

# BaltHazAR

## Baltic Hazardous waste and Agricultural releases Reduction

### Eutrophication

The Fifth HELCOM Baltic Sea Action Plan  
Stakeholder Conference 2010

Helsinki 3 March 2010

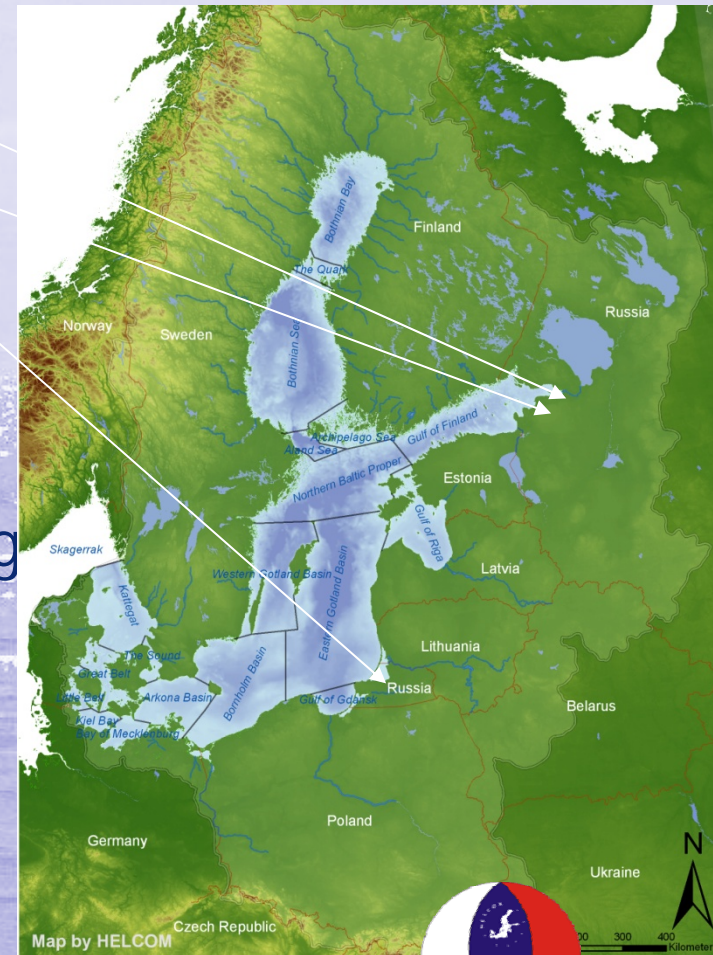
Kaj Forsius, Project Manager, HELCOM



# BaltHazAR Project 2009 – 2011

## Hazardous waste & Agriculture components

- St. Petersburg
- Leningrad oblast
- Kaliningrad oblast
- Overall coordination at HELCOM Secretariat
- Russian Partner leading activities in Russia
- Consultants from EU and Russia
- 2,5+1 Million Euro grant from EU



# Tasks and Goals

## Large animal farms

- Inventory and initial risk assessment
  - List of priority farms
  - Legislative assessment
  - Proposals for pilot projects
- 
- Goal is to support development of Russian NIP for the BSAP
    - Prioritize measures
    - Connect with financing for investments
    - Coordinated with RusNIP



# Inventory of large farms

<b>Animal production</b>	<b>Leningrad region</b>	<b>Kaliningrad region</b>
<b><i>Poultry farms</i></b>	<b>16</b>	<b>2</b>
<b>Heads</b>	<b>20 415 950</b>	<b>1 751 900</b>
<b><i>Pig farms</i></b>	<b>9</b>	<b>13</b>
<b>Heads</b>	<b>157 000</b>	<b>57 437</b>
<b><i>Cattle farms</i></b>	<b>136</b>	<b>32</b>
<b>Heads</b>	<b>172 220</b>	<b>28 084</b>
<b>Total</b>	<b>161</b>	<b>47</b>



# Prioritization of farms



Photo: Pasi Valkama

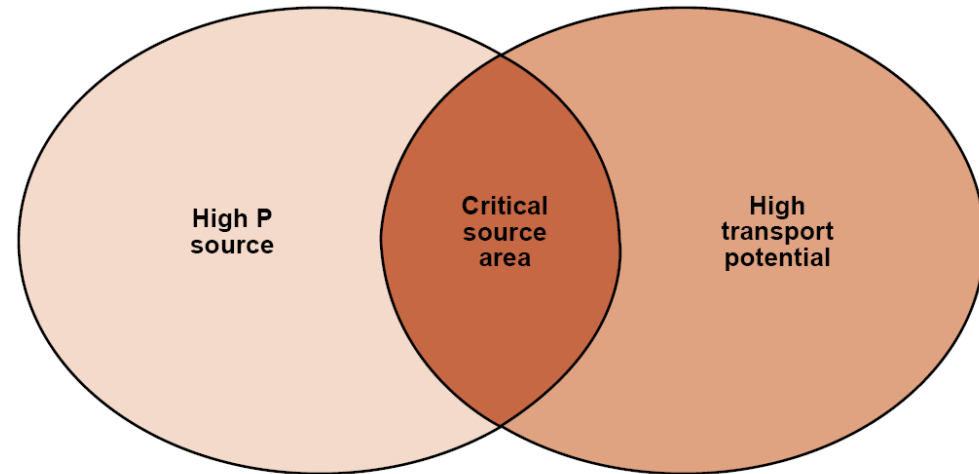


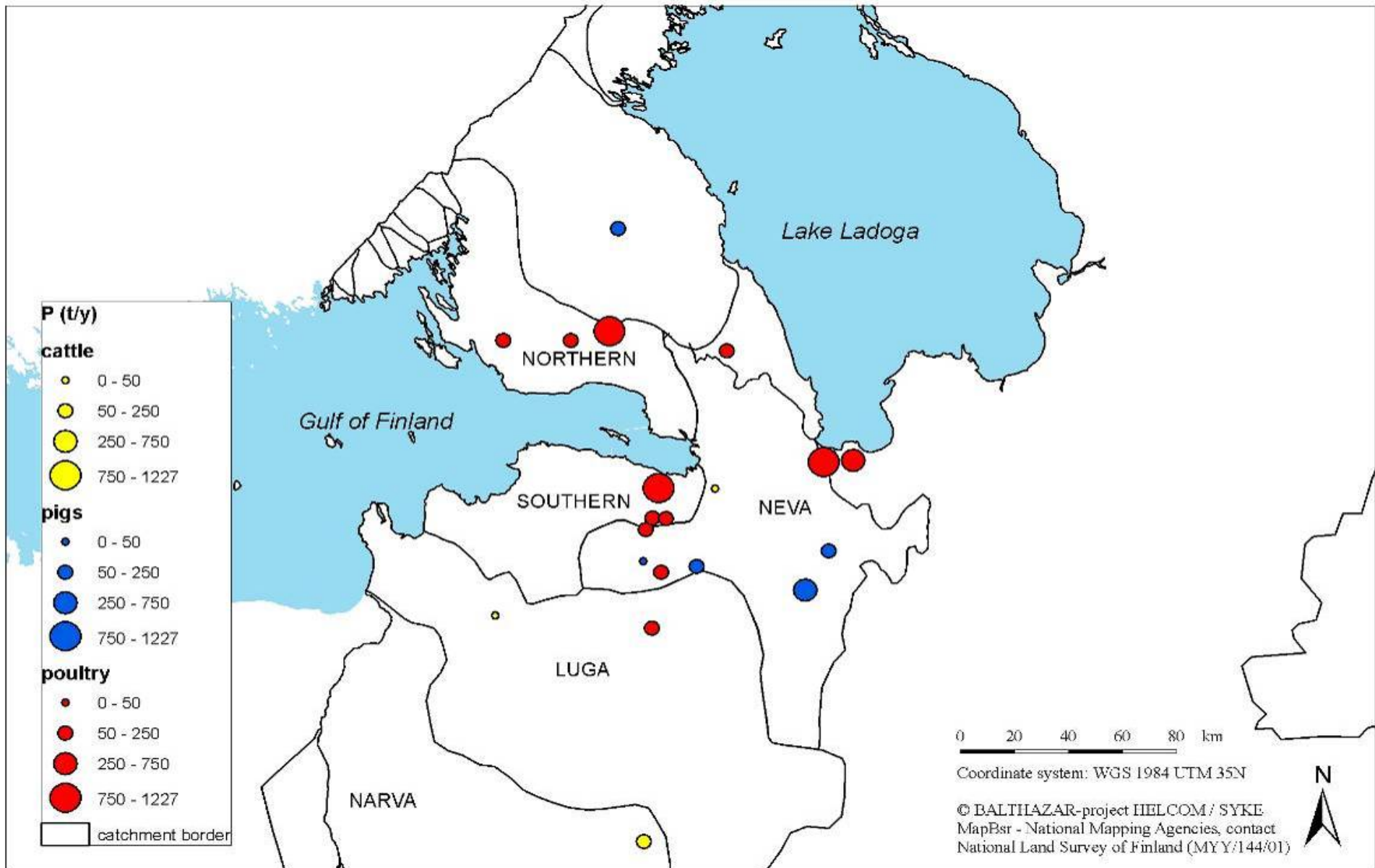
Figure 10. Critical source areas for P loss from a watershed occur where areas of high soil P and transport potential coincide.

<http://pubs.cas.psu.edu/FreePubs/pdfs/uc162.pdf>

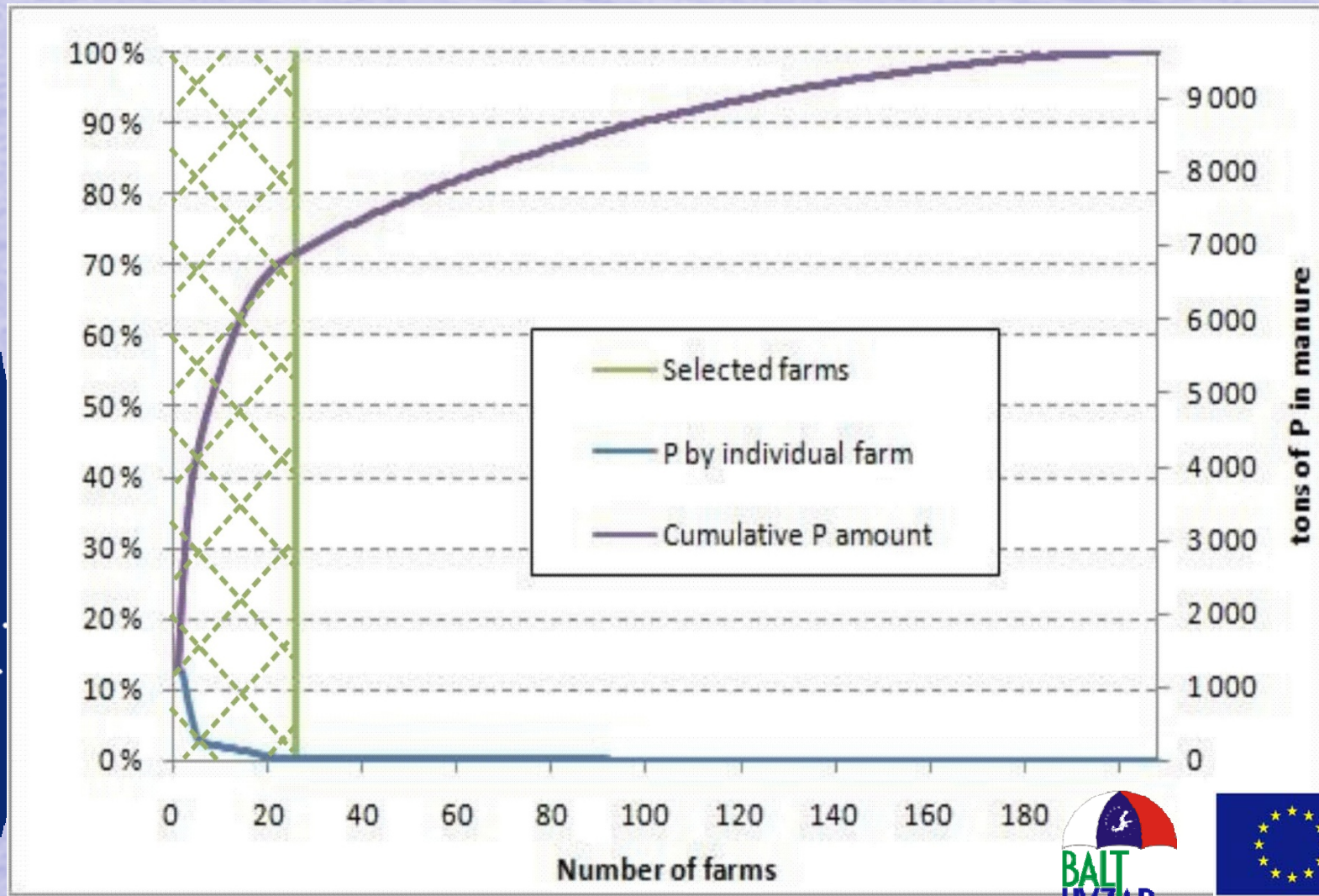
## In addition:

- Verified nutrient releases
- Feasibility to implement advanced agro-environmental investments

# Priority farms in Leningrad Region



# Distribution of Phosphorus (P) in manure



# Pilot Project proposals

## Leningrad region

- Poultry factory: 0,7 Million birds, insufficient manure management
- Cattle farm: 10 000 juveniles, no manure storage
- Pigs&cattle farm: 8000 pigs and 1000 dairy cows, insufficient manure management

## Kaliningrad region

- Slavsky municipal pilot: 10 farms, holistic management of manure
- Cattle farm: 430 animals, no manure management
- Small pig farm: observed high leakages, no manure storage





# Implementation of measures

- Pilot projects financed by BALTHAZAR (limited budget)
  - Implementable and where project input would make a difference
  - Commitment and co-financing
  - Model for other similar farms
- Large investments at priority farms need combination of different financing sources
  - National programmes
  - IFIs
  - Co-financing by enterprises
- Commitment by authorities necessary to implement environmental requirements at farms
- Incentives to implement requirements



# Upcoming:

- Steering Group Meeting – Baltic Sea Day
  - Decisions on pilot projects
- Development and implementation of pilot projects by February 2011
- Phase II will start probably in 2011 with 1 year implementation period
  - Continuation of pilots
  - Input to HELCOM assessments
- Recommendation: Risk assessment and prioritization of farms to be done by other CPs!





**Thank You for the attention!**