

LANDAUER

The global leader in radiation science and services

Introduction



Vincent MAUGIS,
Director Marketing and Business development

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Summary

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[LANDAUER Laboratories](#)

2

[Dosimetry services](#)

Why LANDAUER & PI Medical

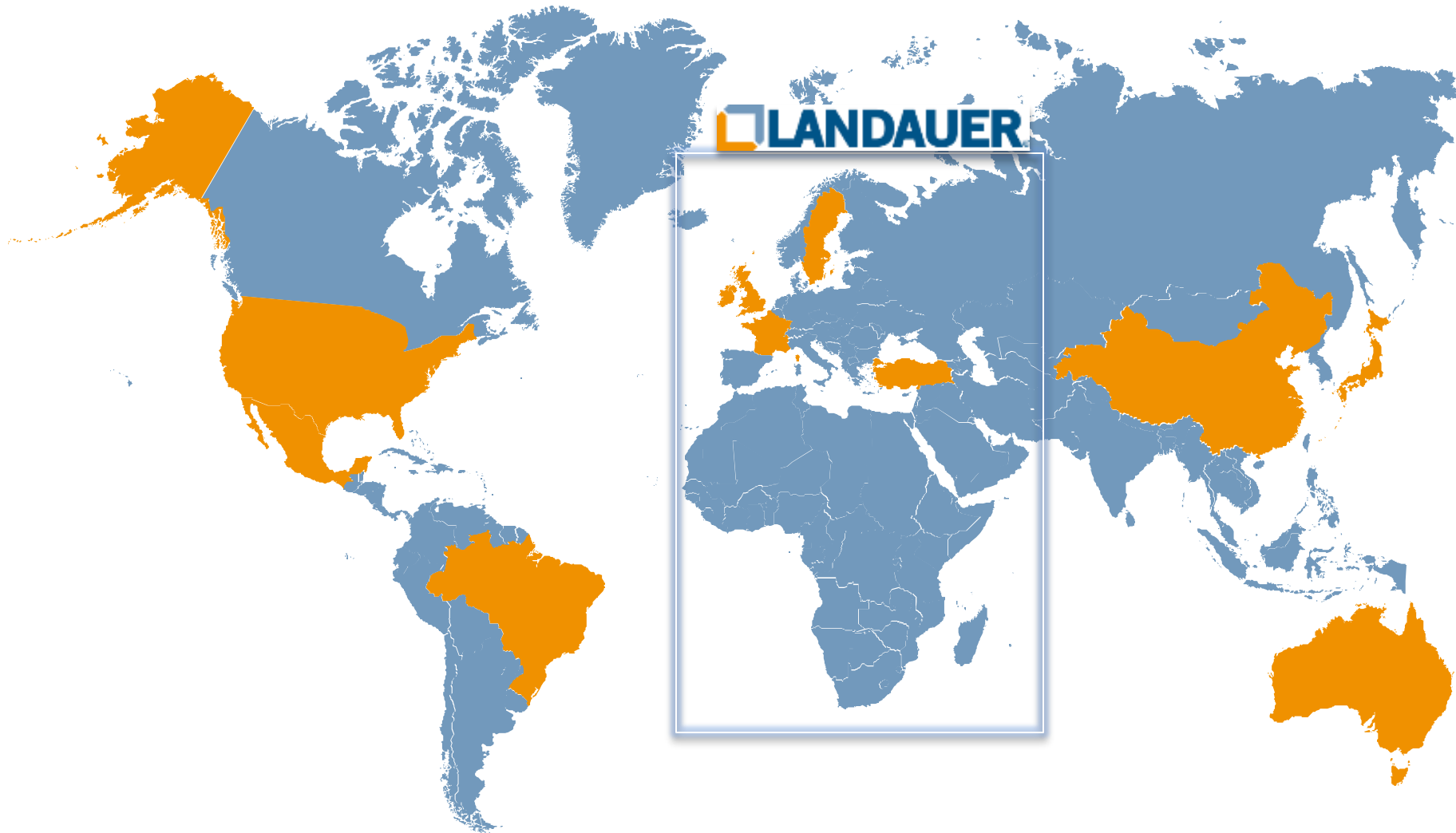


- LANDAUER worldwide experience as service providers (> 2 million exposed workers monitored everyday worldwide, 300 000 in Europe with 10,000 customers)
- **ISO/IEC 17025** accreditation
- LANDAUER's Al_2O_3 OSL technology (high and stable sensitivity, accuracy, reliability)
- **More than 200 dosimetry laboratories in 60 countries using LDR OSL technology**
- **PI Medical** reputation in the Netherland



LANDAUER LABORATORY

Strong global footprint



Strong Global Footprint

LANDAUER®
GLOBAL REACH



- 6 labs on 5 continents
- 10 offices
- Growing OSL crystal
- Netherland:
Distribution by PI
Medical (Sales &
Support)

A team of experts



70

Employees
(metrologists,
physicists ...)



Production and analysis
of the dosimeters near
Paris



**Full range of
dosimeters**
All radiations
All body zone



Technical and
commercial
support team at
your service



**Reporting
and record
keeping**



OSL TECHNOLOGY



OSL advantages

- **X- and gamma rays, beta and neutron radiation** (special OSLN material)
- Aluminum oxide, doped with carbon, $\text{Al}_2\text{O}_3:\text{C}$
- **OSL: designed and produce by Landauer. 30 years of regular improvement to meet new Standards**
- Fully **optical**, no heating
- Dose algorithms meet several accreditation bodies requirement
- **High sensitivity** minimising the stimulation
 - less than 0.5% of the signal is removed for each reading
 - OSL readout process allows for dose verification through reanalysis
 - Allow dose reporting down to 50 μSv
- **Stable sensitivity** over time
- **No re-calibration** required
- **No fading**

Accreditation & approval



ACCREDITATION
N°1-1545
PORTÉE
DISPONIBLE SUR
WWW.COFRAC.FR

COFRAC accreditation

- Cofrac Tests
Accreditation n°1-1545
- ISO 17025 standard



Autoriteit Nucleaire Veiligheid en
Stralingsbescherming



FANC (Belgium)
ANVS (NL)
HSE (UK)
EPA (Ireland)



Sundhedsstyrelsen

Sante.lu

SSM (Sweden)
DSA (Norway)
SIS (Denmark)
MOH (Luxemburg)



Participation in
national and
international
inter-comparisons
(EURADOS & IRSN)

Type tests

Characterization by independent and accredited laboratories



**Photon/beta
dosimetry
according to
EN 62387**



**Neutron
dosimetry
according to
ISO 21909**

DOSIMETRY SERVICES



A customer service close to you



Front office: PI Medical

Back office: Dedicated contact person

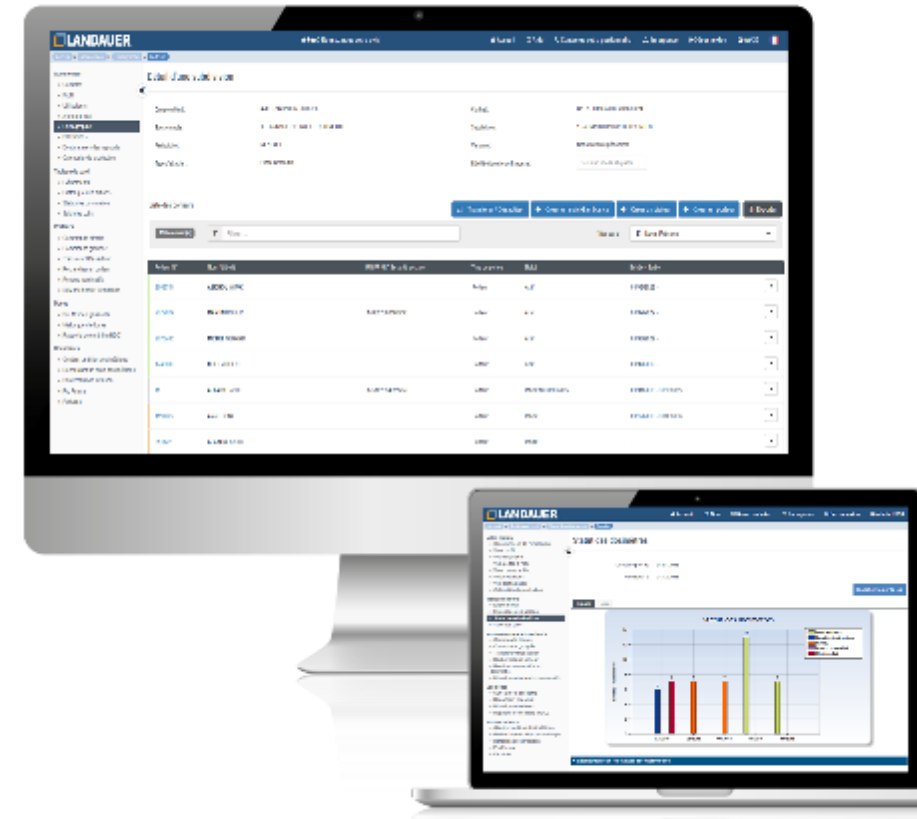


Customer service available
from Monday to Friday
9.00am to 5.00pm

Manage your dosimetry online

- Secure Customer portal
- User-friendly interface
- Email alert (dose available, dose exceeded, non return...)
- Access to doses within 24 hours

Easily and by yourself !



Customer life made simple



Back and forth shipping box

Made from FSC standard cardboard



Visitor Dosimeter

Unnamed dosimeter with on line assignment



Express delivery

Within 24 or 48 hours



Dosimeters sorted

By service
By periodicity



MONORING



IPLUS



**IPLUS
Wrist**



JUPITER



VISION



**IPLUS &
NEUTRAK**

- Dosimeters measuring all types of radiation
- For all wearing location
- Comfortable
- Easy to clean

Dosimeter type and differentiation



Participant



Control



Area



Visitor

**BEDANKT!
ELKE VRAAG?**

