



National Institute for Public Health
and the Environment
Ministry of Health, Welfare and Sport

Risk Assessment of Metals in Rural Soils

Job Spijker

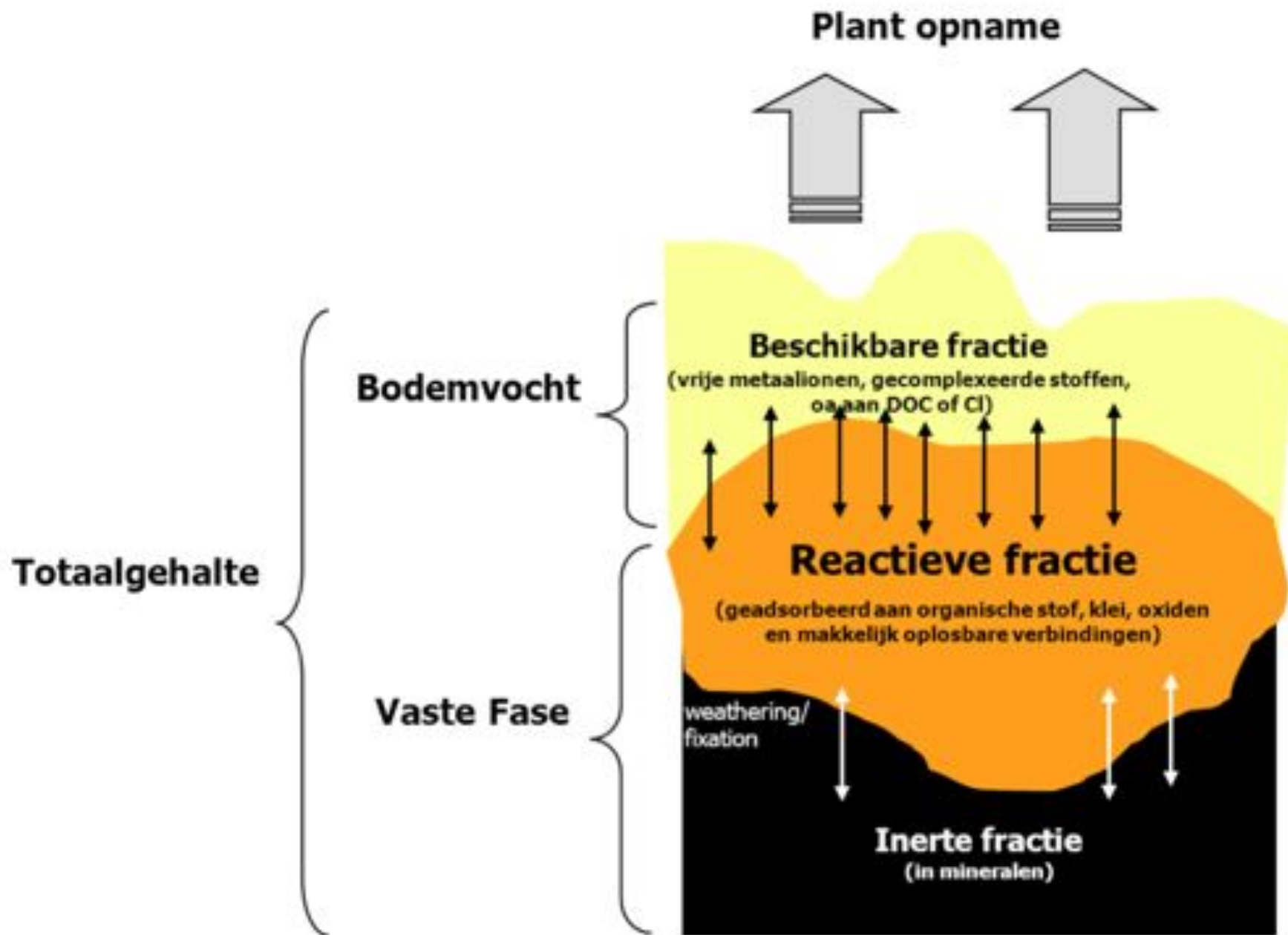
VVM Olivijndag November 28, 2012













Accept



Manage



Intervene

Background

Addition

Real

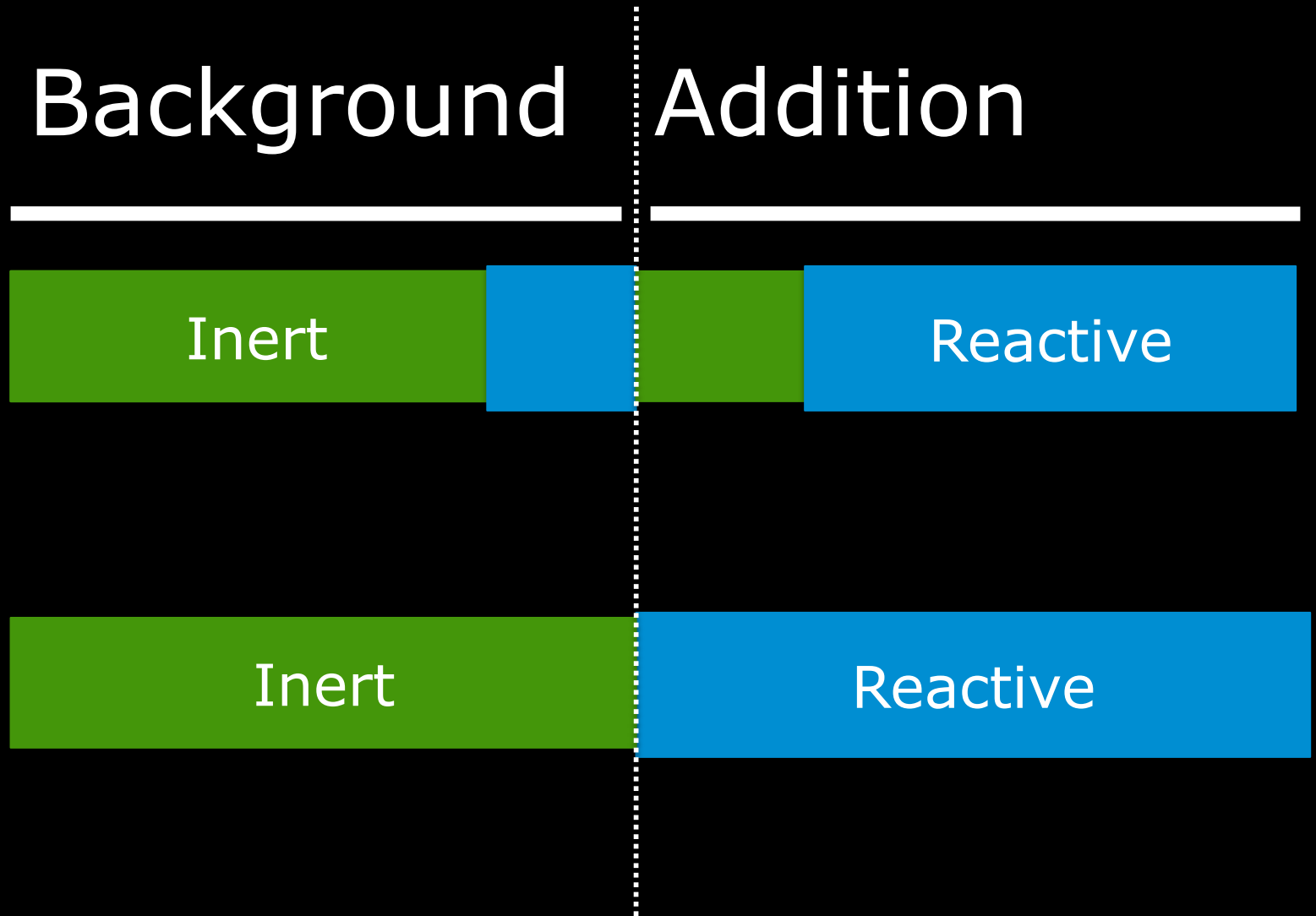
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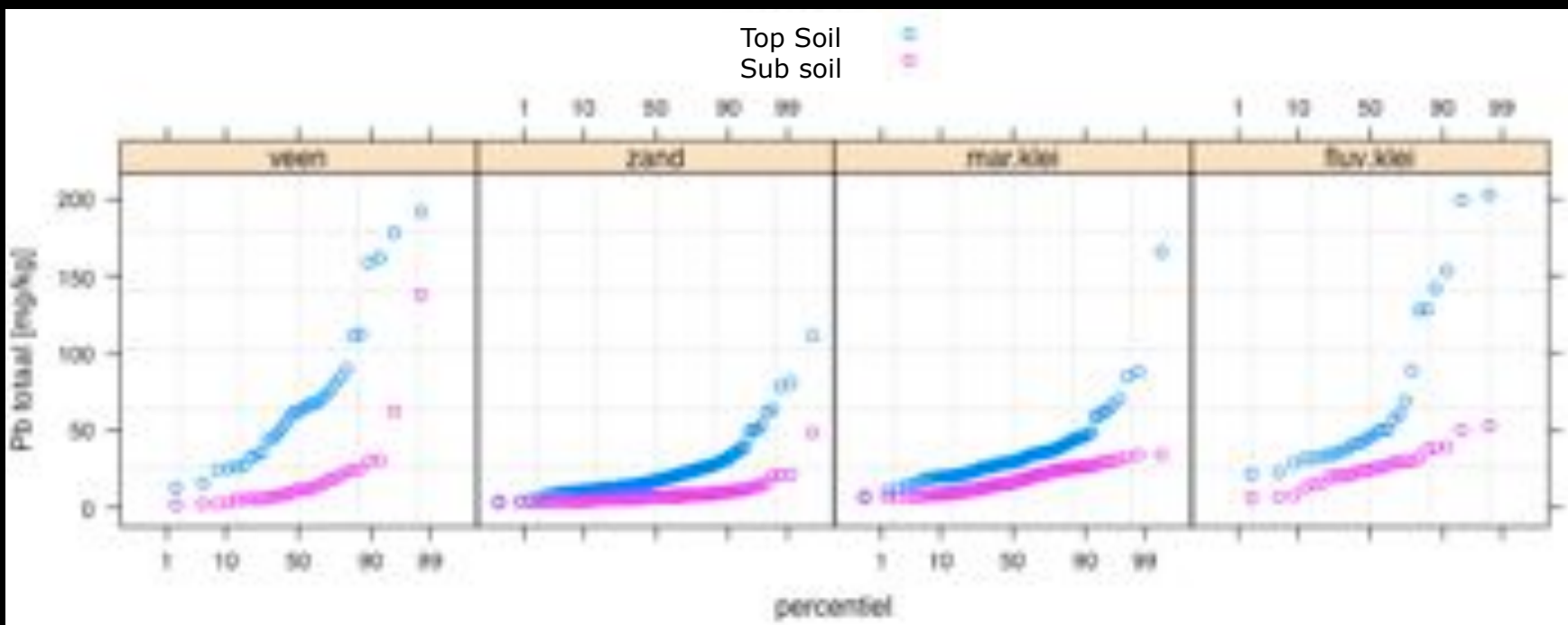
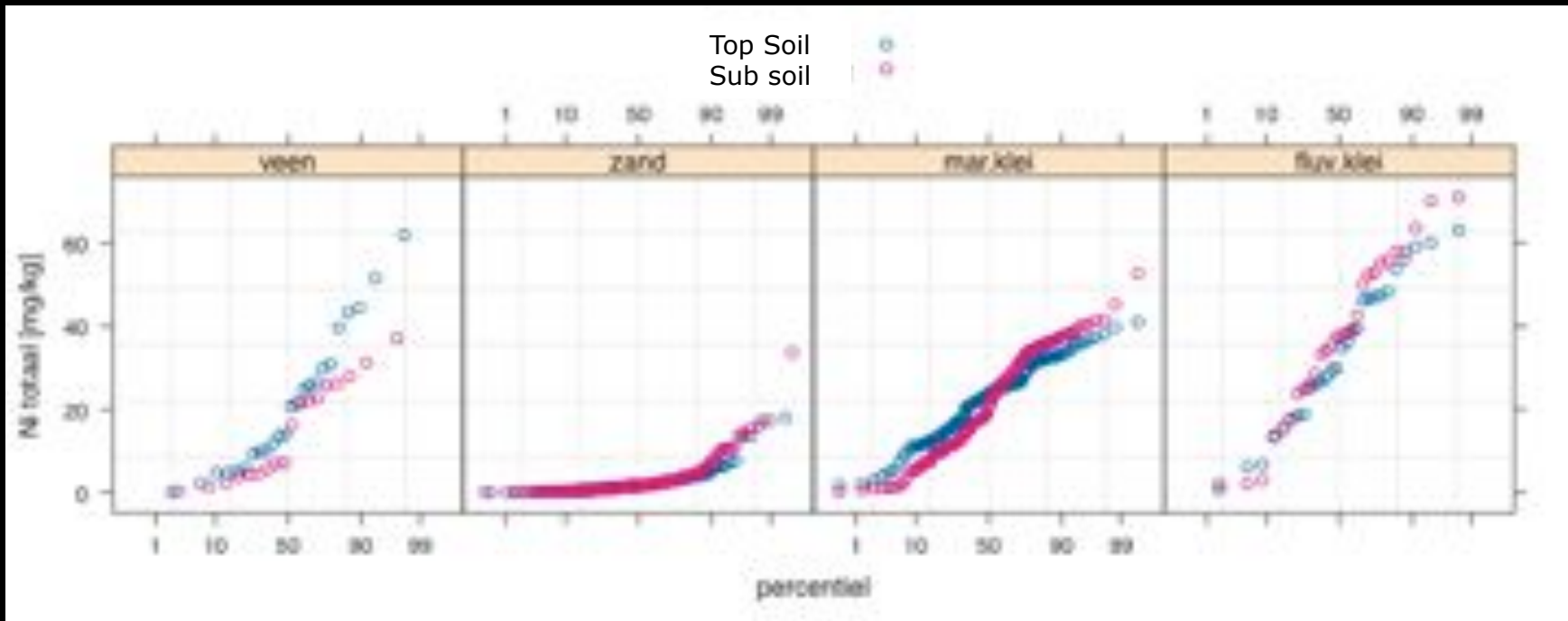
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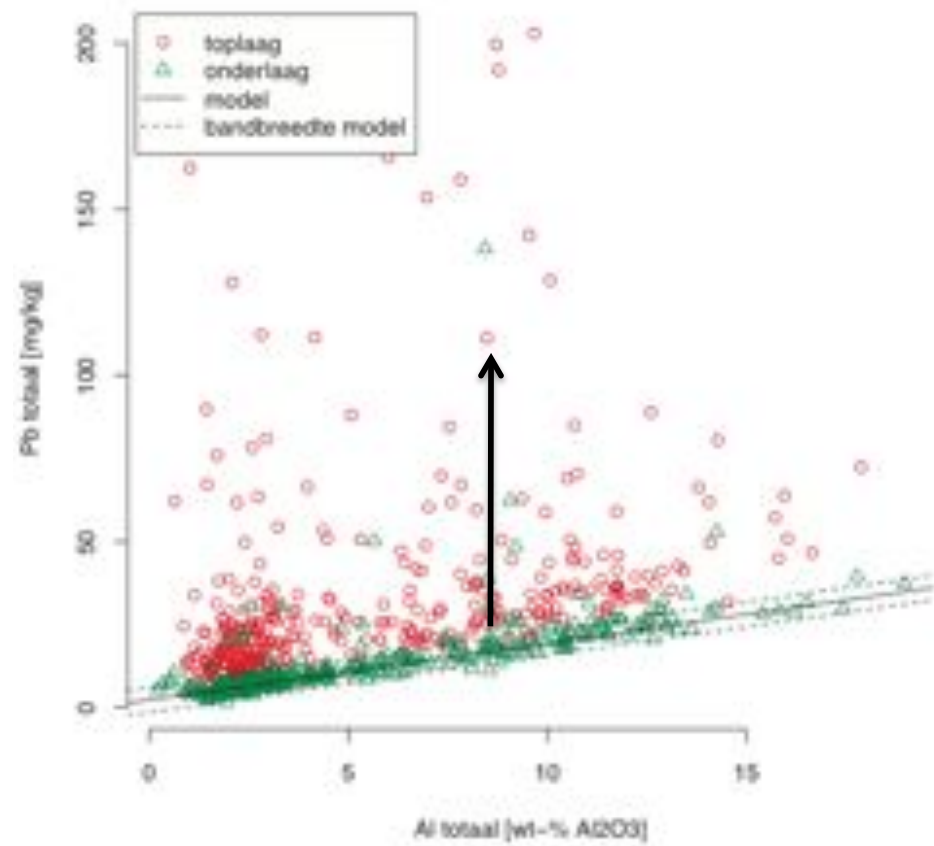
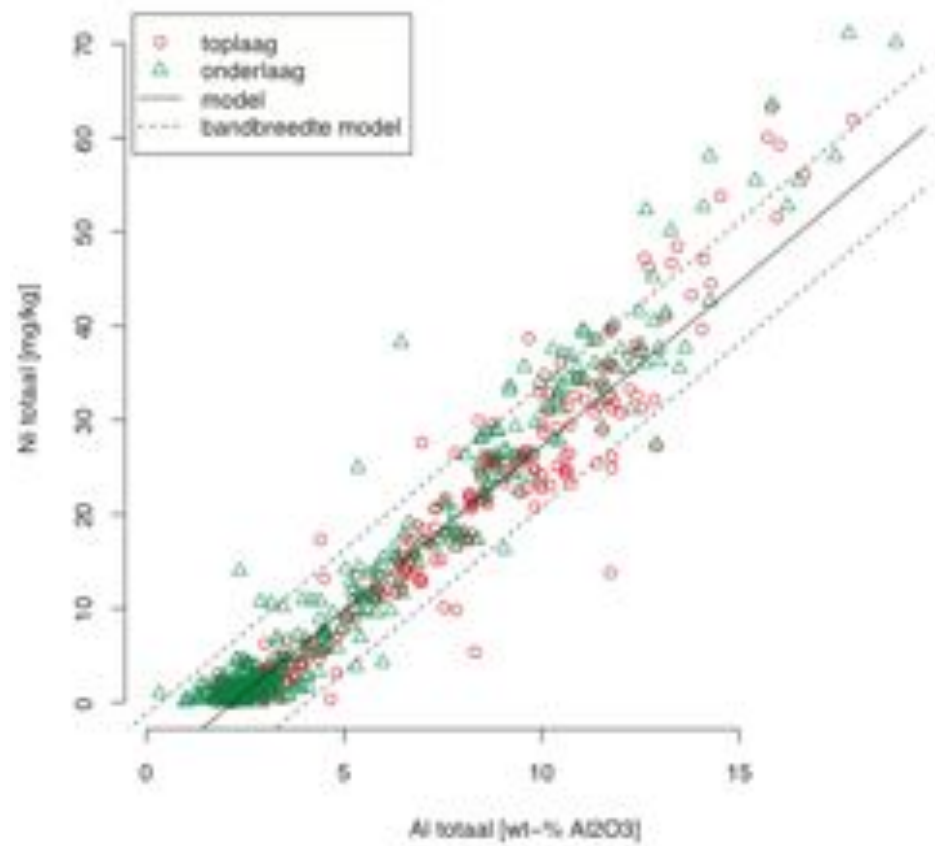
Simplified

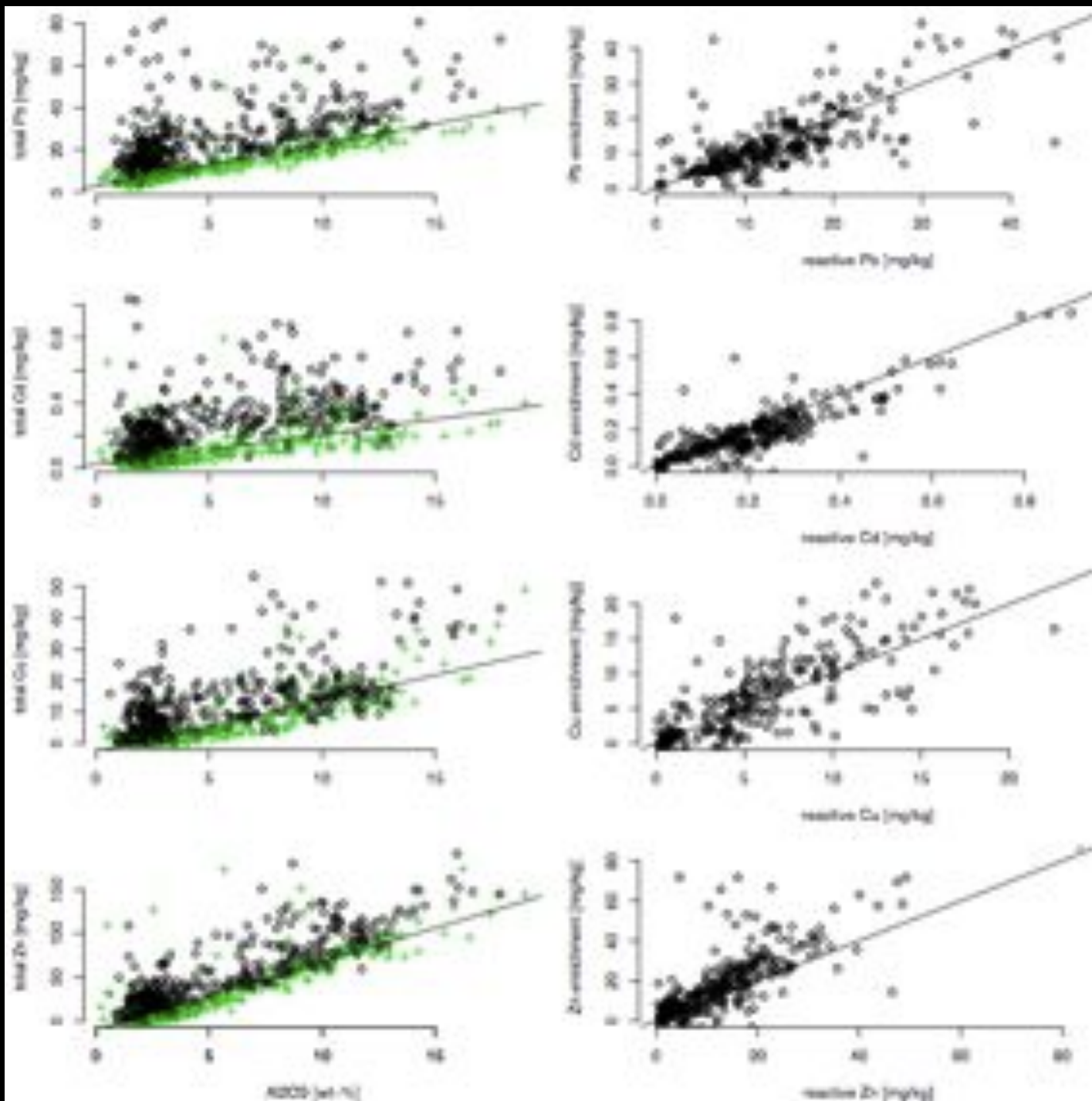
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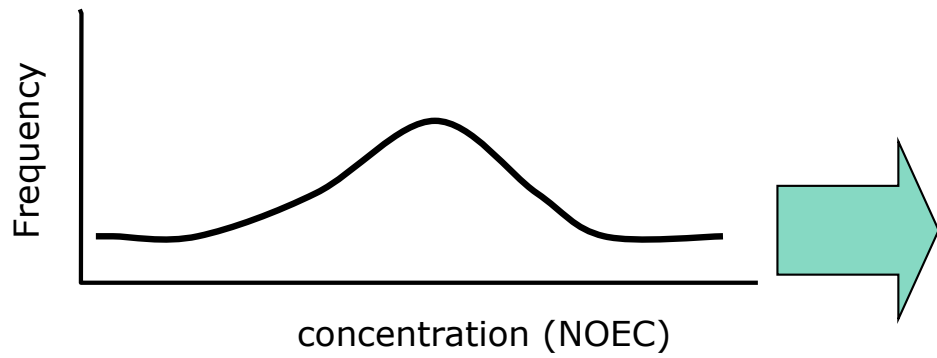
Reactive



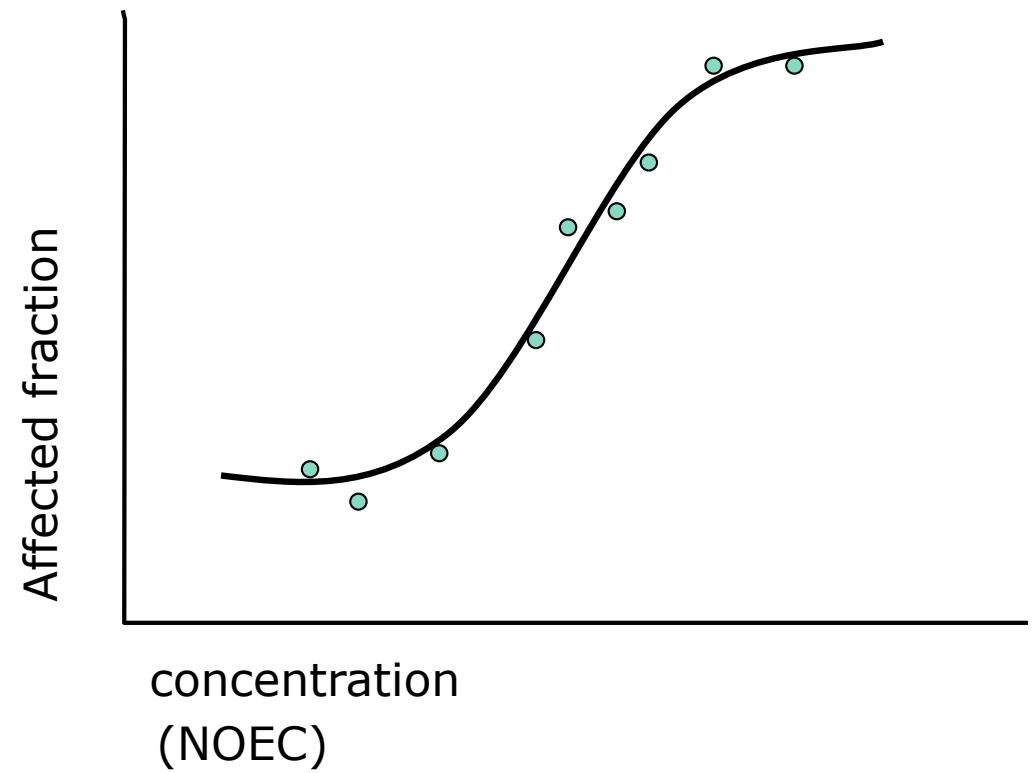


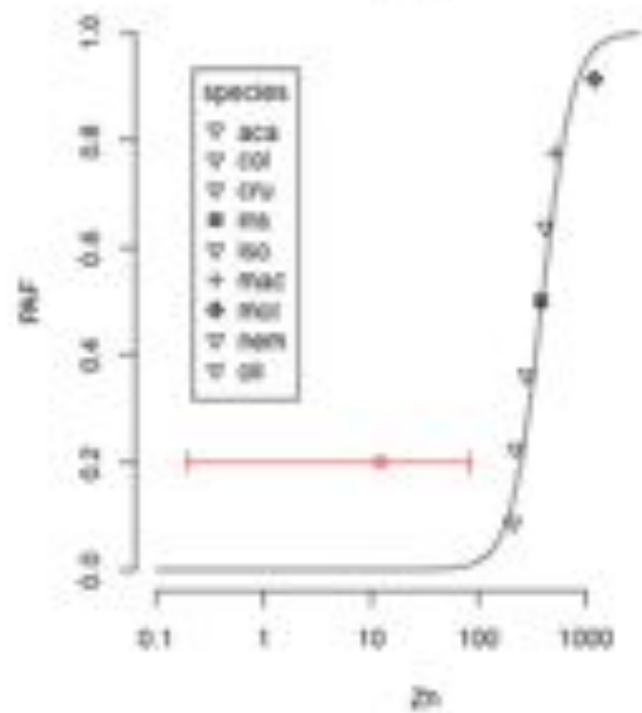
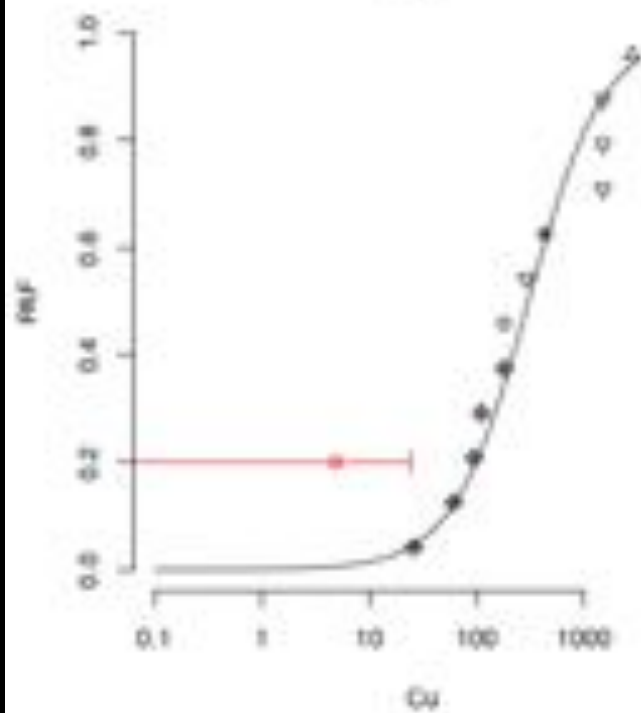
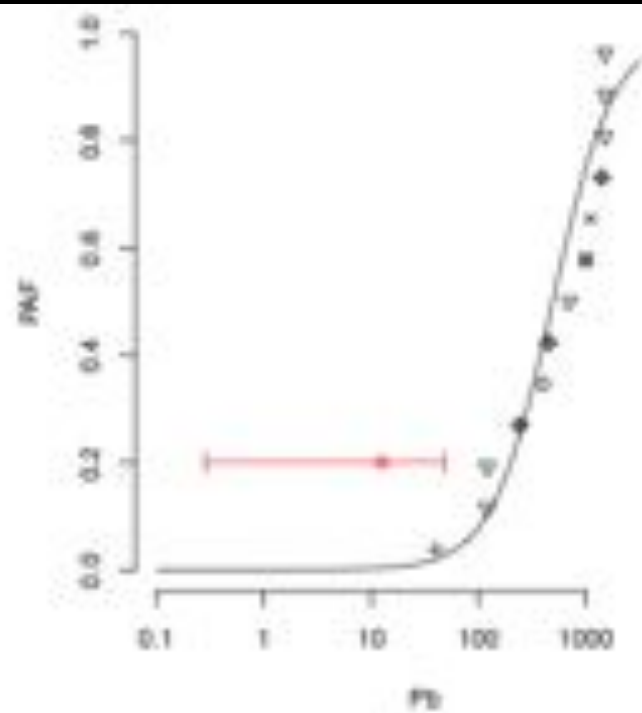
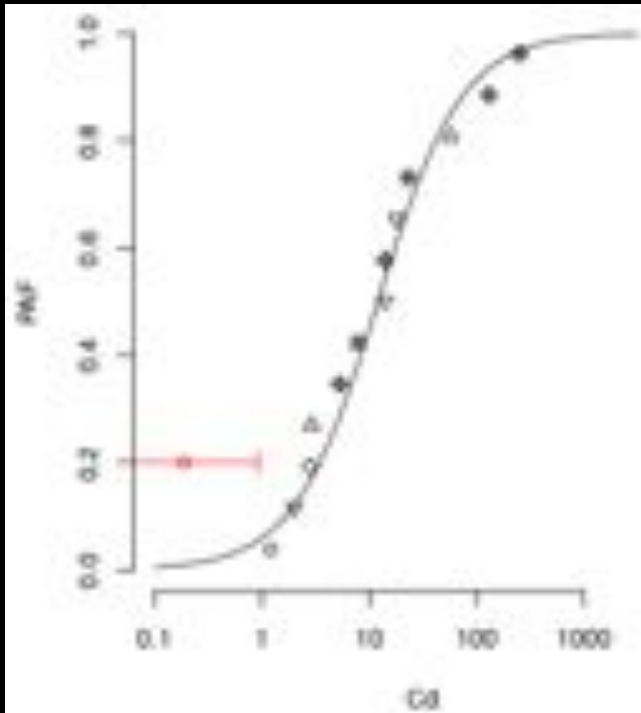






Species Sensitivity Distribution







Reference values

AC (background value):	30 (35) mg/kg
MPA:	0.26 mg/kg
SRC _{eco} :	100 mg/kg
Geom. mean MPA/SRC:	4.1 mg/kg
Reactive top soil median:	0.46 - ±4 mg/kg
Reactive top soil P ₉₅ :	1.65 - ±7 mg/kg



Conclusions

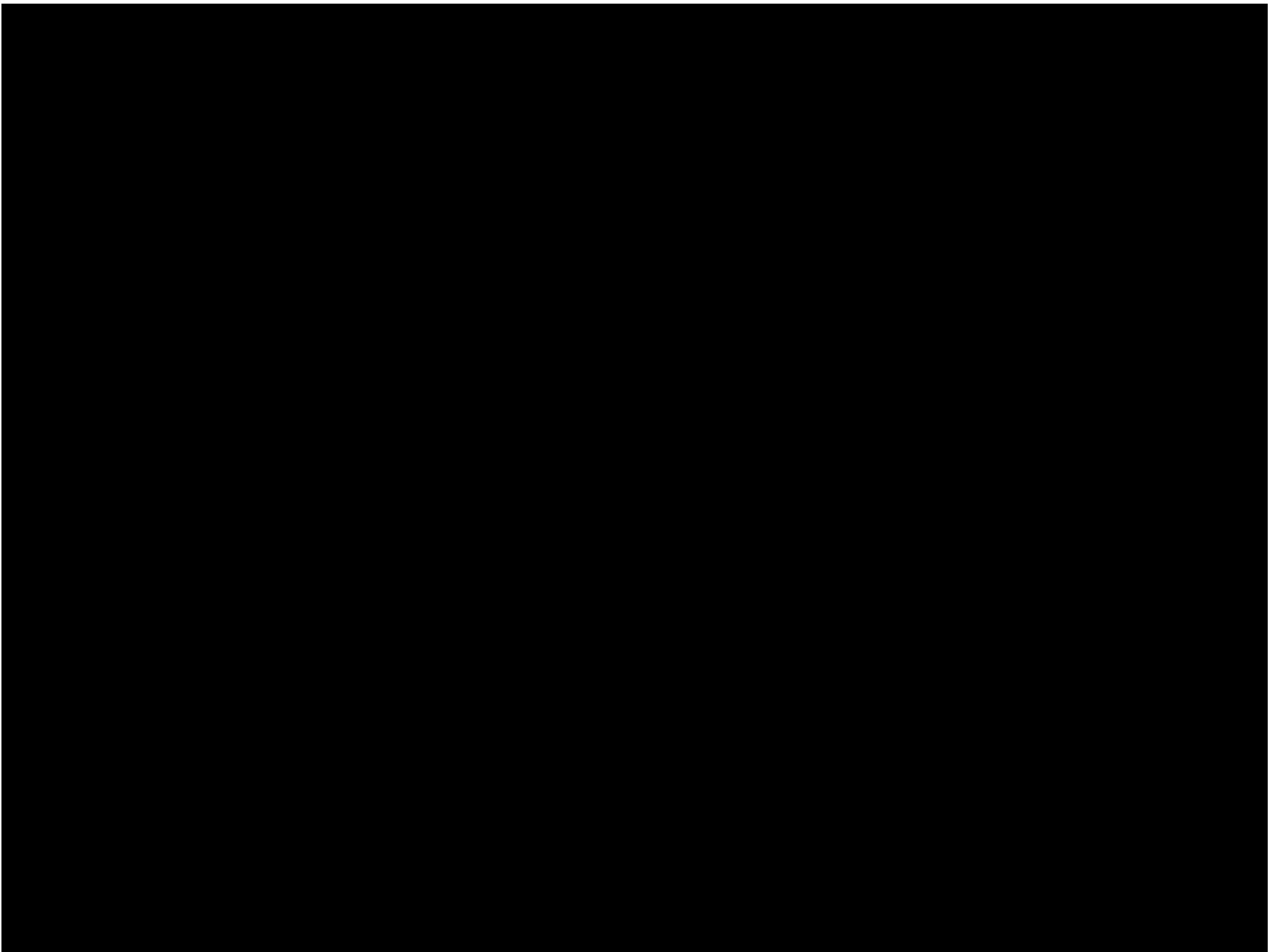
- Impact assessment – endpoints
 - Ecosystem
 - Groundwater
- Background and Added risk
- Legal values - conservative



National Institute for Public Health
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Thank You

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