

Improving the price/service ratio of Dutch water supply through benchmarking

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Personal introduction

Peter Dane



- MSc in civil engineering
- over 25 year in the water industry (utilities)
- manager international benchmarking at Vewin (Association of Dutch Water Companies)
- programme manager at EBC (European Benchmarking Co-operation)
- member of IWA's SG BPA management team



Outline

- Water in the Netherlands
- Water supply characteristics
- Benchmarking activities & results the learning curve
- Concluding remarks



1 - Water in the Netherlands

- 41.000 km², 16.7 million inhabitants
- delta of international rivers Rhine, Meuse, Scheldt, Eems
- bordering the North Sea
- half of the country below sea level
- managing water in Dutch genes for centuries





Water in the Netherlands (2)

Many actors:

- National level
 - government national water policy
 - Rijkswaterstaat national water agency responsible for national water infrastructure







Water in The Netherlands (3)

- Regional level
 - 12 provinces ground water policy
 - 26 water boards regional flood protection, surface water quality, wastewater treatment
 - 10 water companies water supply









Water in the Netherlands (4)

- Local level
 - 421 municipalities sewer system, municipal water systems





Water in the Netherlands (5)

- "water" managed by many actors because of history
 - pro: specialisation, at arms' length of politics (budget)
 - con: many coordination mechanisms
- on-going discussion about efficiency of structure



2 - Water supply

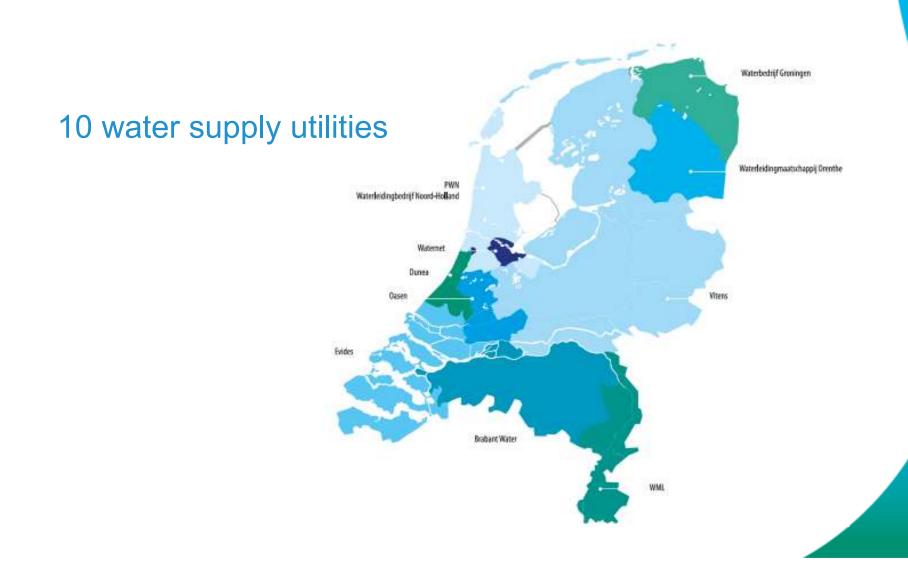
Dutch drinking water: low interest product for consumer

- •good water quality, few interruptions, relatively cheap
- •challenge: to sustain the service at this level and further improve it



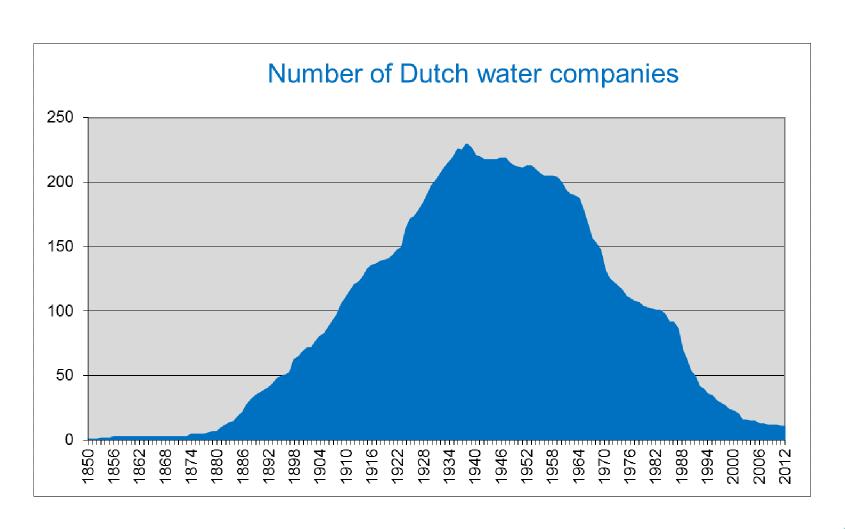


Water supply characteristics (2)





Water supply characteristics (3)





Water supply characteristics (4)

Drinking Water Act (2011)

- mandate to 10 regional water utilities
- limited liability companies (private law), except for Amsterdam water cycle utility "Waternet"
- ownership restricted to local/regional authorities (municipalities, provinces)
- regulation at arm's length





Water supply characteristics (4)

- mixed supervision:
 - national (focus on water quality, contingency, benchmarking)
 - decentralised utility governance by public shareholders
 (investment policy, tariff setting, management, performance)
- vital infrastructure → risk-based service plans
- full cost recovery
- reasonable tariffs
- limitation to profit
- mandatory benchmarking





Water supply characteristics (5)

Operating environment: densily populated area

- water resources under pressure (groundwater urban/agriculture, surface water - industrialised catchment area international rivers)
- underground: competition for space
- flat area, weak subsoil

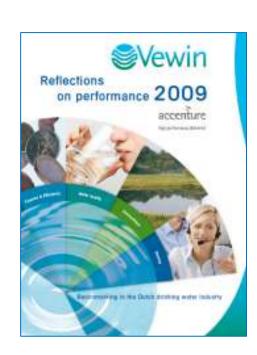




3 - Benchmarking activities & results

National

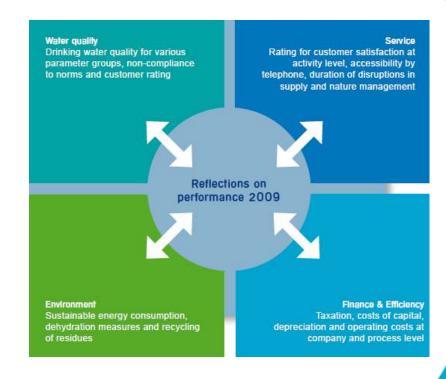
- late 1980's: first benchmarking efforts (regional)
- as of 1997: voluntary, national benchmarking programme
- initiated by national discussions on privatisation/ liberalisation of public services
- as of 2010: mandatory





National benchmarking scheme

- objectives:
 - improving efficiency by learning
 - raising transparency
- 4 key performance areas:
 - water quality
 - service
 - sustainability
 - costs

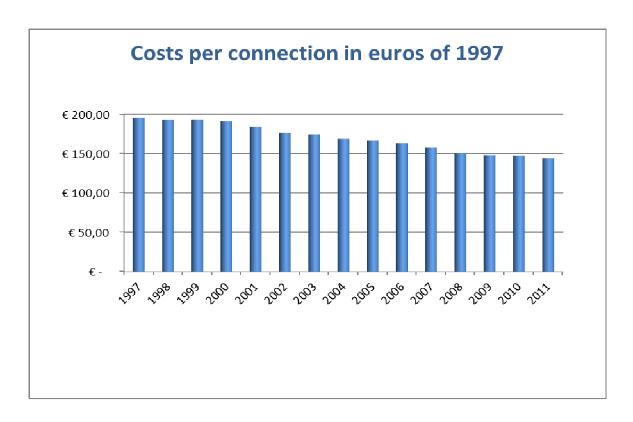




National benchmarking scheme (2)

2009 Survey

costs: -/- 26% since 1997 (corrected for inflation)

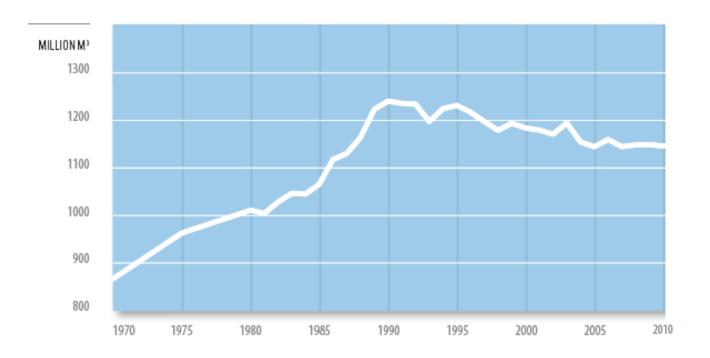




National benchmarking scheme (3)

2012 Water Statistics

consumption decreases since the '90's

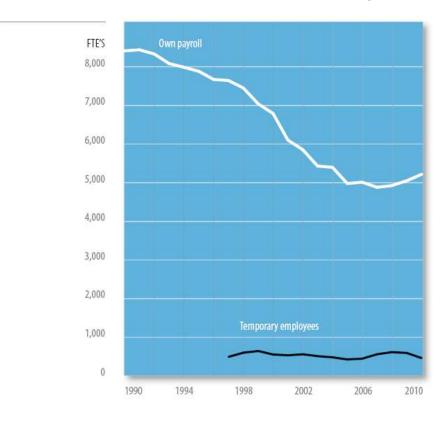




National benchmarking scheme (4)

2012 Water Statistics

number of staff decreased sharply

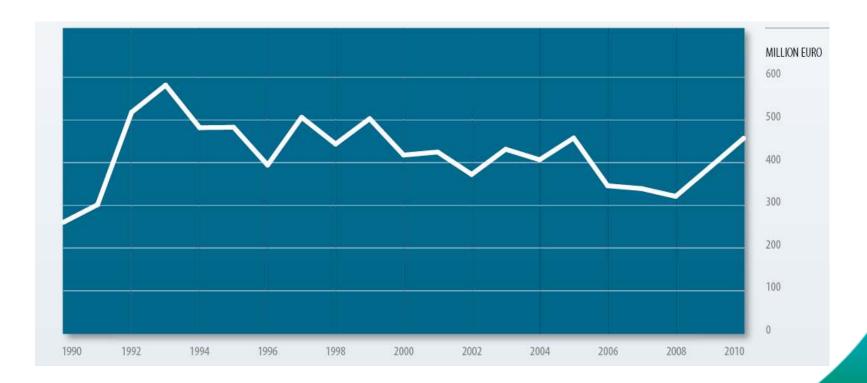




National benchmarking scheme (5)

2012 Water Statistics

stable investment level





Benchmarking activities & results (2)

Lessons learned

- •improving the service ≠ cost reduction!
- Dutch success factors:
 - continuous investments in the service
 - scale of supply (regional operating companies)
 - regulation at arm's length
 - active professional networks for knowledge exchange
 - benchmarking for continuous improvement
- improving the service never ends!



Benchmarking activities & results (3)

Next step on the learning curve: international benchmarking

- 2007>: Dutch water utilities participate in voluntary, international benchmarking programme of EBC
- focus on performance assessment ánd -improvement by learning from international best practices





Benchmarking European water services

performance improvement by learning from international best practices











About EBC

European Benchmarking Co-operation:

- initiative of national water associations and several utilities from DK, FIN, NL, N, S (2005)
- mission: to facilitate water utilities in the continuous process of improving performance and transparency
 - by offering a web based, international benchmarking programme for water services and
 - providing a platform to learn from best practices in management and operations from peer utilities



About EBC (2)

Characteristics

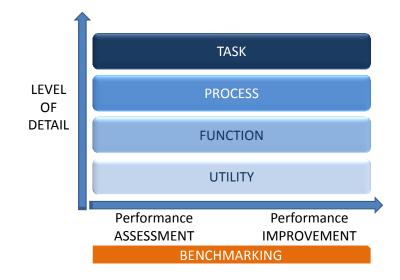
- not-for-profit utility improvement programme by the water industry, for the water industry
- governed by four national water associations, coordinated by Vewin (Association of Dutch Water Companies)
- focus on European water utilities, but open to all interested utilities
- partners with national associations/regional partners
- fully supported by



What is benchmarking?

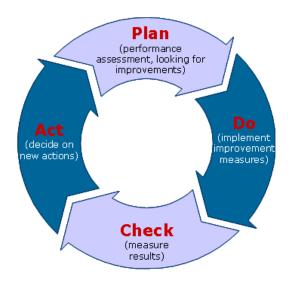
IWA's Task Group on Benchmarking:

- "benchmarking is a tool for performance improvement through systematic search and adaptation of leading practices"
- 2 consecutive steps:
 - performance assessment
 - performance improvement



What is benchmarking? (2)

- not a single action!
 - management tool for continuous improvement
 - preferably embedded in annual business planning cycle



Why should you benchmark?

Advantages of benchmarking for *utilities*:

- getting to know your utility in another way
- connecting to a reference group to compare yourself with
- opportunities for networking, identifying best practices, innovative solutions
- showing stakeholders your drive for improvement

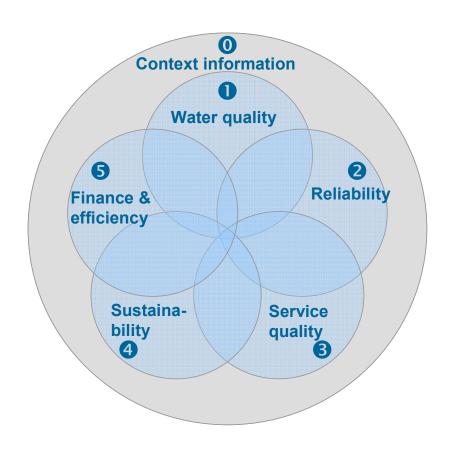
For governments/EU:

- stimulates compliance with national standards
- accelerates reaching EU-objectives

EBC's benchmarking programme

Performance assessment – areas to analyse

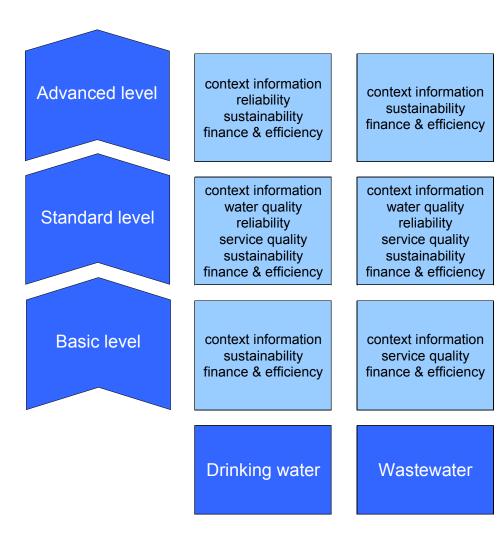
- context information
- key performance areas
 - water quality
 - > reliability
 - > service quality
 - sustainability
 - finance & efficiency



EBC's benchmarking programme (2)

Performance assessment – different participation levels

- 3-level model to choose at:
 - > basic
 - > standard
 - advanced



EBC's benchmarking programme (4)

Project preparation

- defining objectives, composing team, preparing documents, methodology, tools, planning...
- recruiting participants (invitations, registration)

• orientation & training (kick-off)

EBC's benchmarking programme (5)

Data collection, analysis & validation

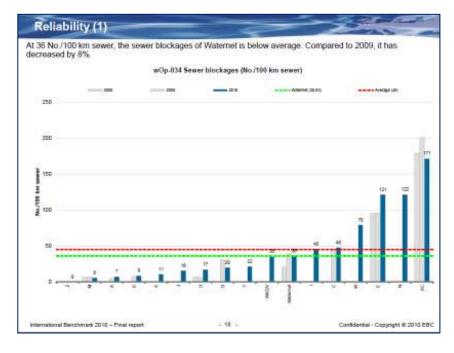
- good data quality: essential for confidence in results!
- how to arrange this?
 - clear definitions
 - confidence grading
 - data analysis & validation
 - > results workshop

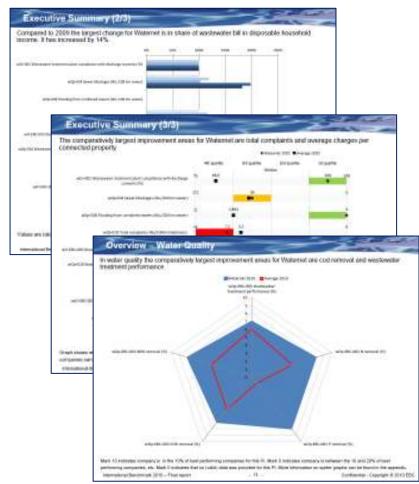


EBC's benchmarking programme (6)

Draft reporting

- to check data/results
- to identify performance gaps





EBC's benchmarking programme (7)

Benchmarking workshop

- most essential part of the benchmarking exercise
- discussing (draft) results (data check, understanding Pl's)
- special topics (exchanging knowledge)
- exchanging best practices (presentations by peer utilities)
- site visits, networking





EBC's benchmarking programme (11)

Final reporting

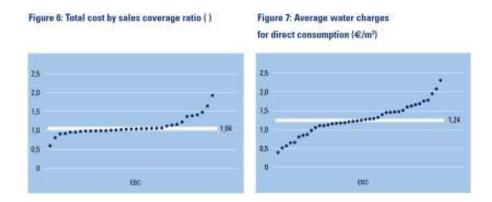
confidential, individual utility information

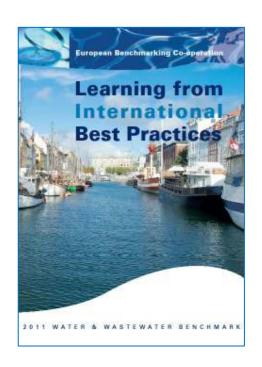


EBC's benchmarking programme (12)

Public reporting

- to show (anonymous) key results of benchmarking exercise
- for stakeholder communication & encouraging utilities to participate







EBC's benchmarking programme (13)



- 94 different utilities participated since 2007
- 2012: 50 utilities from 19 countries

To conclude

- benchmarking is not an easy job!
- successful benchmarking/utility improvement requires:
 - > alignment with strategic utility objectives
 - > commitment of senior management
 - > involvement of utility staff
 - good data quality
 - > stable situation
 - > sufficient resources
- Dutch case: benchmarking efforts pay off but results take time!

To conclude (2)

- benchmarking globally recognised as a powerful management tool for performance improvement
- sense of urgency: political discussions on modernisation of the water sector
- still many utilities do not benefit from benchmarking
- Vewin/EBC open to cooperate!

