

1997 – 2000 University of Palermo **2001 – 2004**Chalmers

2004 – 2018

2019 - 2023

2023 -

IEEE

Senior member

since 1999

cigré

Cigré member

POWER CIRCLE
Electricity for oustainable energy

Board member

KRAFTKVINNPRNA

Board member





Digitalisation & AI at Vattenfall

Our journey



2017 – One agile team

→ getting started

2019 – Data Analytics & ICT solutions department → competence build-up

2020 – Data Science & Al section

> start specializing

2022 – Three agile teams are formed

→ multiple receivers

2024 – From "proof of concept" to implementation

→ mature, on par with other areas

Digitalisation - Al for biodiversity research



Real-time monitoring based on image recognition

Eg species, origin and state of heath.

Implemented in the fish ladder at Stornorrfors.

Next step: identifying individuals based on spot patterns on the head of the fish.



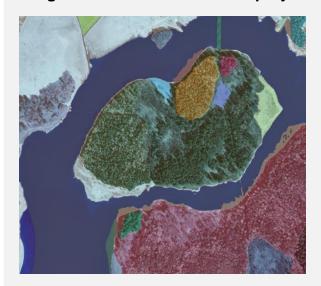
Capercaillie is an indicator of a good habitat

Al-based real-time monitoring – combining both image and sound recognition.

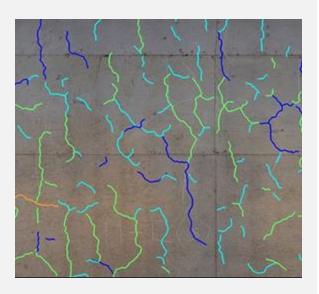
Based on third-party tools, adapted (eg Birdnet)
Implemented in wind power project Bruzaholm



Digitalisation & AI - Selected project examples







Satellite data analysis

Automatic identification of geographical and environmental segments. Monitor change over time.

Al-assisted search

Use Large Language Models (LLMs) to search through a large unstructured amount of docs.

Crack Detection

Automate charting of mineral veins in bedrock and concrete.



A broad term covering many technologies

