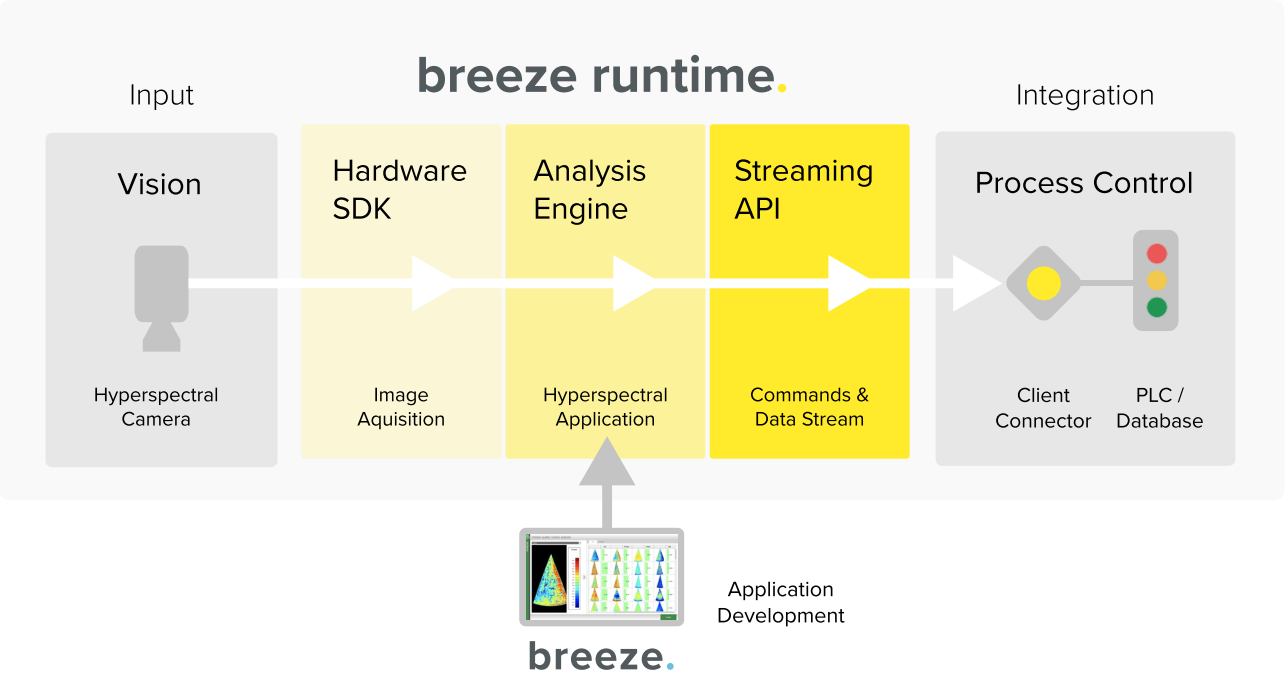
breeze runtime.

INTEGRATED REALTIME SOLUTIONS
FOR HYPERSPECTRAL IMAGING

Prediktera.

Hyperspectral imaging for machine integrators and industrial applications.

Breeze Runtime is here to make it easy for you to implement hyperspectral image analysis into your systems and processes. Breeze Runtime enables real-time chemical quantification, classification and object identification of materials being scanned on-line in process.



From idea to solution.

Our software suite supports your journey through research, application development and process integration. Our easy-to-use desktop software in combination with the runtime client speeds up implementation and time to market.

evince.

R&D

Exploratory analysis

breeze.

APPLICATION DEVELOPMENT

Modeling and routine analysis

breeze runtime.

PROCESS ANALYSIS

Realtime analysis for sorting and monitoring

A case for Breeze Runtime.

Lerøy Seafood Group is a world leading seafood producer with roots going back to 1899. Each day they deliver seafood correspondent to 5 million servings.

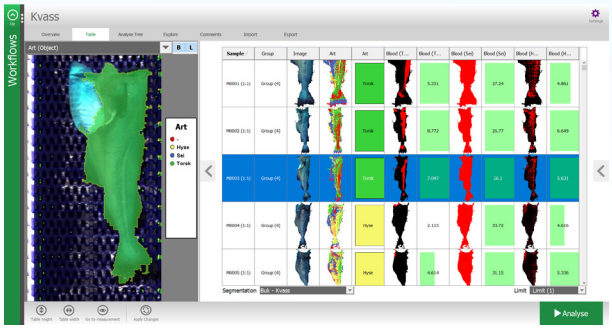
Challenge. The Norwegian industry leader is dependent on delivering consistent high quality products at a very high rate. Quality assurance and grading is mostly a manual process which is time-consuming and expensive.

Our solution. Using a VNIR hyperspectral camera from HySpex and an application developed in the Breeze software, fish can be classified by species and quality graded according to specific chemical parameters. Using Breeze Runtime the application can be integrated online in factories and on boats for automated sorting.

Research and industry partners

Nofima maritech

Benefits. By applying this solution Lerøy is able to use automated quality grading and sorting with high throughput, ensuring high quality products at great value to their customers.



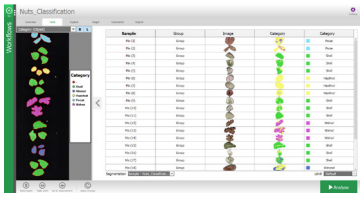
Real-time classification

A complete toolbox.

The powerful and flexible analysis engine enables a wide range of applications such as sorting, process monitoring, quality analysis and detection of foreign objects.

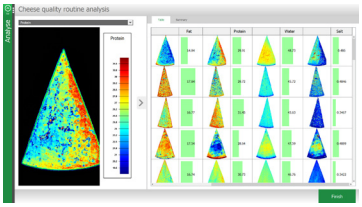
Classification.

Classify materials based on spectral analysis on pixel and object level.



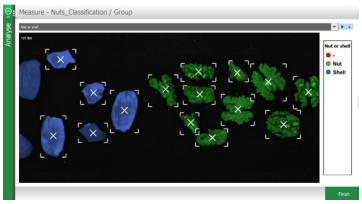
Quantification.

Measure the chemical content on pixel and object levels.



Object based analysis.

Identify objects and analyse distribution, shape and position.



System requirements.

- Runs on Windows®, Linux (x64, arm64) and Mac.
- Support for multiple CPU cores and multithreading to increase performance.
- Minimum system memory requirements: 4 GB RAM (16 GB recommended)
- 64bit OS.
- For Mac and Linux separate installation of 64bit Java version 8 or later required

Supported cameras.

HySpex	VNIR, SWIR-384/640 (Classic and Baldur)
Specim	LUMO SDK – Swir, FX-10, FX-17, FX-50
inno-spec	RedEye
Basler	Camera using Basler Pylon SDK
Other	Hardware SDK

A trusted partner in hyperspectral imaging.

Prediktera gives you user-friendly software solutions. With over 15 years of experience in data and imaging analysis we aim to be your preferred provider of software solutions for hyperspectral imaging.

We can assist you all the way from early inquiries and hyperspectral application development to custom integration projects. We are here for you!

Feasability study → **Training** → **Development of application** → **Customisation**

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