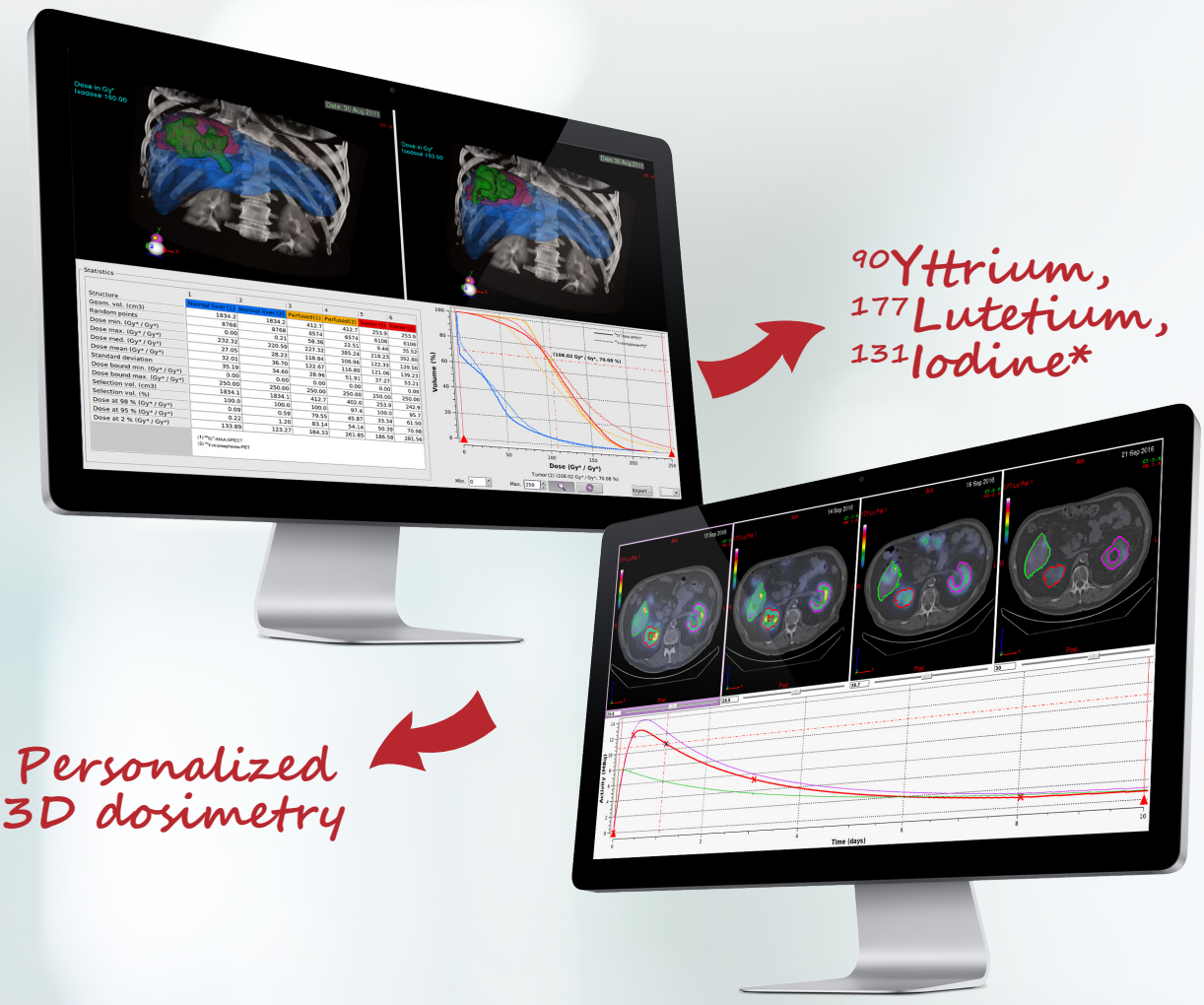
PLANET® Dose

Dosimetry Software for Molecular Radiotherapy



Predictive dosimetry

In vivo dosimetry control

Advanced dose distribution analysis

Consolidation and comparison

Integrated reporting

Time-saving
User-friendly
Vendor-neutral

Dose Onco Neuro

PLANET® by DOSIsoft

^{90}Yttrium-microspheres

Pre-implantation dosimetry based on $^{99}Tc^{m}$-MAA-SPECT exam

-

Liver-lung shunt assessment

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Post-implantation dosimetry based on ^{90}Y-microspheres-PET (or SPECT Bremsstrahlung) exam

^{177}Lutetium-^{131}Iodine

Multi-time points elastic registration

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Automatic deformable propagation of VOI across times

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Residence time calculation

-

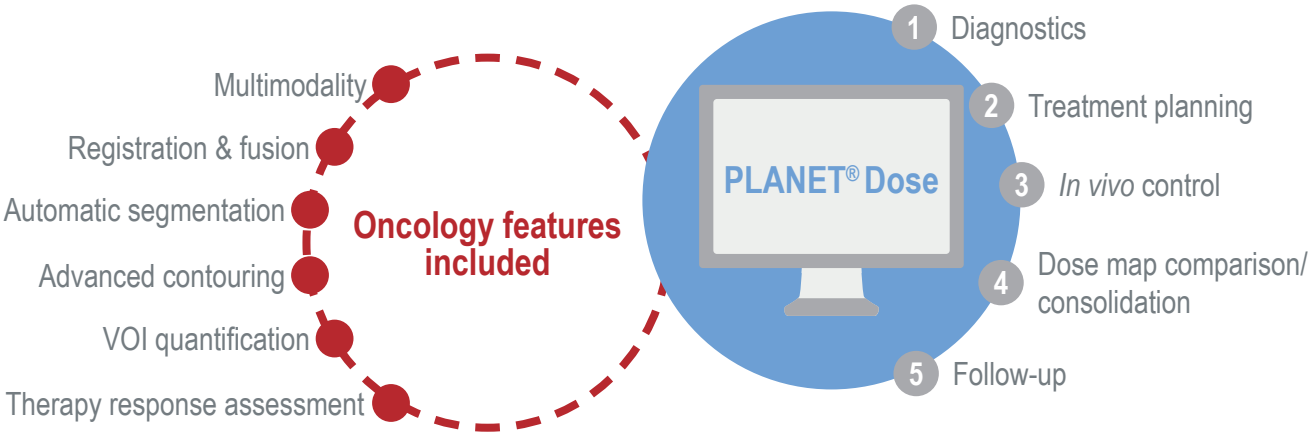
Dose computation based on voxel-level analysis

Voxel S-Values dose kernel convolution algorithm/Local Deposition Method

Dosimetry comparison: treatment planning vs. *in vivo* control

Consolidation of multi-treatment stages

How does PLANET® Dose personalize your patient therapy?



PLANET® Dose is developed by DOSIsoft SA in France and CE marked.
Technical data is subject to change without notice.
Depicted product images and specifications may differ from the actual scope of delivery.
* Clinical validation ongoing, not yet for clinical use
PLANETDose_BR_AIRO2020

DOSIsoft
www.dosisoft.com

PLANET® Dose for personalized SIRT dosimetry

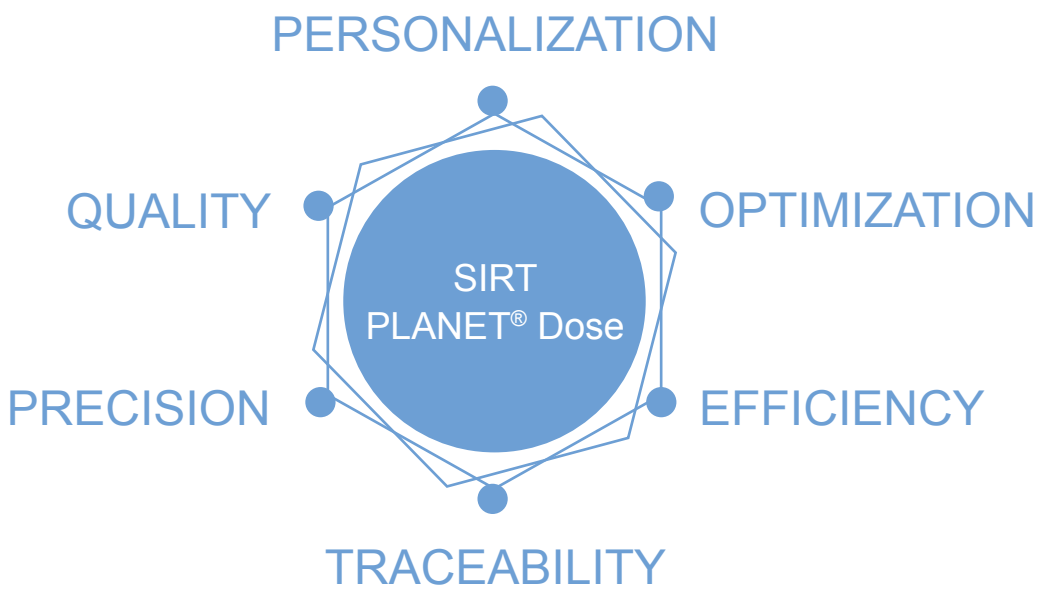
Shaping the individual dosimetry for each patient

Personalized dosimetry-based treatment planning in SIRT holds great promises to improve therapy management for patients & healthcare professionals.

PLANET® Dose helps to optimize ^{90}Y-microsphere therapy in clinical routine. The optimal treatment assessment can now be customized for each patient individually by combining imaging, 3D dosimetry, treatment planning and *in vivo* control into a complete workflow-oriented solution.

It makes it possible to improve patient's safety and increase the confidence of clinical centers.

Key Capabilities



Selective Internal Radiation Therapy
Dosimetry Workflow

Hospital

PLANET® Dose

Diagnostics — CECT | CT | MRI | 3D XA | SPECT | PET

Full multimodality image management

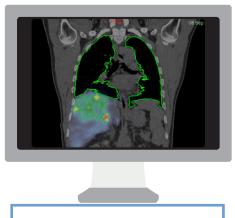
Staff meeting — IR | NM | RT

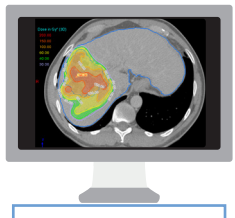
Co-registration
VOI definition
Quantification

Registration, contouring tools

SPECT ^{99m}Tc-MAA

3D approach, Dose to lung





Dose Map Display DVH & quantification tools

Liver-lung shunt assessment

Pre-implantation dosimetry

Treatment planning - Optimization

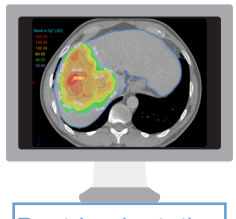
SIRT Order Sheet

Personalized Microspheres Activity

Patient Treatment

PET ^{90}Y-MS

SPECT Bremss-trahlung



Post-implantation dosimetry

In vivo control

Dosimetry comparison

Full patient treatment reporting (DICOM, PDF, raw values)

Patient Follow-up

CECT | CT | MRI | PET

Therapy response (RECIST 1.1/ PERCIST 1.0/ multi-time point quantification)

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PLANETDose_SIRTWorkflow_AIRO2020

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PLANET® Dose Patient-specific Dosimetry
Molecular RadioTherapy Dosimetry

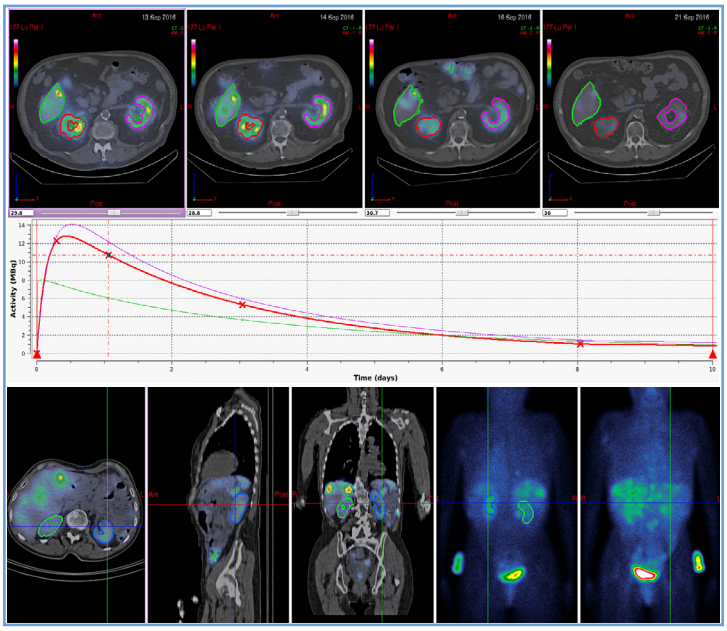
DOSIsoft invites you to discover the adaptation of PLANET® Dose to ^{177}Lutetium & ^{131}Iodine dosimetry for Molecular RT

Dedicated to patient-specific dosimetry, PLANET® Dose is a vendor-neutral and versatile software solution for Molecular RadioTherapy (MRT). Already available for SIRT ^{90}Y-microsphere, PLANET® Dose extends its capabilities to support **^{177}Lu & ^{131}I-based therapies** by offering fully integrated 3D and **hybrid 3D-2D** personalized dosimetry workflows**.**

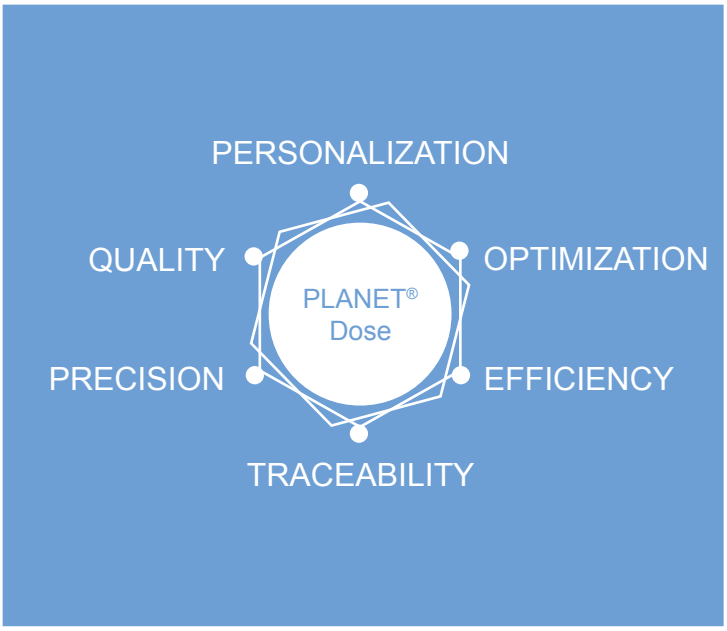
This new adaptation allows the medical team to tailor patient therapy through multi-time points management, rigid or elastic registration, automatic VOI propagation, calculation of residence time and voxel-based dose computation. The medical team can also benefit from the PLANET® oncology features: anatomical/functional segmentation, advanced quantification, texture analysis and therapy response assessment.

Discover PLANET® Dose for ^{177}Lu & ^{131}I-based therapies

3D / hybrid 3D-2D personalized dosimetry



Key capabilities



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