Overview on H2020 Project INTAS

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

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INTAS partners

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Funded under the Horizon 2020 programme, INTAS will take place between March 2016 and February 2019, involving 16 European partners, among which 11 are national MSAs or cooperating organisations:

- **List of project partners:**

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

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: ***(large) fans*** and transformers

The project aims to

- 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

Scope for fans in INTAS

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Large
10-100 kW

Extra Large
100-500 kW

Medium
1-10 kW

Small
< 1 kW

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Options for compliance verification

- **Documentation (visual) inspections** of nameplates and technical documentation according to the requirements in the respective regulations.
- **Independent 3rd party laboratory testing**, especially for medium sized products according to the scope of the relevant regulations for fans.
- **On-site / in-situ testing** making use of a **movable laboratory to make tests at manufacturer premises or in the place of product installation**. This option was considered for big products or in the case where the transportation of the product to a 3rd party laboratory is (rather) impossible.
- Evaluation of manufacturer testing considered as **witness testing (FAT),** assisted by a MSA, in cases were 3rd party laboratory testing or on-site testing is not feasible.
- Energy performance **estimation and modelling** based on design engineering, computer simulations – scaled model test, reduced speed test

Overview on the evaluation of large fans energy performance

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Case		Test type	Site	Meas. equip.
F1-1		Full-size, real speed, std. airways	Ind. lab	Ind. lab
F1-2		Full-size, real speed, std. airways	Ind. lab	Ind. lab
F1-3		Test using scaling rules	Ind. lab	Ind. lab
		Full-size, modified speed, std. airways	Ind. lab	Ind. lab
F2		Full-size, real speed, std. airways	Manuf. lab	Manuf. lab*
F3		Full-size, real speed, std .airways	Manuf. lab	Ind. Lab (*)
F4		Full-size testing on-site	On-site	Ind. lab
F5		Sub-scale testing, std. airways	Manuf. lab	Manuf. lab *

* Witness test or factory acceptance test (FAT)

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Methodology Flow Chart

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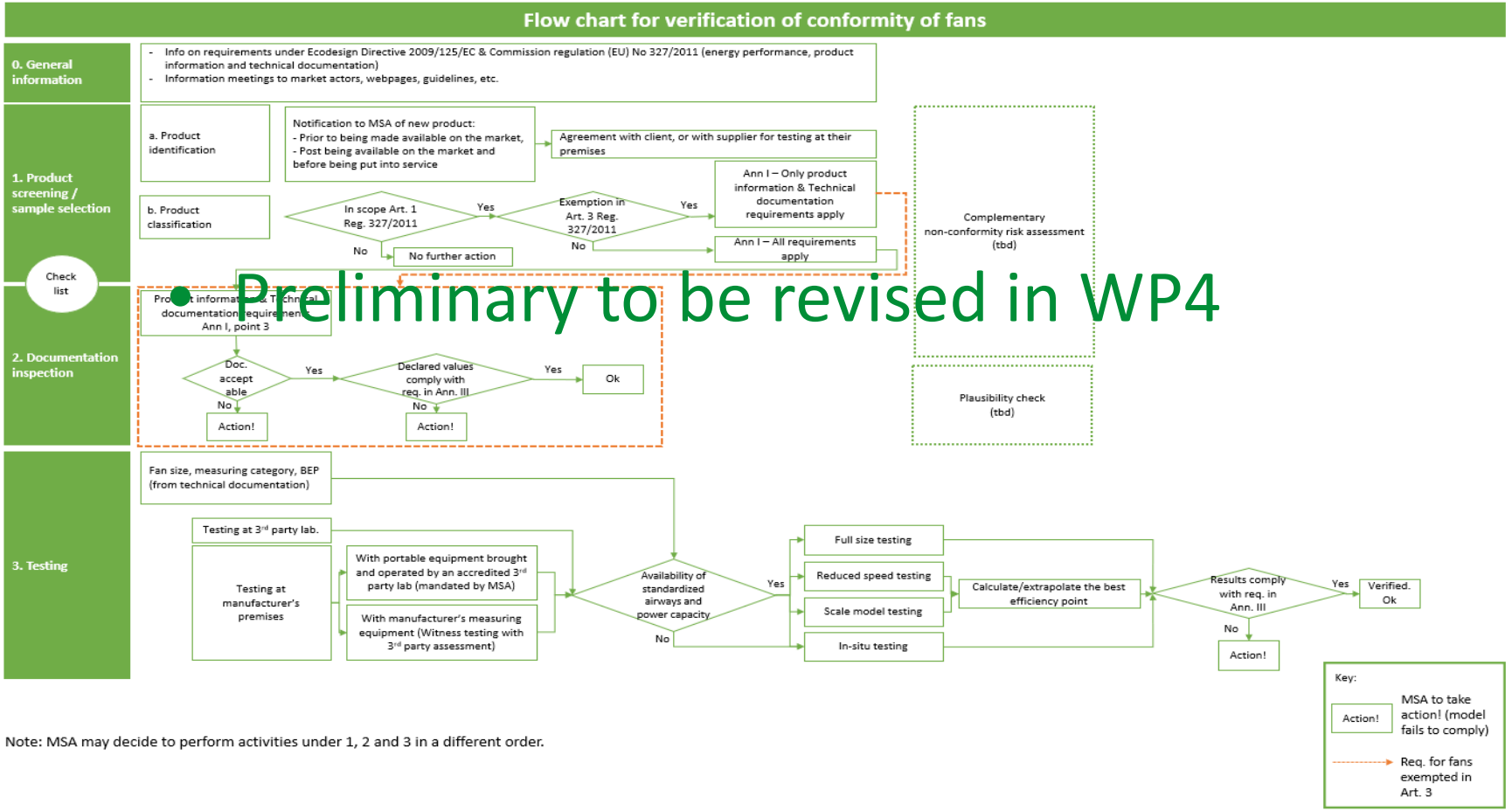

• Preliminary to be revised in WP4

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

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More information

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