

Don't Panic

AI meets biology

Background

- Knut Drange – Head of IT and digitalization in Måsøval
 - Working with software for fish farming since 2006
 - Spent most of my career with different vendors
- Måsøval
 - Started in 1973
 - Operations in PO5 and 6
 - 4 land sites, 18 sea sites, 1 harvest plant and a sales division
 - About 360 employees
 - Aiming for 29 000 tonnes in 2025



AI meets biology

- Focus: when the fish is alive
- Digitalization is not just the paperless vision anymore
- AI to combine information from multiple sources
- Types of AI



Visual AI – Seeing is believing

- Dependent of visual feedback
- Weight precision
- Wounds
- Welfare
- Lice
- Feeding
- Operational assessment
- Behavioral analysis
- Disease

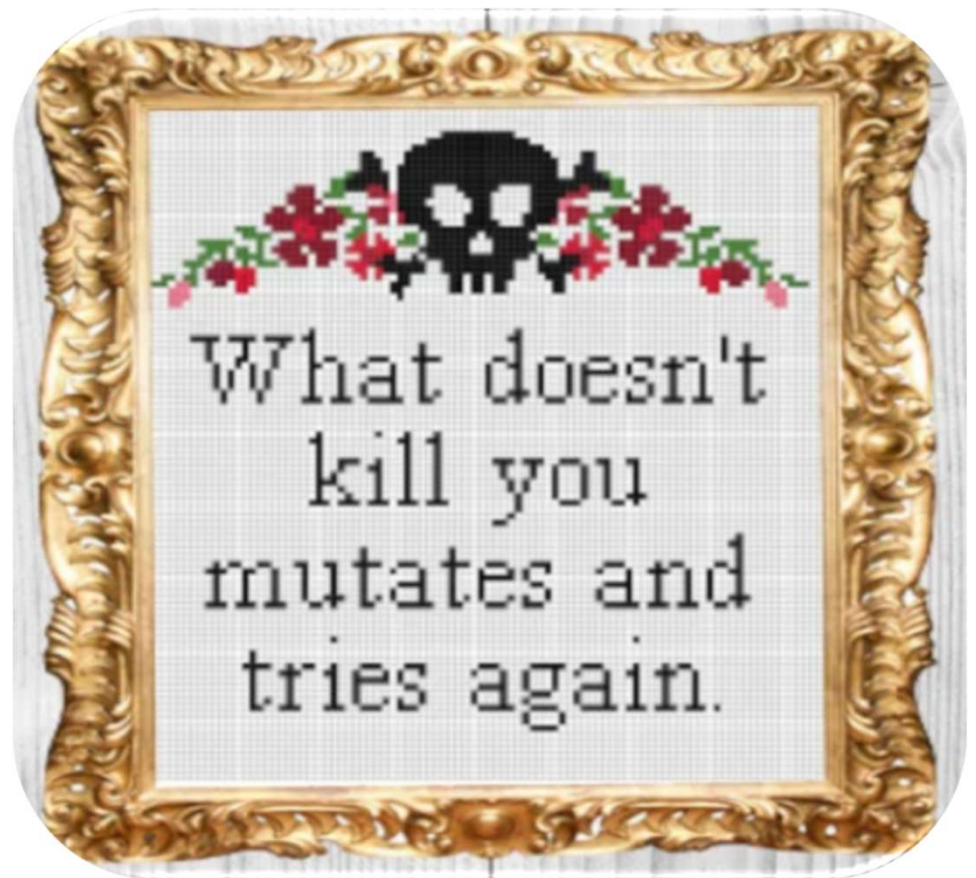
Automation and forecasting

- Automation – equipment - sensors
- Clustering and forecasting techniques
- Include operational forecasts and production forecasts
- Forecast sensors and other time series
- Proactive possibilities



Language models

- ChatGPT and similar models
- Research assistant
- Validate results
- Faster to utilize new methods



Requirements: How do I get AI to work?

- Availability and accessibility
- Contracts / business models
- Cloud dependency
- Equipment
- Measurement and data quality
- Bias and accuracy
- Trust and causality
- Cost/benefit
- Organization and people





Next steps?

- From deterministic software to AI agents
- Performing tasks on behalf of users
- Autonomous operations
- Precision farming

Marvin the paranoid android: ***“Funny, how just when you think fish farming can't possibly get any worse it suddenly does.”***

Douglas Adams – The Hitchhiker’s Guide to the Galaxy



Made by nature

Pioneered by  Måsøval