

The Swedish EPA

Contaminated sites

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ICCL

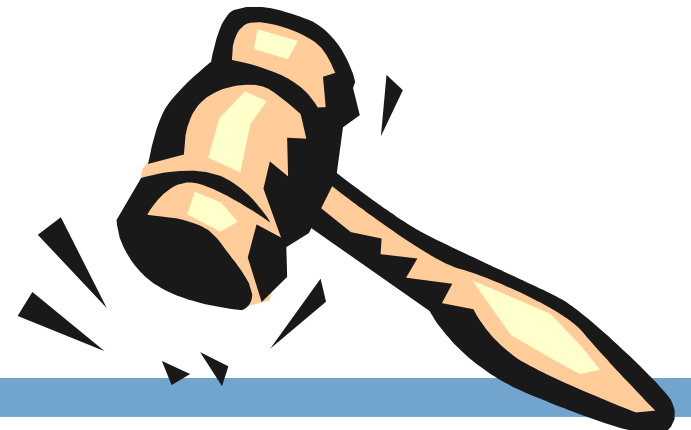
Paris 29 september 2005



4. Environmental Quality Objective: A Non-Toxic Environment

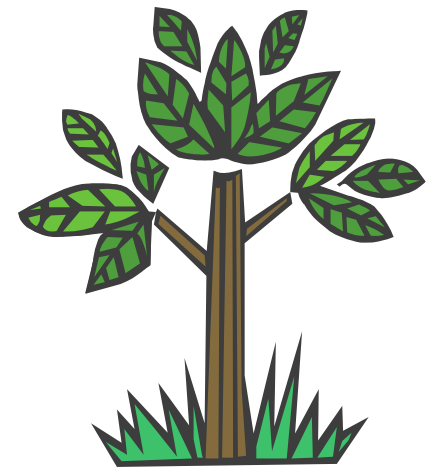
”The environment must be free from man-made or extracted compounds and metals that represent a threat to human health or biological diversity.”

This objective is intended to be achieved within one generation (2000-2030).



6. Interim Target – Contaminated Areas

“All polluted areas that are considered an acute risk through direct exposure and such polluted areas that today or within a near future threatens important water resources or valuable natural habitats will be investigated and if needed remediated by the end of 2010.”



7. Interim Target – Contaminated Areas

“Remediation measures will be undertaken to such an extent during the period 2005-2010 that the main environmental problem can be solved at the latest 2050.”



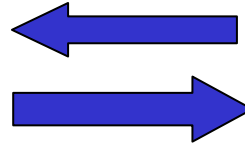
Organisation

Swedish EPA

Guidelines
International work
Management of state fund
for remediation;
- distribution
- follow ups and reports

Regional councils (21)

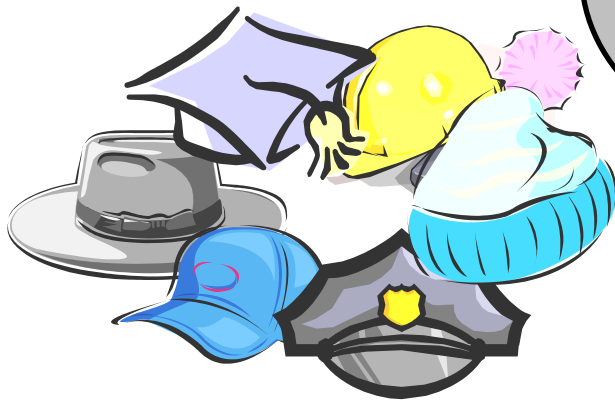
Responsible for supervision
Managing licenses
MIFO-investigations
Regional prioritization
Enforcement of measures



SGU, SGI
ITM

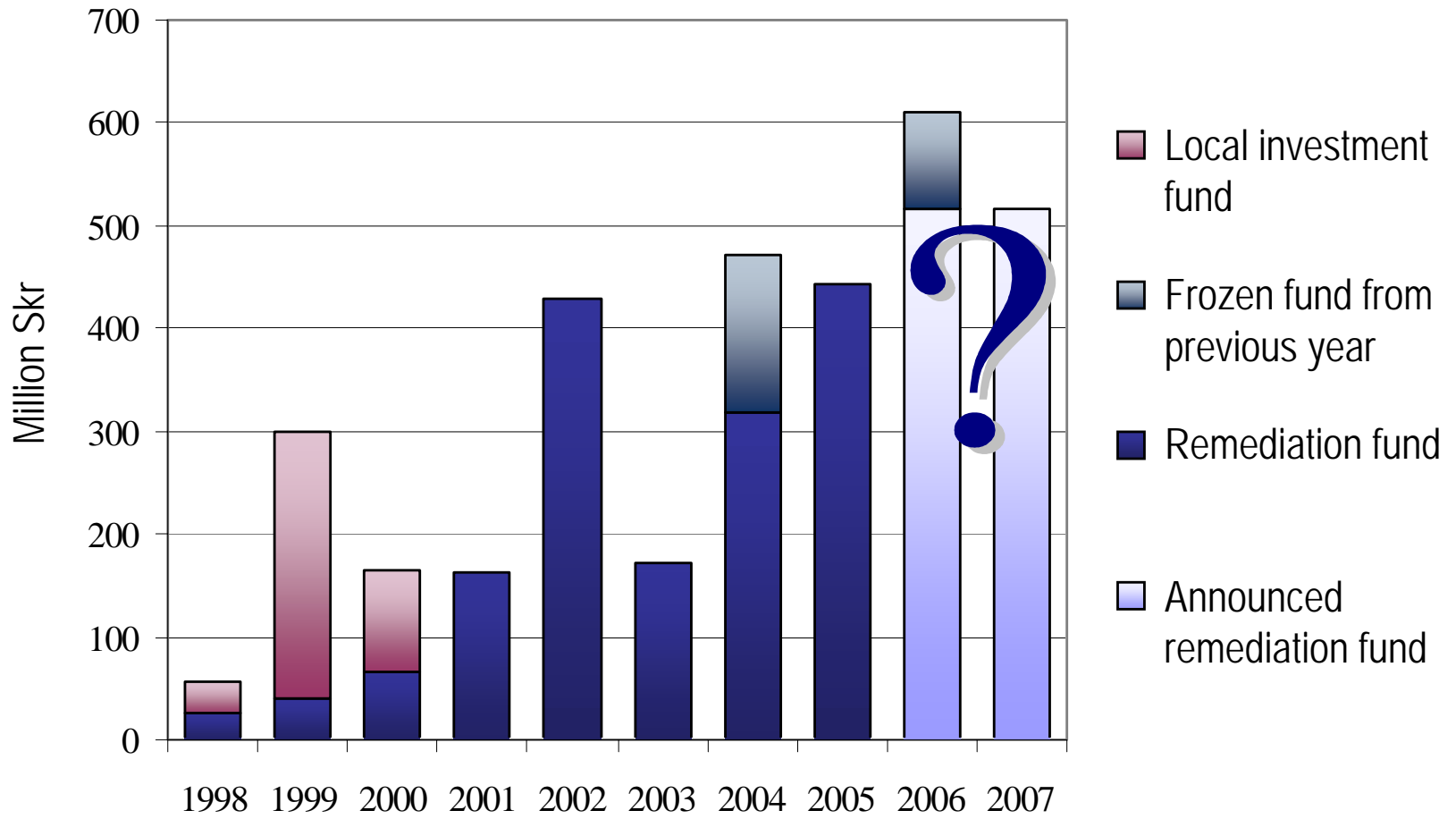
Municipalities (289)

Responsible for supervision
Participate in inventories
Main responsibility for
remediation by state funding



State Funding

(1 Euro = 9,3 Skr)



Responsibility – State Funding

★ **No responsible party**



State funding

★ **Limited responsibility**



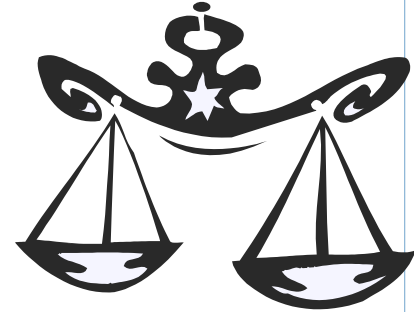
State funding +
Negotiation/judgement

★ **Responsible party**



Environmental code or
voluntarily agreements

§ Assessment of Reasonability

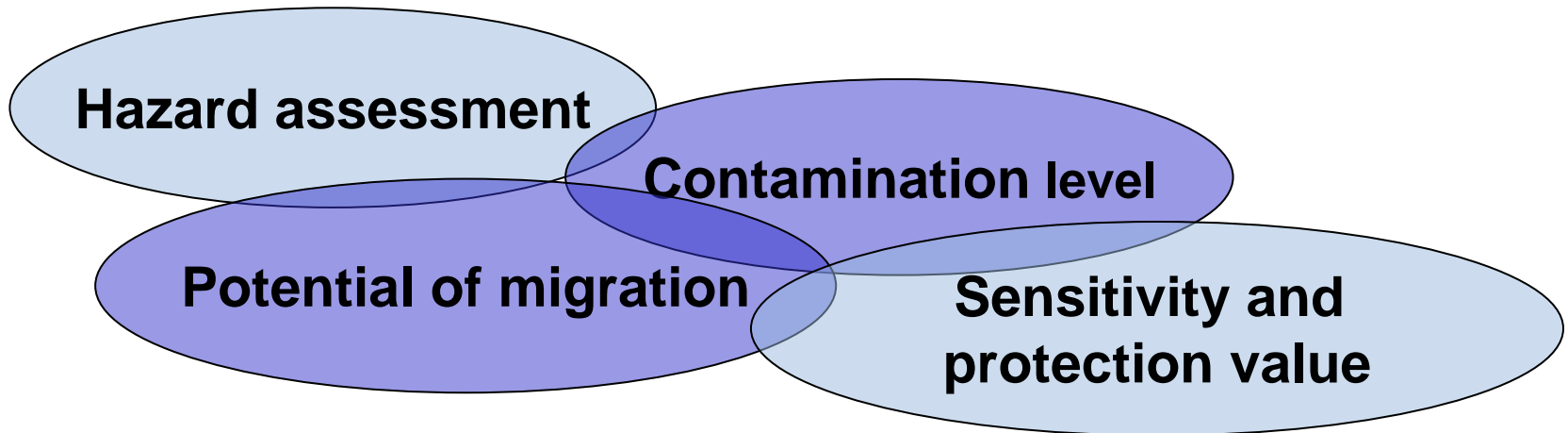


- ▶ **Time since the contamination occurred**
 - Responsibility decrease with time

- ▶ **Were the responsibilities accomplished at that time?**
 - Are there any permissions? Have they been followed? Was this the common practice?

- ▶ **Are there several operators involved?**
 - What is the contribution to the contamination from each liable party?

Method for Inventories and Risk Classification of Contaminated Sites (MIFO)



Class 1 : Very large risk for humans and environment

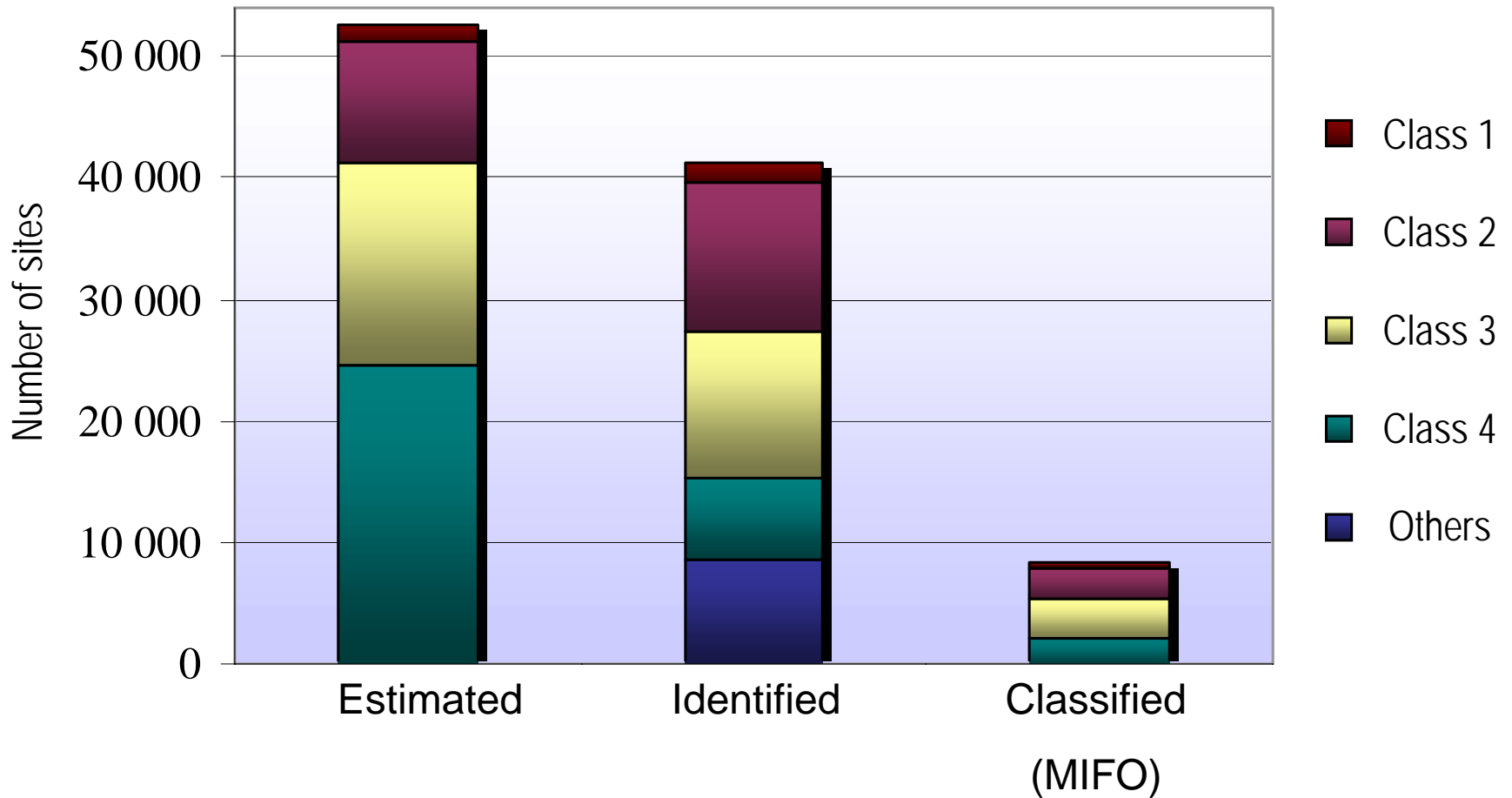
Class 2 : Large risk

Class 3 : Reasonable risk

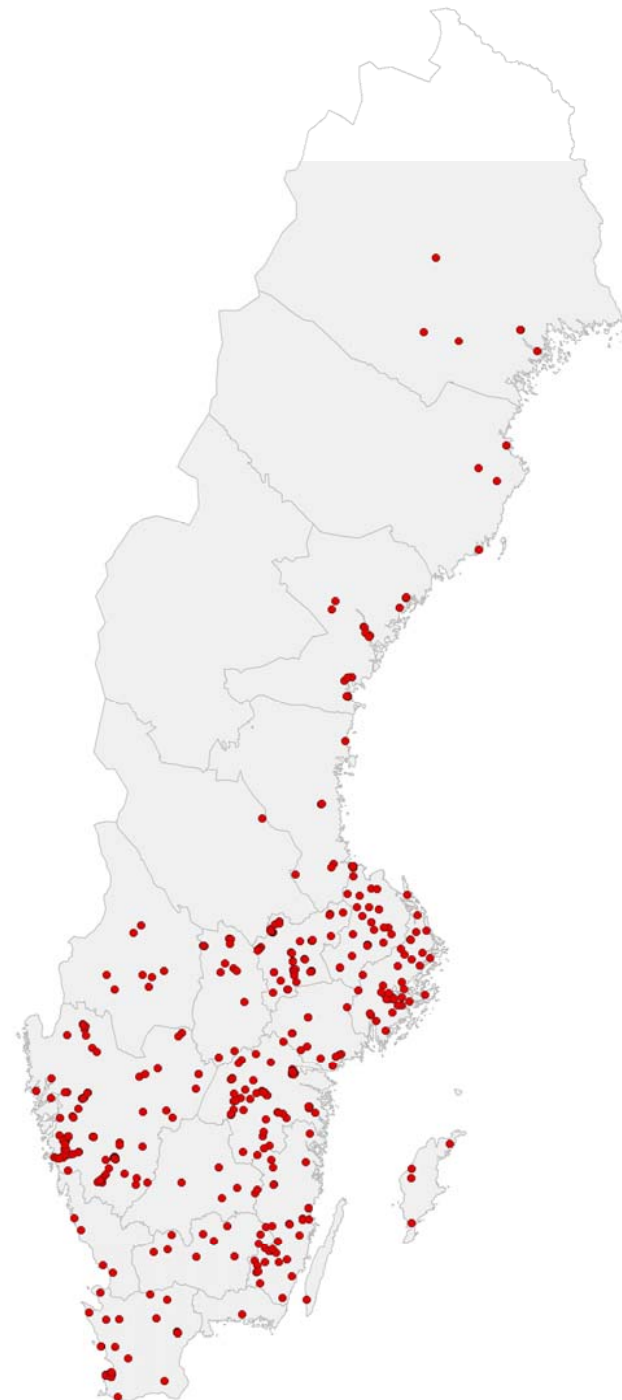
Class 4 : Small risk

***Class 1 and 2 are given priority for further investigations
by state funding if no liable party can be found***

Key Figures for Identification and Classification



Reported Class 1 Sites Year 2004



Definitions of Risk and Remediation Terms

Risk assessment

Scientific assessment of health, and environmental risks.
Simplified or deeper studies.

Risk evaluation

Evaluation of risks versus measures and costs

Goals for remediation

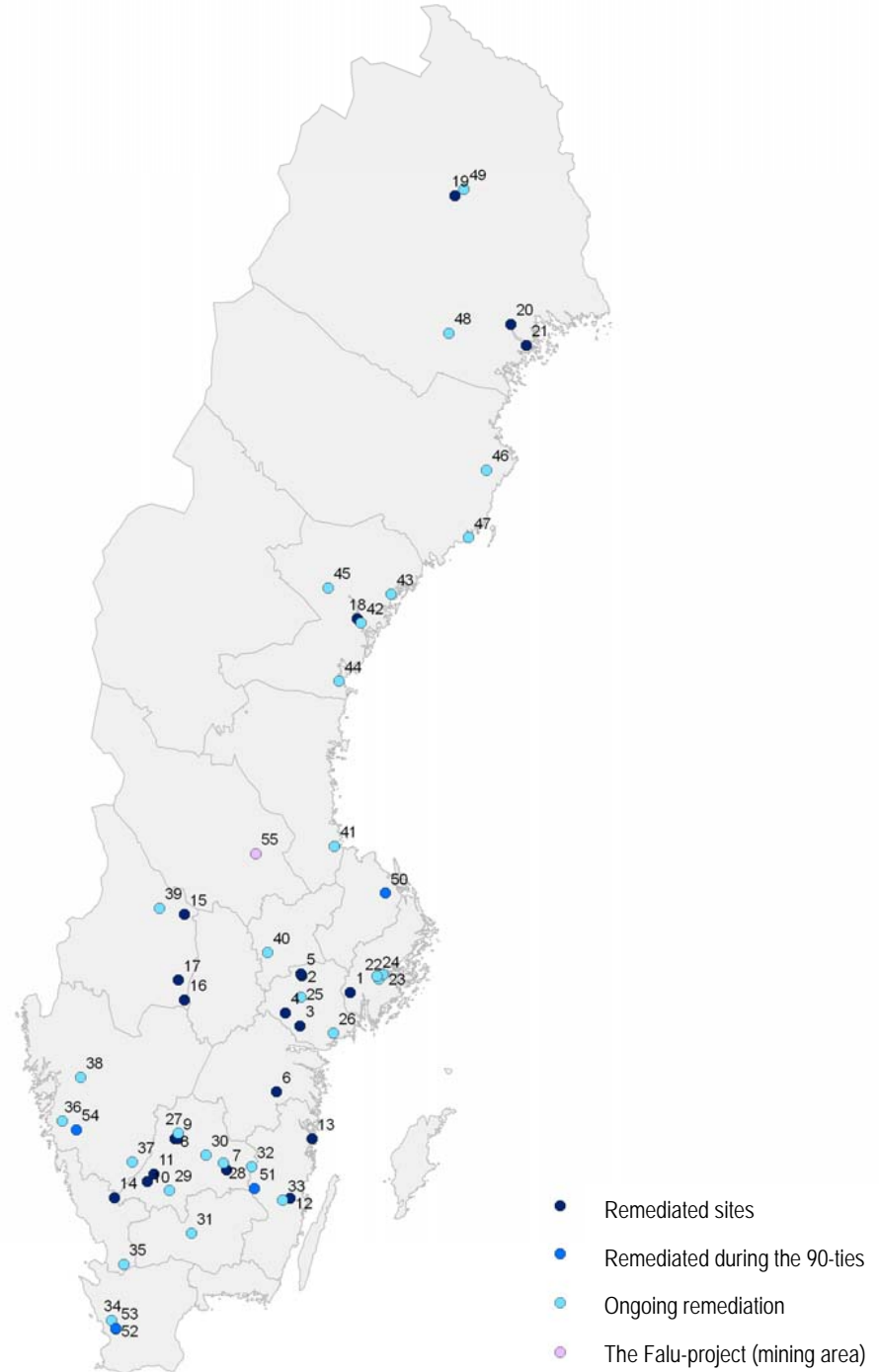
Which risk reduction by which measure?
Comprehensive and measurable

Remediation targets

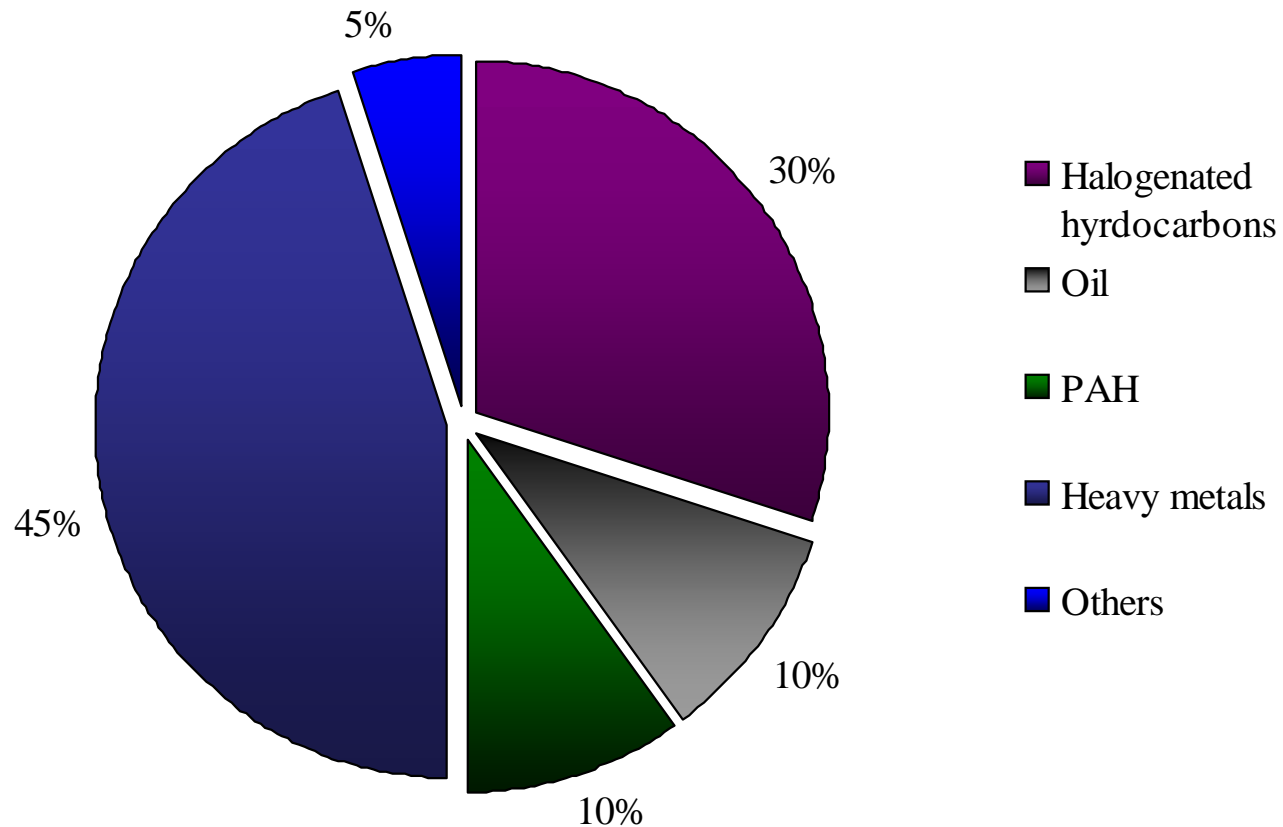
Specification of goals for remediation
measurable, calculable, time scheduled



Ongoing and Remediated Sites by State Funding Period 1995-2004

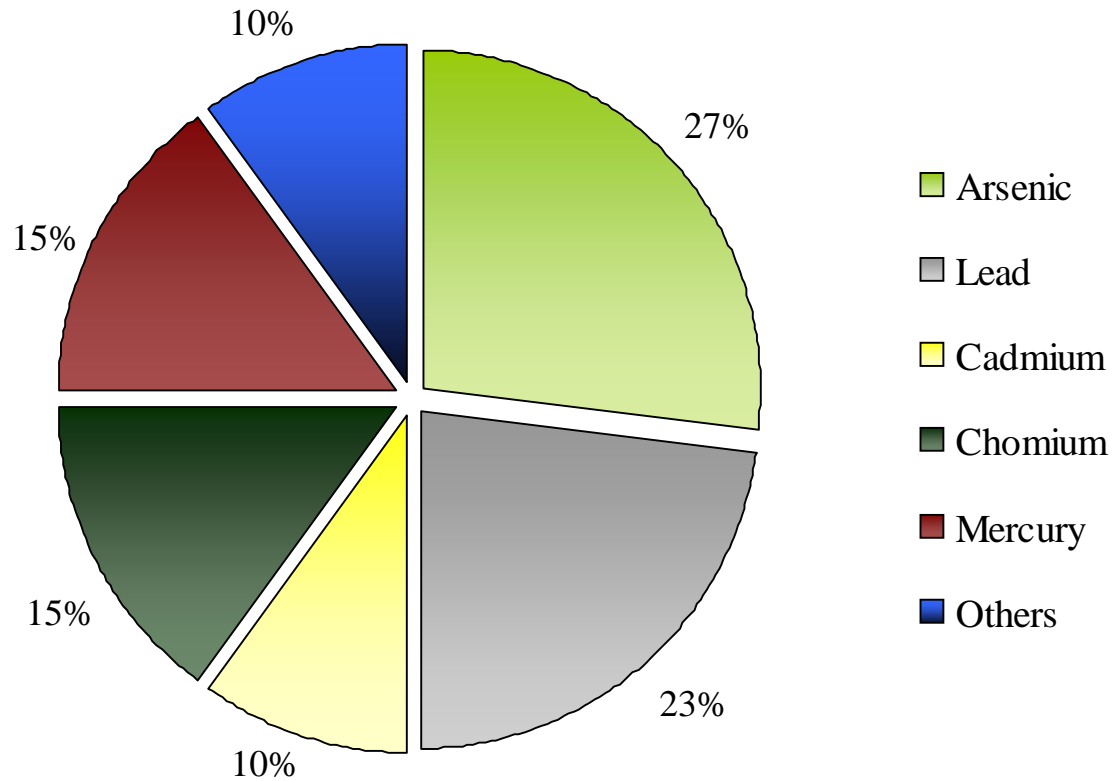


Common contaminants



Distribution of the most common contaminants at the regional councils lists of prioritized sites

Common metals



Distribution of the most common metals at the regional councils lists of prioritized sites



More Information

- www.naturvardsverket.se
- www.miljomal.nu

Thank you!