Measures to achieve targets

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Challenges related to measures

- What measures to use when most of the infrastructure is owned by independent bodies public or private?
  - Introduce new legal requirements
  - Stricter enforcement of new and existing requirements
  - Identifying/pointing out who is responsible
  - Professional advice
  - Information of the public

- How to secure financing of measures when budgets are only made for one year?
  - The principle of self-financing (costs will be divided on subscribers/owners)
Example of target and measures

- **Target** (a - quality of the drinking water)
  - “Chemical parameters according to the drinking water regulation should not be exceeded more than twice each year. Microbiological parameters not more than once.”
    (Concerns waterworks with 500 recipients or more. Less ambitious targets are set for smaller waterworks)

- **Measures indicated** (who is responsible):
  - Improve standard with special attention to distribution /pipes (Owners of waterworks)
  - Establish professional cooperation/networks (Owners of waterworks)
  - Stricter enforcement of regulation (Food Safety Authority)
  - Consider stronger regulation regarding maintenance and stronger instruments for the FSA (Ministry of Health)
Example of target and measures 2

• Target (b - reduction of outbreaks)
  – Outbreaks of waterborne diseases should have low probability and consequence.
  – Persons falling ill from drinking water should be less than 1 of 10,000.

• Measures indicated (who is responsible):
  – Improve standard with special attention to water treatment and distribution /pipes (Owners of waterworks)
  – Improve methods for detecting and reporting waterborne disease (M.O.H./Institute of public health)
Example of target and measures 3

• Target (e - level of performance)
  – Supply stability over 99,95 % in each w. work
  – National (average) yearly rate of renewal of pipes better than 4 % (or 2) until 2035
  – Leakage less than 25 % by 2020

• Measures indicated (who is responsible):
  – Improve pace of renewal of distribution pipes (Owners of waterworks)
  – Consider stronger regulation regarding maintenance and stronger instruments for the FSA (Ministry of Health)
  – Consider economical incentives to stimulate renewal of distribution pipes (this will depend very much on future allocations of funds from the Government)
Example of target and measures 4

• Target (j - quality of waters used as sources for drinking water) :
  – Waters used as sources for drinking water or food-production should as far as possible be protected against pollution

• Measures indicated (who’s responsible)
  – The follow up of the water framework directive (the authorities appointed according to the Norwegian implementation of the directive)
A few conclusions

• Targets are not self fulfilling and targets without any measures will probably not be achieved. The strength of the target depends on the measures.
• Same measure can be used towards different targets
• Measures already in place have been used where appropriate
• Choice of measures have to be flexible – chosen measures do not always lead to expected results. In some cases measures are given as examples
Thank You!