SOME KEY MESSAGES FROM THESSALONIKI

Which compounds

COMPOUND	G1	G2	G4	average	ave * 3 by mention
Pharmaceuticals (NSAIDs)	1	4	1	2	2.0
Agrochemicals	3	1	3	2.333333	2.3
Rodenticides	4	3	4	3.666667	3.7
metals (Pb, Hg, As,)	5	5	1	3.666667	3.7
Perflourinated,	1		5	3	4.5
carbanates		2		2	6.0
OCs	7	7	7	7	7.0
brominated and newer FR		6	8	7	7.0
Molluscicides	6			6	18.0
antibiotics			6	6	18.0
Micro-plastics	8			8	24.0
Personal care products			9	9	27.0
PAHs			10	10	30.0

OUTPUT CAPTURE: CANDIDATE SPECIES/COMPOUND/MATRIX AND UNCERTAINTIES

GROUP 2 Metals (1.Pb, 2.Hg)

Purpose of monitoring	Trait	Suggested species	Matrix	Rationale/Comment	Key issues/uncertainties
Pb - Exposure biomonitoring	scavengers	Vultures, eagles, kites	Blood, liver, kidney, bone	Hunting ammo	Proven it is highly toxic, cross- country (European) helpful for ECHA, large scavengers available in the South and North
	Active hunters	Eagles, goshawks, eagle owls, peregrine, marsh harrier	Blood, liver, kidney bone	Waterfowl, pigeons, thrushes (mediterranean aspect) carrying embedded lead shots	
Pb - Effects biomonitoring (if different)	Same as above	Same as above	Same as above	Same as above	Carcasses should be used to monitor effects (lethal concentrations), blood from breeding birds and/or nestlings might be used to monitor health effects and also check

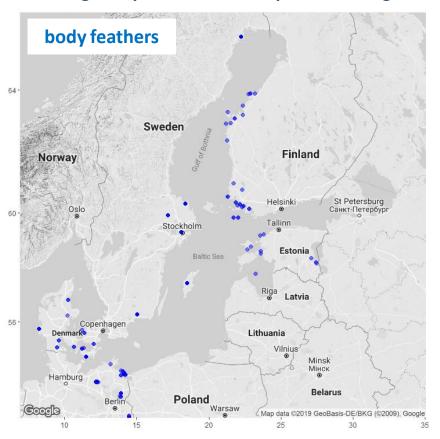
RODENTICIDES

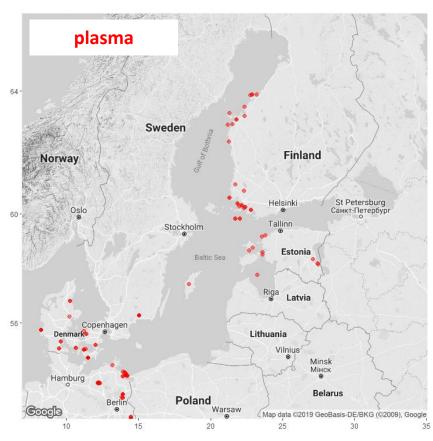
Purpose of monitoring	<mark>Trait</mark>	Suggested species	Matrix	Rationale/Comments/uncertaintiest
Biomonitoring over time at a pan European scale	above but	Eagle owl LE owl Common kestrel Common buzzard	<u>Livers</u>	Are things at European scale changing in terms of exposure???? This is the question. Maybe some surrogate species if there are no buzzards
Biomonitoring for good spatial scale resolution		Tawny owl Barn owls Kites	Livers	Can select tawnys from urban, open farmland and forest (control). Not in Norway Tawny owls are less easy to find perhaps than buzzards in terms of carcasses. Tawny owls resident, unlike buzzards Can use owls for effects monitoring by measuring anticoagulation in blood and sampling birds fom nestboxes Influence of dumps (black kites feeding on



BONUS Science for a Bettle Police of the Baltic Saa Recion

Nestlings as spatial sentinels: spatial coverage





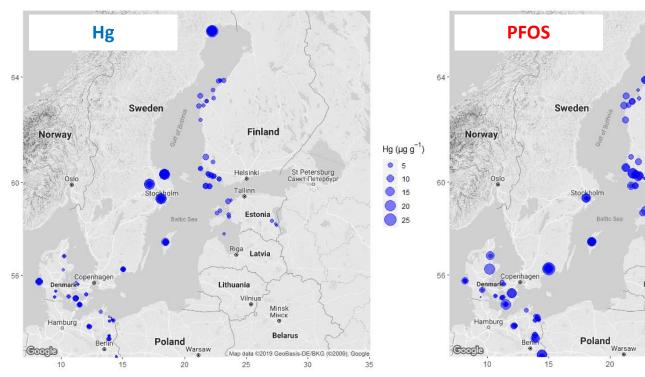


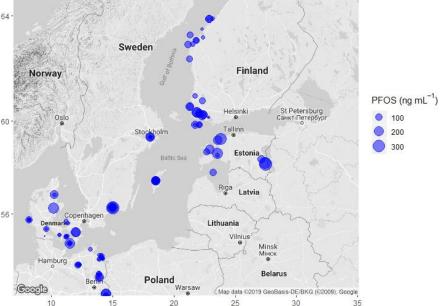




BONUS SCIENCE FOR A BETTER PUTURE OF THE BALTIC SLA RECION

Nestlings as spatial sentinels of Hg and PFOS exposure







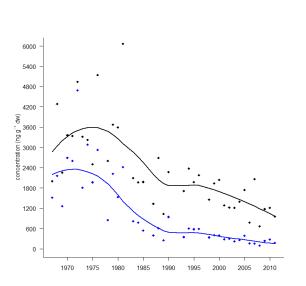


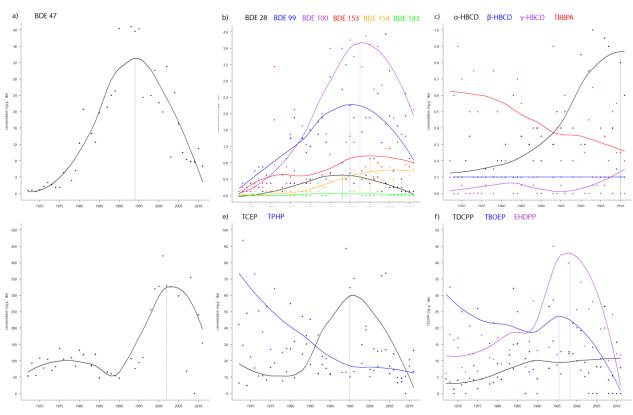






Museum collections to study long-term time trends: POPs and nBFRs





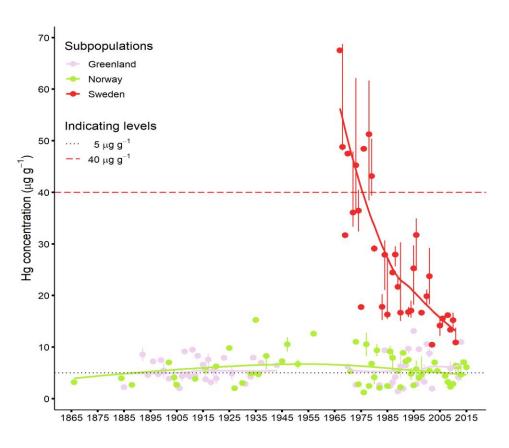


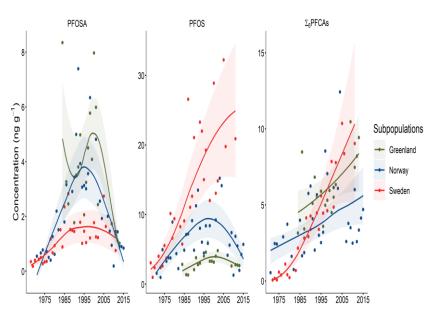












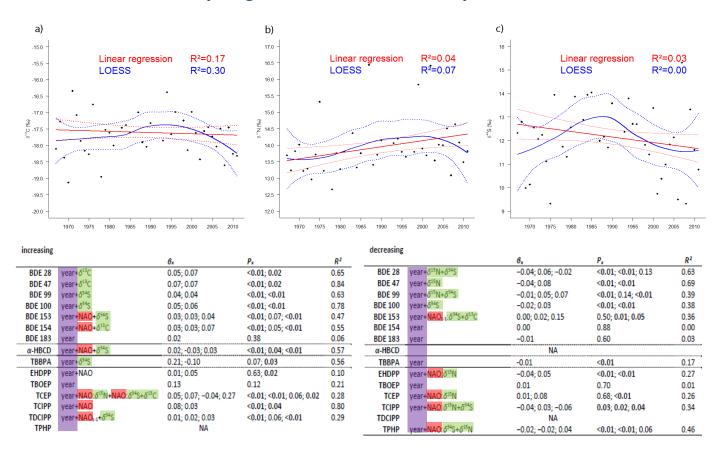








Museum collections to study long-term time trends: dietary and climate effects







THINGS TO CONSIDER

- Numbers, species, compound, matrix and sampling effort (new samples/banked samples) covered in Rafa presentation
- What are we trying to demonstrate—spatial coverage/temporal coverage/both/something else?
- Contaminants and isotopes?
- Make timeframe realistic for sample collection
- Don't make life overly difficult or overthink, it is a proof of concept.
- Once there are some data, it will throw up lots of questions, logistical, analytical and interpretative issues
- Will need to consider how to logistically interpret the output (in the agenda)