



TESEO

DIGITAL RADIOGRAPHY
ACQUISITION SOFTWARE



Digitec

Providing **software solutions** and developing
radiological image processing **since 1985**

presents



TIRESYA is **our intelligence, our innovative approach** to radiology. It is the pulsing heart of our software solutions. Tiresya represents our **expertise, knowledge** and our **outlook** on the future. It holds our know-how, our experience in the field, as well as the most innovative features in digital radiography and the most sophisticated **AI algorithms**.

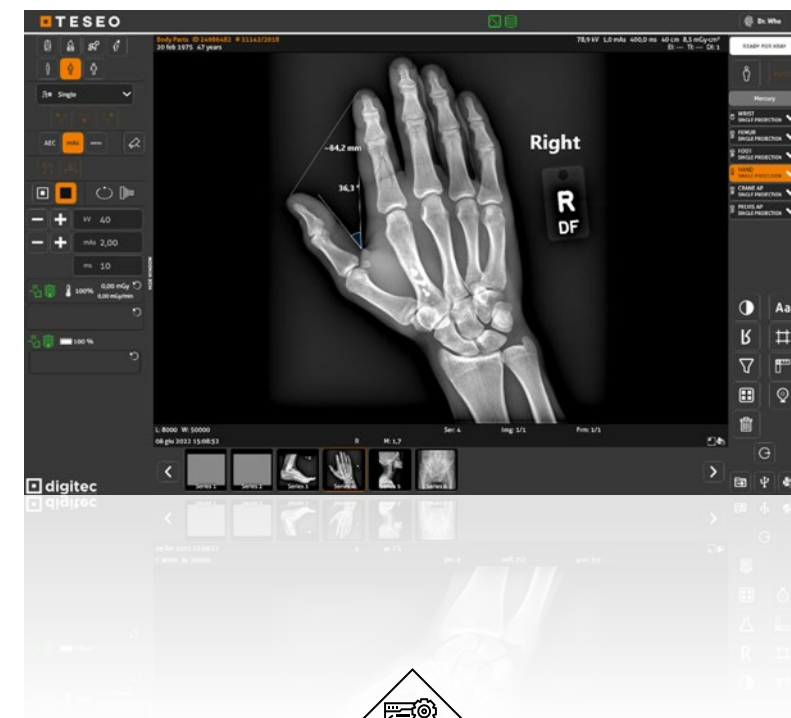
TIRESYA is the core of our products

■ ERACLE | ■ ODIS | ■ TESEO | ■ ARGO

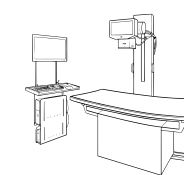


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Modality:



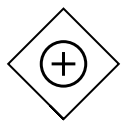
STATIONARY SYSTEM



MOBILE SYSTEM



TABLET



Our Plus

WORKSTATION CONSOLE

Our stand-alone software can be supplied on medical or consumer PC (already configured)

MULTI DETECTOR SYSTEM

Compatible with the main static and hybrid detectors on the market

X-RAY DEVICES INTEGRATION

Generators, accessories and 3rd party systems



SMART USABILITY

User-friendly interface, touch oriented, multi resolution format, multi language support, customizable UI (on request)

DICOM 3.0 COMPLIANCE

Store, Storage Commitment, Query/Retrieve, Worklist, MPPS, Print, CD/DVD/USB, Verify, Dose SR

PROPRIETARY ADVANCED PROCESSING ALGORITHMS FOR IMAGE QUALITY

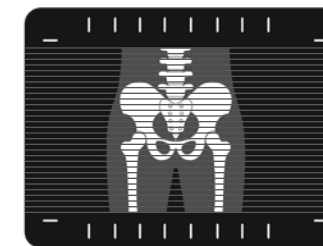
Grid Suppression, Software Grid, Stitching, Dual Energy, Tomosynthesis, Boost Lines, Bone Suppression



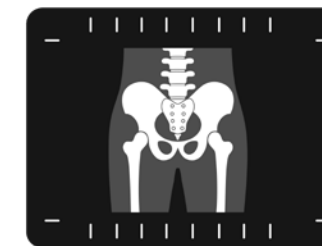
Our strength is in details

Grid Suppression

Identifies the presence of the typical disturbance caused by an anti-scatter grid and eliminate the artefact.



WITHOUT GRID SUPPRESSION



WITH GRID SUPPRESSION

Software Grid

Estimates and removes scatter from images acquired without physical grid enhancing contrast

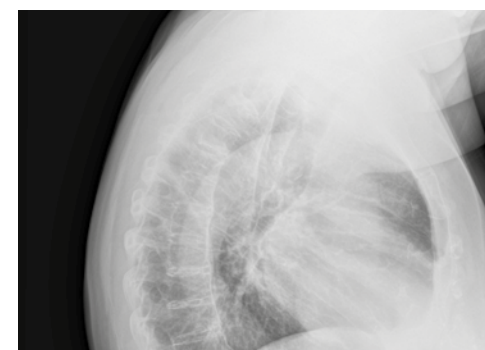
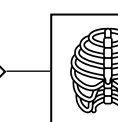
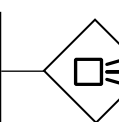
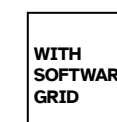
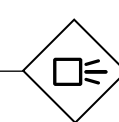
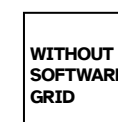


Image **WITHOUT**
Software Grid

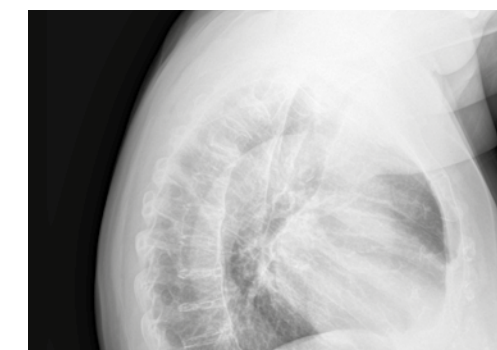
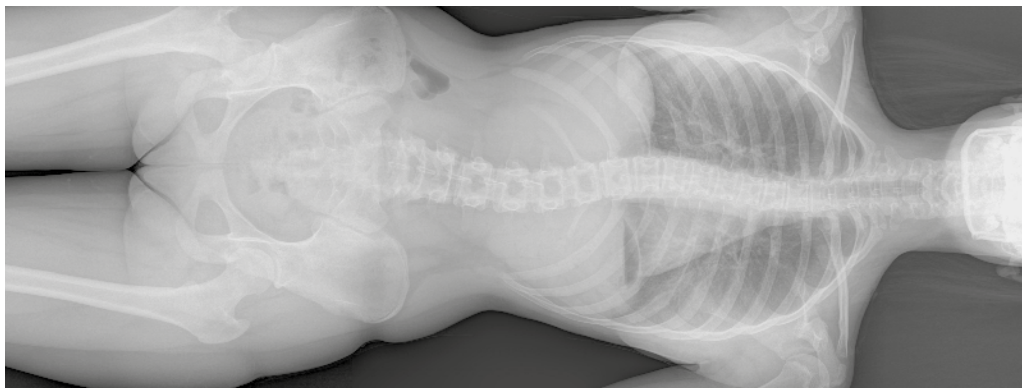


Image **WITH**
Software Grid

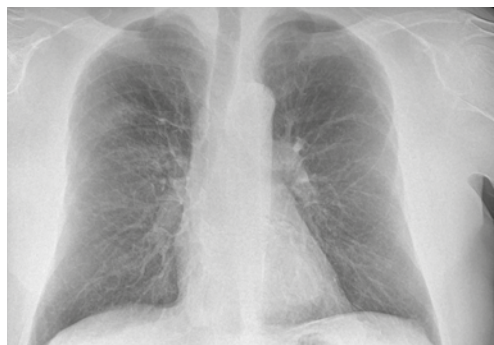
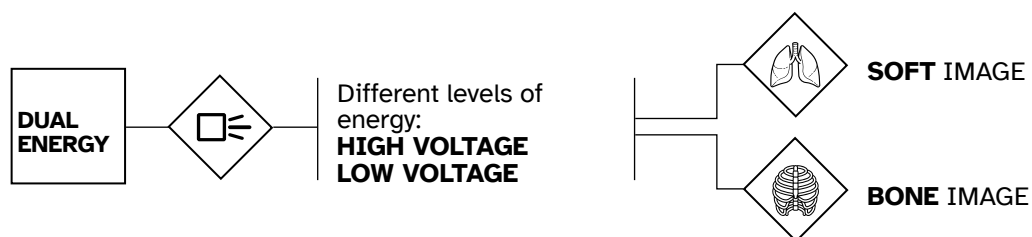
Stitching

Stitches automatically a series of exposures into a full optimized body image

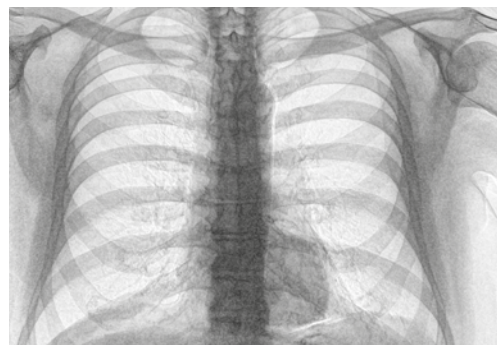


Dual Energy

Allows to separate soft tissue and bones in different images obtained from double chest x-ray exposure



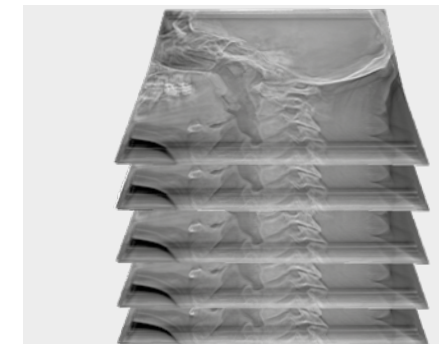
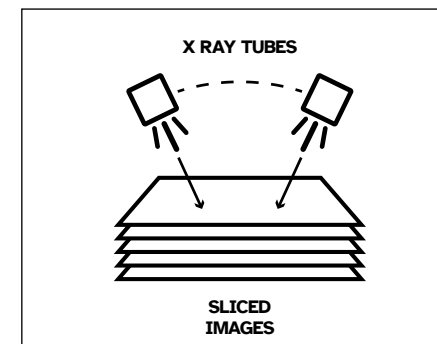
SOFT IMAGE
soft tissue component



BONE IMAGE
hard tissue component

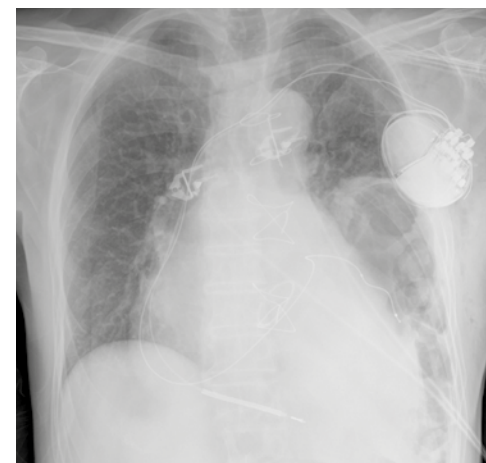
Tomosynthesis and Iterative Tomosynthesis

Tomosynthesis is an x-ray imaging modality technique that provides volumetric information about anatomical structures. The iterative approach is a novel reconstruction, where the algorithm operates in a recursive fashion, updating the estimates of the object volume until it converges to an optimal solution, so that the reconstructed image has less noise.

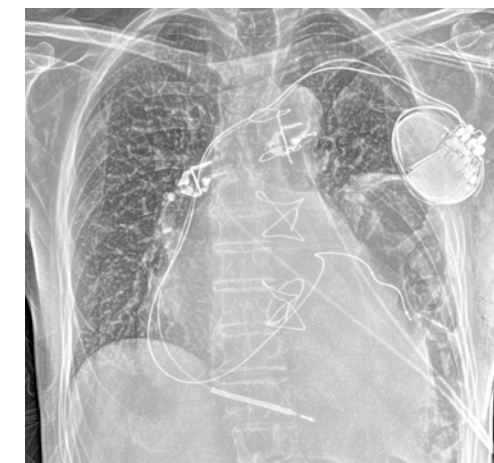


Boost Lines

Boost Lines is an image-processing algorithm to enhance the visibility of tubes and catheters in chest x-ray images, giving a better information about their positions and placement.



CHEST X-RAY IMAGE
WITHOUT BOOST LINES



CHEST X-RAY IMAGE
WITH BOOST LINES



Our future*

Bone suppression

Artificial Intelligence algorithm that automatically removes bones from single shot chest x-ray images



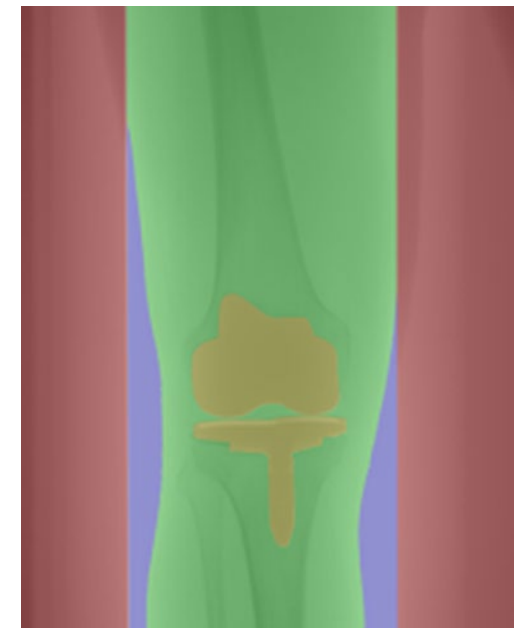
CHEST X-RAY IMAGE
WITHOUT BONE SUPPRESSION



CHEST X-RAY IMAGE
WITH BONE SUPPRESSION

Anatomical Artificial Intelligence

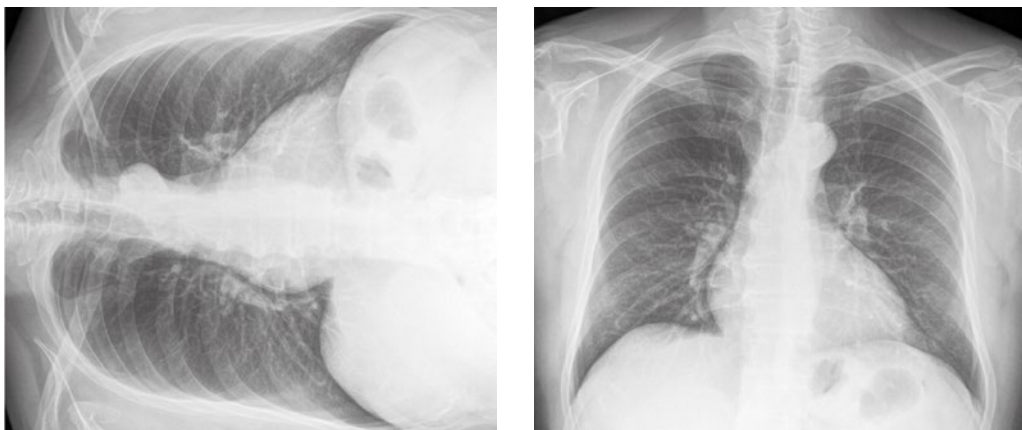
Artificial Intelligence algorithm that classifies image regions into anatomical parts, shutters, direct irradiations and metal objects



*Algorithms under development

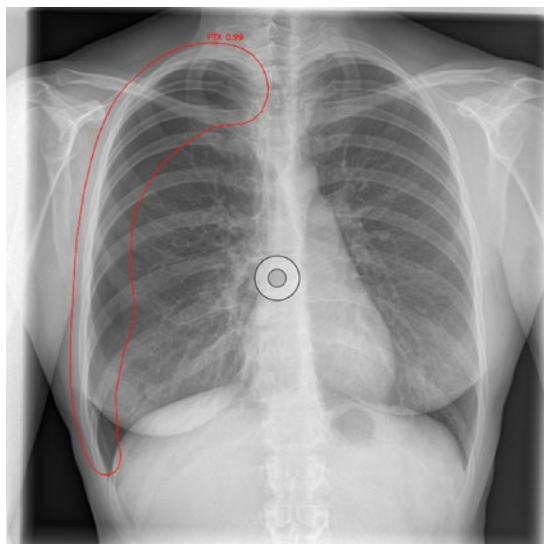
Auto rotate

Artificial Intelligence algorithm that automatically rotates the image in the standardized direction for diagnosis



CAD Algorithms

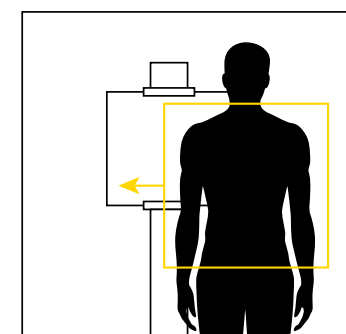
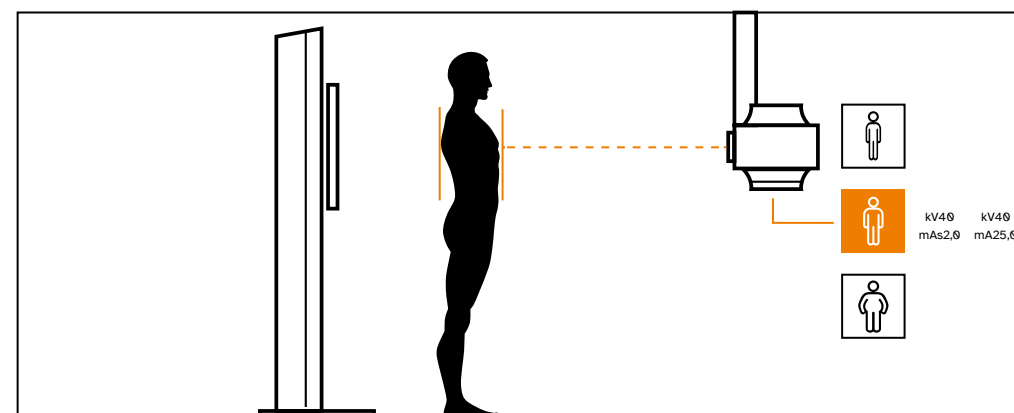
Artificial Intelligence solution to detect abnormal findings and assist radiologists or clinicians in the interpretation of chest x-ray images.



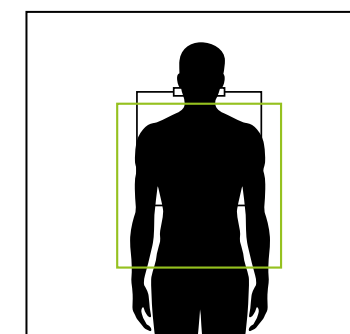
Camera 3D

Integrated in our acquisition software, it allows:

- Patient positioning support
- Patient size suggestion
- Simplification of the acquisition workflow
- Reduction of errors and repeats
- Radiation dose optimization



**CHECK THE POSITIONING
OF THE PATIENT**



**READY
FOR X-RAY**



Advantages



Image quality

High quality images with automated processing based on anatomy and projection



Easy of use

Intuitive user interface and simplicity of use



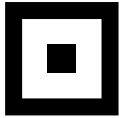
Time saving

Optimized workflows to streamline procedures and reduce time



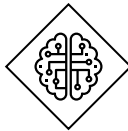
Increased Productivity

Accurate and timely diagnosis thanks to the reduction of inaccuracies and the elimination of repeated examinations



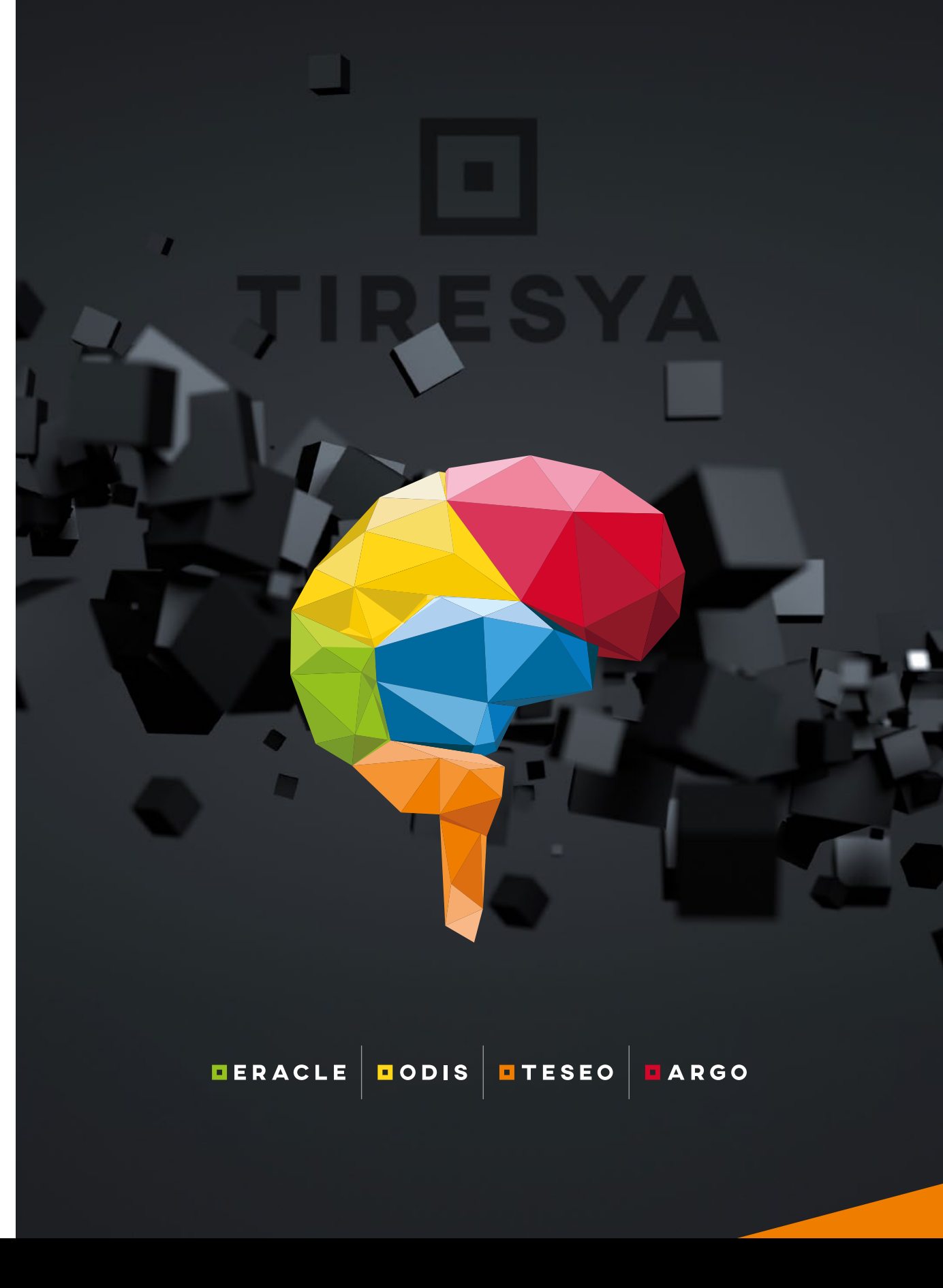
TIRESYA: not only a software platform, but it is also a concept, a work method, a philosophy.
What does this mean in real terms?

- A look and feel interface for all our software
- User-friendly interface
- Touch-oriented mode
- High quality images
- Automatic image processing
- Easy reading of the images
- Optimized radiation dose
- Supports radiographers and x-ray technicians



TIRESYA is the **core** of our **products**

All of Tiresya's properties and functions are applied across the entire range of our products, thus extending our know-how to all the application sectors in which we operate: human, dental and veterinary.



ERACLE | ODIS | TESEO | ARGO

From radiography to **artificial intelligence**



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