


MVISION

AI for Precision Radiotherapy – Intelligently

A woman with long blonde hair, wearing a white lab coat over a black turtleneck, is pointing with a black pen at a medical scan on a monitor. The scan shows a cross-section of a body with a highlighted area. The background is a blurred office or clinical setting with a window. The image has a teal overlay on the right side.

GBS™

Guideline-Based Segmentation

for Radiotherapy



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GBS™

Guideline-Based Segmentation

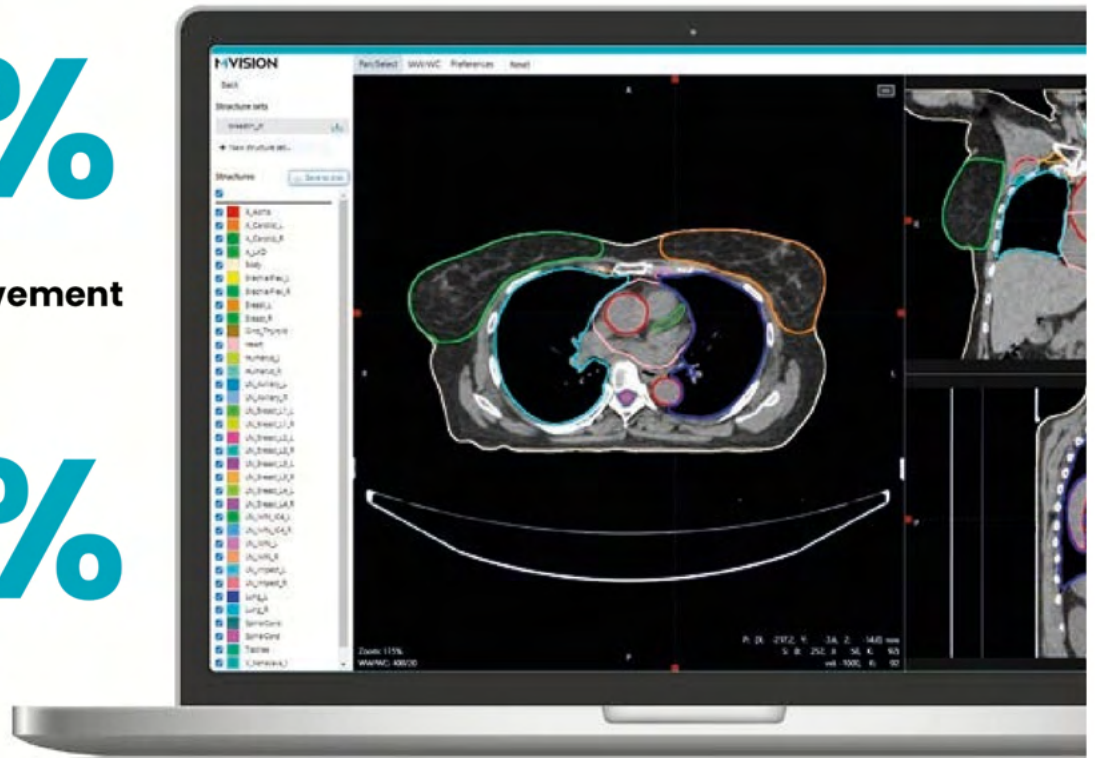
MVision Guideline-Based Segmentation solution streamlines radiotherapy treatment planning workflow and standardizes contouring. AI-powered GBS™ solution integrates with all treatment planning systems.

Avg. **20%**

Consistency improvement

Up to **95%**

**Manual workflow
reduction**



Cloud based AI models enable accurate contouring efficiency, while helping to spare healthy tissues and organs from radiation. GBS™ follows international contouring guidelines including those approved by ESTRO, EPTN, RTOG and the UK SABR Consortium. The GBS™ solution consists of three products: **Contour+, Guide and Verify**





Why GBS™?

—● Reliability

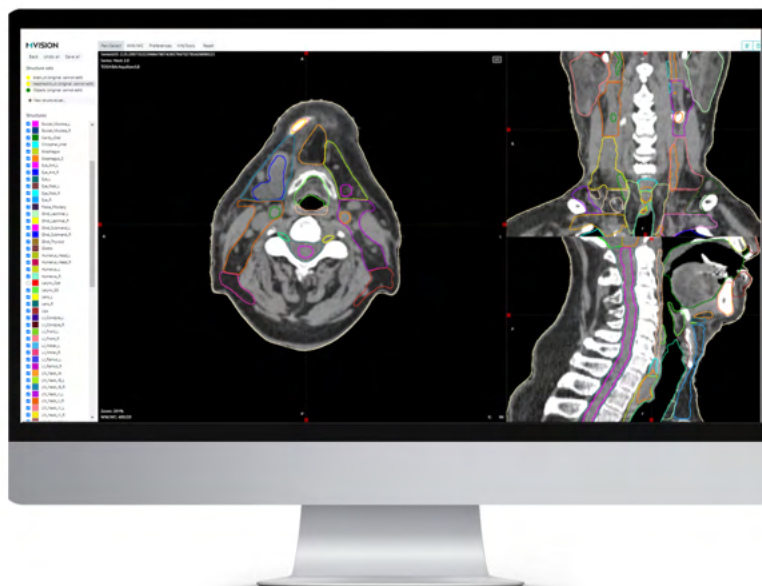
GBS™ supports professionals with contouring guideline knowhow, increasing the efficiency and reliability of the auto-contouring review process.

—● Standardization

Increases consistency between experts. All users in different clinics have the same guideline based starting point, enabling radiotherapy standardization.

—● Quality

Users are made aware of the AI based auto-contouring tool performance and software updates.



Contour+

Guideline-Based AI Segmentation

Guideline compliant contours

CT & MR
models are
CE marked

MVision Contour+ is designed to guide the clinic's contouring practice towards consensus and guideline compliance.

Benefits

- **Improves consistency by 20%**

The auto-contouring algorithm has learned to delineate according to international guidelines. Thus, it decreases user-dependent variations which helps create more consistent and standardized contours.

- **Reduces manual work up to 95%**

Fully automated 3D organ-at-risk and lymph node models are created in minutes, as opposed to hours of manual work. This allows you to focus more on individualized patient treatment and utilize limited resources better.

- **Follows international consensus guidelines**

GBS™ follows 15+ official contouring guidelines, approved by ESTRO, EPTN, UK SABR Consortium and RTOG. Clinics are guided towards supported standardized contouring and clinical protocols that align with international contouring guidelines.

—● **Simplifies workflow**

The cloud-based AI solution integrates seamlessly with all treatment planning systems and returns contours within just a few minutes. This allows for same day treatments.



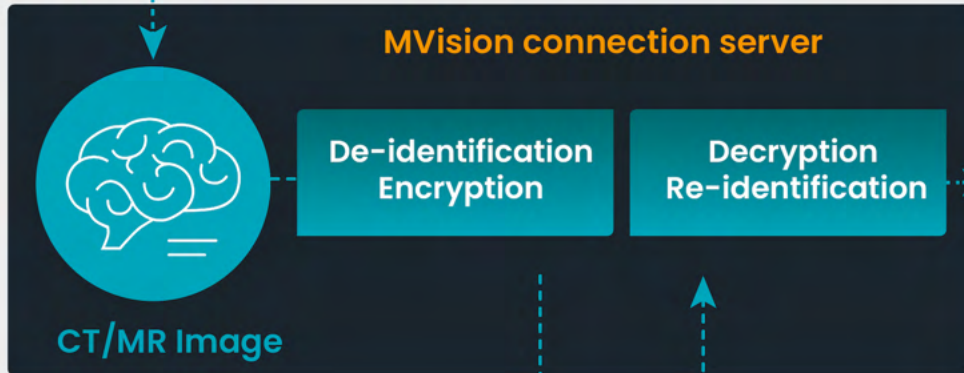
GDPR & HIPAA Compliant Workflow



CT/MR Scanner

Data Controller: Clinic

All images are pseudo-anonymized and delivered to the cloud. The AI algorithm produces the contours and returns them to the clinic's network. The clinic is the data controller.



TPS

Clinic

Data Processor: MVision AI

Acting as the data processor, MVision AI provides results and handles the data according to a comprehensive data processing agreement.



Deep learning Auto-Segmentation



Data deleted

Cloud



Comprehensive packages for all clinical needs

The comprehensive packages consist of accurate, fast, and reliable contours of 250+ ROIs, including 60+ lymph node areas to meet all clinical needs.

Comprehensive Packages	OARs	LNs	CTVs	Total
Brain CT	28			28
Brain MR T1	29			29
H&N CT	47	27		74
Breast CT	42	32	8	72
Abdomen-Lung CT	38			38
Male Pelvis CT	34	2		36
Male Pelvis MR T2	7			7
Male Pelvis MR T1 Dixon	8			8
Female Pelvis CT	41	7	3	51

Guide

Enabling Excellence in Education

Guideline Training & Competence Tool

Standardized Contouring

Improve your
expertise

MVision Guide is designed to train and support all radiotherapy professionals and help them hone their expertise on contouring guidelines. This equips your team so they are able to review the guideline based AI contouring results more thoroughly.

Benefits

—● Reference library

A library of high-quality guideline compliant reference training material is available. The reference library contains manually contoured and peer-reviewed scans for all anatomical sites.

—● CT & MR scans

Library includes: CT scans for Brain, Breast, Head and Neck, Abdomen-Thorax, Male Pelvis, Female Pelvis, MR scans for Male Pelvis T2 and T1-Dixon weighted images and Brain T1 weighted 3D images.

—● Uncovers errors and deviations

Supports the use of guideline-based Contour+ by increasing clinician sensitivity to detect auto-segmentation errors and deviations from guideline recommendations.

—● Supports contouring consensus

Further encourages user consensus and guideline compliance, steering towards higher radiotherapy standardization.

Verify

Building Trust in AI

Contour Comparison Tool

Build Confidence

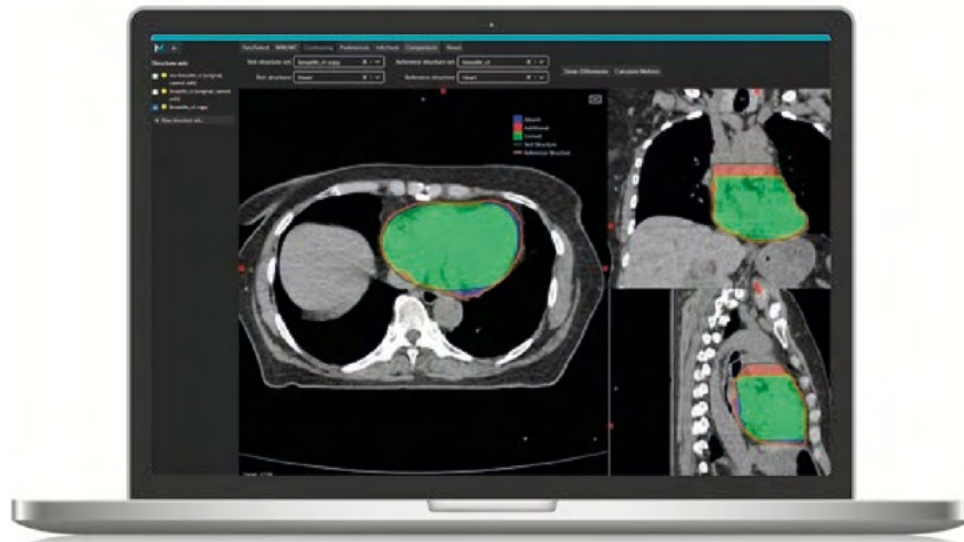
Review AI & user
contours

MVision Verify is designed to help assess contours. Easily compare and visualize user or AI-generated structures vs. selected reference structures and calculate similarity metrics.

Benefits

—● Visualize and quantify

User can compare any contouring results by visualizing the differences and calculating similarity metrics against selected reference contours, including Dice score and Hausdorff distance.





Training and customer service

The GBS™ solution is easy to install and configure. Training is available online and on-premises. Any issue will be solved quickly by our dedicated customer service team via phone or email.

Updates

The GBS™ solution will be updated via the cloud after a new release or changes to contouring guidelines.

Artificial intelligence (AI)

MVision Contour+ uses an AI algorithm called deep-learning neural network. These neural networks attempt to simulate the behavior of the human brain, allowing it to “learn” from large amounts of data. This is the first cloud-based, AI-powered auto-segmentation service for radiotherapy.

We have seen a great improvement with our clinical workflow. Valuable time was gained using MVision AI. Our workflow improved significantly, so that now we don't need additional staff. What used to take four hours of work to contour, now takes us just ten minutes.

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