# INTRODUCING PEGASO EVOLUTION

# CLINICAL DIAGNOSTICS AND APPLICATIONS



MEDICAL IMAGING



THE COMPANY



#### ABOUT US

#### Quality Made in Italy

#### Designed and produced in Florence

Every need of the customer is satisfied in the same place

#### Research and Development group

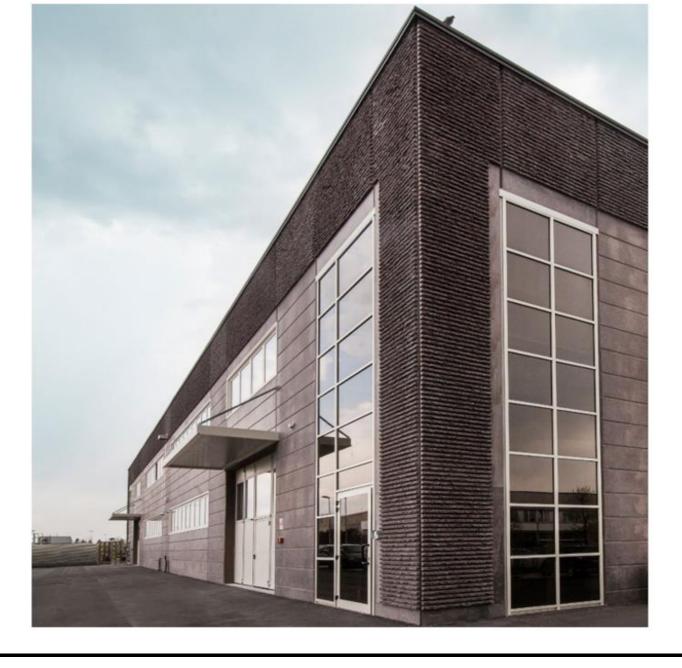
A group of young engineers opened to the market request in order to satisfy them.

#### Ten years of expertise

Our team has developed a 10 years of expertise on HDVI technology.

#### From vet market to human

Our Company was born as a veterinarian supplier. Our products are thought for vets needs.





#### WHAT WE DO



# Compact, Transportable and Lightweight

Our machine *drastically reduces* installation and operating costs, additionally it can also be *easily moved* around the clinic.

WHAT WE DO

We develop innovative scanners for veterinary radiology, conceived as CT + Fluoroscopy. Our machines are entirely designed and manufactured in Florence.

OUR VISION

Imaginalis pursues diagnostics that respects people and the environment. The patient is always the center of the medical service.



THE MACHINE





DESIGNED FOR EQUIDAE



LIGHTWEIGHT & TRANSPORTABLE



HIGH RESOLUTION



LOW RADIATIONS



LOW



LIFTABLE WITH LIFTER









Height	209 cm
Lenght	232 cm
Width	217 cm
Gantry Diameter	222 cm

#### Internal cameras

Allow the micro correction of movement, ensuring precise images.

#### Mobile Console

With dual screen and user friendly interface.

#### Gantry

Inner diameter of 123 cm. Tilts up to 10° to facilitate use.

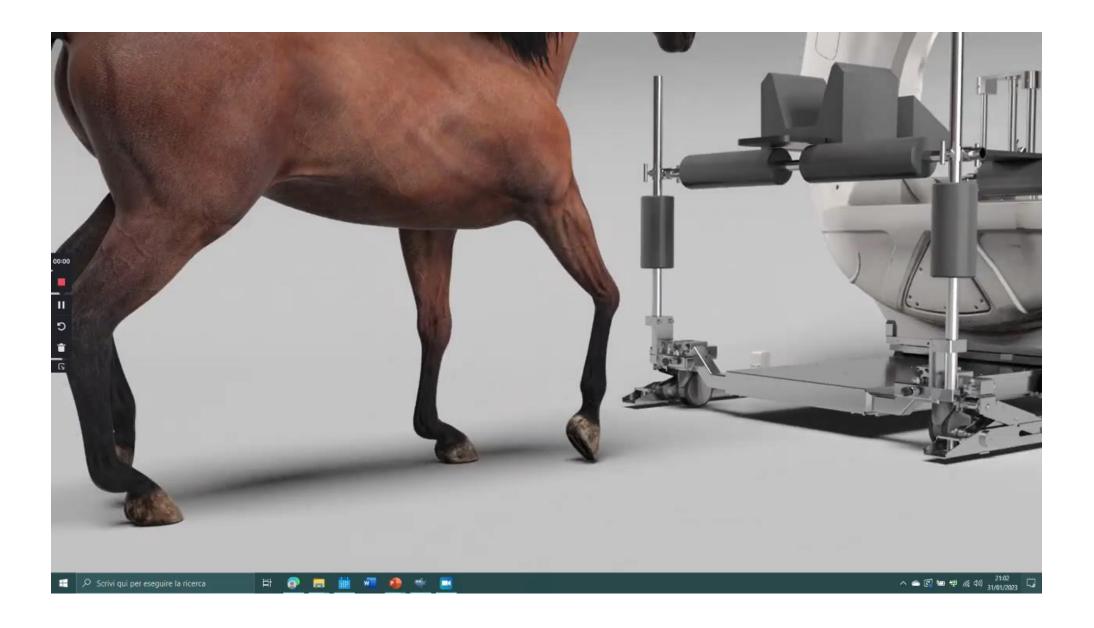
#### Wheels and Platform

Facilitate handling and installation.



The head, neck and limbs of the equine can be scanned with the sedated patient standing, limiting the risks related to anaesthesia.





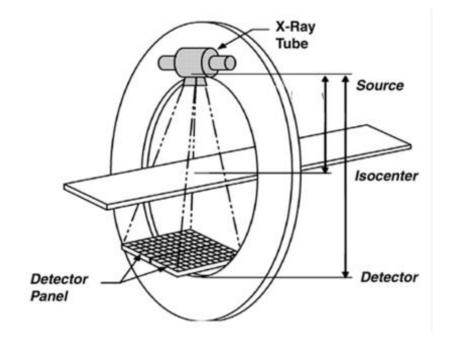


# THE HDVI TECHNOLOGY IS DIFFERENT

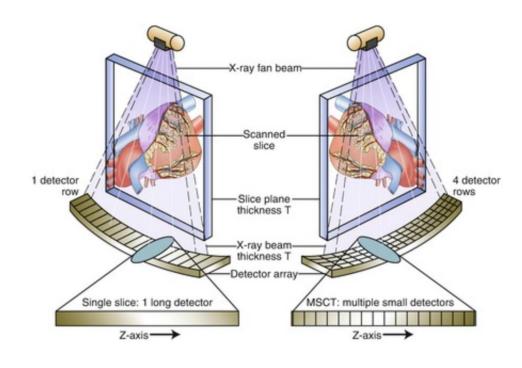


## WHY HDVI-CT IMAGING PLATFORMS ARE DIFFERENT

#### HDVI CT TECHNOLOGY



#### SLICE CT TECHNOLOGY

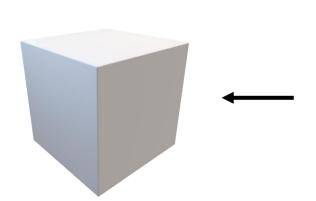




# WHY HDVI-CT IMAGING PLATFORMS ARE DIFFERENT

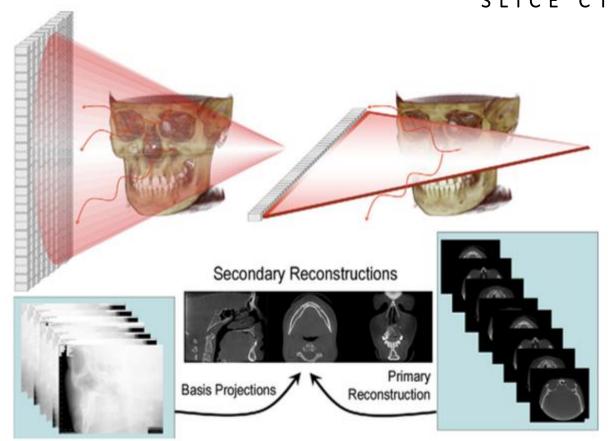
HDVI TECHNOLOGY

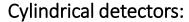
SLICE CT TECHNOLOGY



#### Isovolumetric voxel:

- Isotropic dataset
- Axial, sagittal and coronal views



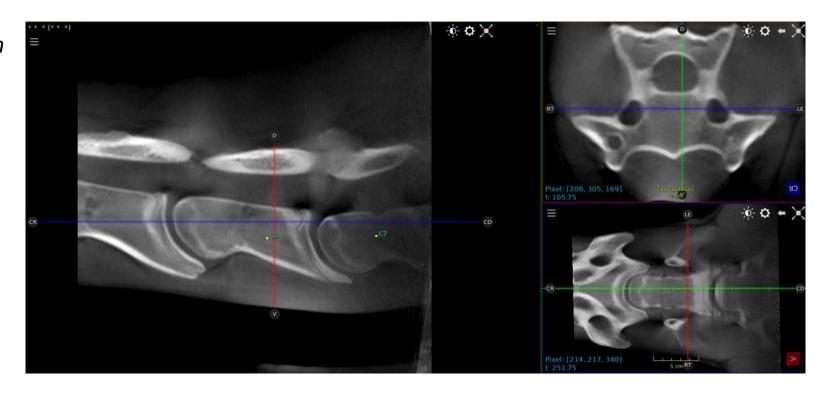


- Multiple dataset
- limited resolution

# HIGH-DEFINITION VOLUMETRIC IMAGING - ISOTROPIC VOXEL

#### 3D MAP OF DENSITIES IN A PATIENT

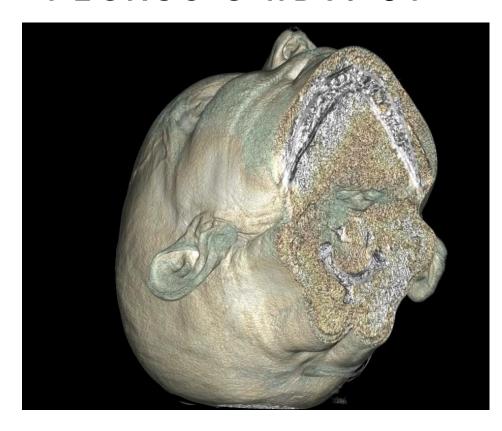
- Isotropic Voxels (*same resolution in all directions*: axial, sagittal and coronal).
- Can be viewed at any thickness and any orientation.
- Bone and soft tissue.
- Highest resolution in clinical imaging (up to 250 μm).





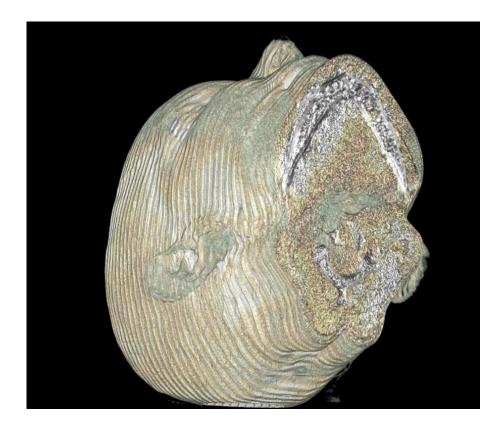
# THE PRINCIPAL DIFFERENCE IS IN THE COLLECTED DATA

# PEGASO'S HDVI-CT



- Gapless, Volumetric Data with No Interpolation
- One isotropic dataset at the highest resolution
- Primary imaging utility for all clinical cases

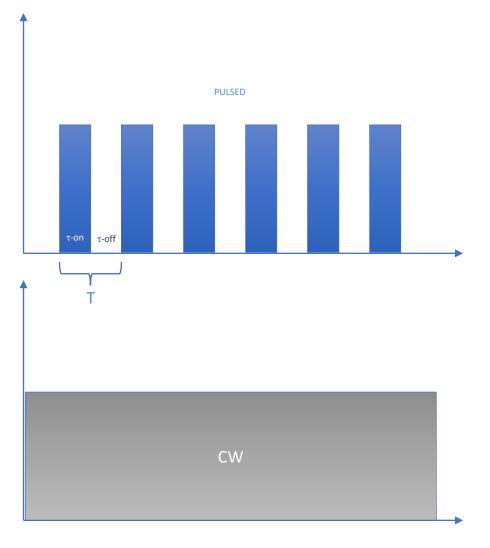
# CONVENTIONAL CT SYSTEMS



- Data Gaps require Interpolation
- Multiple datasets- limited resolution
- Limited imaging utility



# WHY IS HDVI RADIATION SO MUCH LOWER?



#### WHY OUR RADIATION IS LOWER?

1) HDVI CT's radiation is **Pulsed** while multi-slice conventional CT's radiation is Continuous (CW)

HDCT Pulsed @ 1 – 2% Duty Cycle

$$Duty \ Cycle[\%] = \frac{\mathsf{t-on}}{\mathsf{T}}$$

HDCT radiation is 50% less than CW emitting beam ray.

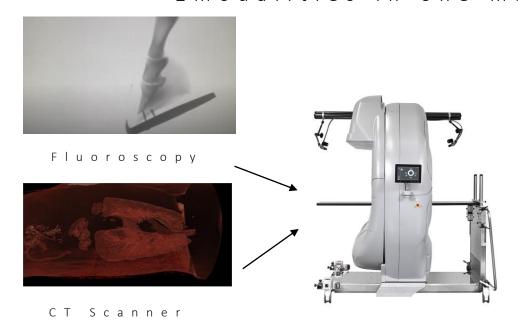
- 2) Beam Filtration
- 3) **Lower Dose Techniques** more sensitive detection

# WHY PEGASO HDVI-CT IMAGING PLATFORMS IS DIFFERENT?

- 2 in 1 multimodality platform: CT FL.
- **Diagnostic + Intra-procedural** (against only diagnostic conventional CT).
- Mobility (can be moved through the clinic doors) or can be used as a fixed platform in imaging space (against fixed conventional CT).
- Soft & Hard tissue (diagnostic).
- **Higher Image Resolution** (up to 250 μm against 1mm of conventional CT).
- Isotropic geometric voxels without interpolation, 100% real data (against interpolation of conventional CT).
- Lower Radiation compared to conventional CT (because of the pulsate emission).
- Lower cost of maintenance compared to conventional CT (1 third of electricity expenses).
- Less infrastructure build-out compared to conventional CT (just a 380V socket).
- Gantry with inner diameter of 123 cm (a big diameter for many different species)
- Tilts up to 110 ° to facilitate use
- Camera system allows the micro correction of the movement of the sedated horse, ensuring precise images

# WHY HDVI-CT IMAGING PLATFORMS ARE DIFFERENT?

PEGASO EVOLUTION
2 modalities in one machine



Portable or Fixed

Moves easily through standard sized doors and hallways.



# PEGASO EVOLUTION DIAGNOSTIC REALM

#### PEGASO'S VOLUMETRIC IMAGING PLATFORM:

AN OPTIMIZED SINGLE PLATFORM THAT SCAN HEAD, NECK AND LIMBS IN THE STANDING HORSE.

DIAGNOSTIC (HDVI CT + FL) and INTRA-PROCEDURAL Including but not limited to:

- ✓ Dentistry
- ✓ Ears, Nasal & Sinus
- ✓ Joints
- ✓ Neck, Spine
- ✓ Orthopedics



## ISOVOLUMETRIC VOXEL ALLOWS TO SEE ALL DIFFERENT VIEWS





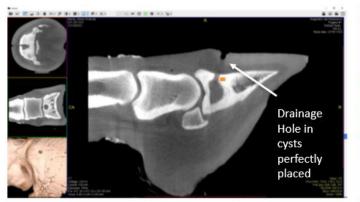
# PEGASO EVOLUTION INTRASURGICAL REALM



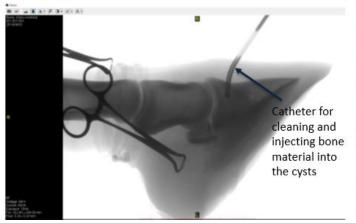
## FULL FEATURED FLUOROSCOPY MODALITY

#### INTERVENTIONAL RADIOLOGY

#### Follow live procedures





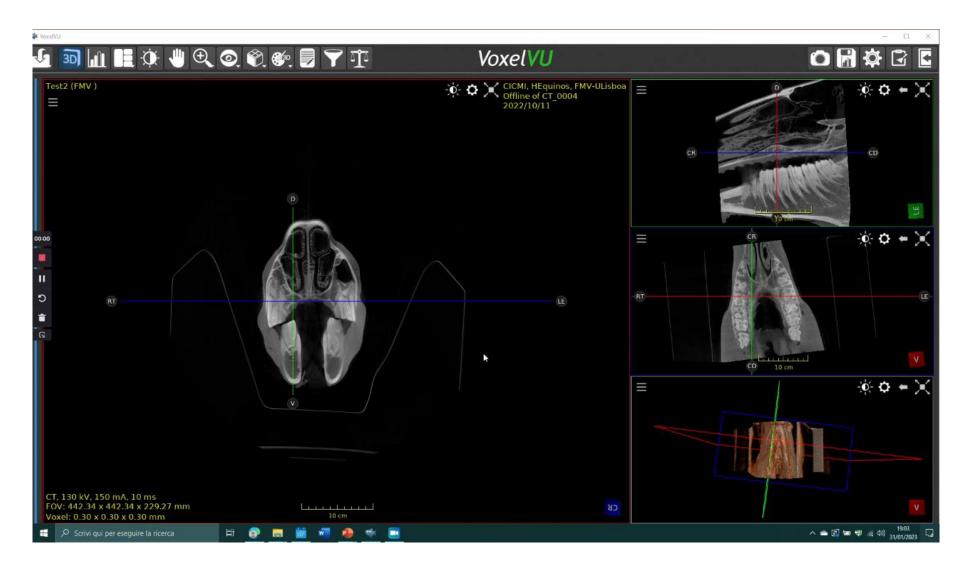




THE CLINICAL CASES

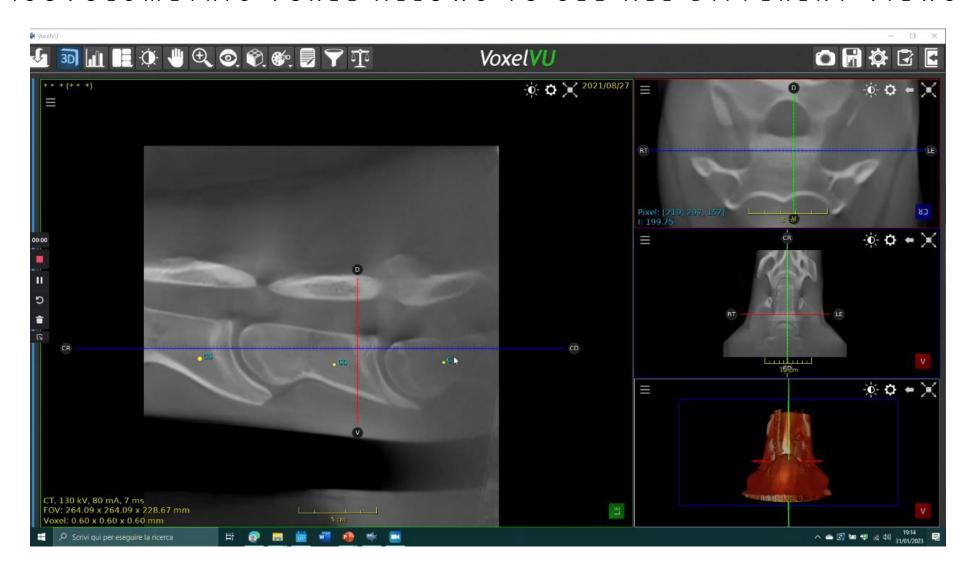


#### ISOVOLUMETRIC VOXEL ALLOWS TO SEE ALL DIFFERENT VIEWS



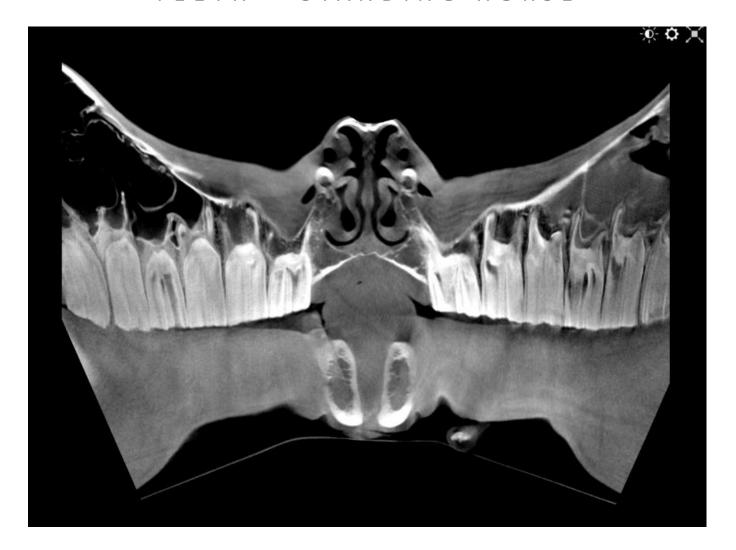


#### ISOVOLUMETRIC VOXEL ALLOWS TO SEE ALL DIFFERENT VIEWS

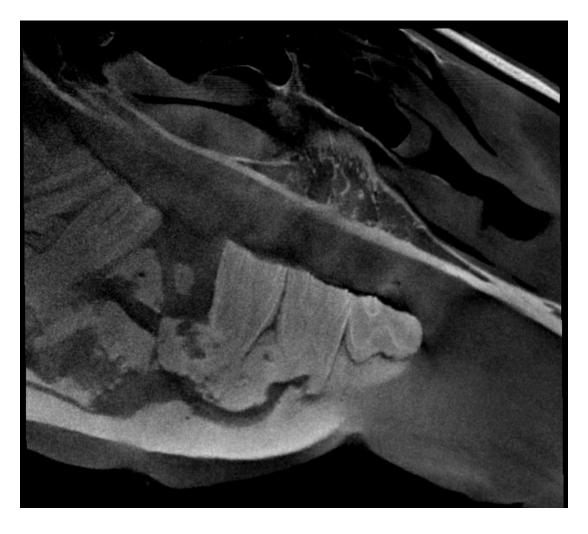




# TEETH - STANDING HORSE



# TEETH - STANDING HORSE



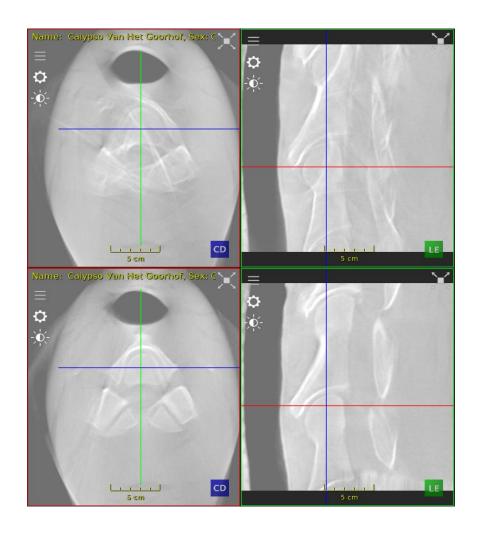
Courtesy of Dr. Toniato

# NECK - STANDING HORSE



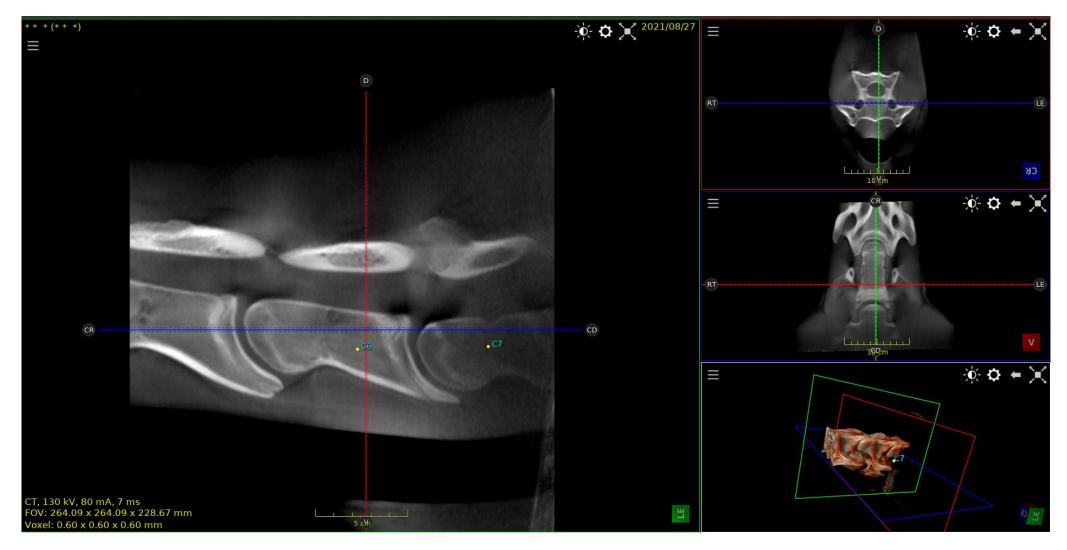
Courtesy of Dr. Lamas Luis

# PEGASO EVOLUTION MOTION CORRECTION





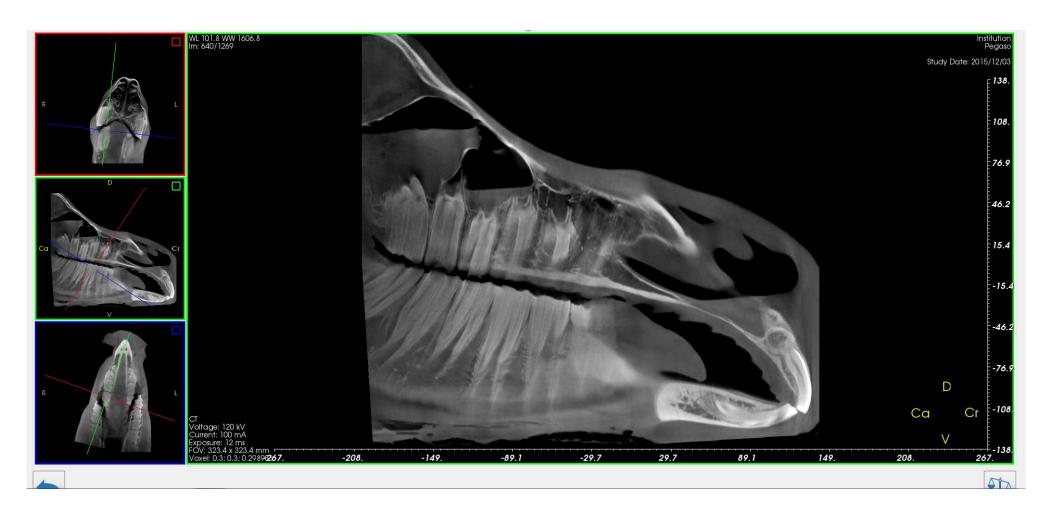
#### NECK - STANDING HORSE



Courtesy of Dr. Luis Lamas



#### HEAD - STANDING HORSE



Courtesy of Dr. Werner Jahn



#### HEAD - STANDING HORSE

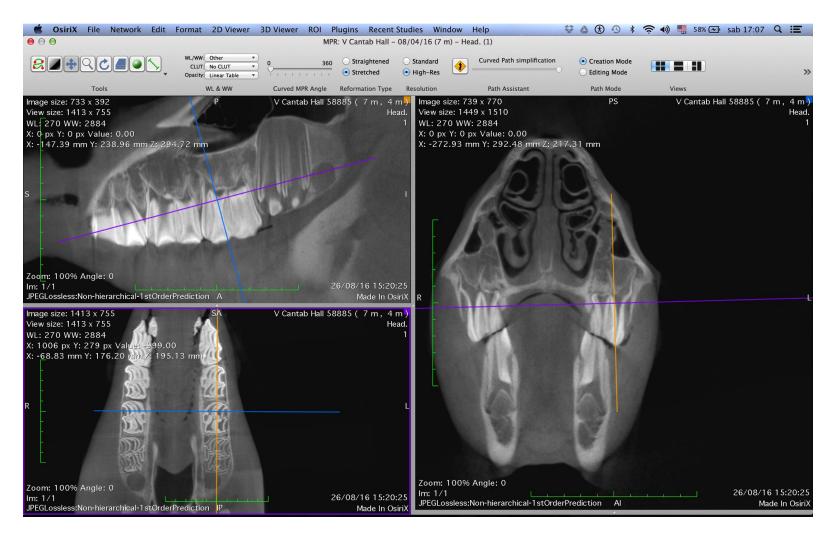


# HEAD — STANDING HORSE Deciduous and permanent teeth





#### HEAD - STANDING HORSE



Courtesy of Dr. Werner Jahn



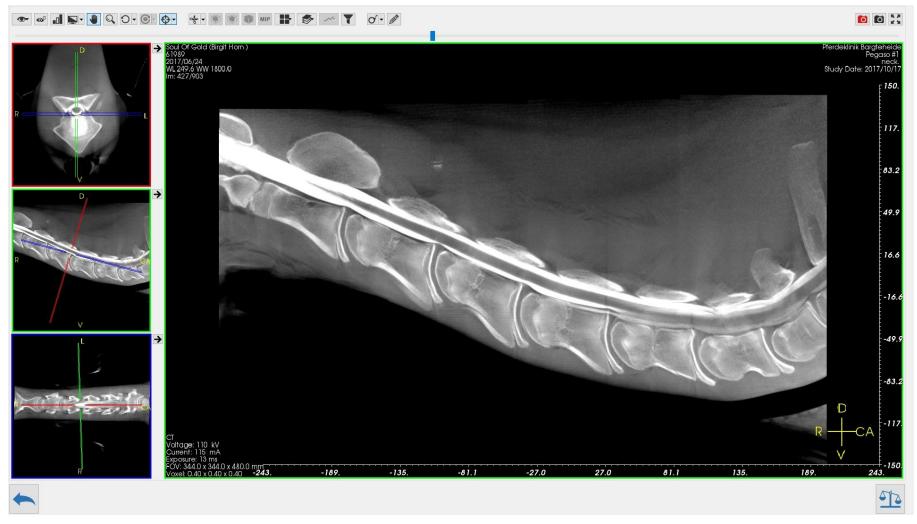
## NECK - MYELOGRAM IN GENERAL ANESTHESIA





Courtesy of Dr. Werner Jahn

#### NECK - MYELOGRAM IN GENERAL ANESTHESIA



Courtesy of Dr. Werner Jahn

#### NECK - MYELOGRAM IN GENERAL ANESTHESIA



Courtesy of Dr. Werner Jahn



# STIFLE - DORSAL AQUISITION





Courtesy of Dr. Werner Jahn

## STIFLE - LATERAL AQUISITION



Courtesy of Dr. Chris Kawchack

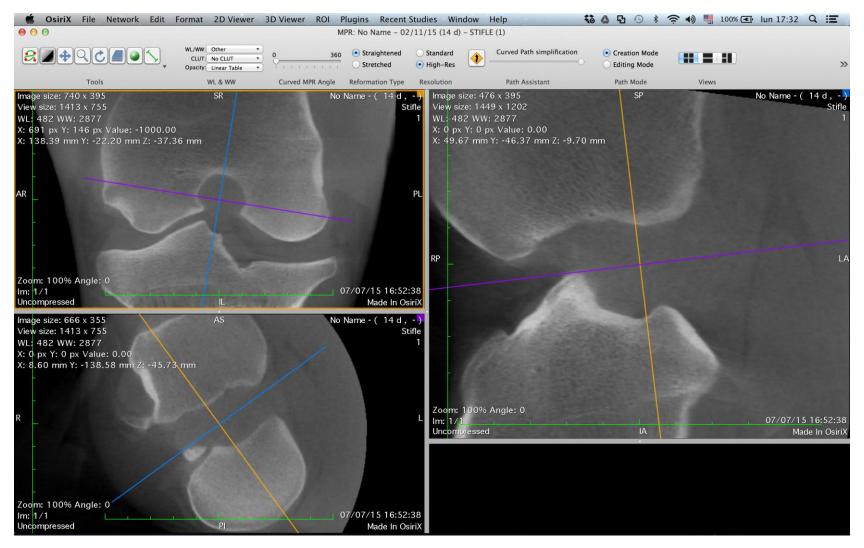
#### STIFLE



Courtesy of Dr. Werner Jahn

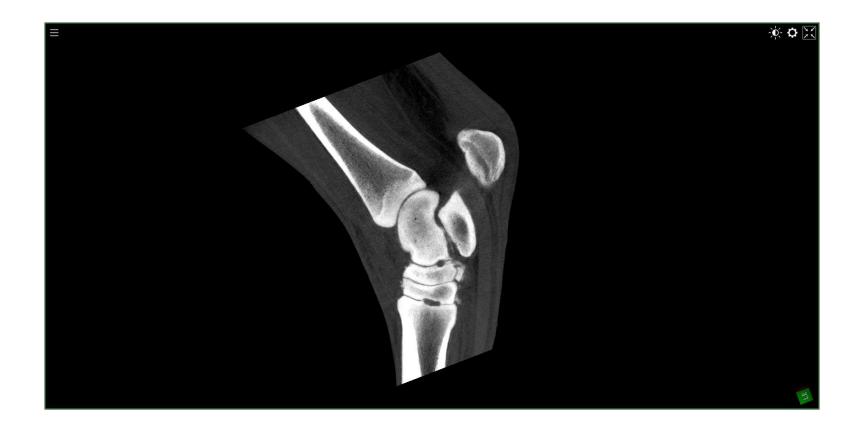


#### STIFLE



Courtesy of Dr. Werner Jahn

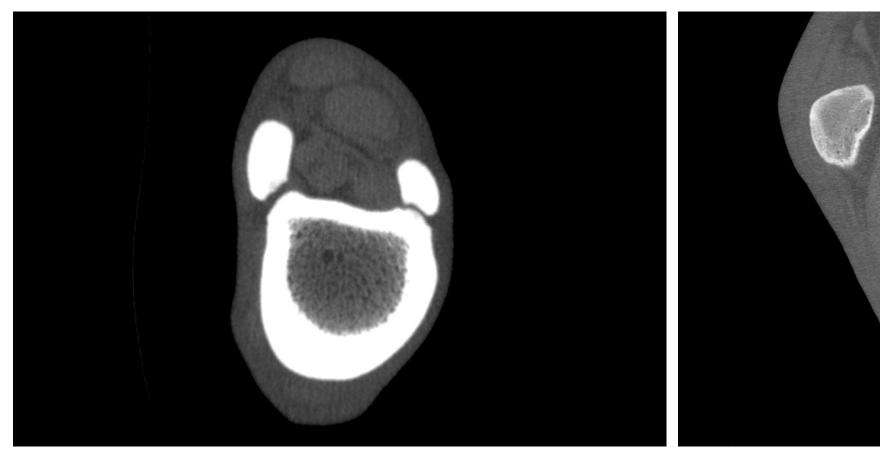
#### HOCK - GENERAL ANESTHESIA



Courtesy of Dr. Lamas



## HOCK - GENERAL ANESTHESIA

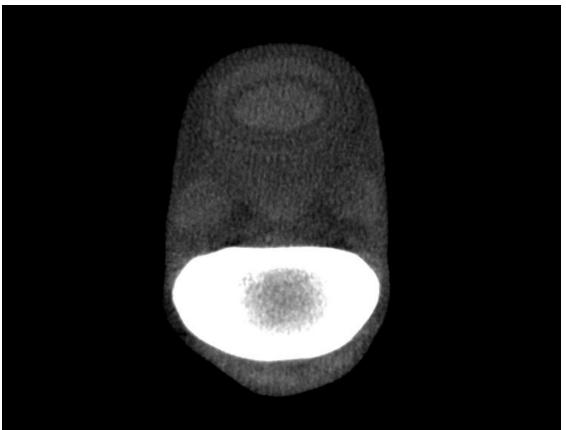




Courtesy of Dr. Lamas

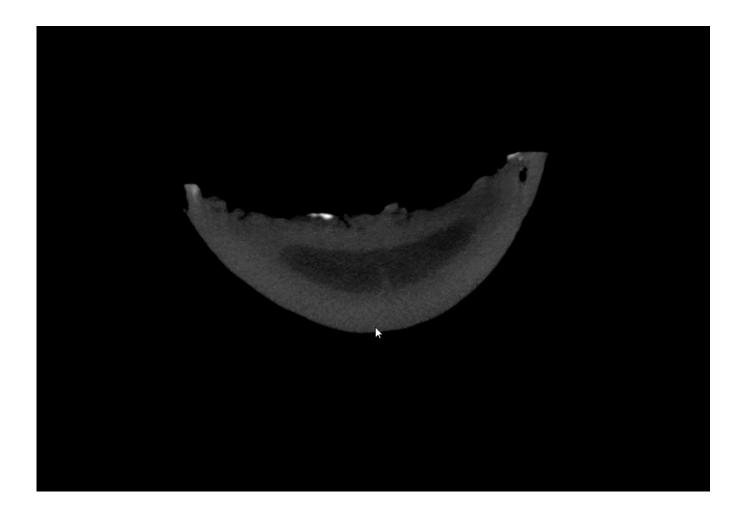
## FETLOCK - GENERAL ANESTHESIA





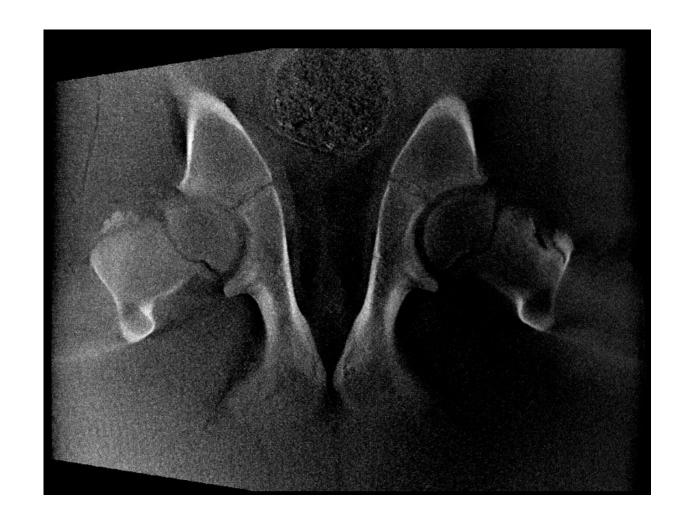
Courtesy of Dr. Lamas

# FETLOCK - GENERAL ANESTHESIA



Courtesy of Dr. Lamas

# HIP - UNDER GA



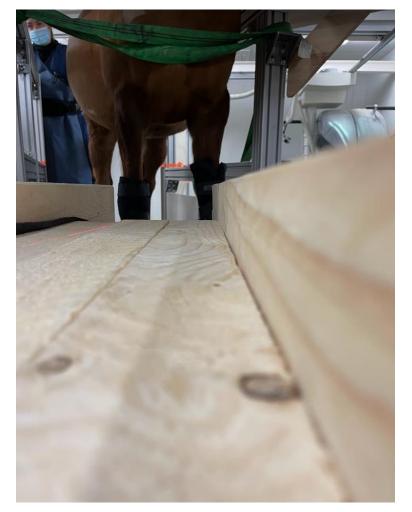
## PEGASO EVOLUTION

#### LIMBS IN THE STANDING HORSE







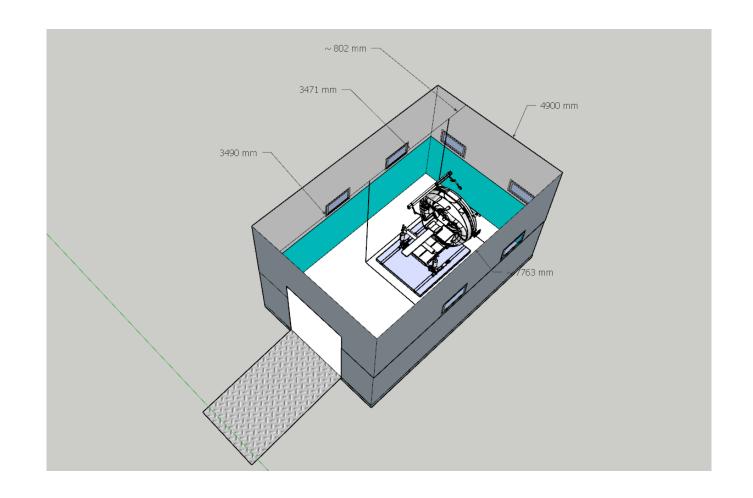




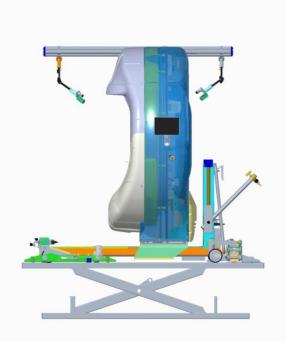


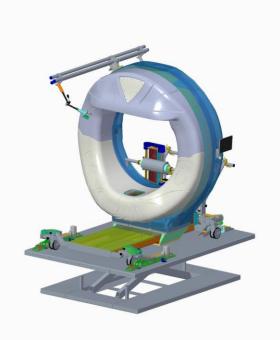


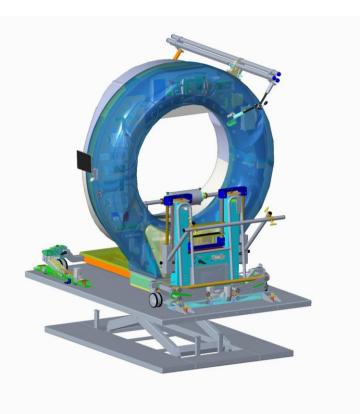
#### THE STANDING HORSE - BUIDING FOR LIMBS



## THE STANDING HORSE - LIFTING PLATFORM FOR PEGASO







PEGASO EVOLUTION PACKAGE



## **PEGASO EVOLUTION - THE SMART MACHINE**

# The **PEGASO EVOLUTION HDVI** technology is **A SMART CHOICE**:

- less cost of installation
- less cost of electricity
- less cost of maintenance

- Used both in DIAGNOSTIC and SURGERY
- Combines CT + FL
- Safer for staff and patients: less radiation
- → with THE SAME IMAGE DIAGNOSTIC QUALITY AT A HIGHER RESOLUTION.

#### PRODUCED SPECIFICALY FOR VET



## PEGASO EVOLUTION PACKAGE



- ✓ Pegaso imaging Scanner Unit
- ✓ Pegaso Workstation Console
- ✓ Ct and Fluoroscopy
- ✓ Patient support table (translucent, carbon fiber)
- ✓ Dedicated cushions' support
- ✓ Camera system for motion correction
- ✓ Lifter system
- ✓ Handswitch and footswitch
- ✓ On-Site Training and follow-up for 3 months
- ✓ First year Warranty (12 months) full coverage
- ✓ Possible Extended Warranty, Service and Support: annual options to fit your long-term needs



#### PEGASO EVOLUTION

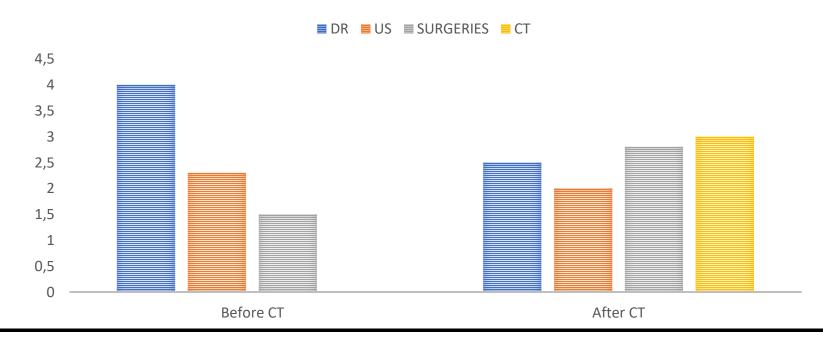
# ECONOMIC CASE AND GROWING PRACTICE REVENUE



#### How does this imaging platform deliver Value to you and your practice?

- Used in diagnostic, pre-surgery, intra surgical, follow-up procedure.
- Many radiographs and ultrasounds becomes CTs. DR + US → CT
- Surgeries procedures increase

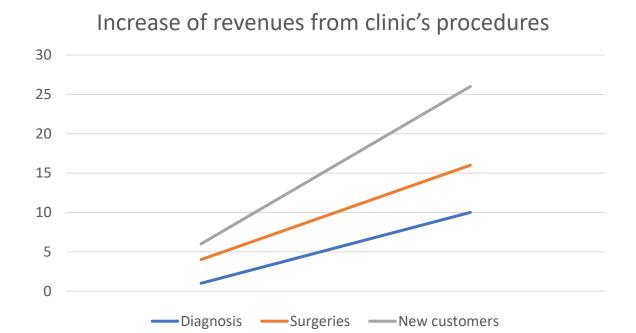
#### CT PURCHASE: DAILY WORKFLOW CHANGES



#### How does this imaging platform deliver Value to you and your practice?

PRIMARY IMAGING solution for your practice:

- ✓ Clinical diagnosis
- ✓ Gives intra-procedural options
- ✓ Understanding drives owner confidence and trust: customers increase





#### PROUDLY INSTALLED IN









SeaWorld ABU DHABI















# PEGASO EVOLUTION



