

SEEING BEYOND THE VISIBLE

FUTURE HEALTHCARE

www.sensai.eu



MEET OUR EXPERTS

Our research team working on **Sens.AI** already published 10+ papers in top-tier conferences, including QIRR at **RSNA 2018** and **ECR 2019**.



CLINICAL PARTNER

Sens.AI is being created in close cooperation with:



Maria Skłodowska-Curie Memorial Cancer Center and Institute of Oncology Gliwice Branch

(Centrum Onkologii – Instytut im. Marii Skłodowskiej-Curie,
Oddział w Gliwicach)

Gliwice Center of Oncology (Centrum Onkologii) is a multidisciplinary oncological center offering cancer patients all the highly specialized methods of combination therapy of all types of cancer that are recognized in the world.

The Sens.AI project is being developed with the Department of Radiology and Imaging Diagnostics of the Oncology Center.

WHAT IS Sens.AI?

Sens.AI is a system for comprehensive and automatic brain MRI analysis.

- It is a tool supporting the diagnosis of brain lesions (LGG and HGG) through the analysis of magnetic resonance images.
- Sens.AI analyzes sequences of medical images in search of relevant diagnostic information.
- The purpose of this is:
 - to support the diagnosis of brain lesions,
 - to track the progression of disease and lesion volume changes over time,
 - to save time spent on manual segmentation and image analysis.



WORKFLOW



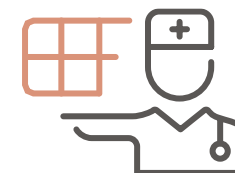
**MAGNETIC
RESONANCE IMAGING**



**AUTOMATIC SEGMENTATION
AND ANALYSIS**



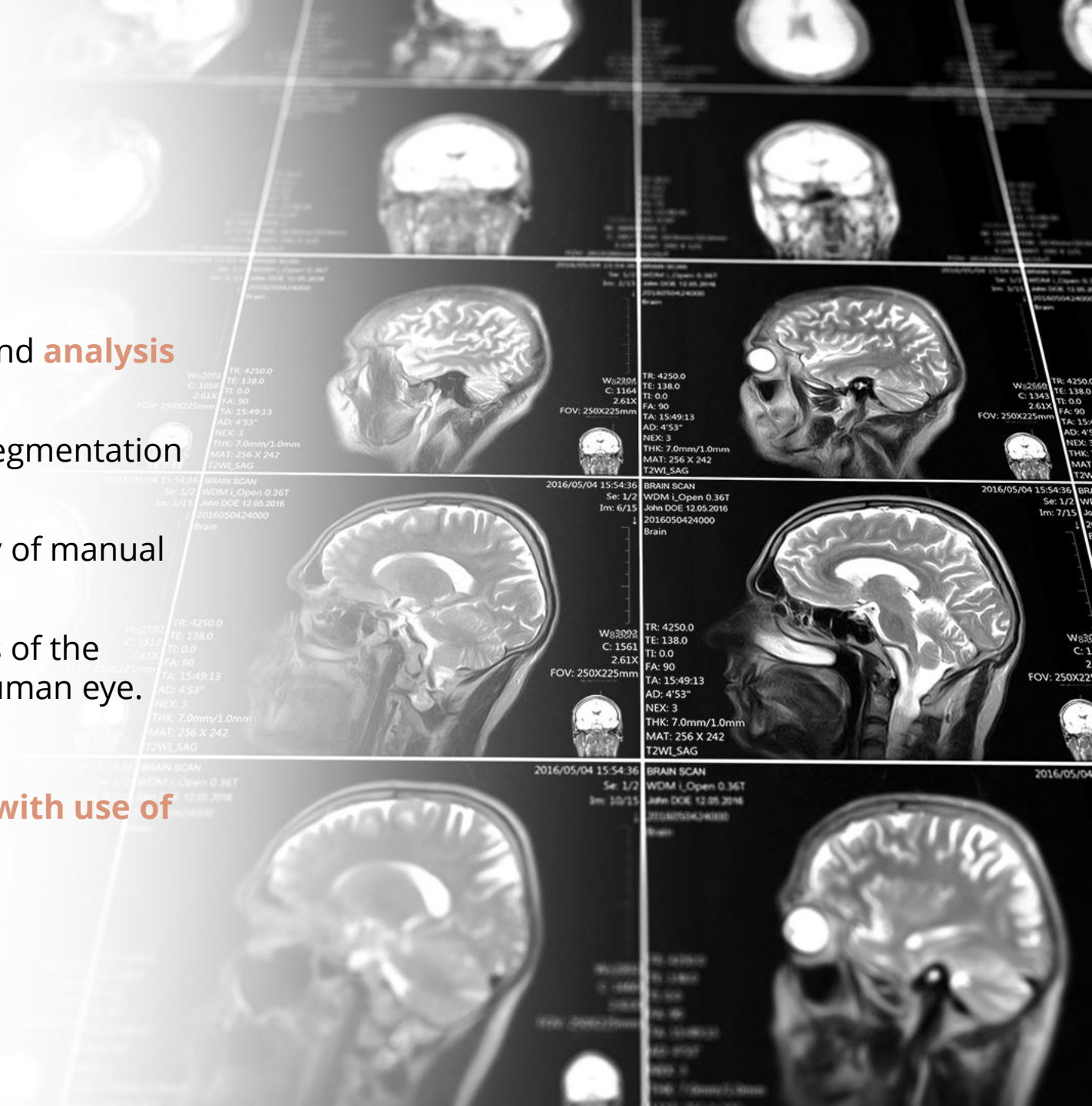
**REPORT
ON ANALYSIS**



**INTERPRETATION OF RESULTS
BY A RADIOLOGIST**

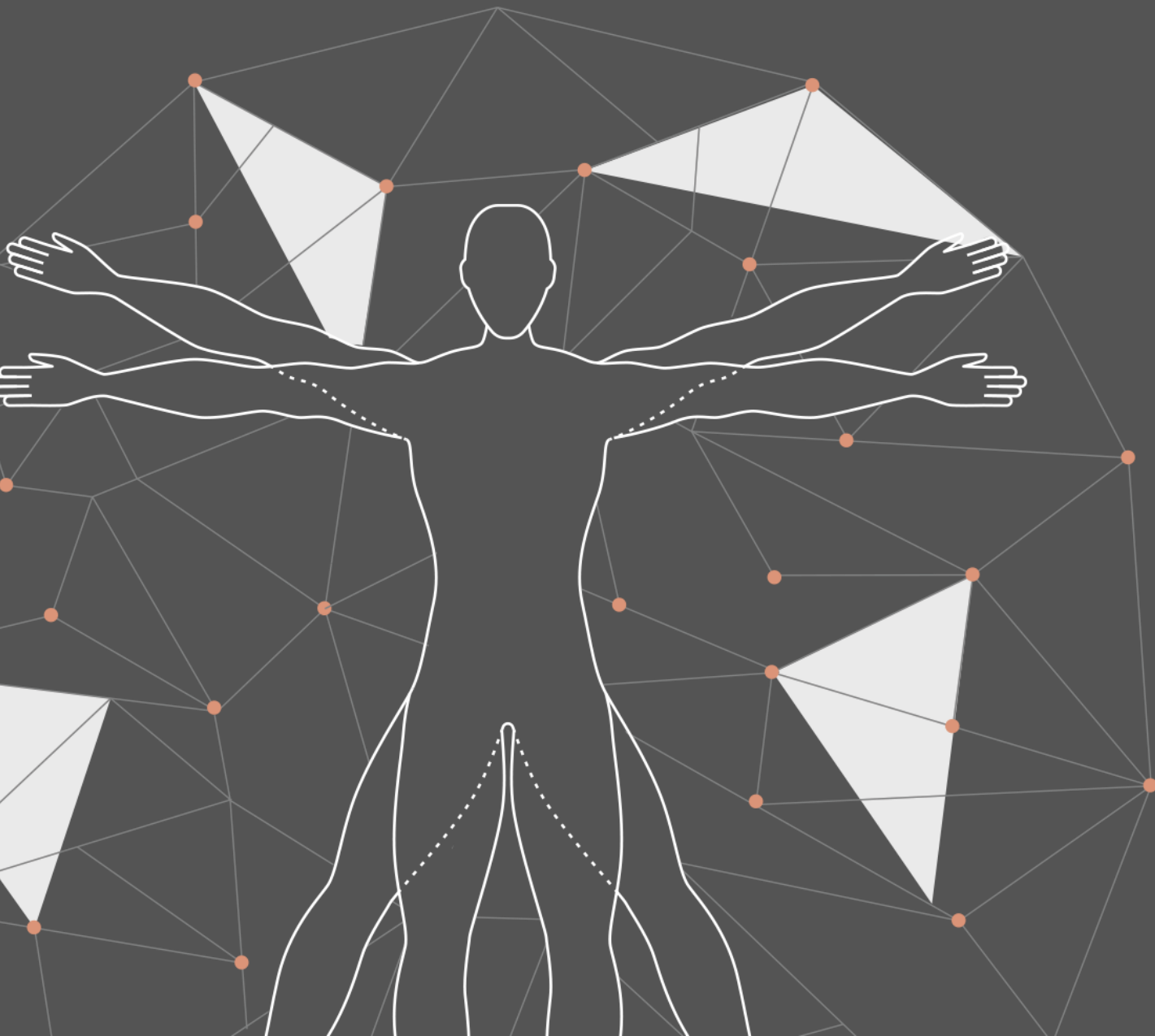
ADVANTAGES

- **Automatic execution** of both **segmentation** and **analysis of medical images** for each patient.
- **Repeatability of results** obtained during the segmentation and lesion volume calculation.
- **Time saving** – the system reduces the necessity of manual segmentation and image analysis.
- **Support for the diagnosis process.** The results of the algorithm are not affected by the error of the human eye.
- Data processing **without user's intervention.**
- **Analysis and comparison of results possible with use of publicly available DICOM file viewers.**



WHAT DO WE OFFER?

- Sens.AI **platform for easy integration** with the hospital image archiving and communication (PACS) system, as well as algorithms for segmentation and analysis of MR images.
- Innovative algorithms for:
 - **Innovative algorithms for segmentation of LGG and HGG** – for clinicians looking for a modern and reliable tool for segmentation.
 - **Innovative algorithms precisely calculating the volume of the lesion.**
 - Image analysis and automatic data processing services.
- Know-how regarding **the application of machine learning methods in medical applications.**
- **Support of specialists in the field of Machine Learning combining academic competencies with technological skills.**



THANK YOU

What can we do together?

Contact us and find out how our specialists can support your project.

Future Processing

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