

Al-powered solution for image analysis and decision support in coronary artery disease

- Detection
- Prediction
- Treatment

Autosymed SRL

Kamil Sterna - CEO

autosymed.com | cadflow.eu



AUTOSYMED - introduction





Founded

01.2021



R&D 12.2021



EEA Norway

Grant



220 kEUR

orway grants U6.2022



EEA Norway

Grant

224 kEUR



2023

InnovX

Bootcamp

4th place -

11,2023

















Medical **Experts**









Cardiovascular Diseases Globally per annum



2024

580 M cases 35 M terminal cases 13 M Coronarographies



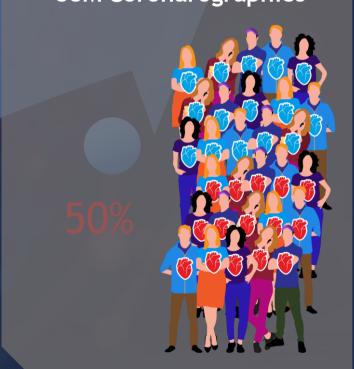
2035

1600 M disease cases 80 M terminal cases 36 M Coronarographies



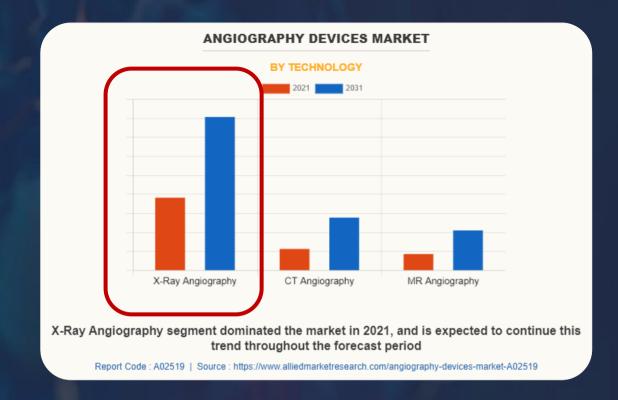
2050

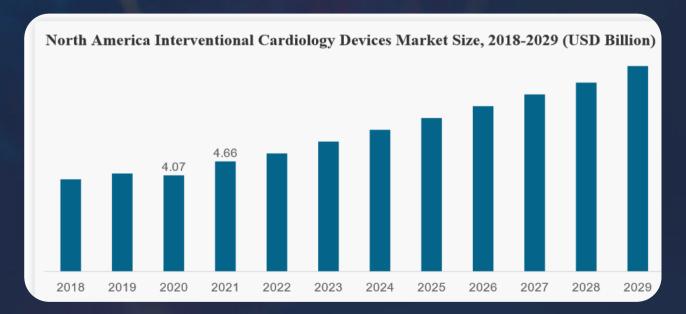
2400 M disease cases 110 M terminal cases 55M Coronarographies



Market Potential

- Average CAGR of 6.3% until2031
- Average global growth in 2030 is 22 Billion USD
- 130 million patients are expected to have CVD by 2035 in US alone
- Europe dominated the angiography devices market in 2022
- https://www.alliedmarketresearch.com/Angiography-devices-market
- https://www.transparencymarketresearch.com/angiography-devicesmarket.html
- https://www.fortunebusinessinsights.com/interventional-cardiologydevices-market-107414
- https://www.grandviewresearch.com/industry-analysis/angiographydevice-market
- https://www.alliedmarketresearch.com/Angiography-devices-market
- https://www.marketdataforecast.com/market-reports/angiographydevices-market





CadFlow® Solution

Minimizes diagnosis Generates SyntaxScore - CAD predictor Provides treatment proposal



2D X-ray
Coronarography

Automatic Semantic

Semantic Segmentation

Automatic

Lesion Identification and Characterization

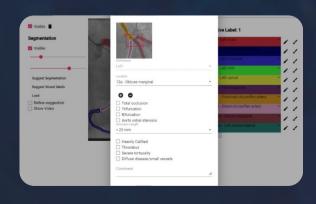
Automatic

3D Reconstruction

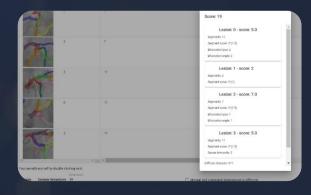
Automatic

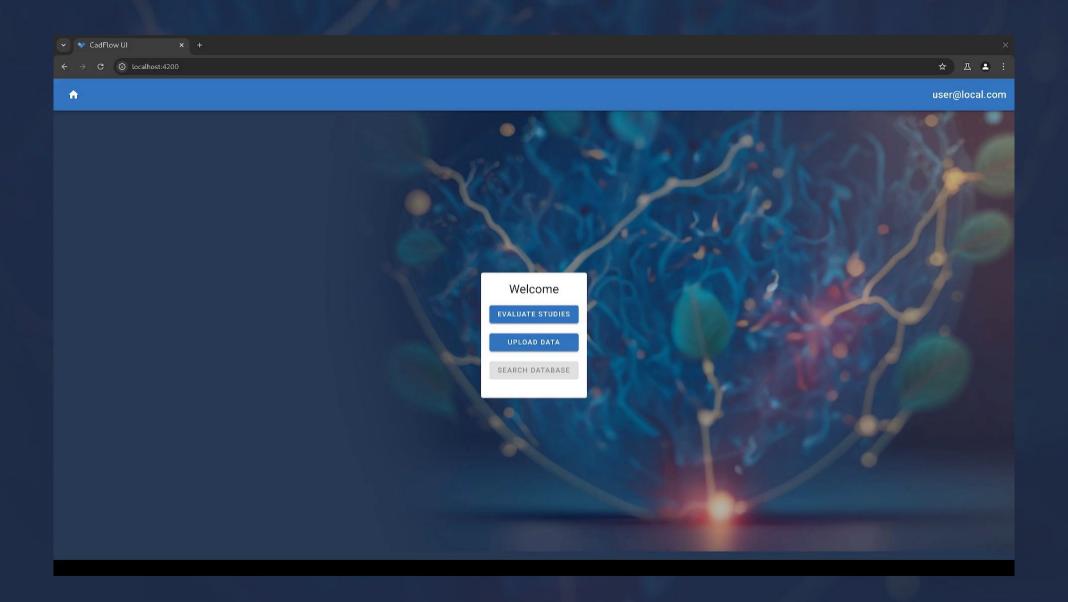
Syntax Score Calculation











Benefits for Customers - Coronarography

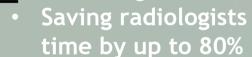




Shortened Procedure Time

BENEFITS

Procedure automatization for Cardiologist



More patients and procedures with the same resources
24h availability



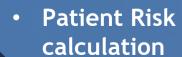
Syntax Score

Recommended by
European Society of
Cardiology but not
practiced



BENEFITS

• Treatment
suggestion support
for Cardiologist
Insurance / Health
Fund - Refund
Decision evidence





Cost Saving



BENEFITS

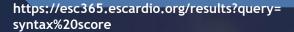
 Cost of procedure reduced by up to 60%



EARLY ADOPTERS

Test at a reduced initial investment Pay for usage

 Shape the product according to their feedback



Competitors

3mensio

Coronary

Prepare your coronary procedures with the Coronary workflow

Coronary Analysis

- · Segmentation of the coronary artery tree
- Stenosis measurement
- Simulated Angio View of the coronary artery tree
- Calcium scoring
- · Questionable accuracy no validation results

Limitations

- · Semi-automatic segmentation
- Requires user input during the process
- Lack of integration with imaging platform
- Questionable accuracy no validation results



Coronary Analysis

- The analysis of coronary and peripheral vessels (QCA and QVA) in angiograms
- The analysis of left and right ventriculograms (QLV and QRV)
- Innovative QFR analysis, a measure of the functional significance of lesions, without the need for adenosine and/or a pressure wire

Limitations

- · Only major arteries are analysed
- Lack of integration with imaging platform
- Questionable accuracy no validation results



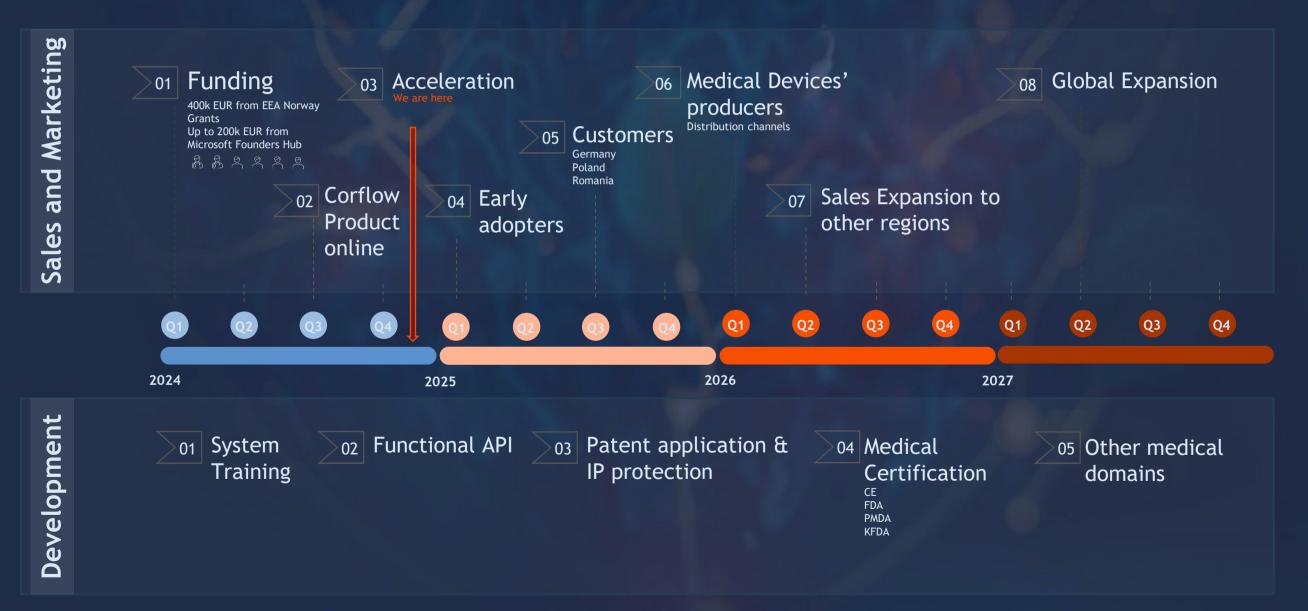
Coronary Analysis

- Femoral and radial access
- Agile understanding to enhance 3D understanding
- Expert guidance to save valuable proctor time

Limitations

- Training tool for inexperienced doctors
- Only a few data available
- 13 interactive cases

Roadmap



CadFlow®

Thank You!

- MedSun.pl
- Cadflow.eu
- Autosymed.com





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