VATTENMYNDIGHETERNA

WG 5 Introduction workshop

Preparation of next program of measures and using EU indicators for key type of measures, KTM, to measure progress

Länsstyrelserna

Program

9.30 Introduction and presentation

9.45 Norway: Sunniva Hartman

10.00 Sweden: Niklas Holmgren

10.15 Finland: Milla Mäenpää & Sini Olin

10.30 Denmark: Stig Eggert Pedersen

10.45 Iceland: Ólafur A. Jónsson

11.00 Discussions

11.30 End of session

What is KTM and KTM indicator?

KTM for WFD – Surface water

1 Construction or upgrades of wastewater treatment plants
2 Reduce nutrient pollution from agriculture
3 Reduce pesticides pollution from agriculture.
4 Remediation of contaminated sites (historical pollution including sediments, groundwater, soil).
5 Improving longitudinal continuity (e.g. establishing fish passes, demolishing old dams).
6 Improving hydromorphological conditions of water bodies other than longitudinal continuity
7 Improvements in flow regime and/or establishment of ecological flows.
8 Water efficiency technical measures for irrigation, industry, energy and households
9 Progress in water pricing policy measures for the implementation of the recovery of cost of water services from households
10 Progress in water pricing policy measures for the implementation of the recovery of cost of water services from industry
11 Progress in water pricing policy measures for the implementation of the recovery of cost of water services from agriculture
12 Advisory services for agriculture
13 Drinking water protection measures (e.g. establishment of safeguard zones, buffer zones etc)
14 Research, improvement of knowledge base reducing uncertainty.
15 Measures for the phasing-out of emissions, discharges and losses of priority hazardous substances or for the reduction of emissions, discharges and losses of priority substances.
16 Upgrades or improvements of industrial wastewater treatment plants (including farms)
17 Measures to reduce sediment loads from soil erosion and surface run-off
18 Measures to prevent or control the adverse impacts of invasive alien species and introduced diseases
19 Measures to prevent or control the adverse impacts of recreation including angling
20 Measures to prevent or control the adverse impacts of fishing and other exploitation/removal of animal and plants
21 Measures to prevent or control the input of pollution from urban areas, transport and built infrastructure
22 Measures to prevent or control the input of pollution from forestry
23 Natural water retention measures
24 Adaptation to climate change
25 Measures to counteract acidification
New MS KTM

VATTENMYNDIGHETERNA

Choose your national indicator – KTM!

Population equivalent required to be treated by construction or upgrade of waste water treatment works
Number of wastewater treatment works requiring to be constructed or upgraded
Number of new permits to be issued or updated
Number of installations associated with priority substances requiring measures to achieve objectives
Number of substances requiring restrictions or bans on uses to achieve objectives
Number of Combined Sewer Overflows to be upgraded to achieve objectives
Number of storm overflows where sediment flow to surface water will be intercepted or reduced.
Number of sustainable drainage systems required to achieve objectives
Number of installation where upgrades or improvements are required to achieve objectives
Number of revised permit required to achieve objectives
Number of sites to be remediated or where preventative actions are to be taken to achieve objectives
Number of upgraded or remediated waste disposal sites required to achieve objectives
Number of water bodies affected by measures
Number of mine discharges for which measures are required to achieve objectives
Number of aquaculture sites/facilities for which measures are required to achieve objectives
Number of water bodies affected by measures to achieve objectives
Number of upgraded storm overflows required to achieve objectives
Number of surface water interceptors and treatment facilities required to achieve objectives
Area (km^2) requiring regulation and/or codes of practice for use and disposal of chemicals in urbanised areas, transport and infrastructure to achieve objectives.

Signiifcant pressure	Indicator for pressure	Value Indicator Gap 2015	Value Indicator Gap 2021	ValueIndicator Gap 2027	KTM	KTM Indicator	KTM Indicator Value2015	KTM Indicator Value2021	KTM Indicator Value2027
1.1. Point - urban waste water	Numer of waterbodies	250	180	0	KTM1 construction or upgrade of WWTP	Number of WWTPs to be constructed or upgraded	53	25	0
2.2 Diffuse - agriculture	Numer of waterbodies	600	450	200	KTM2 Reduce nutrient pollution from agriculture	Area of agricultural land covered by measures (km2) to achieve objectives	6000	3000	700

VATTENMYNDIGHETERNA

SWEDEN: Preparation of next program of measures and using EU indicators for key type of measures, KTM, to measure progress

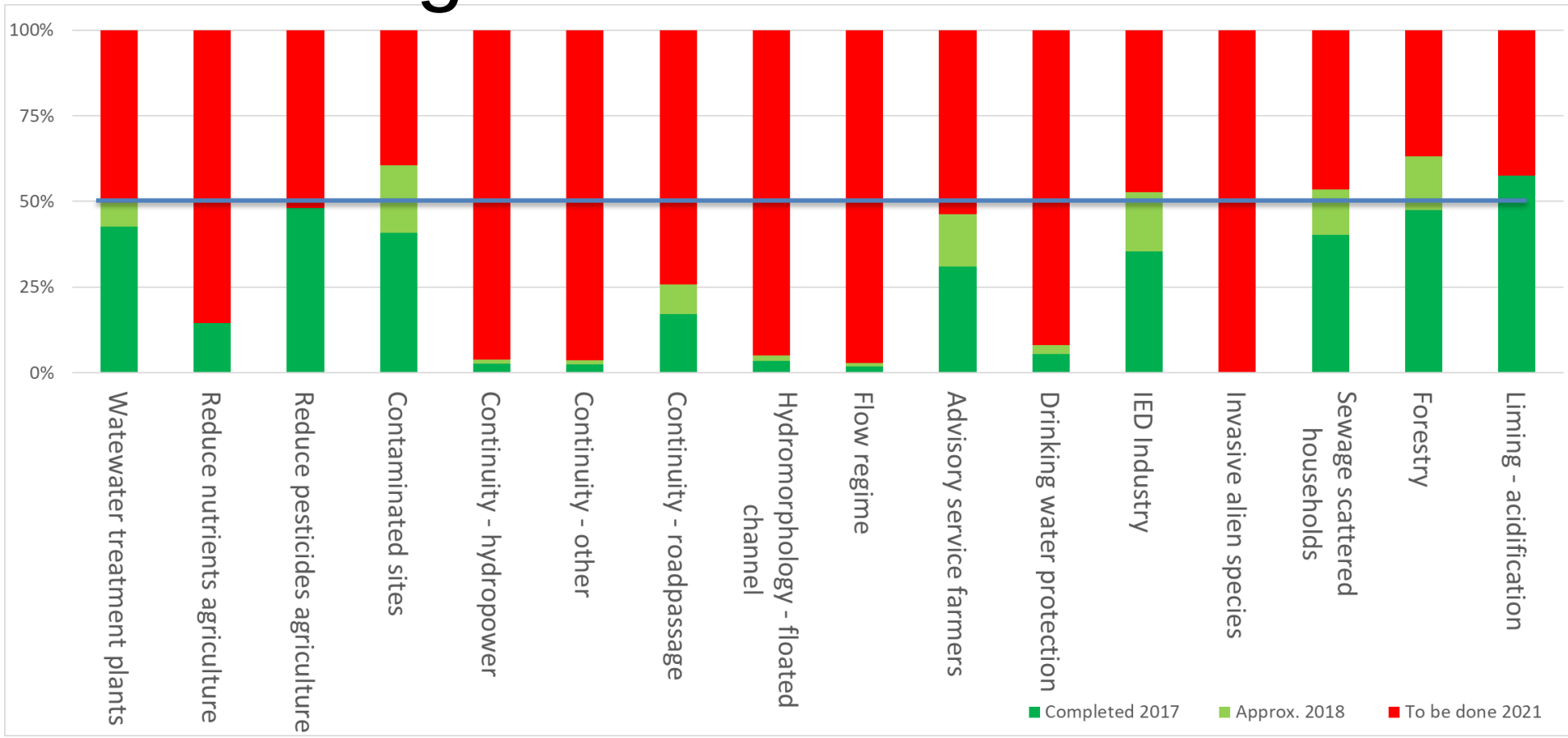
Niklas Holmgren, strategist

South Baltic Water Authority

Länsstyrelserna

VATTENMYNDIGHETERNA

Progress measures 2018



Länsstyrelserna

Waste water treatment plants

- KN28 - Number of wastewater treatment works.

Manual work – input from county administrations and database of yearly reporting.

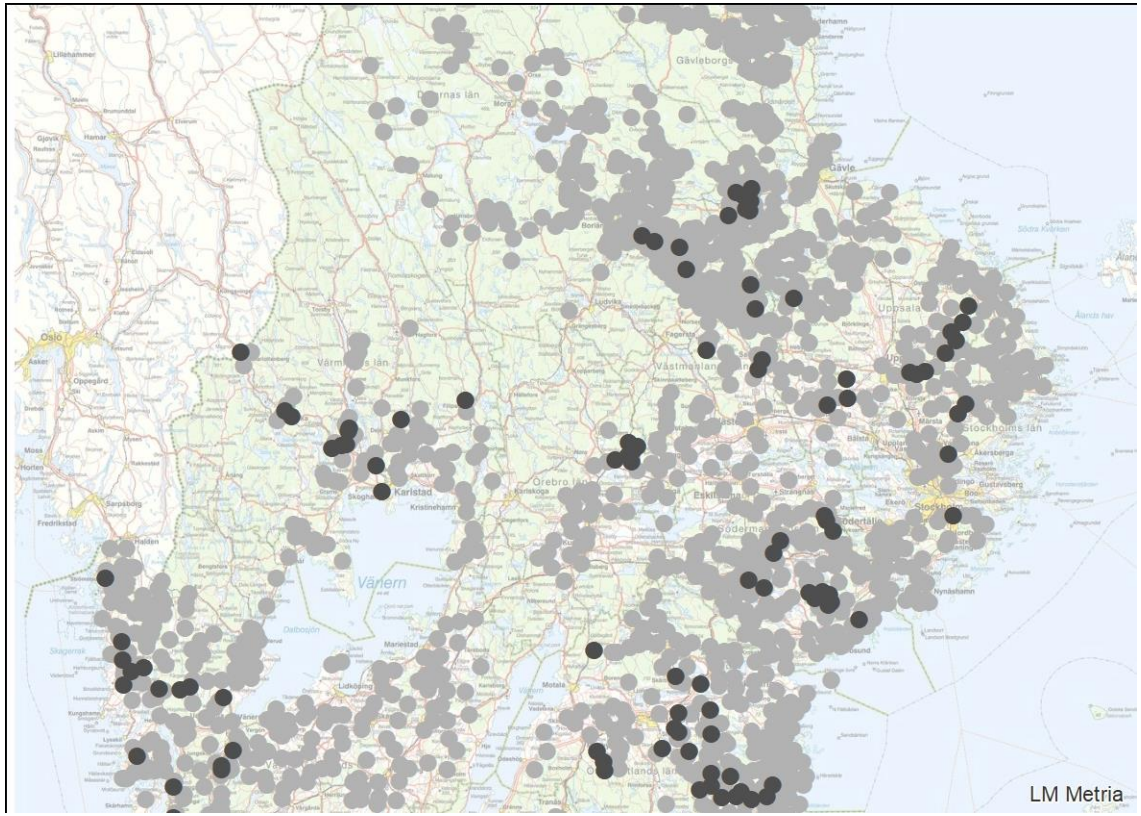
Reduce nutrients agriculture

- KA02 - Area (km2) of agricultural land

Statistics from Swedish Board of Agriculture, support measures through CAP

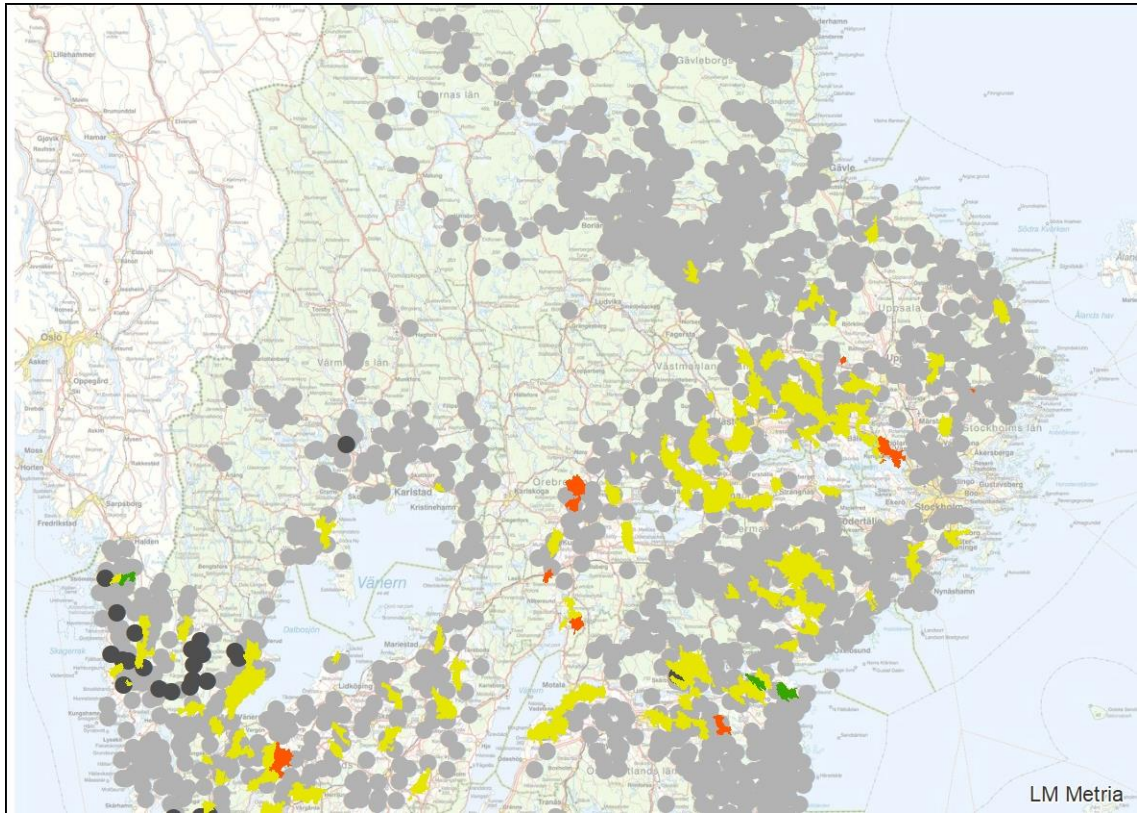
Measures	CAP 2016-2018	2021 (ha)	% 2021	2027 (ha)	% 2027
Structure liming	(12 477)	65 404	19%	332 639	4%
Lime filter ditch	141	1 433	10%	78 033	0%
Adjusted buffer zones	136	46	297%	3 642	4%
Buffer zones	533	-		6 208	9%
Two step ditch	3	8	36%	268	1%
Dams	-	39	0%	1 377	0%
Wetlands	309	1 187	26%	23 493	1%
Sum	**13 599**	**68 117**	**20%**	**445 661**	**3%**

Dams - phosphorous



- CAP 2016-2018
- Measures 2021 per water
- Measures 2027 per water

Buffer zones - adjusted



Decrease
Same
Increase

Measures 2021 per water
Measures 2027 per water

Reduce pesticides agriculture

- KA03 - Area (km2) of agricultural land

Very few waterbodies with exceeding values.

Ask each environmental office at municipality if supervision of farms regarding pesticides have been done.

Contaminated sites

- KN30 - Number of water bodies required to be covered by measures to achieve objectives

- Statistics through Swedish EPA and county administrations.

Longitudinal continuity

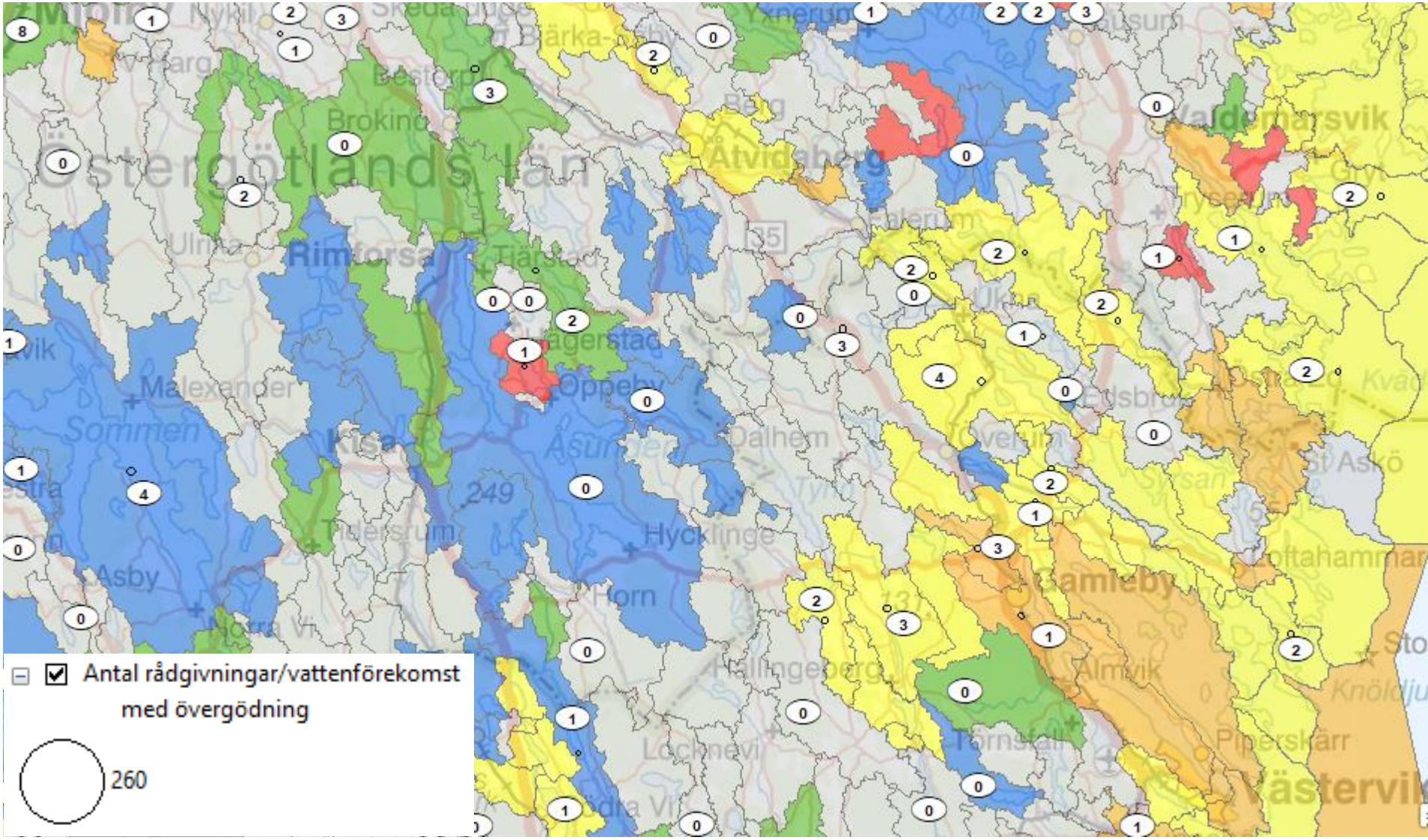
- Hydropower – NAP – **NEW!**
- Other - Counties
- Roadpassage – Swedish Transport Administration

Advisory service agriculture

- KN01 - Number of advisory services required to achieve objectives

Statistics delivered through Swedish Board of Agriculture.

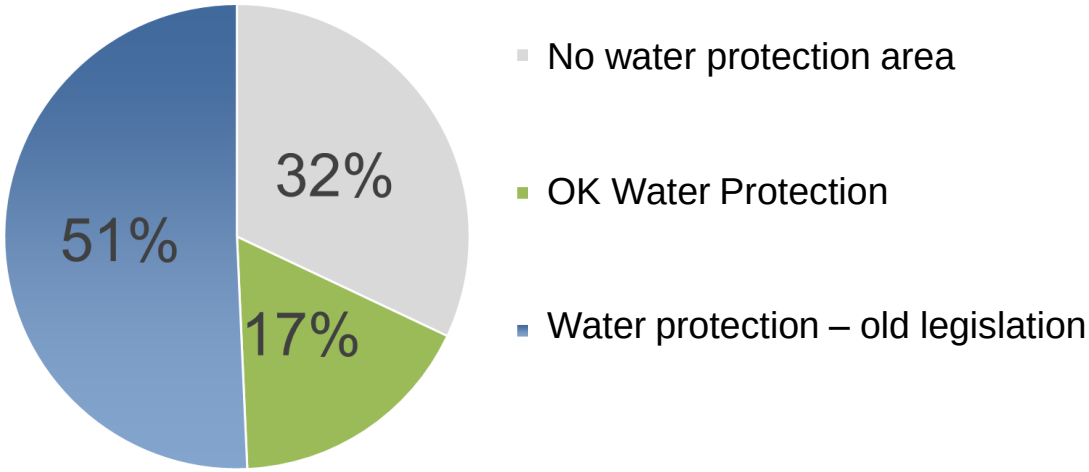
Advisory visits and nutrient status



Drinking water protection

- KN07 - Number of drinking water protection zones required to achieve objectives

Statistics partly delivered through different sources – problem with secrecy of positions on water sources



Länsstyrelserna

Sewage scattered households

- KN26 - Number of sustainable drainage systems

Statistics used from HELCOM modeling of eutrophication PLC6-7

Forestry

- KO99 - Other indicator.

Percentage transport at disforestation having negative impact on waterbodies.

Statistics delivered by Swedish Forest Agency.

Liming - acidification

- KN33 - Number of water bodies that need to be limed to achieve objectives
- Reported through National database of liming, county administrations.

Länsstyrelserna

Lessons learned

- Include more KTM indicators
- Not area agriculture land – amount of phosohorous instead
- Use KTM indicators for communication of progress with stakeholders
- Use ”number of waterbodies” in less comprehensive KTM

Thanks for listening!

niklas.holmgren@lansstyrelsen.se