



Caught in the camera trap

A needs-led exploration



IMPROVED NATURE CONSERVATION THROUGH INNOVATIVE DATA SOLUTIONS

Accelerate impact through

- Real-time monitoring & Predictive analytics
- Worry-free out-of-the-box platform
- Easy to set-up and tune to your needs
- Personal support of experts
- Reduced need for in-house developers



Make more impact by moving from reactive to proactive.

Work with data which is targeted, timely, and actionable.

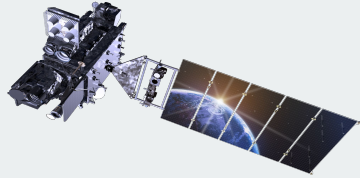
Complete complex tasks in a few clicks.



Nature FIRST

Consortium

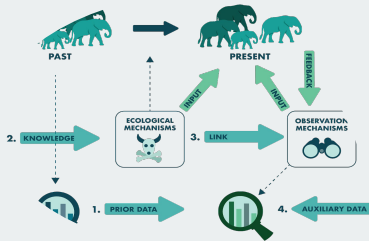
Nature FIRST Innovations



REMOTE SENSING



FORENSICS



DIGITAL TWINS

- 🐾 Map ecosystems and their species
- 🐾 Monitor them and detect changes
- 🐾 Predict changes and events



ACROSS

- Data sources
- Taxonomies
- Area boundaries
- Language barriers

CONTINUOUS MONITORING

IN NEAR REAL-TIME

&

PROACTIVE ACTION

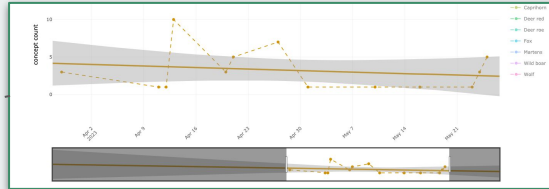
5 maturity levels of data-driven nature conservation



Mapping
the area



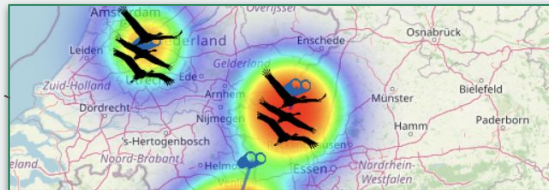
Monitoring
changes



Periodic
risk assessments



Real-time
predictions



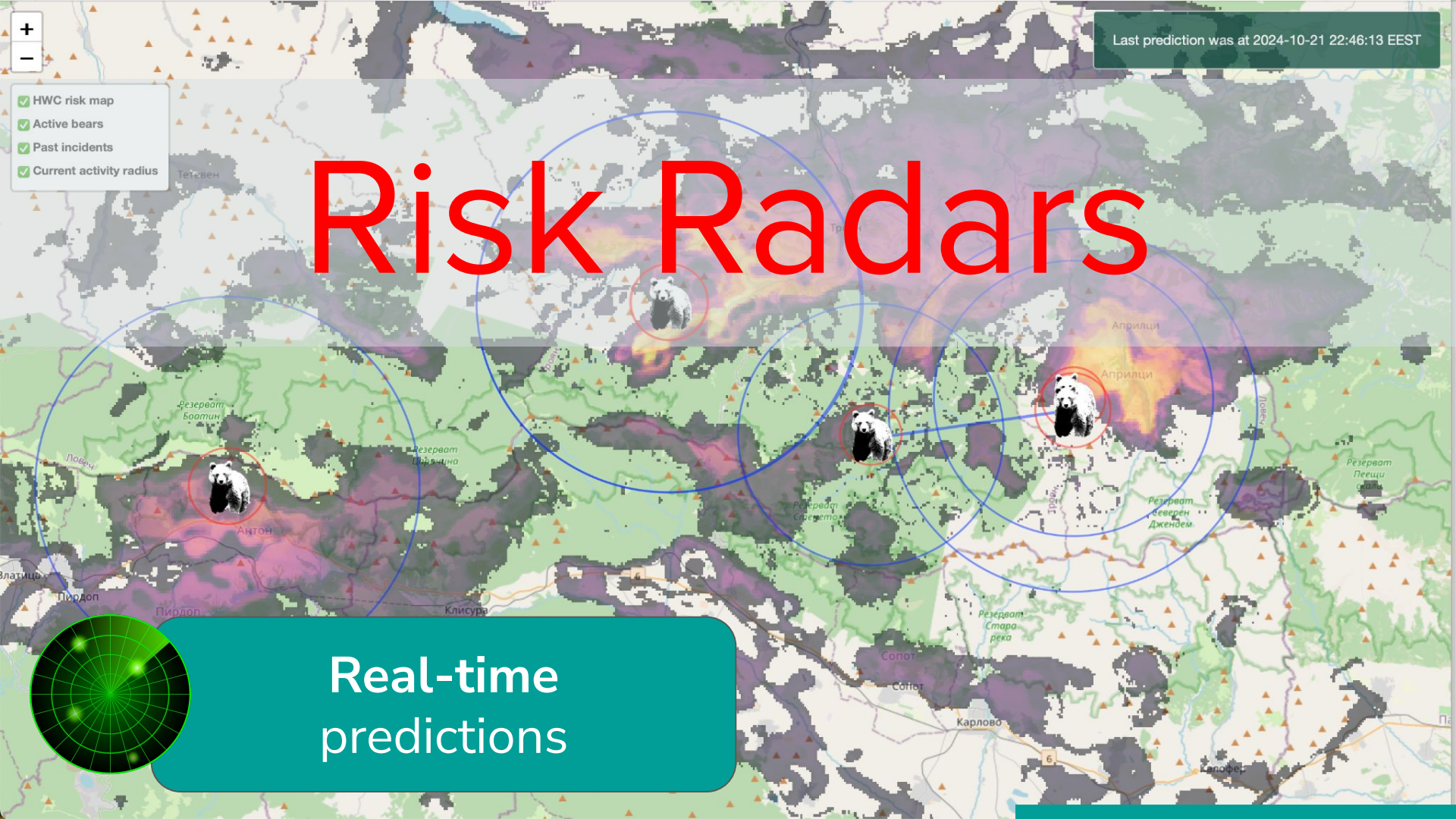
Scenario-based
projections



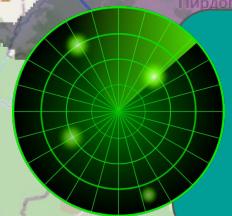
Last prediction was at 2024-10-21 22:46:13 EEST

- ✓ HWC risk map
- ✓ Active bears
- ✓ Past incidents
- ✓ Current activity radius

Risk Radars



Real-time predictions



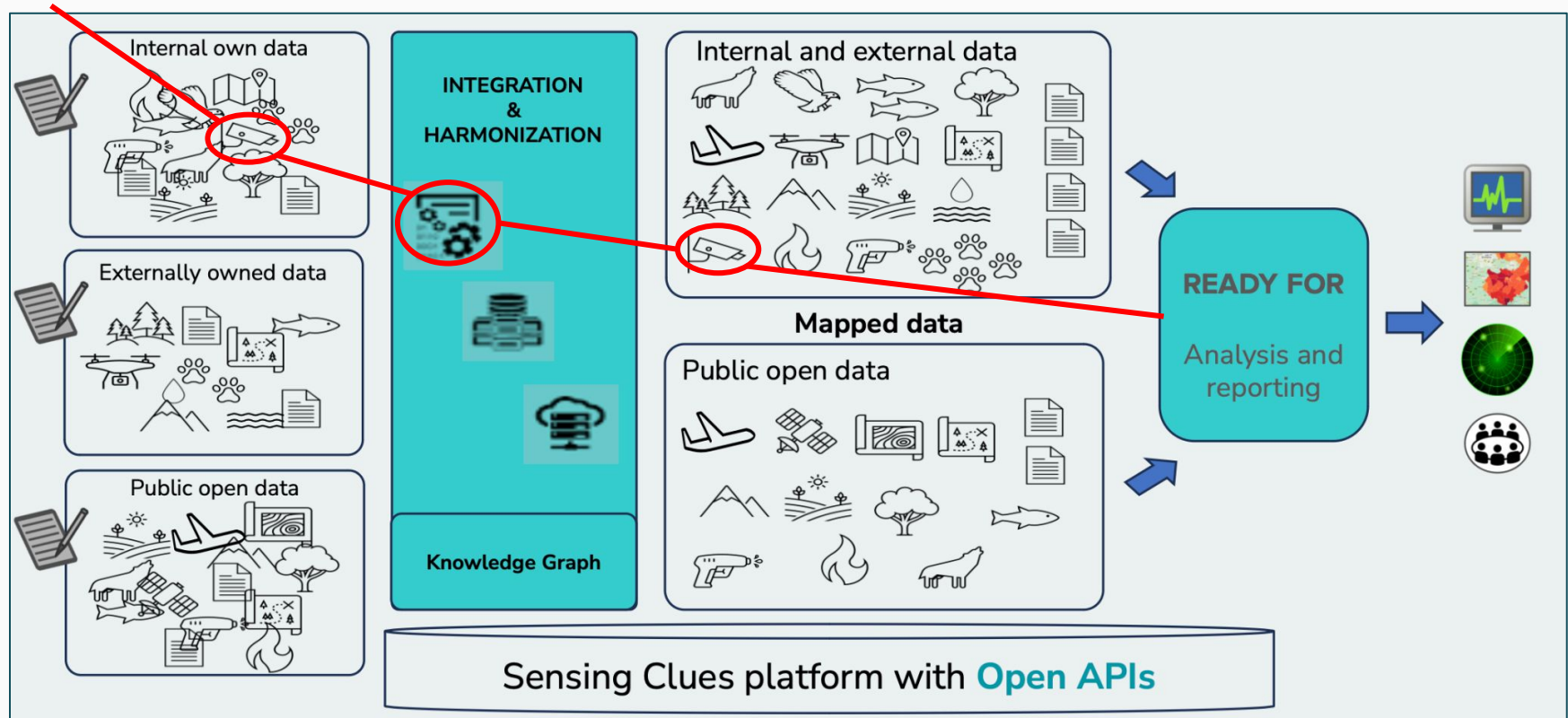


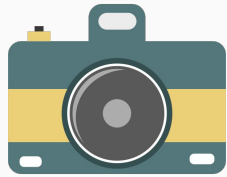
Caught in the camera trap

A needs-led exploration



Data management and integration: organised & harmonised



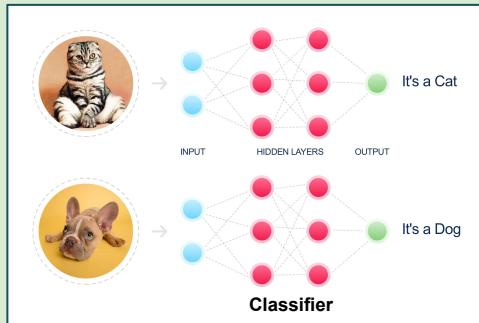
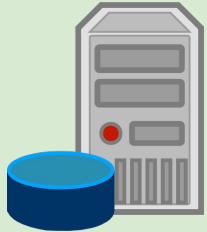


1. Camera

2. Data transfer

3. Software package

- 3.1 Storage + Process flow
- 3.2 One or more classifiers
- 3.3 Reporting options

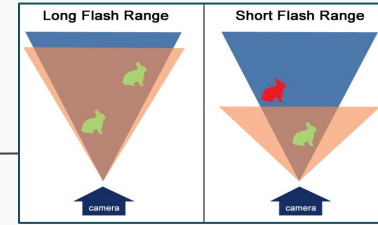




Camera

ID: species, individuals
Presence
Richness
Distribution
Abundance
Densities

Purpose / Targeted species
Which habitat
Day vs Night vision
Distance, Width, Height
Use of Lights. LED, IR
Trigger mechanism, Speed
Pictures, Bursts, Video

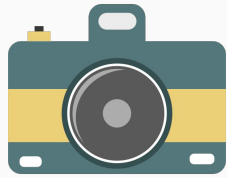


[Link to MyWild](#)



Which camera?





Camera

- Share options
- Download
 - Push to
 - Pull from
 - API specifications



Data transfer

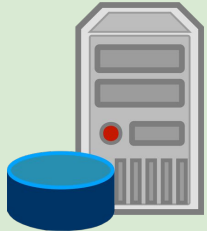




Camera



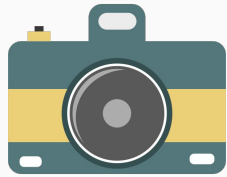
Data transfer



Software package

- Storage + Process flow

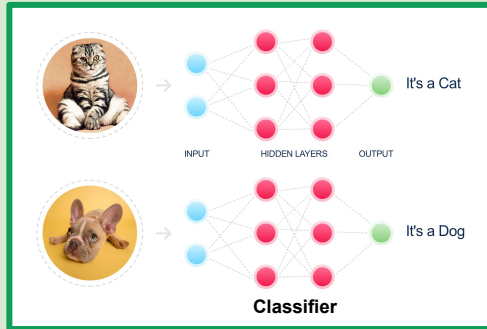
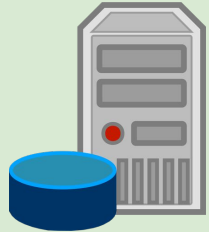




Camera



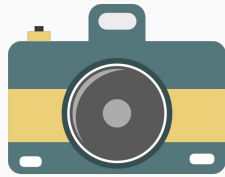
Data transfer



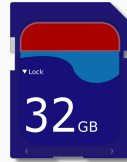
Software package

- Storage + Process flow
- **One or more Classifiers**





Camera



Data transfer

ID: species, individuals

Presence

Richness

Distribution

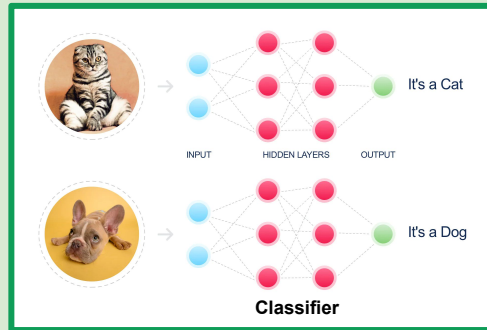
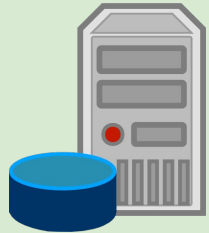
Abundance

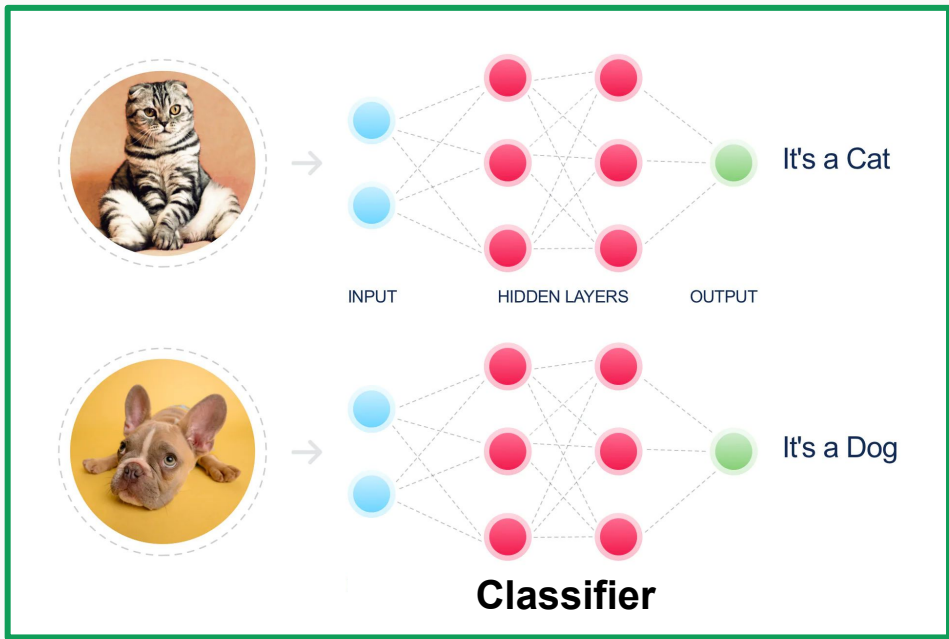
Densities

Software package

- Storage + Process flow
- One or more classifiers
- **Analysis & Reporting**

UX: Siloed vs Skills

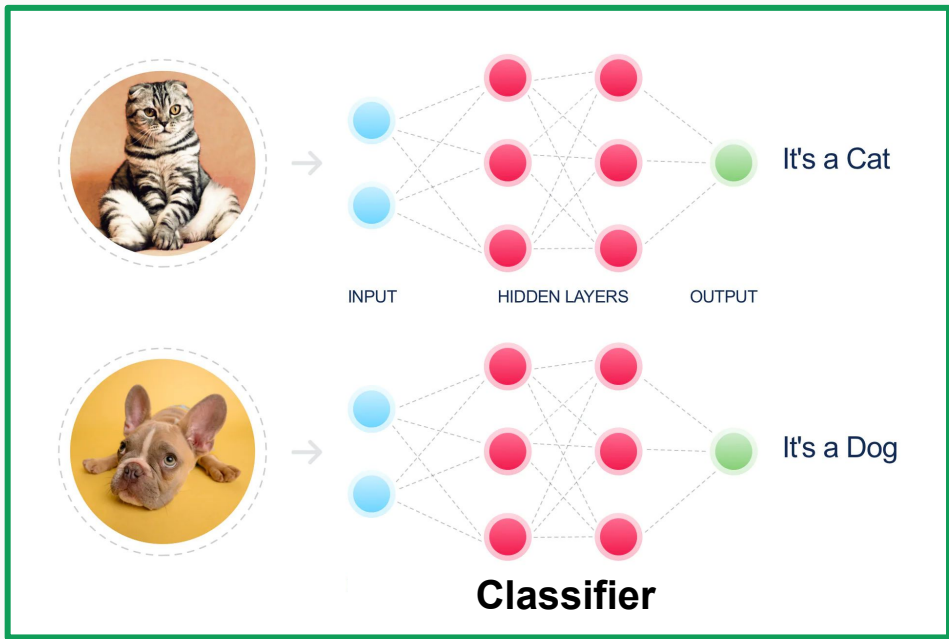




Examples of classifiers:

- Microsoft's Mega Detector (objects)
- Deepfaune (European species)
- Giraffe Spotter (individuals)



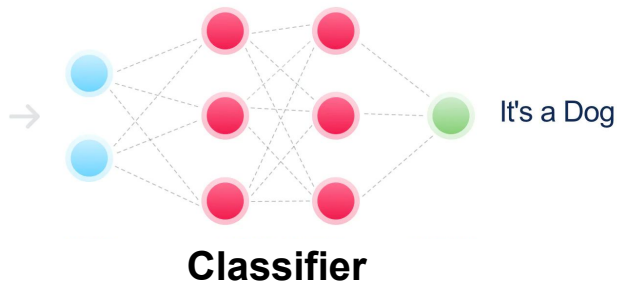
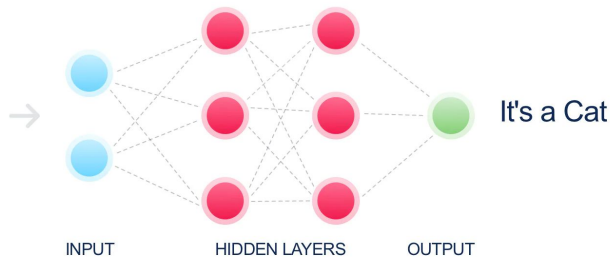


Training, Execution or Both?

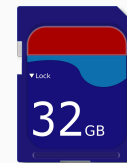
Execution

- Which purpose?
- Which species?

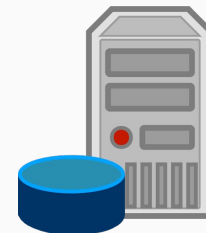
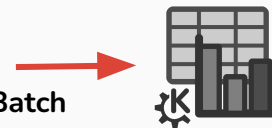




Classifier



Batch

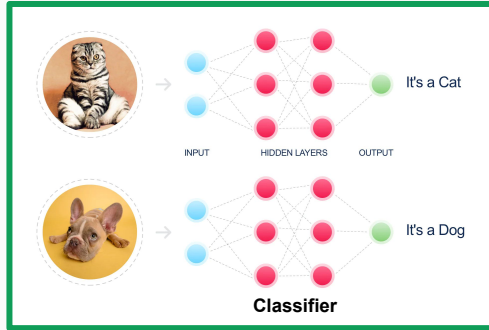


Real-time (alerting)?

Which habitat?

Also videos?



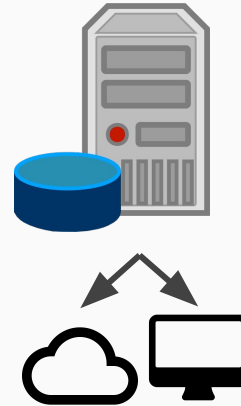


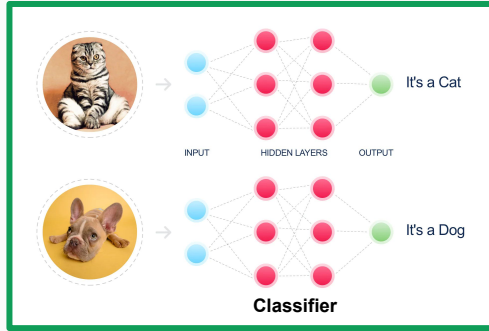
Ownership rights and sharing?

Performance?

Cost?

Security?

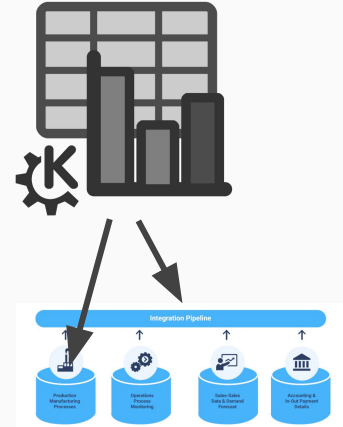
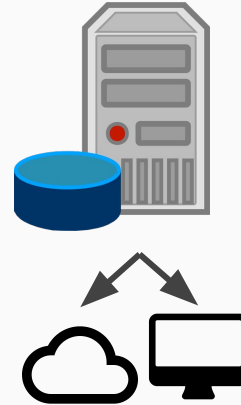


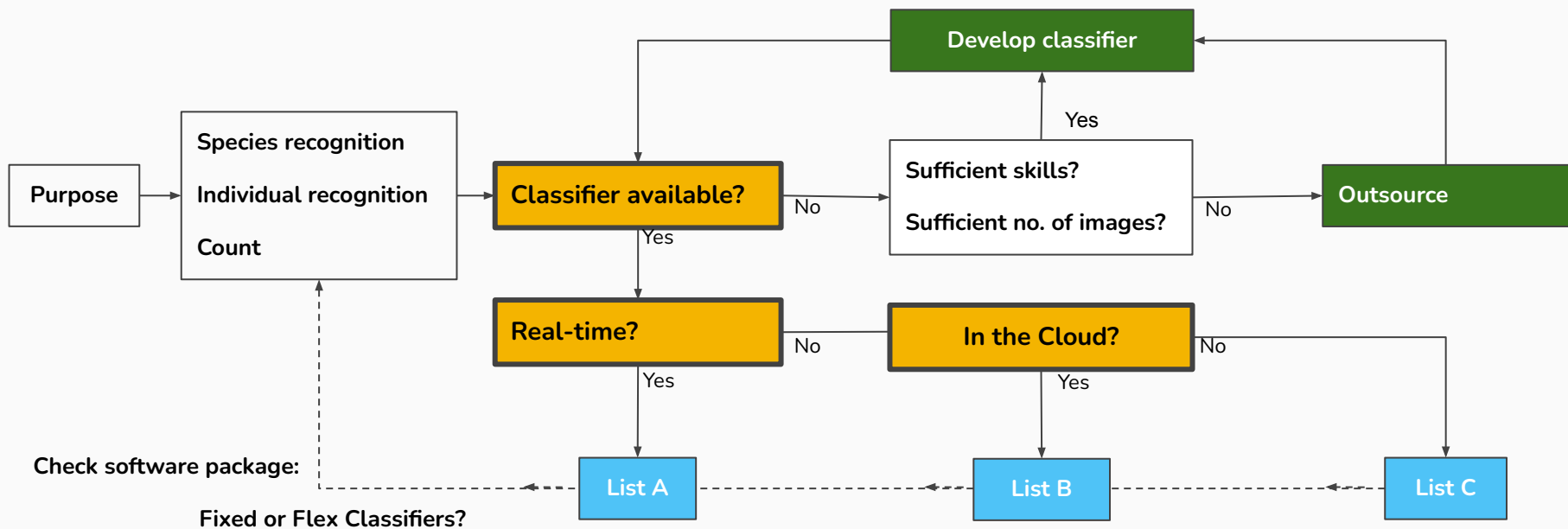


Human in the loop?

Easy to learn and use?

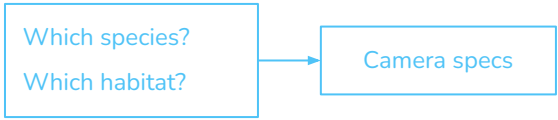
Export options





Other considerations

- Easy of use
- Performance
- Data sharing
- Cost
- Security
- Silo vs Integrated (taxonomies)
- Export options



Solution Lists

in progress and excluding ecological analysis modules



A-List

Real-time in the Cloud

Wild.ID

Wildlife Protection Solutions

...



B-List

Batch in the Cloud

Agouti

Camelot

EcoSecrets

eMammal

Panorama

PyTorchWildlife

TrapTagger

Trapper

Wild.ID

Wildlife Insights

...



C-List

Batch on Desktop

Aardwolf

Camelot

Camera Base

Cascadia

Cpw Photo Warehouse

Deepfaune

DigiCam

EcoAssist

TimeLaps2

Wild.ID

...



Classifier available?

Other considerations

- Easy of use
- Performance
- Data sharing
- Cost
- Security
- Silo vs Integrated (taxonomies)
- Export options

Which species?

Which habitat?

Camera specs

Save the Dates!



Next Webinar

27.02.2025

Online



Nature FIRST Conference

25. & 26.06.2025

Ouwehands Dierenpark, Rhenen, NL



Join us and Register Today!

