



EU Environmental Technology Verification pre-programme

The way forward for European Environmental Technology Verification

Pierre Henry

DG Environment
European Commission





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Threats to Human Health

Climate Change

Threats to Biodiversity

Pollution

Degradation
air, water, soil...

Green House
Gasses

Depletion
Resources



Prices do not
reflect costs

Population growth
Spending power

Biased
Information

Fixed
behaviour
of consumers

Unbalanced
Markets

Market
Distortions



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Why ETV?

- “ New greener technologies are needed
 - . to make the EU economy more sustainable
 - . to face global challenges: climate change, resources scarcity, loss of biodiversity
- “ Obstacles on the road to market:
 - . perceived risks, need for costly demonstrations,
 - . conservative attitude of investors or purchasers,
 - . complex permitting procedures
- “ Need for independent and credible information on the performance of environmental technologies = ETV





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ETV customers

- Technology developers and vendors
 - Credible validation of performance claims
 - Access to new markets, facilitation of market entry
 - No need (or less need) for costly demonstrations
 - Improvement of technology
- Technology purchasers and users
 - Sound information to base purchasing policy and decisions
 - Comparison of technologies, benchmarking
- Regulators and policy-makers
 - Better knowledge base for policies and regulations
 - Stimulation of innovation, cost-effective technologies





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ETV objectives

Credibility

Reliable test results, robust procedures

Complete information

Recognition

No need to re-do the tests

Opens up new markets

Flexibility

Different innovations and users needs

Affordability

Value for money, accessible for SMEs





ETV pre-programme

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First large-scale experimentation of ETV in the EU:

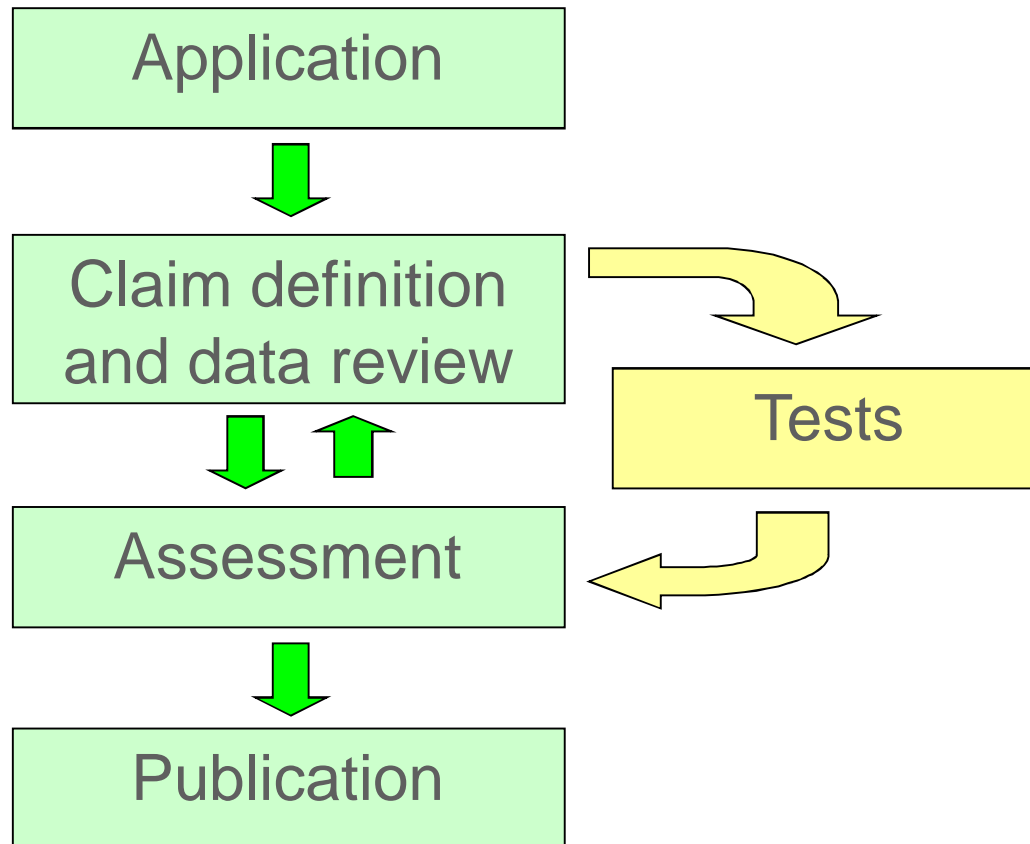
- No specific legal base (funding support by CIP)
- 6 participating countries: CZ, DK, FIN, FR, PL and UK
- Accreditation of Verification Body to ensure competence and recognition
- Evaluation after 3 to 5 years and decision on definitive scheme





Main steps for ETV

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Potential technology areas

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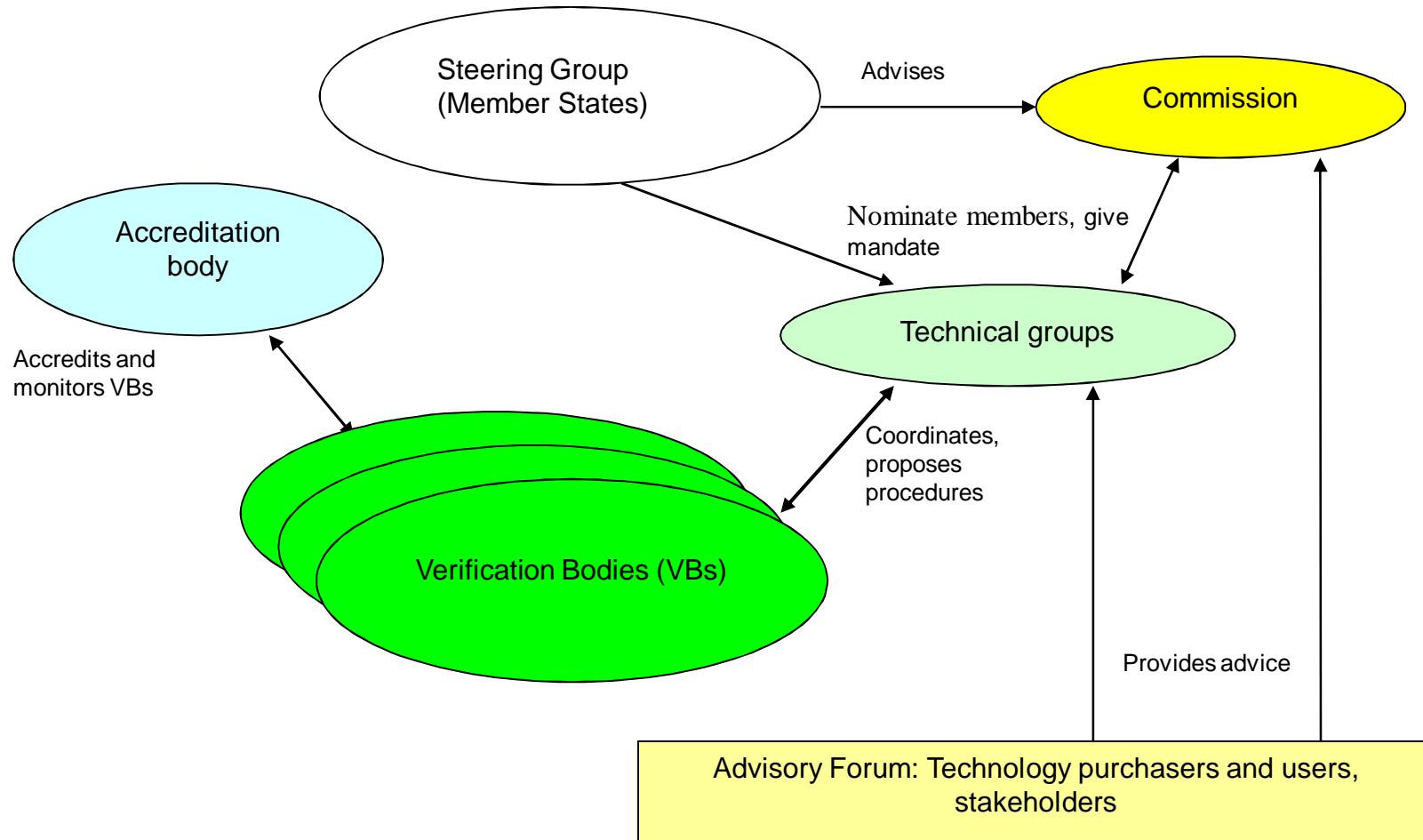
- Water treatment and monitoring
- Soil and groundwater monitoring and remediation
- Cleaner production and processes
- Materials, waste and resources
- Environmental technologies in agriculture
- Air pollution monitoring and abatement
- Energy technologies





EU ETV pre-programme structure

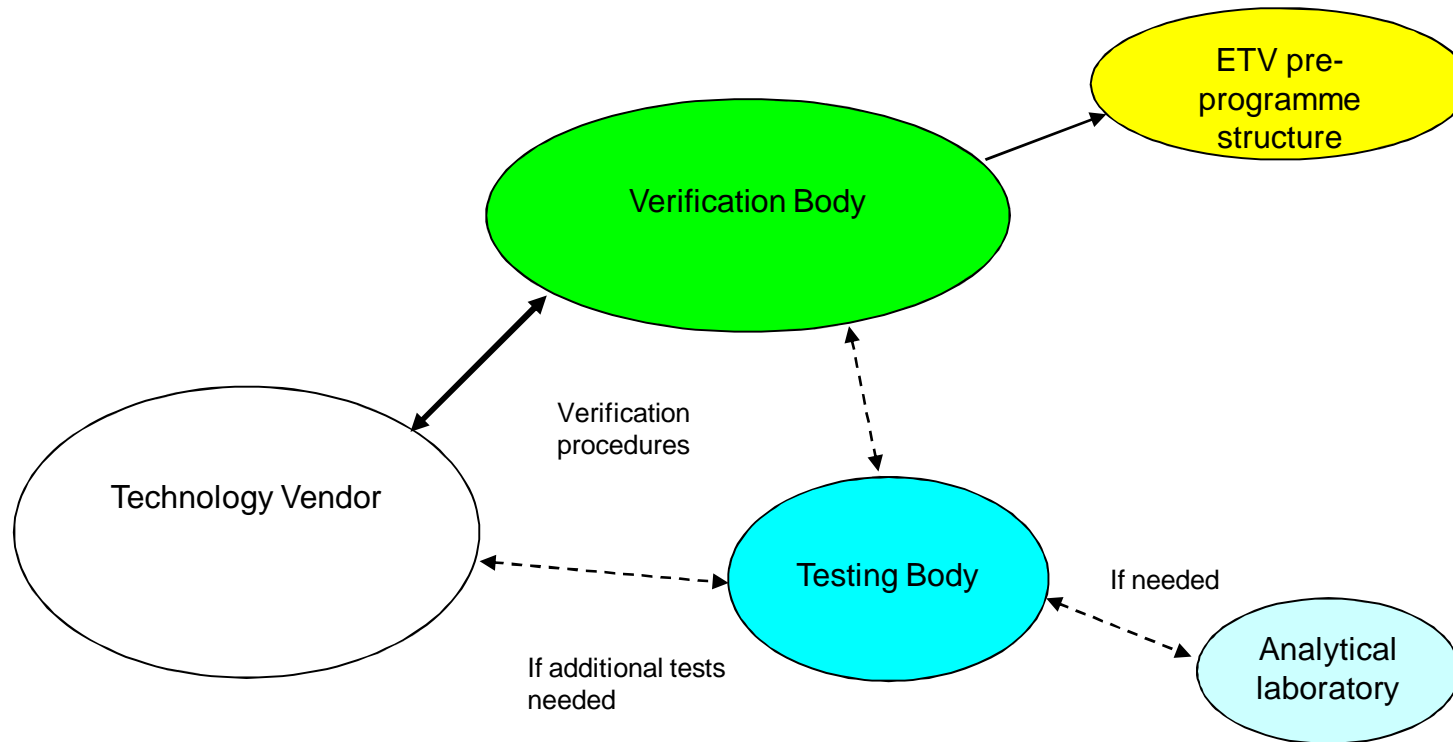
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EU pre-programme for the vendor

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Review of claims

Important to ensure credibility and (some) comparability of results, in support to customers decisions

References per groups of technology, to be taken into account in claims review in a flexible way

- Legal requirements, agreed standards, state-of-the-art
- Users needs, based on recommendations of stakeholders groups
- Elements of life-cycle approach: key environmental aspects from a screening of environmental impacts





Statement of Verification

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Summary of technology, verified claim with all details needed to understand, additional infos

For use in business-to-business relations

Recognised in all participating countries(no need to re-do through national procedures)

May facilitate public procurement procedures, permitting procedures in certain conditions





Preparatory studies and projects

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Research and pilot projects:

- “ Eurodemo (2005-2007): soil and groundwater
- “ TESTNET (2005-2008): water, clean production, monitoring
- “ Promote (2005-2008): soil and groundwater
- “ AIRTV (2007-2009): air emissions
- “ Trittech (2006-2009): soil, water, energy
- “ AdvanceETV (2009-2012): mutual recognition, harmonisation

Commission studies:

- “ Comparison of existing systems, feasibility of ETV in EU (JRC/IPTS 2007)
- “ Report on the costing of an EU system (JRC/IPTS 2009)
- “ Study on funding possibilities for SMEs in Member States (AEA 2009)





Member States projects on ETV

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Pilot projects on ETV:

- “ Nowatech (Nordic Water Technology Verification Network): 2006-2008, water technologies
- “ VERA (Verification of environmental technologies for agricultural production): 2008-2009 (DK, NL, DE)
- “ Dan ETV (Danish pilot project on ETV): 2008-2009

Similar programmes, related developments:

- “ Technology evaluations performed by associations of technology users of measurement devices: EXERA (FR), WIB (NL), Evaluation International (UK)
- “ CEN Workshop Agreement on ETV for soil and groundwater site characterisation, monitoring and remediation techniques (2008)





Non-EU programmes on ETV

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Northern America:

- “ US ETV programme (US EPA): 1995
- “ Canadian ETV programme (OCETA): 1997

Asia:

- “ Korean: 1998 (air pollution, waste, water, recycling)
- “ Japanese pilot programme: 2003
- “ Philippine: 2006 (waste, pollution, drinking water)
- “ Bangladesh (arsenic removal from drinking water)





Towards harmonisation of ETV programmes

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« verified once, accepted everywhere »

International Working Group on ETV: Canada, EU, Philippines, US members; China, Japan, Korea, ASEAN, OECD observers

Objectives are:

- . Establish mutual recognition of ETV programmes
- . Develop joint verification procedures, jointly verify technologies
- . Investigate the possible application of ISO standards to ETV
- . Engage stakeholders, facilitate international cooperation
- . Organise international meetings, workshops and forums





Next steps for ETV

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- General Verification Protocol (Sept. 2010)
- Accreditation of Verification Bodies (end 2010)
- Setting-up of technical groups (beginning 2011)
- European Scheme fully operational (mid-2011)

- Market assessment study (2010-2011)
- Evaluation of the pre-programme (2013-2015)





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Thank you!

<http://ec.europa.eu/environment/etv/index.htm>

env-etv@ec.europa.eu

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