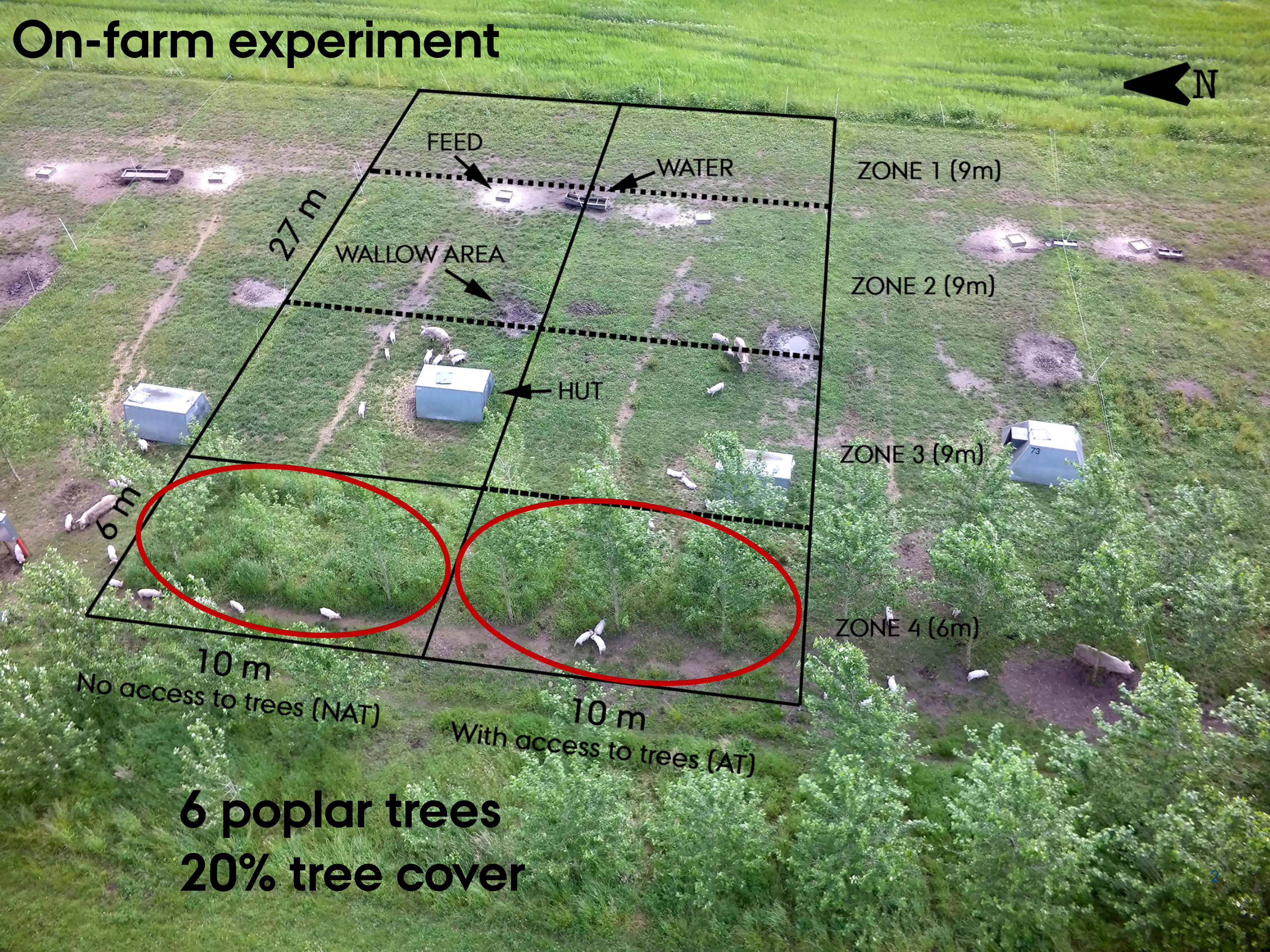
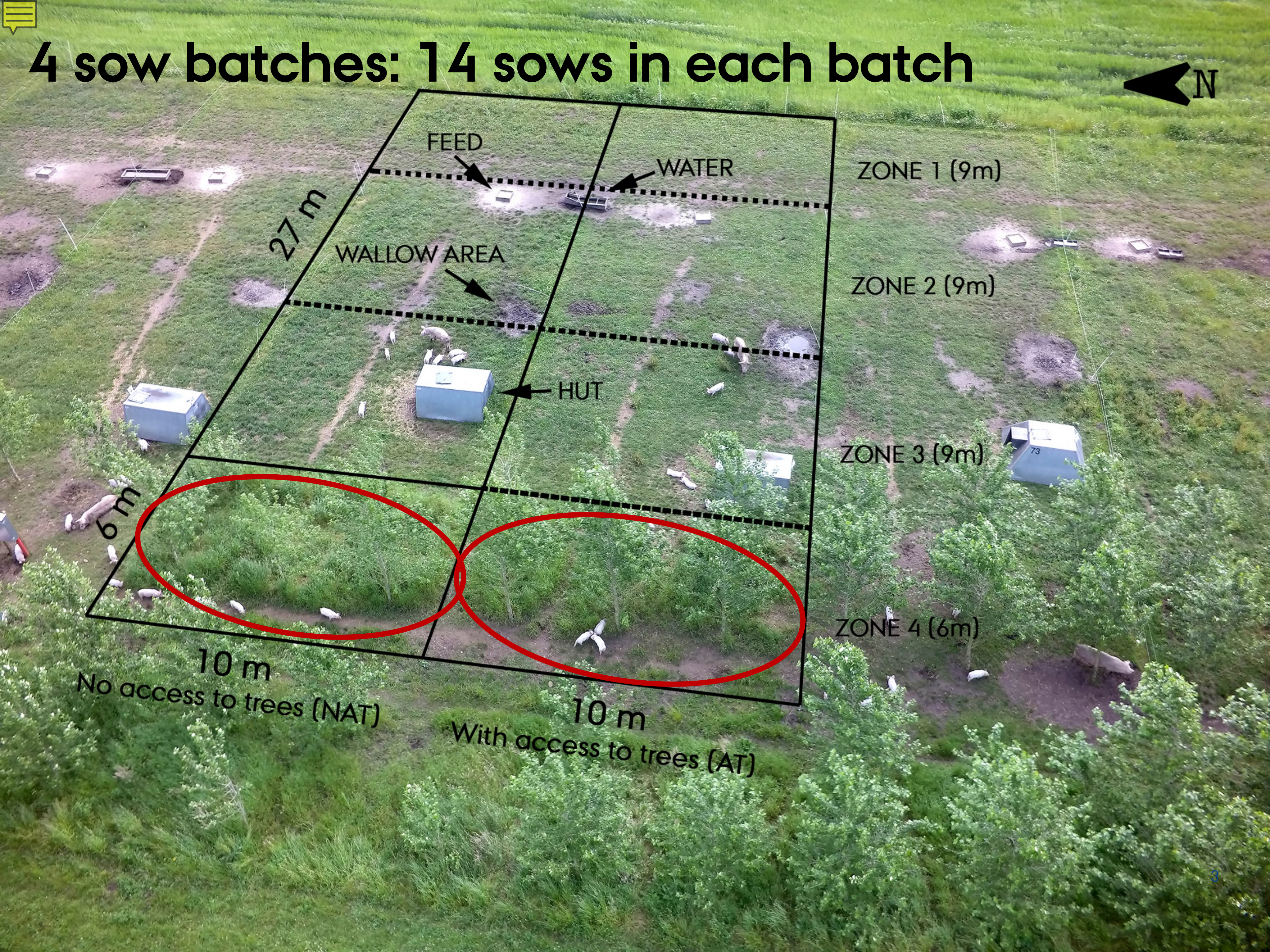
INTEGRATED PIGLET AND TREE BIOMASS PRODUCTION

MALENE JAKOBSEN, PHD STUDENT AARHUS UNIVERSITY

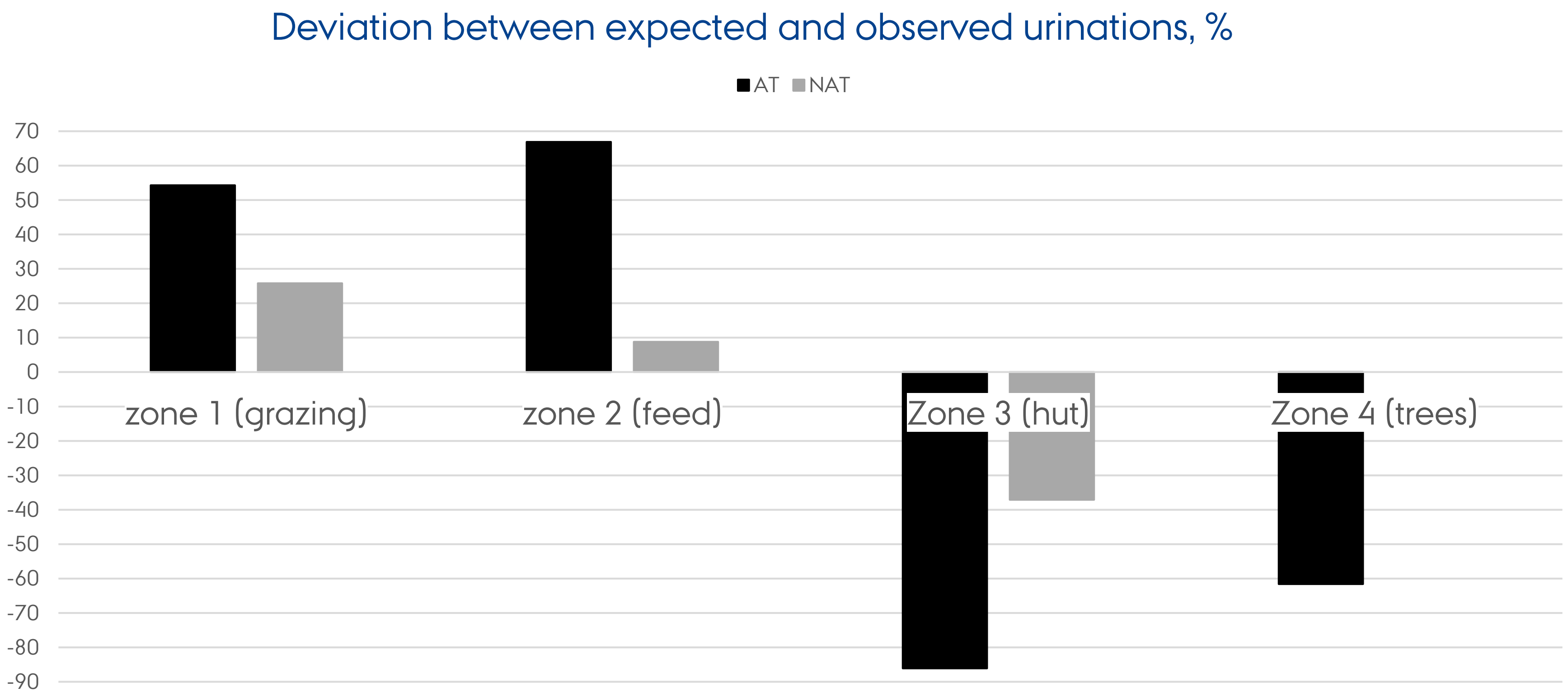

On-farm experiment
N
FEED
WATER
ZONE 1 (9m)
27 m
WALLOW AREA
ZONE 2 (9m)
HUT
ZONE 3 (9m)
6 m
ZONE 4 (6m)
10 m
No access to trees (NAT)
10 m
With access to trees (AT)
6 poplar trees
20% tree cover



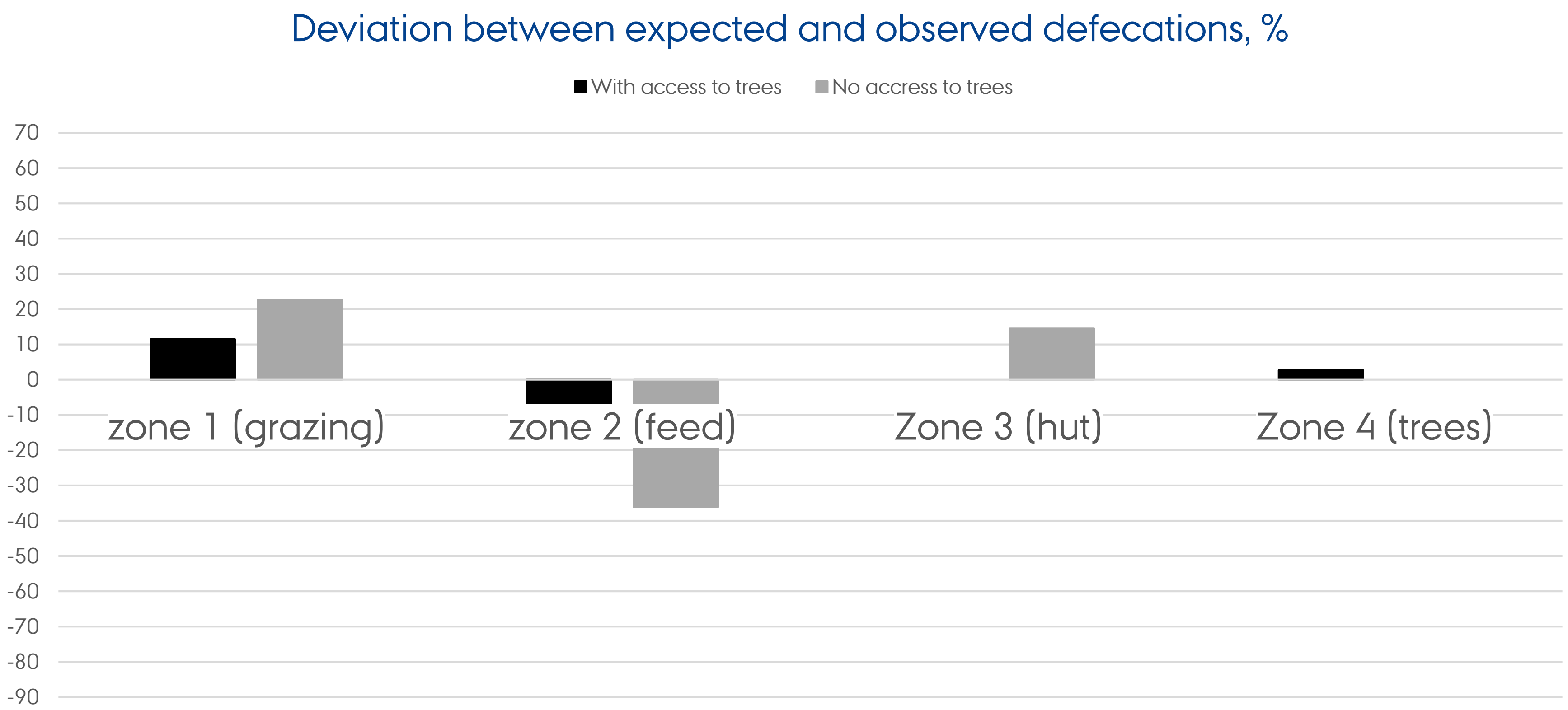
4 sow batches: 14 sows in each batch
N
FEED
WATER
27 m
WALLOW AREA
HUT
ZONE 1 (9m)
ZONE 2 (9m)
ZONE 3 (9m)
ZONE 4 (6m)
6 m
10 m
No access to trees (NAT)
10 m
With access to trees (AT)

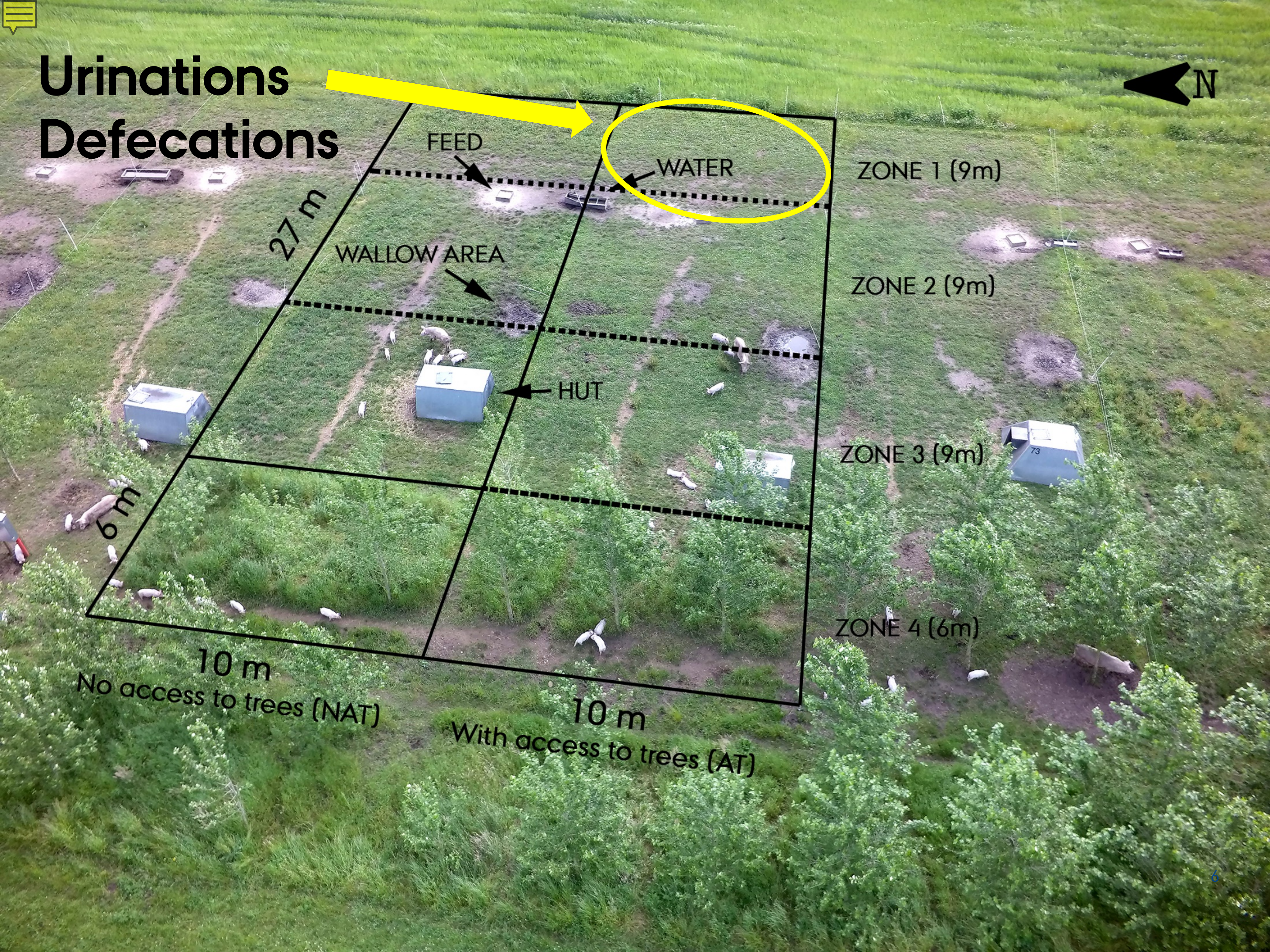
AARHUS UNIVERSITY

URINATIONS



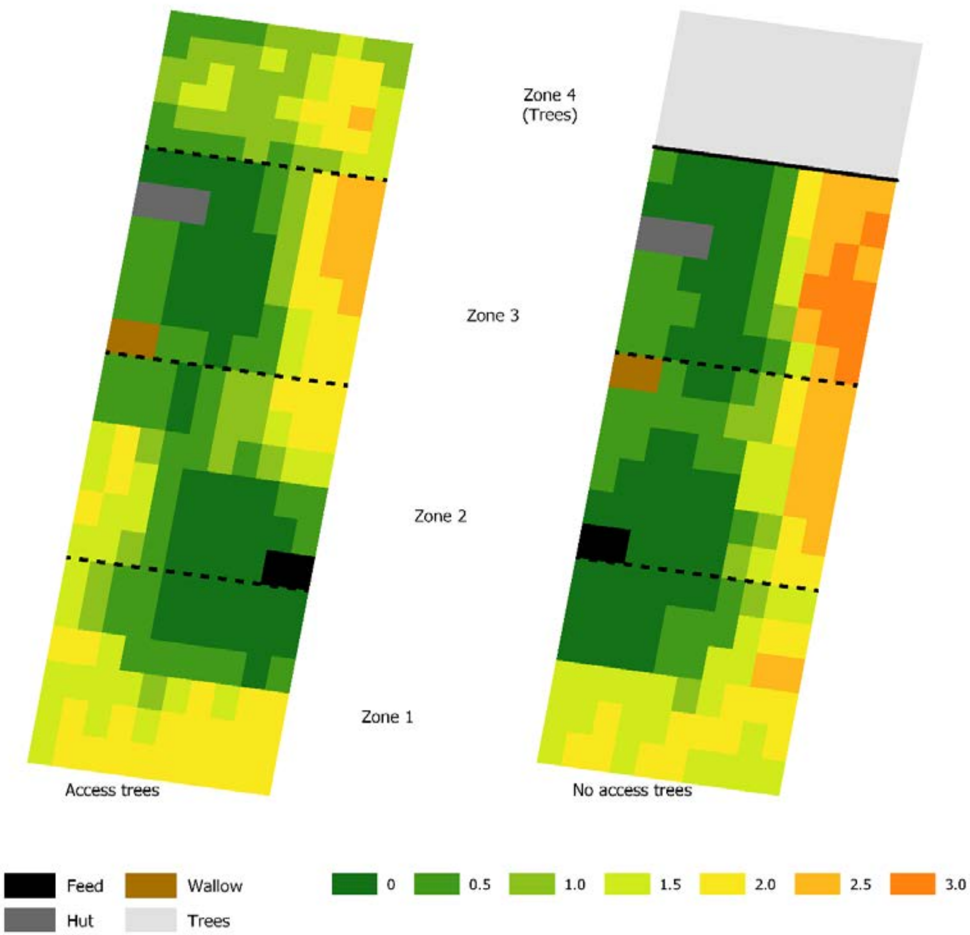
DEFECATIONS



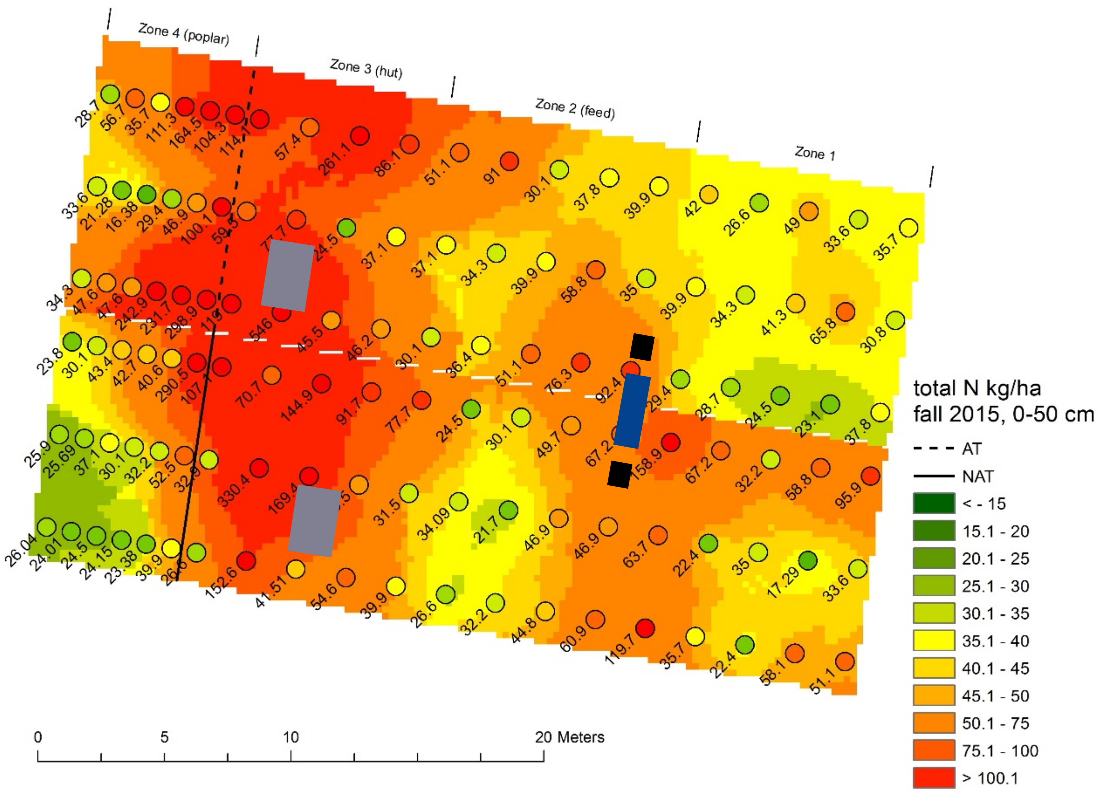

Urinations
Defecations
N
FEED
WATER
ZONE 1 (9m)
27 m
WALLOW AREA
ZONE 2 (9m)
HUT
ZONE 3 (9m)
6 m
ZONE 4 (6m)
10 m
No access to trees (NAT)
10 m
With access to trees (AT)

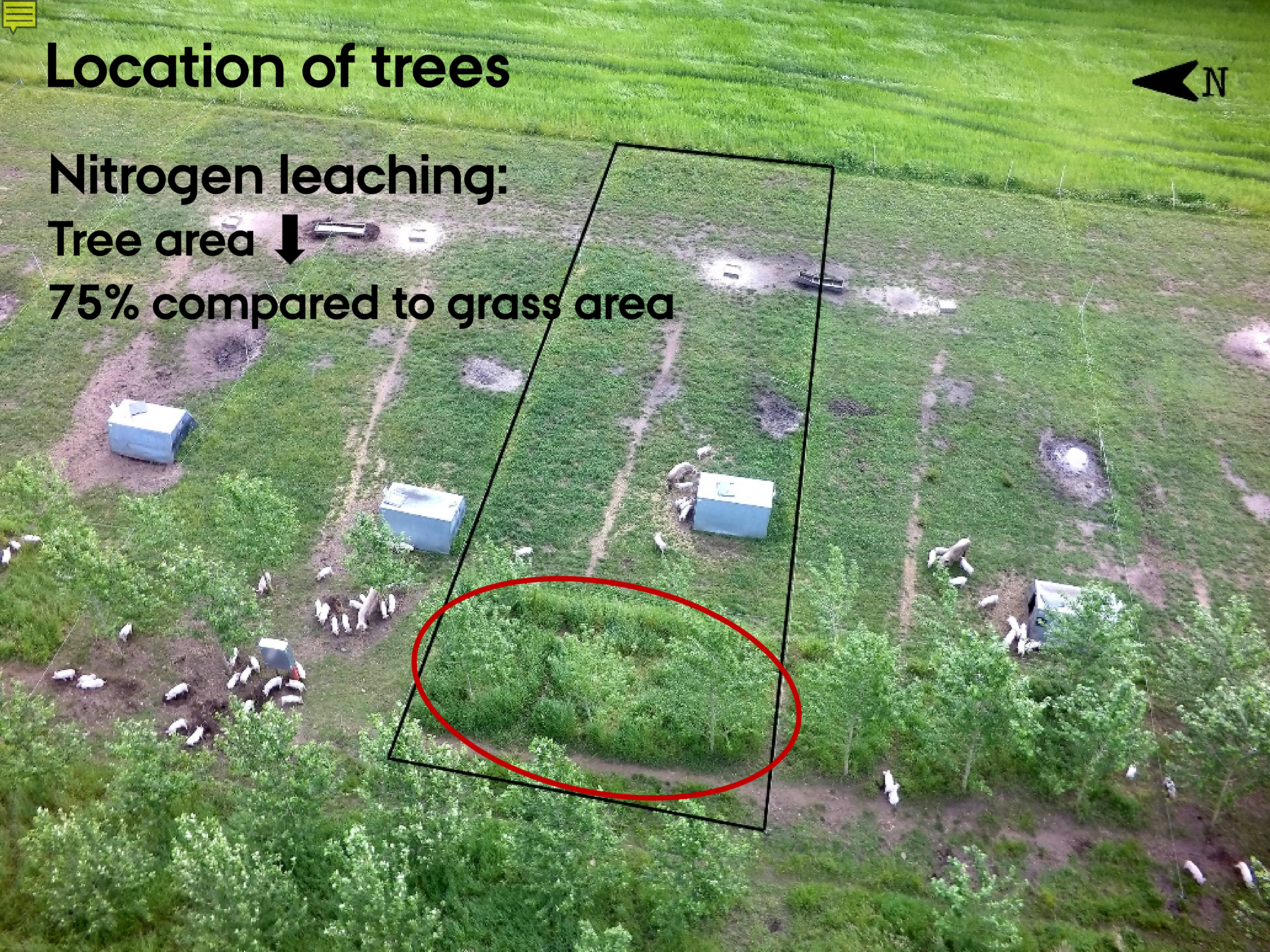
AARHUS
UNIVERSITY

ESTIMATION OF FAECES DISTRIBUTION AND LOAD

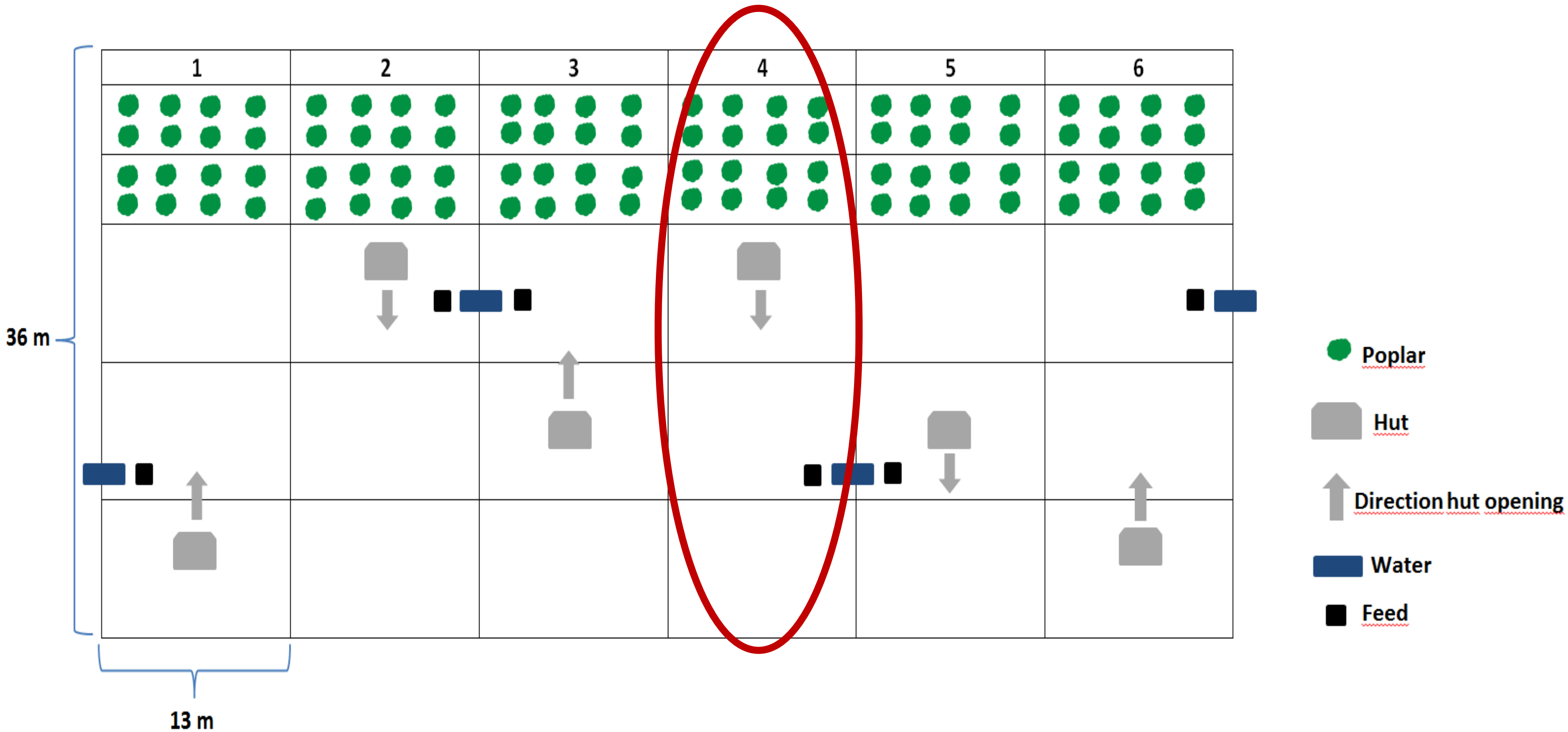


SOIL MINERAL NITROGEN




Location of trees
N
Nitrogen leaching:
Tree area ⬇
75% compared to grass area

SPATIAL DISTRIBUTION OF RESOURCES:




Focus?
Sows: elimination behaviour
Trees: increase trees cover - tree density