

Environmental Technology Verification: What and why?

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Brussels/Belgium



Environmental Technology Verification: What and why?



"We have problems in getting references for our new odour abatement technology, as clients don't want to be associated with odour problems." (vendor)

"We provide an innovative biological off gas treatment technology, but no testing/standardisation framework exists to prove performance."
(SME, technology developer & provider)

"Our new measurement device is able to measure BOD5 within a view hours instead of 5 days, but our performance data face problems in acceptance." (SME, technology developer & provider)

"As plant operator we could accept innovative, cost efficient technologies easier, if they could prove performance in a credible way" (industrial client)

"If performance of innovative technologies is proven in a reliable way, it would be easier for us to accept them" (insurance company; national regulator)



Environmental Technology Verification: What and why?



Innovative environmental technologies

The concept of ETV

ETV approaches outside Europe

Why ETV?



Environmental Technologies: The European situation



- High degree of innovative in development
but
- Low degree of innovation on the market
- A Europe of 27
but
- Heterogeneous degree of technology acceptance
- Globally well positioned
but
- Increasing competition



Environmental Technologies: What Europe needs



*“.. to improve the development and wider use of
environmental technologies..”*

(ETAP 2004)

by:

- bring innovation to the market
- remove market entrance barriers
- create one European market
- improve the competitiveness of
European technologies on a global market



Environmental Technologies: The problems of innovative products



Need to provide reliable data, but:

- No framework of standards applicable or existing
 - Not comparable with commonly applied procedures
 - Lack of reference applications
- ⇒ Lack of proven, reliable information



Environmental Technologies: What is needed?



A tool to provide technology information that is:

- Addressing performance characteristics
- Flexible for innovative approaches
- Widely accepted
- Proven & reliable
- Easy accessible

➔ **Environmental *T*echnology *V*erification**



The concept of Environmental Technology Verification



ETV means:

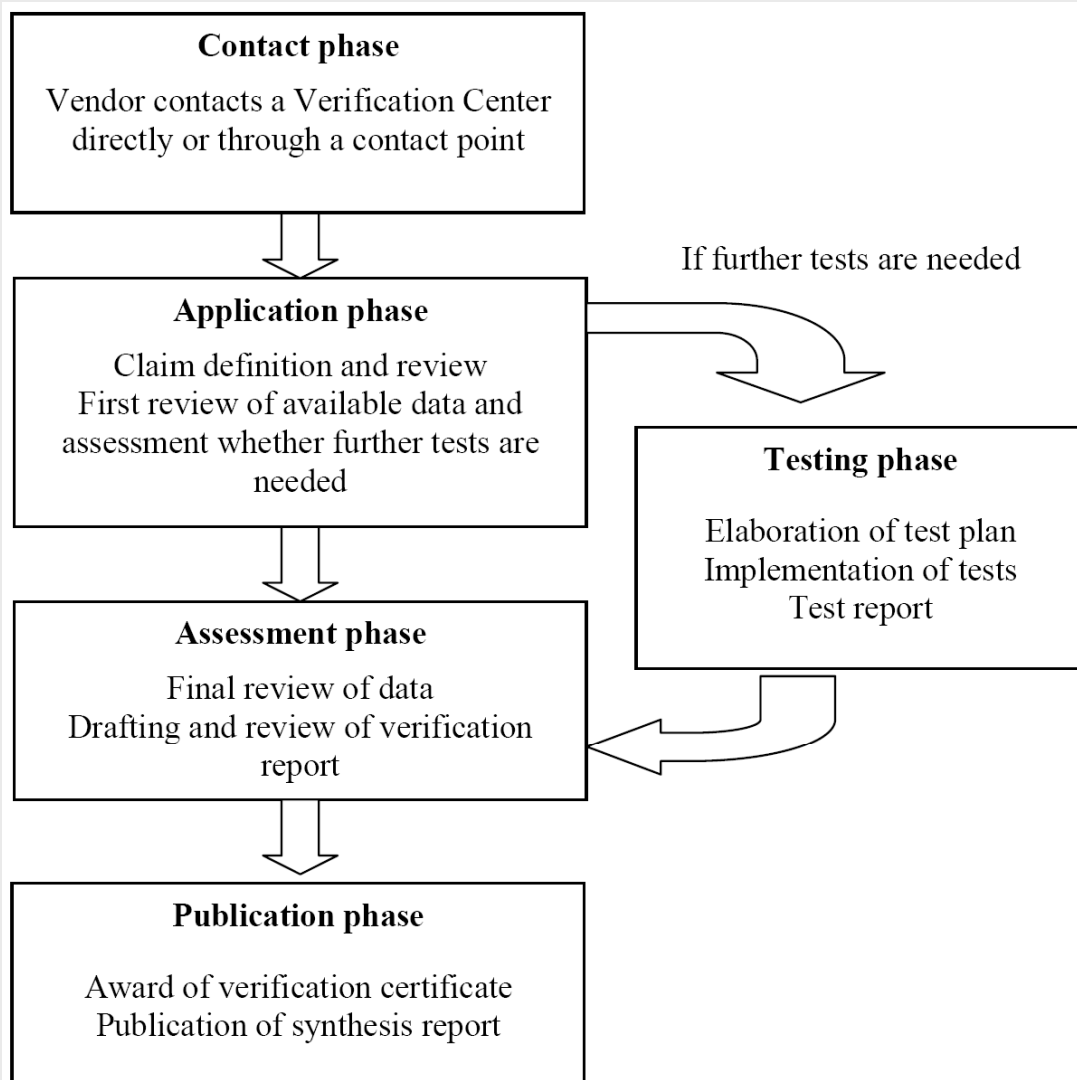
- ✓ Performance claims are checked by an authorized 3rd party,
- ✓ based on pre-determined protocols,
- ✓ ⇒ an independent proof of the technology performance claim,
- ✓ where no other proof is appropriate

ETV is:

- ✗ No direct comparison of technologies
- ✗ No pass/fail assessment, permission, of technologies related to standards or regulations
- ✗ Not competing with regulated areas (BREF, standards)



The concept of Environmental Technology Verification



EC DG Environment
Consultation paper
on a EU System for ETV,
11/2007



ETV approaches outside Europe



- U.S.EPA-ETV
- ETV Canada
- South Korea ETV
- ETV Japan



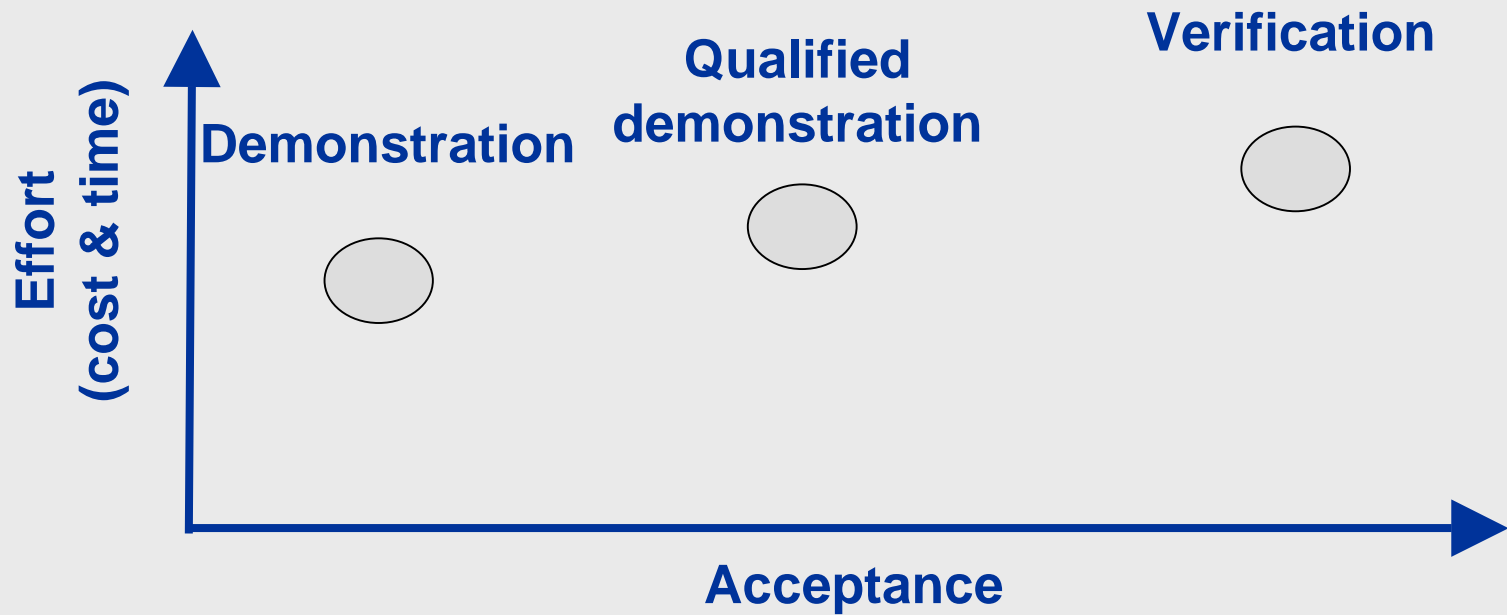
Why ETV?

The market implementation pathway



Why ETV?

Increasing acceptance



Why ETV?

The European dimension



Today:
**Market entrance for
innovative technologies**



Evolving:
**Market entrance with
European ETV-System**



Why ETV?

The global perspective



Today:
**Market entrance for
innovative technologies**



Evolving:
**Market entrance with
European ETV-System**



The future:
**International
recognition**



Why ETV?



A
win : win situation
for environment and economy!



Studien, FP6-, FP7- & LIFE-Projekte

Allgemeine Struktur
eines
EU ETV Systems

1st IPTS
contract

2nd
IPTS

heute

EURODEMO

PROMOTE

TESTNET

AIRTV

TRITECH ETV

AdvanceETV

Probleme,
Perspektiven,
sektorale Netzwerke &
Protokolle

Pilotschema ETV

Umsetzung &
globale Akzeptanz

2004

2005

2006

2007

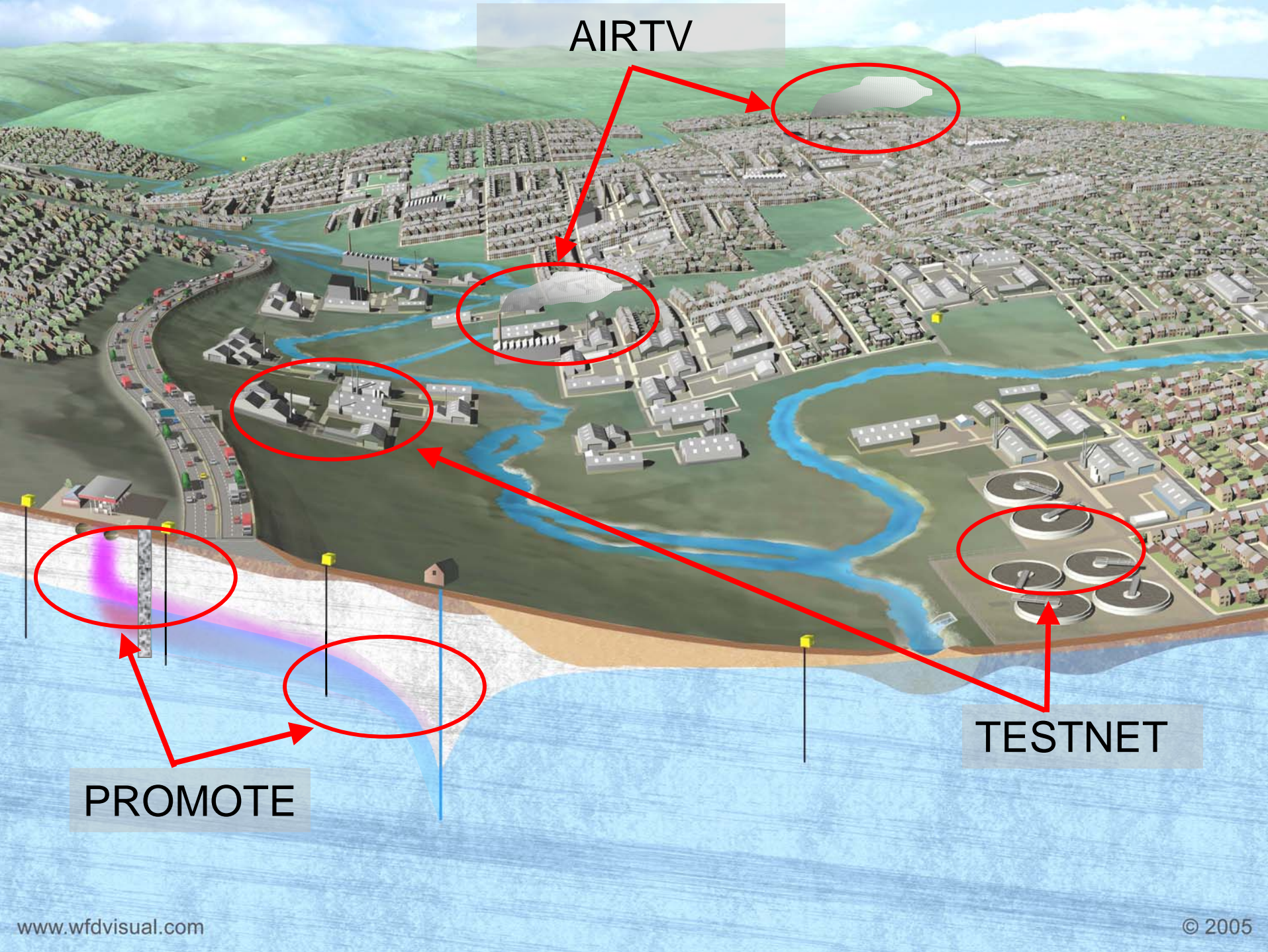
2008

2009

2010

06/
2012

AIRTV



PROMOTE

TESTNET



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Conference and Parliamentarian Evening

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***Vielen Dank
für Ihre Aufmerksamkeit !***



