



Introduction to the INTAS project



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Brussels – EVIA Market
Surveillance Workshop

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TRANSFORMERS



FANS



About INTAS

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- European project (Horizon 2020 - Energy Efficiency)
- Active from March 2016 to February 2019
- 16 partners
 - 11 national Market Surveillance Authorities (MSAs) or affiliates
 - 5 cooperating organisations at European level
- Budget: ca. 1,9 million Euros (incl. product testing)
- Addresses compliance with Ecodesign regulations that aim to produce 44 TWh/year of energy savings



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INTAS key goals

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



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Range of large products

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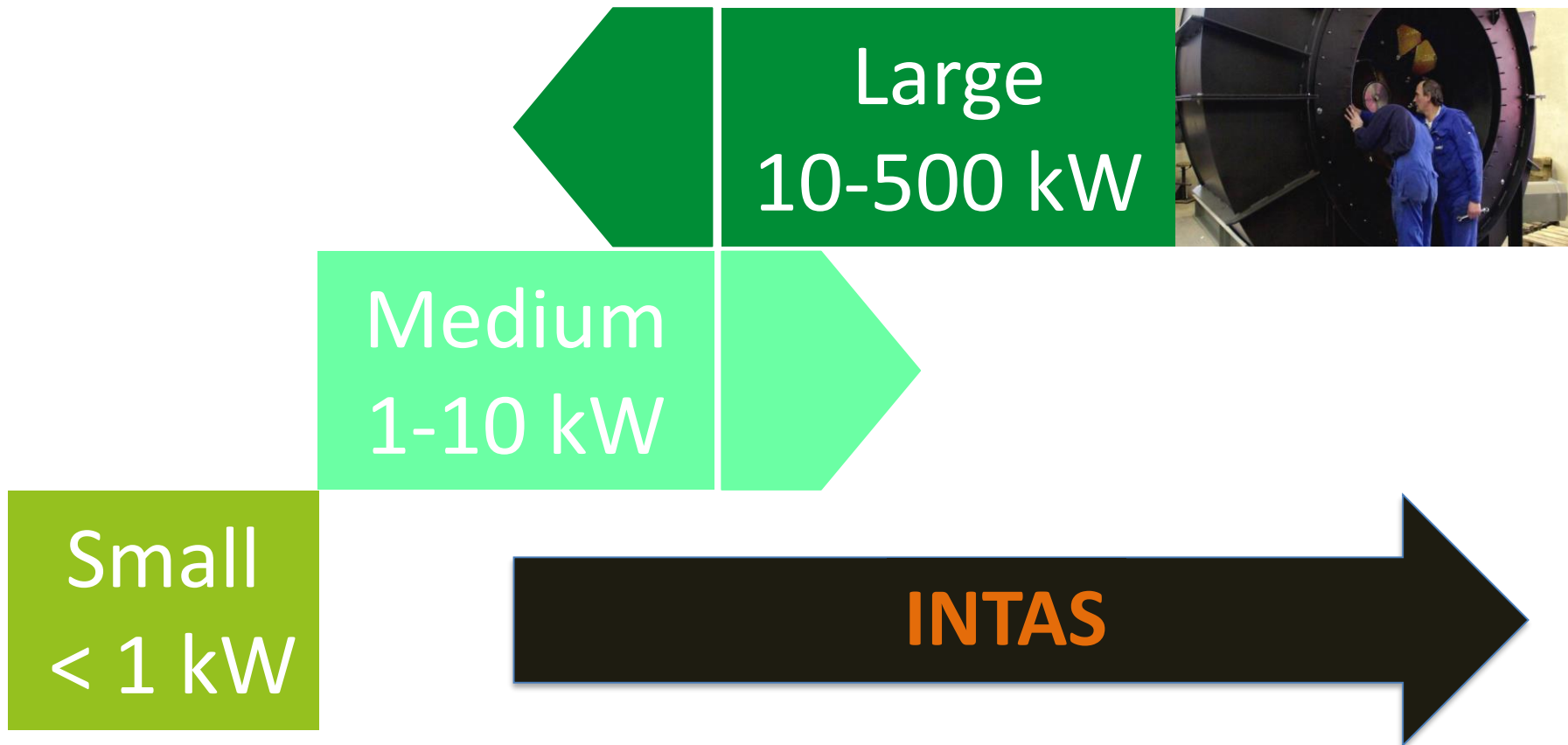
- Power transformers



- Electric fans

What are large fans?

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Some challenges to be tackled:

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- Verification testing needs to be done before they're installed or in-situ testing required although that is problematic for fans – e.g. not testing at B.E. point, interference with airways may impact flow and pressure measurements, etc.
- Removal post installation for the purpose of verification testing incurs high costs and impracticalities
- Difficulties/costs/**impossibility to transport** large products for testing purposes to specific locations
- Lack of common understanding of compliance and **testing procedures** with current technical and legislative prescriptions
- Limited **testing possibilities** for large fans around Europe



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Market surveillance challenges, limits and possibilities for large products

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- Verification procedure
 - Random selection
 - Availability of products (B2B)
- Budget/costs of testing
- Technical competence/knowledge base for the specific products
- Availability of testing facilities
- Accreditation required to be “reliable”



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Work packages

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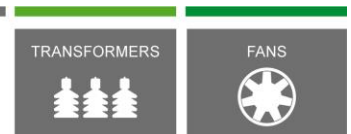
1. Management and coordination
2. Landscape of testing avenues
3. Defining an effective compliance framework for MSAs and manufacturers
4. Evaluation of compliance assessment methodology
5. MSA collaboration and strategic capacity building
6. Dissemination and Communication



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WP2 - Tasks

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- Task 2.1 – Assessment of the EU and global technical standards and legislative framework
- Task 2.2 – Establishment of a database of EU testing laboratories
- Task 2.3 – Report on MSA laboratory selection process
- Task 2.4 – Identification of accreditation bodies and documentation of accreditation processes
- Task 2.5 – Assessment of the market commercial testing practice framework
- Task 2.6 – Assessment of current international and EU practices in Market Surveillance

WP3 - Tasks

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- Task 3.1 - Identification and classification of product types, and the related documentation requirements
- Task 3.2 - Evaluation and testing – the best strategy based on product classification
- Task 3.3 - Links with other legislation – can other legislation be enforced simultaneously to further reduce costs? Assessment of Member State and EU-level legislation
- Task 3.4 - Building collaboration with MSAs and manufacturers – understanding how and when fans and transformers are produced, particularly looking how customised and unique products are procured and delivered
- Task 3.5 - Derivation of screening methodologies for targeting products for compliance assessment



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Plan for fan methodologies

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Y1

WP 2:

Testing landscape
Task 2.1 to Task 2.5

INTAS-partners

Manufacturers/MSAs

Y2

WP 3: Framework

Task 3.1 Checklist
Task 3.2 Methods
Task 3.3 Multiple regulation
Task 3.5 Screening

Developing methods
and testing products
- mainly through
Partners/MSAs

Input to developing
methods

Y3

WP 4: Task 4.1 –
Practical evaluation and
complete methodology
on fans

Desktop evaluation –
no testing
anticipated

Free evaluation
might include
additional testing



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INTAS methodologies (preliminary) to be investigated for fans in task 3.2

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For fans in range **10 to 100 kW** develop and evaluate **different test and plausibility checks** (which may include some on-site checks)

a. Scale model testing: testing a 10 kW model of a fan which is part of a series of fans up to 100 kW. The 10 kW fan can be tested at an independent laboratory, plausibility check and extrapolation/calculation can justify the 100 kW fan is also compliant if the 10 kW fan is

b. Part load testing: testing a fan in a part load operational point and calculate/extrapolate to best efficiency point (still some issues under consideration)

INTAS methodologies (preliminary) to be investigated for fans in Task 3.2

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- **For very large fans 100-500 kW** participate and investigate **witness testing/factory acceptance test** together with inspectors from EPC/end-customer
- **Auditing manufacturer's conformity assessment** (Art. 8 of DIR. 2009/125/EC):
 - Internal Design Control
 - Management system for assessing conformity (as EMAS/ISO 14001)

Publically Published documents

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Deliverable 2.1: Database and report on EN/IEC/ISO technical standards

Document published: 26.10.2016
Lead author of this document: ECD
Project coordinator: WIP



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Horizon 2020 programme
Project acronym: INTAS
Project full name:
Industrial and tertiary product Testing and Application of Standard



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Database and report on EN/IEC/ISO technical standards

Annex A: Power transformers

Document published: 26.10.2016
Lead author of this document: ECD
Project coordinator: WIP



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Database and report on EN/IEC/ISO technical standards

Annex B: Large fans

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The latest can be downloaded from <http://www.intas-testing.eu/project-documents>



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EVIA Engagement

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- INTAS welcomes close cooperation with EVIA
- Including to receive EVIA member feedback and suggestions and thereby maximise the relevance and quality of the work
- It is also to facilitate communication of the project findings and timely discussion
- The project team welcomes the strengthening of communication channels with EVIA members



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More information

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about the INTAS project
and its results:

www.INTAS-testing.eu

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