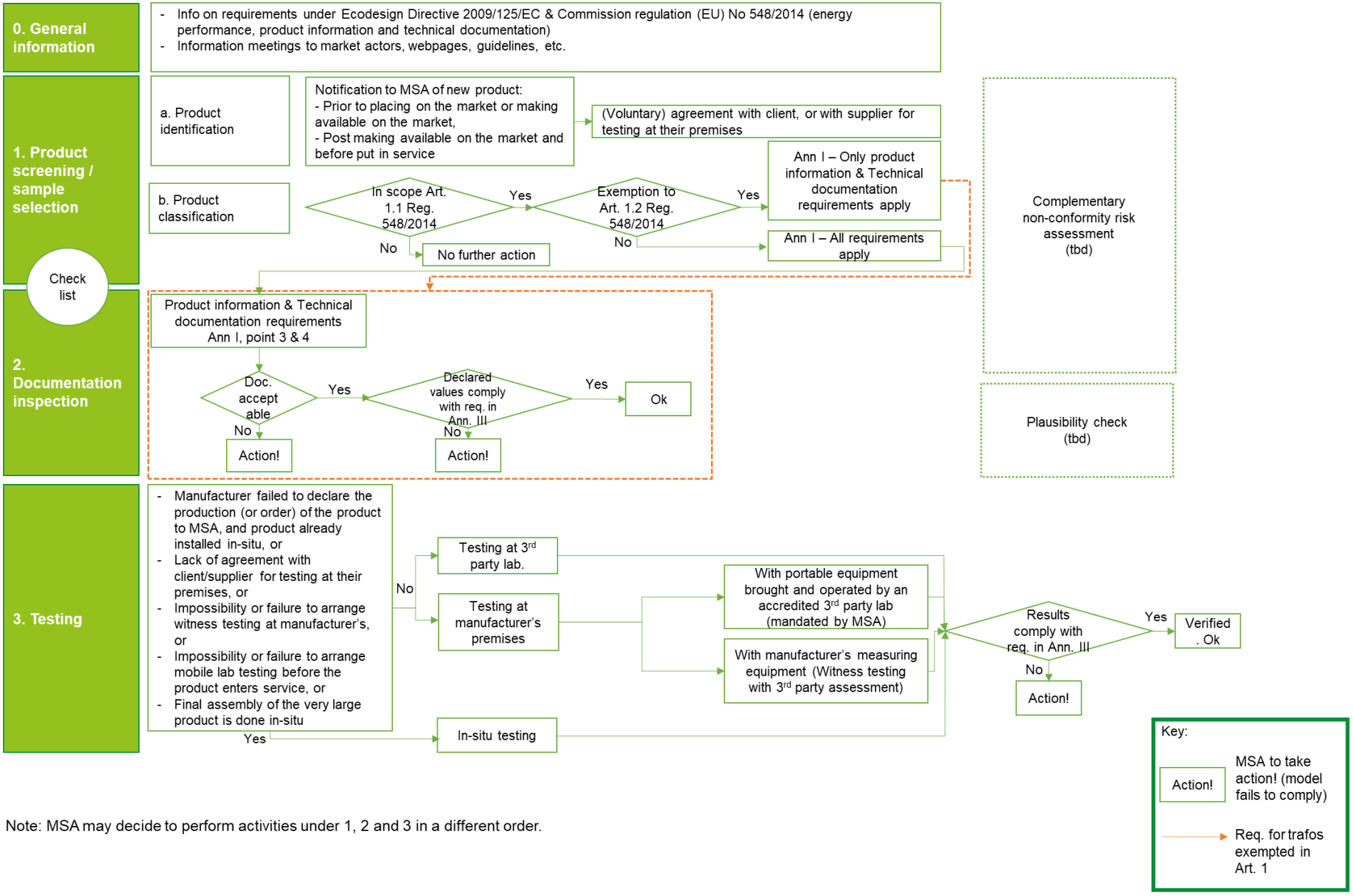
WP3 Defining an effective compliance framework for MSAs and manufacturers

- D3.1 Report on information and additional requirements related to inspection of fans (Confidential)
- D3.2 Report on information and additional requirements related to inspection of transformers (Confidential)
- D3.3 Evaluation of products in each testing type and unit category (Confidential)
- D3.4 & D3.5 Analysis and report on other applicable regulations on fans (Public)
- D3.6 & D3.7 Best practice and experiences of both MSAs and industry regarding testing of fans and transformers (Public)
- D3.8 Report about the screening techniques available for product/supplier targeting (Public)
- D3.9 Graphical flow chart of the methodological process, taking into account all tasks within WP3 (Public)

Outcome of WP3

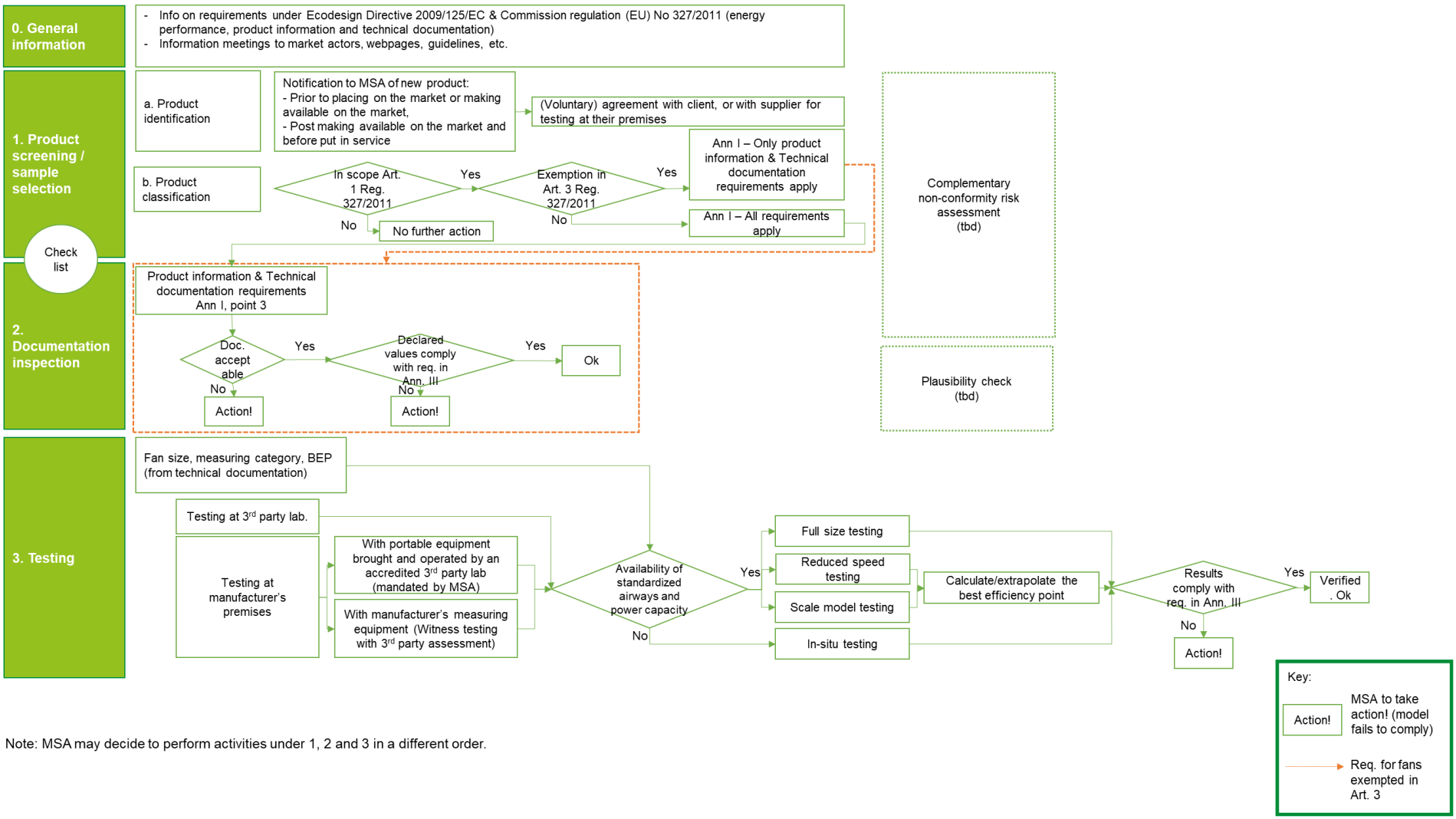
Please note that the methodologies presented in these flowcharts are at an intermediary stage, and are not to be considered final recommendations of the INTAS project. The methodologies will undergo a practical validation phase during which MSAs participating in the INTAS project will assess their applicability. Market actors will also be informed and consulted at a number of National Focal Point meetings organized in Europe. The validation phase will allow for refinements of the methodologies until the end of July 2018. Please visit the INTAS project website for information about the channels available for your inclusion in this process.

Flow chart for verification of compliance of power transformers



Note: MSA may decide to perform activities under 1, 2 and 3 in a different order.

Flow chart for verification of compliance of fans



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Outline of WP4

WP4 Evaluation of compliance assessment methodology

- Task 4.1 & 4.2 Practical evaluation and complete methodology on fans and transformers → **Step-by-step guide for compliance assessment + supporting Toolbox**

Outline of WP4

WP4 Evaluation of compliance assessment methodology

- Task 4.1 & 4.2 Practical evaluation and complete methodology on fans and transformers → **Step-by-step guide for compliance assessment + supporting Toolbox**

Tasks 4.1 & 4.2 The Guide – working texts

This is a public document so it should both target MSA's and Industry

1. Regulation 327/2011 & 548/2014 – What is it all about?
2. Directive 2009/125/EC – What are the manufacturer obligations?
3. Methods for screening for products
4. Methods of selecting products
5. Methods of technical documentation inspection
6. Methods of verification testing
7. Methods for continuous dissemination activities

Task 4.1 & 4.2 The toolbox

Provisional list:

- Spreadsheet for calculation of target efficiency of fans & trafos
- Good conformity assessment procedure
- Performance test report template to be used for witness testing
- Technical documentation: checklist, a guide on scale-model test, reduced speed tests and calculations performed by manufacturers
- Plausibility check of design characteristics (EVIA?)

Outline of WP4

WP4 Evaluation of compliance assessment methodology

- Task 4.3 Evaluation of costs, benefits and new methods of testing & common issues in large product testing
- Task 4.4 Policy recommendations for future regulation on industrial products

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Outline of WP6

WP6 Dissemination and Communication

- Final conference to present the outcomes of the project in Brussels in February 2019
- Possibly, 3rd NFP meetings with conclusions

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Questions for participants

- Looking at the draft methodology proposed in WP3 (flowcharts D3.9)
  - in your view, what are the main obstacles?
  - and the main opportunities?
  - Would it be feasible in your view to set a mandatory notification to MSA when the product has been placed on the market or it is ready to be placed on the market, or it has been installed?
  - Would it be feasible in your view to set a voluntary agreement with client/supplier for testing at their premises?
- Regarding the toolbox to be developed under WP4
  - Are any of the documents listed challenging to find? Which ones?
  - Are you using other documents for compliance verification?

More information

about the INTAS project
and its results:

www.INTAS-testing.eu

Contact to the project coordinator:
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