

From radiography to  
**artificial intelligence**



 **ODIS**

DIGITAL RADIOGRAPHY  
AND FLUOROSCOPY  
ACQUISITION SOFTWARE  
FOR C-ARM

 **digitec**  
DIGITAL INNOVATION

**Digitec Srl** | Via Caduti Lecchesi a Fossoli, 17 | 23900 Lecco (LC)  
SDI Code T04ZHR3 | Tax Code 00527870141 | VAT n. 01647550134  
Email: [info@digitecinnovation.com](mailto:info@digitecinnovation.com) | Tel: +39 0341 36 46 17  
[digitecinnovation.com](http://digitecinnovation.com)

Ver. 2023 Rev. 2

[digitecinnovation.com](http://digitecinnovation.com)



# Digitec

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

presents



# TIRESYA

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 radiology and the most sophisticated **AI algorithms**.

TIRESYA is the core of our products



# ODIS

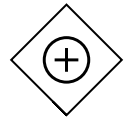
DIGITAL RADIOGRAPHY AND FLUOROSCOPY ACQUISITION SOFTWARE FOR C-ARM



**Modality:**



C-ARM



# Our Plus

## WORKSTATION CONSOLE

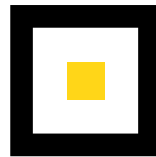
Our stand-alone software can be supplied on medical or consumer PC (already configured)

## MULTI DETECTOR SYSTEM

Compatible with the main dynamic 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

Digital Subtraction Angiography, Quantitative Analysis

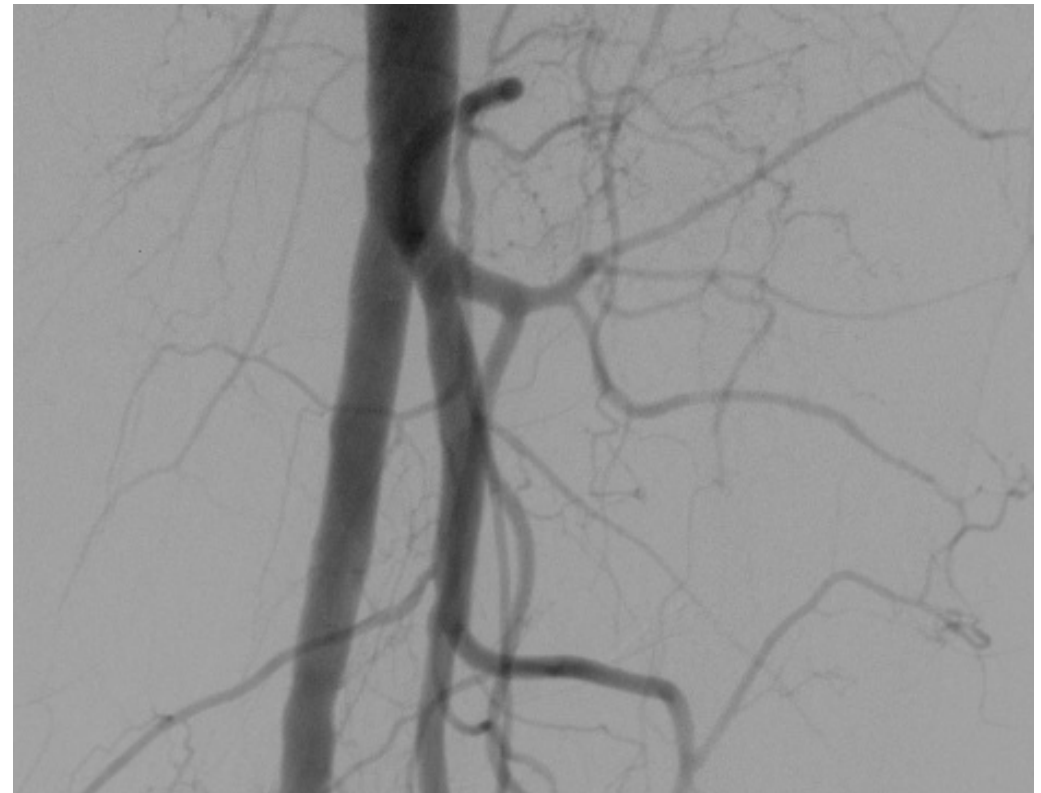


# Our strenght is in details

## DSA

### Digital Subtraction Angiography

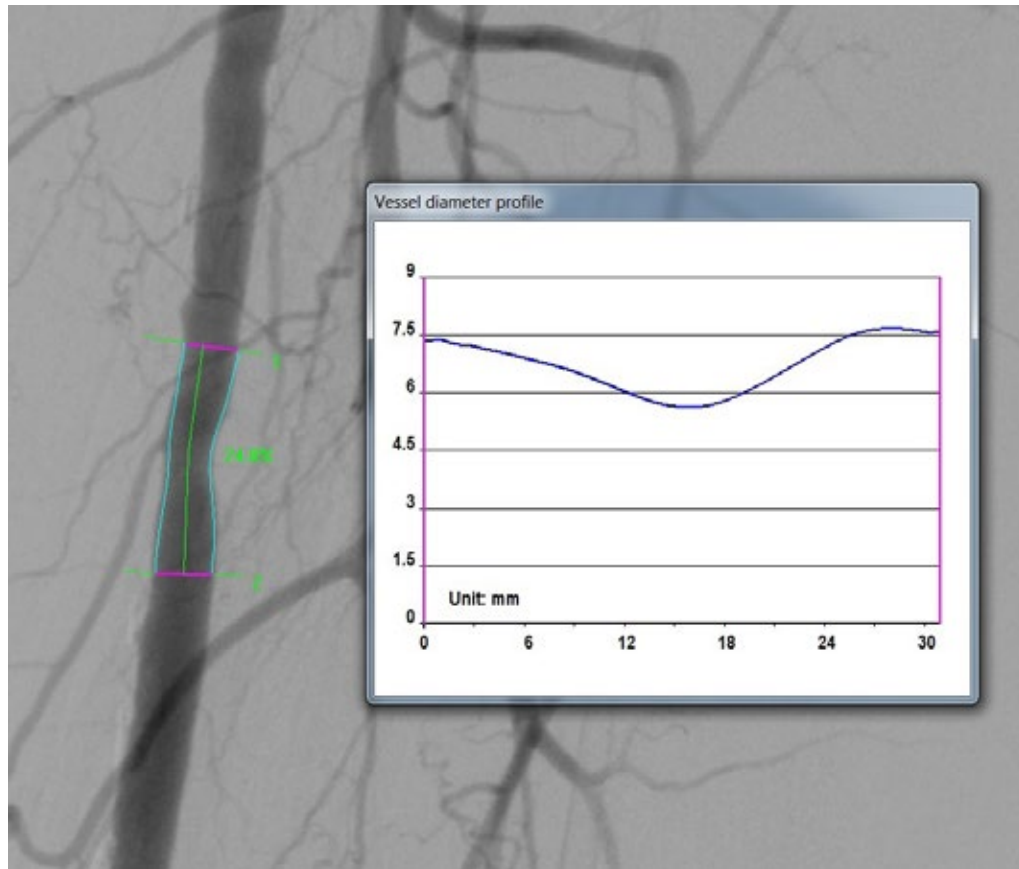
DSA is a multiple shot radiographic technique used in radiology to visualize vessels. Radiopaque structures such as bones are eliminated ("subtracted") digitally from the image, thus allowing for an accurate depiction of the blood vessels.



## QA

### Quantitative Analysis

Algorithm that performs quantitative analysis in angiographic images, to automatically identify vessels edges and stenosis.



## Monitor Configuration

Support two configurations: a dual physical monitor (portrait) and a single horizontal (landscape) monitor with virtual separation.



Regardless of the configuration chosen, the image area will be maximized with respect to the available spaces.

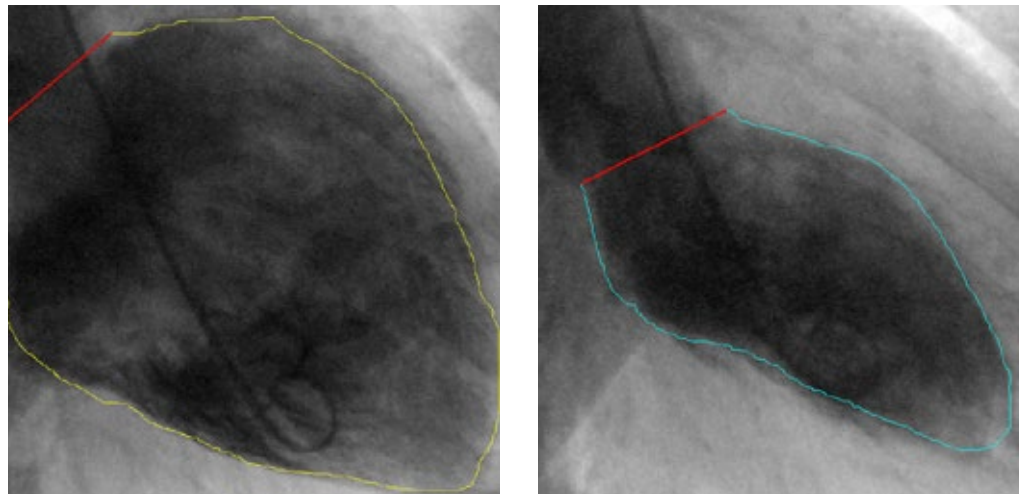
Live images will be displayed on the main monitor while the main operational controls will be available on the reference monitor.



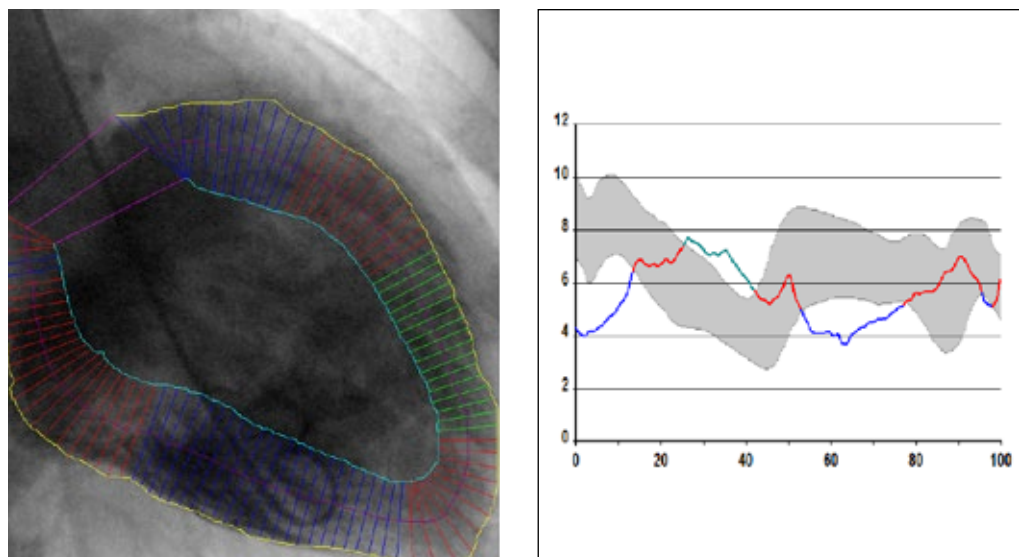
# Our future\*

## LVA

Left ventricular analysis



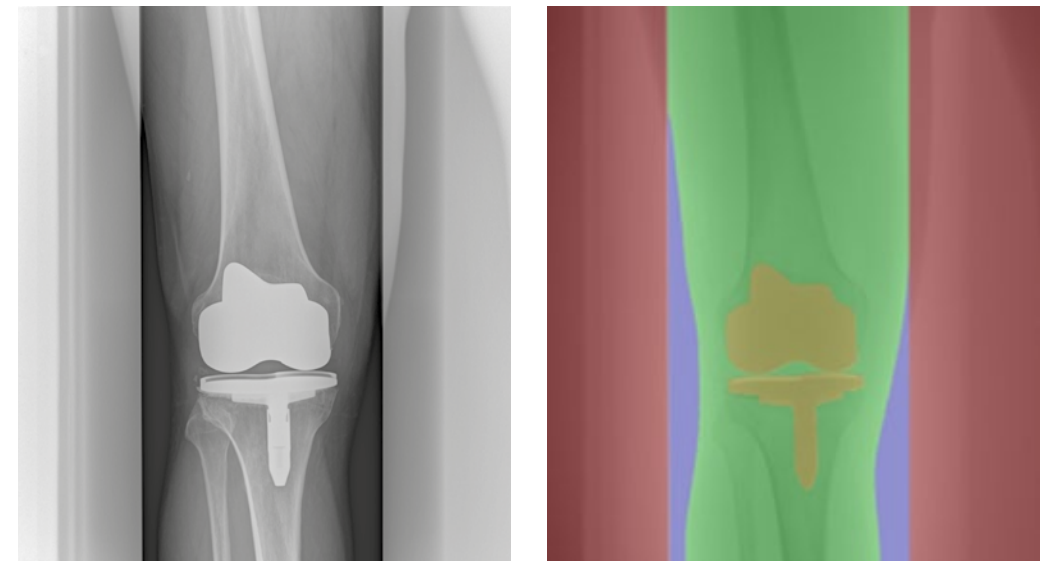
## Wall Motion



\*Algorithms under development

## Anatomical Artificial Intelligence

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



### Anatomical R-evolution

AI improves image quality through automatic anatomical area recognition

### Anatomical W/L

AI evolves fixed preset ROI into anatomical ROI

### Anatomical ABC

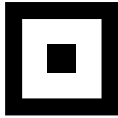
AI dynamically optimizes exposition parameters detecting and excluding metal objects

### Anatomical Exposure Index

AI improves the detector dose estimation within the anatomical region (excluding shutters, direct irradiations and metal objects)

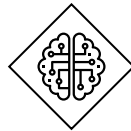
### Foreign object recognition

AI recognizes foreign objects, such as metal objects or prostheses



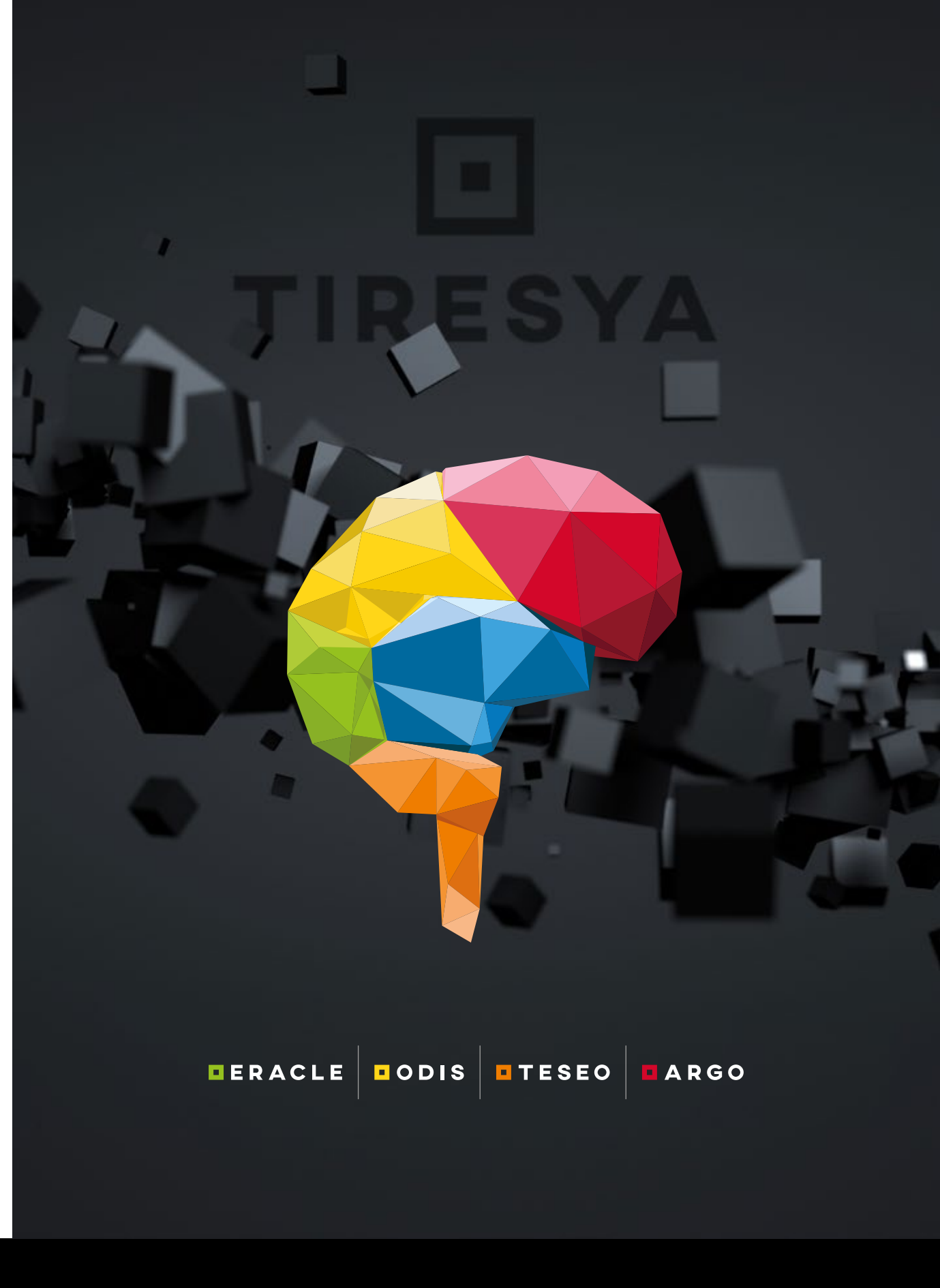
**TIRESYA:** not only a software platform, but it is also a concept, a work method, a philosophy.  
What does this mean in real terms?

- 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