



**CAPTURE.slu.se – a tailor-made platform for
management and analysis of camera trap
imagery**

SLU, Sweco, NINA, Trafikverket, Vinnova



Camera traps

in road ecology

Popular uses:

- Monitoring of fauna mitigation
- Wildlife inventories & research
- Experimental studies (animal response)
- Drone surveys
- Vegetation control
- ...





Challenges

- Large amount of imagery produced
- Many false triggers, "empty" images
- Risk for compromising images on human
- Data access and safety
- Storage and archiving of raw data



Need for tools

1. Automatic image recognition and classification
2. Automatic depersonification of humans
3. Safe and efficient data management
4. Domestic data transfer only

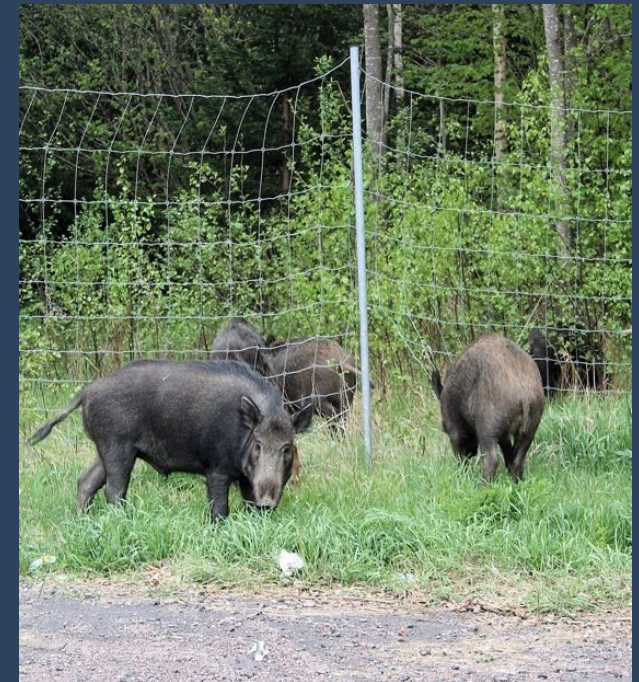
=> Need to develop a tailored platform ...



Collaboration

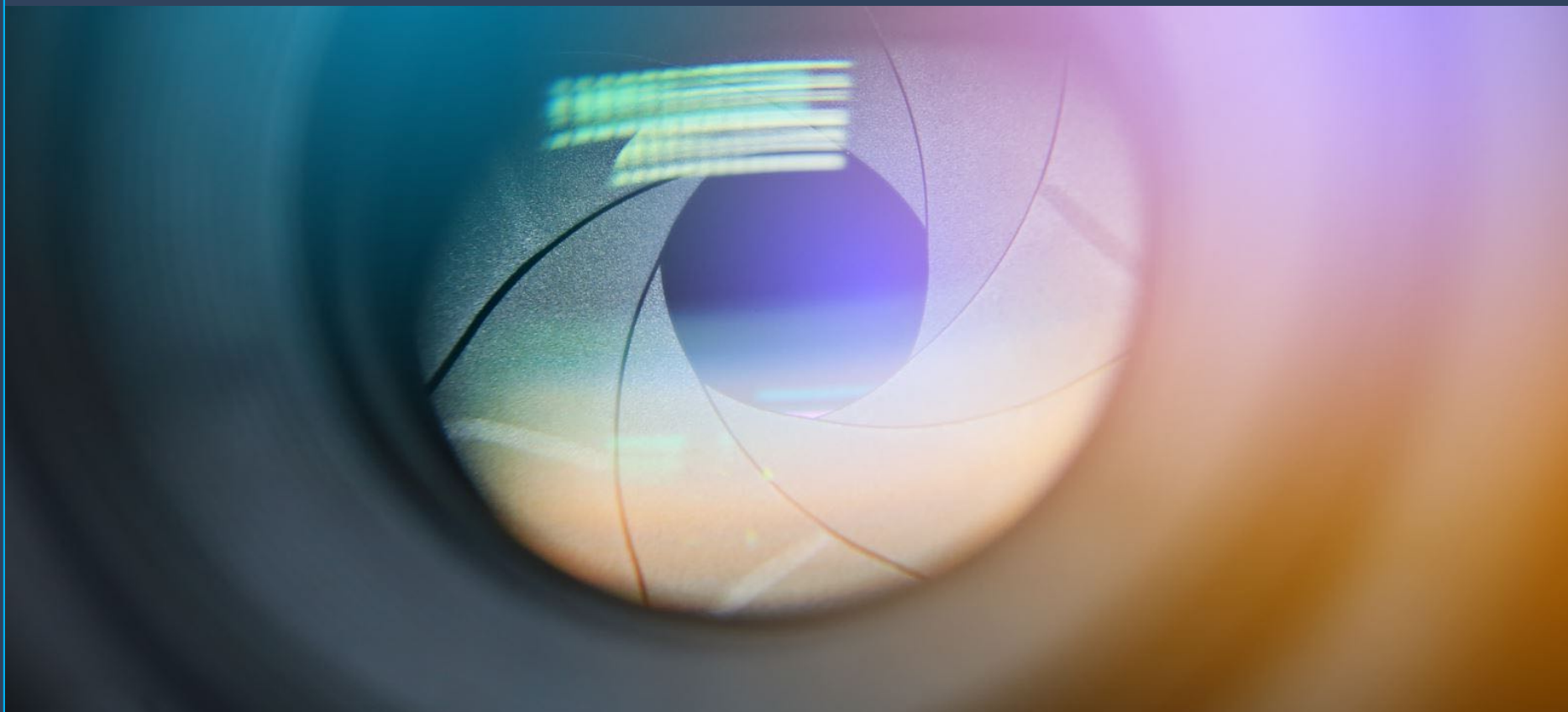
- **Funding:** Trafikverket & Vinnova 2020-22
- **Contributors:** NINA, SCANDCAM, SWECO, SITES, several research projects (EnviroPlanning, SLU)
- **Reference, user and target group:** authorities, research projects
- **System:** Open source
- **Inspiration:** TRAPPER, AGOUTI, CROS, iNaturalist, ...

➔ CAPTURE – <https://capture.slu.se/>





Video



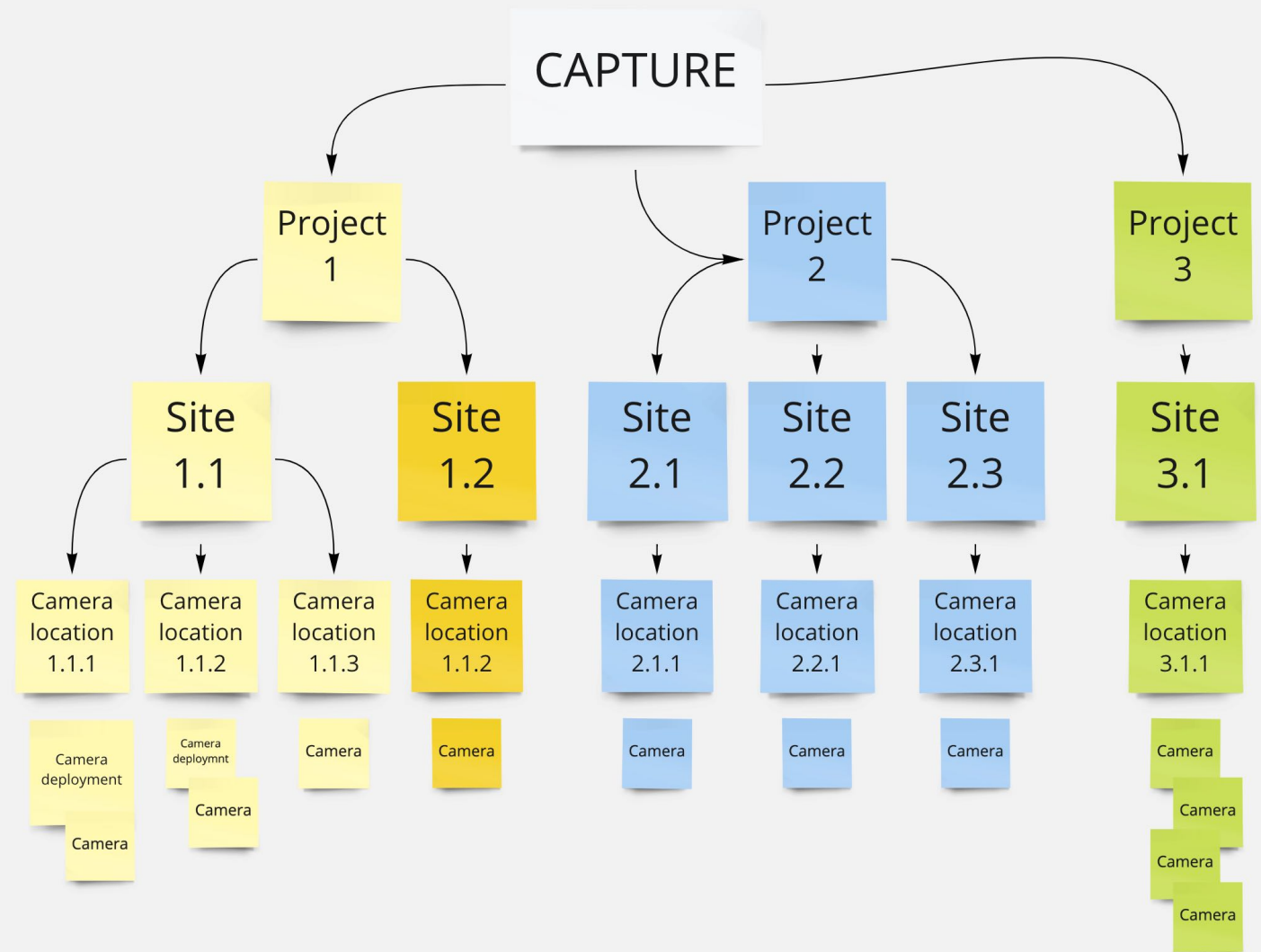
CAPTURE Organisation

Administrator

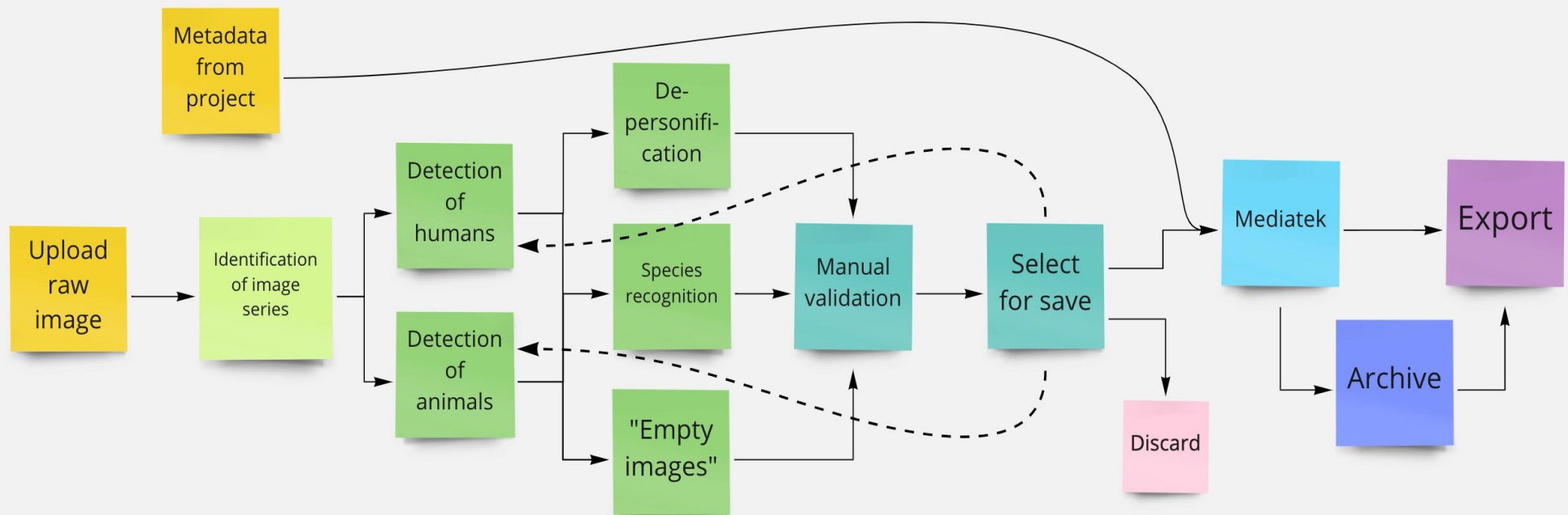
Project manager

Project user

Uploader



CAPTURE Processes





Tagging and classifying

- Global tags
- Project tags
- Tags at series-level
- Tags at image level
- Tag inheritance
- Import and export



GROUPS











CATEGORIES


TAGS

Tags ?

Category...

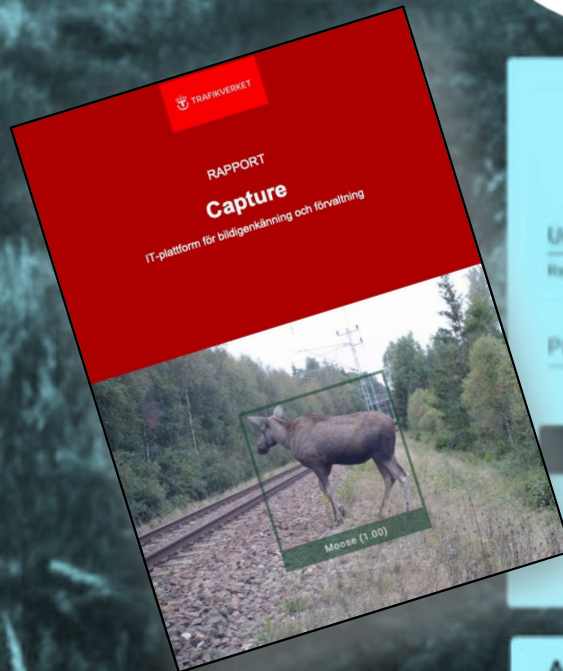
Search...

Group	Category	Name ↑	Color
Animal	Amphibian	Amphib.unspec.	
Animal	Animal_other	Animal_other	
Animal	Animal_unknown	Animal_unspec.	
Animal	Badger	Badger	
Animal	Bear	Bear	
Animal	Beaver	Beaver	
Animal	Bird	Bird	
Animal	Bird	Bird_ofPrey	
Animal	Grouse	BlackGrouse_female	
Animal	Grouse	BlackGrouse_juvenile	





Capture



Capture

Username **demo@user**

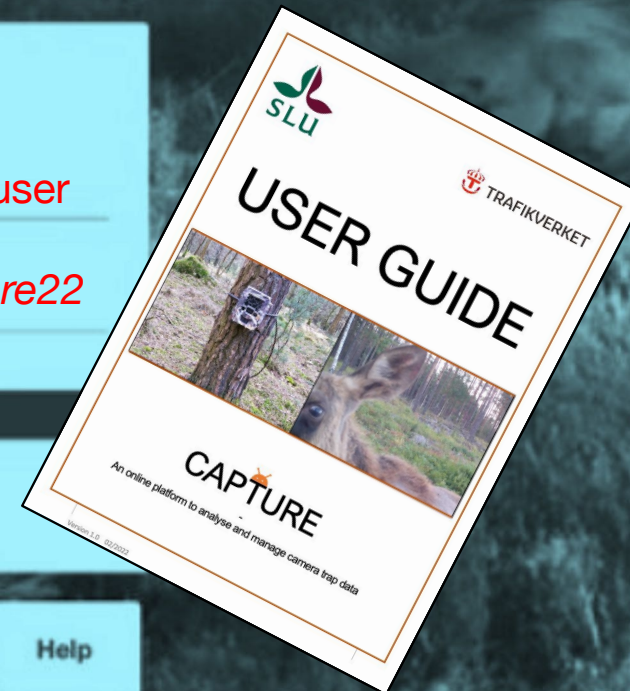
Required

Password **Cap@Ture22**

SIGN IN

SLU

About Capture Contact Help



<https://capture.slu.se/>