



5G IMAGE INTENSIFIER TUBE

Night Vision Like Never Seen Before

EXOSENS

OUR PURPOSE



We provide **innovative**
amplification, detection and
imaging technology components
for a **safer world**



LEADER IN AMPLIFICATION, DETECTION & IMAGING

4

MAIN VERTICALS



Life sciences



Industrial control



Nuclear



Defense

+85

YEARS OF EXPERIENCE

EXOSENS
REVEAL THE INVISIBLE



+1 800

EMPLOYEES



394 M€

2024
TURNOVER



80

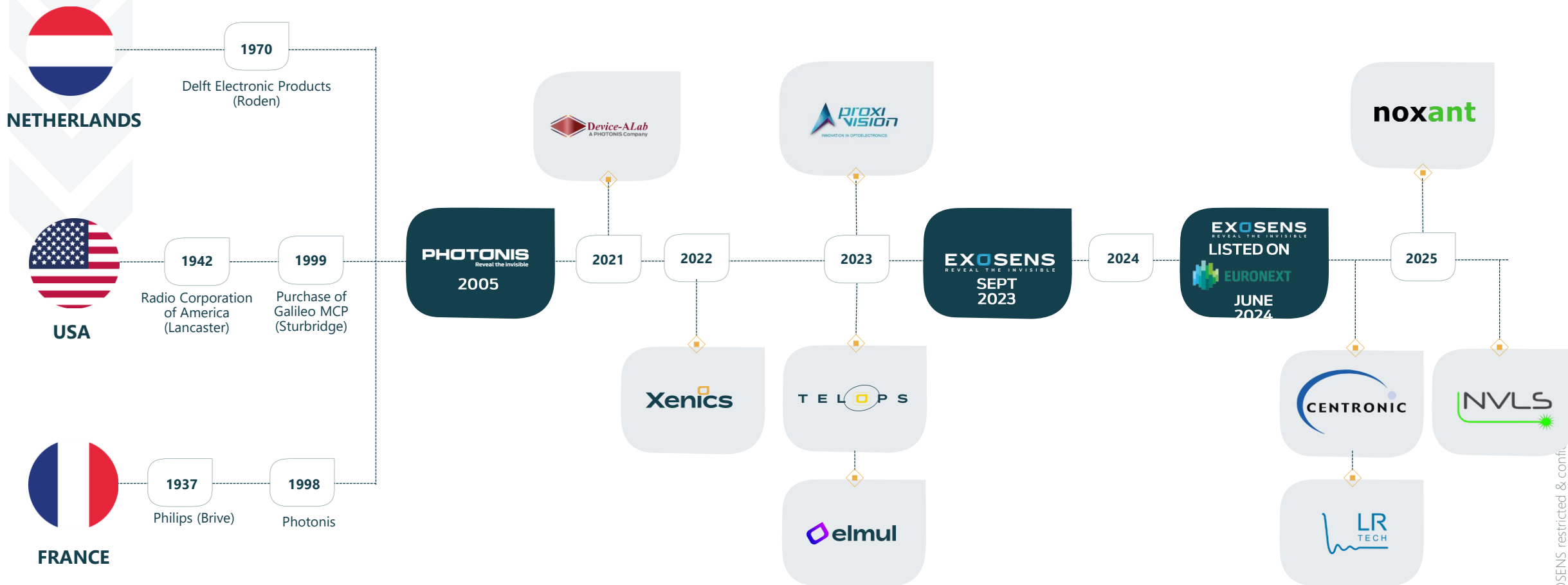
ACTIVE PATENT FAMILIES



+70

COUNTRIES : 97%
REVENUES OUTSIDE
FRANCE

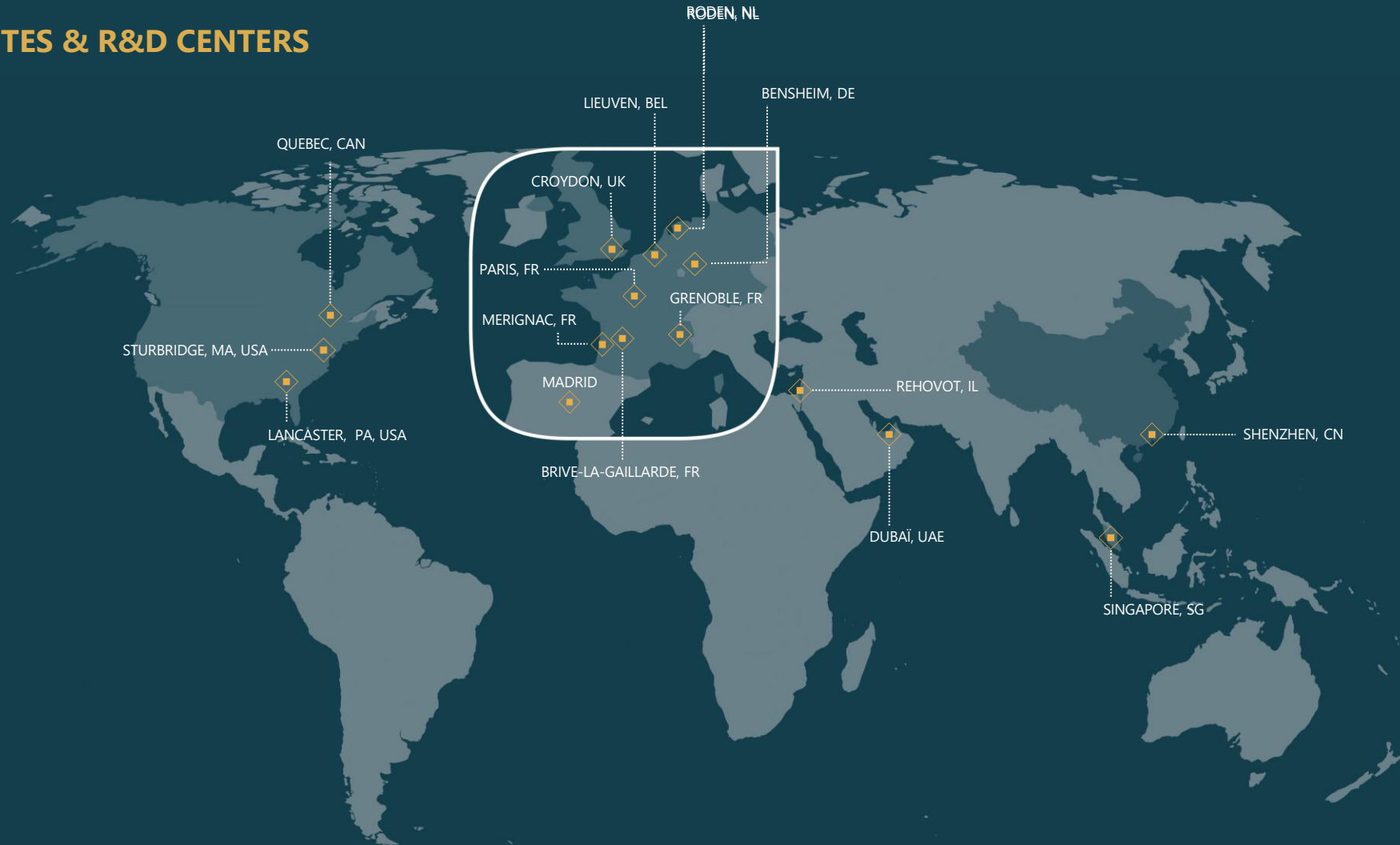
EXOSENS HISTORY



WORLDWIDE PRESENCE

12 PRODUCTION SITES & R&D CENTERS

-  Brive
-  Grenoble
-  Paris
-  Roden
-  Leuven
-  Lancaster
-  Sturbridge
-  Madrid
-  Bensheim
-  Québec
-  Rehovot
-  Singapore
-  Croydon





NIGHT VISION AT PHOTONIS

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PHOTONIS NIGHT VISION

GLOBAL LEADER IN IMAGE INTENSIFIER TUBES



Photonis is the world leader in the design and manufacture of state-of-the-art Image Intensifier Tubes (IIT) for defense and commercial applications



LEADER

Largest manufacturer of IIT
Selected in all European Land Forces programs



DEPLOYED WORLDWIDE

1 300 000 IITs sold so far



A MAJOR INNOVATOR IN NIGHT VISION

Worldwide pioneer in white phosphor & 16mm format



PHOTONIS IMAGE INTENSIFIERS

NIGHT LEVELS

An important parameter of night vision: Night Levels

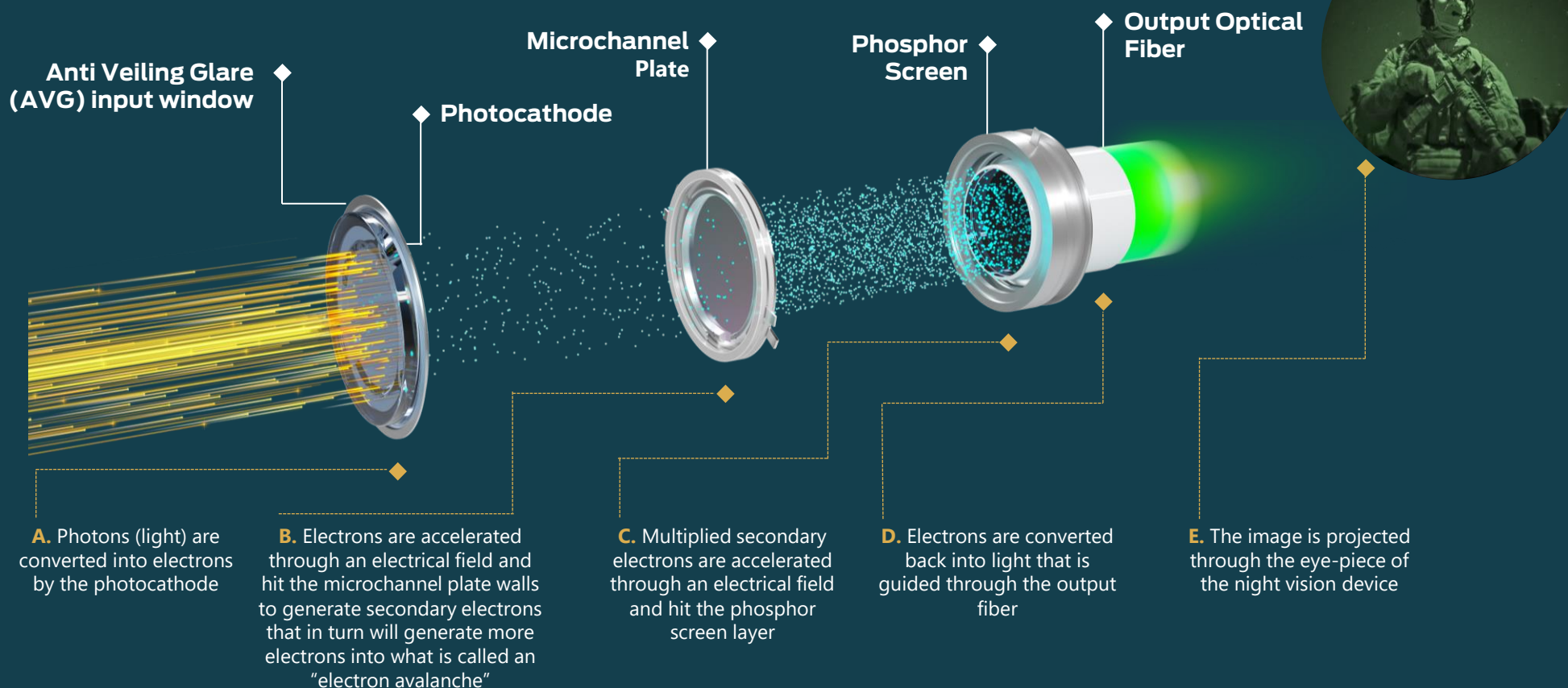
- There are five levels of nighttime: level 1 represents the brightest night (urban areas), while level 5 corresponds to the darkest night (desert)



IMAGE INTENSIFIER TUBE

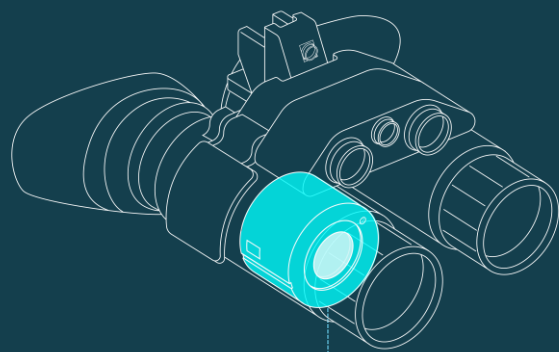
HOW DOES IT WORK ?

- ◆ The IIT transforms darkness into light



PHOTONIS IMAGE INTENSIFIER TUBES

PRODUCT PORTFOLIO FOR DEFENSE



4G

Performanec level:
FOM 1800 (min)



4G+

Performanec level:
FOM 2300 (min)

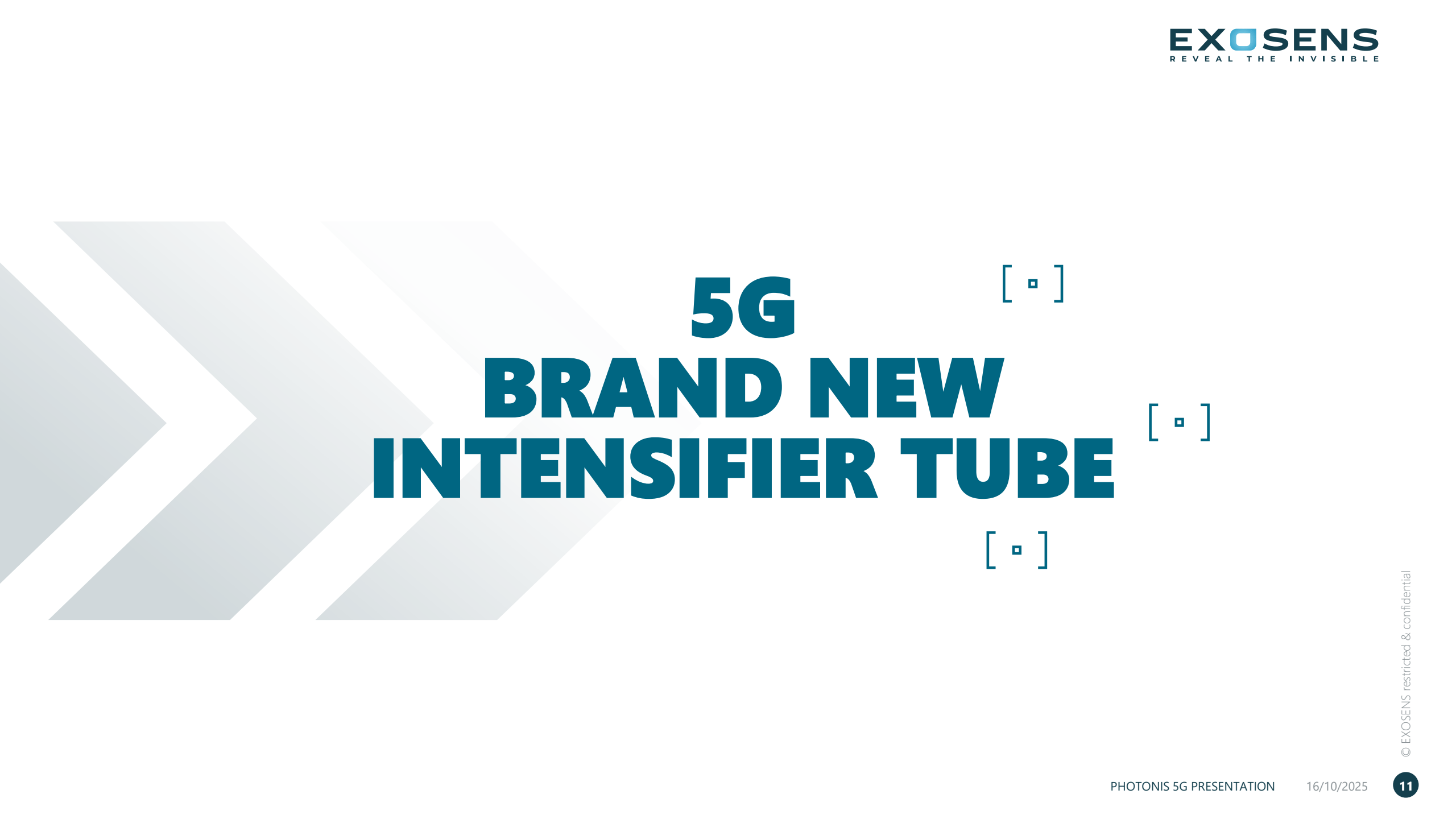


5G

Performanec level:
FOM 2500 (min)



FOM: Figure Of Merit / **SNR:** Signal-to-Noise Ratio



5G BRAND NEW INTENSIFIER TUBE

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WELCOME TO 5G

5G

NIGHT VISION LIKE NEVER SEEN BEFORE

EXOSENS
REVEAL THE INVISIBLE

Official commercial launch
DSEI London, September 9, 2025

- Powered by years of innovation at Photonis, the **5G** Image Intensifier Tube (IIT) sets a new benchmark in cutting-edge night vision technology
- The **5G** is **the highest-performing** IIT, delivering unmatched performance in the darkest nights, pushing the limits of night vision and offering images like never seen before



UNPRECEDENTED IMAGE, OFFERING **+30% OVERALL PERFORMANCE (FOM)** COMPARED TO CURRENT STANDARD INTENSIFIER TUBES



ALREADY ADOPTED BY **SPECIAL FORCES**, GIVING THEM GREATER **CONFIDENCE** IN THEATRES OF OPERATION



PHOTONIS' COMMITMENT: **ONE SOLDIER, ONE GOGGLE**

PHOTONIS 5G

USERS' BENEFITS

Next-level performance for outstanding image sharpness



SEE BETTER, BE SAFER

THANKS TO A VERY SHARP IMAGE

Enhanced overall performance providing the most impressive image ever seen, ensuring comfort throughout the entire nighttime operation



SEE CLEARER

THANKS TO A VERY HIGH GAIN

Double gain settings bringing more light in the darkest environments



SEE FURTHER

THANKS TO SIGNIFICANTLY IMPROVED OVERALL CHARACTERISTICS

Extended DRI ranges at all night levels enabled by significantly enhanced gain, contrast and resolution



SEE WIDER

THANKS TO ENHANCED PERFORMANCE OF WIDER FIELD-OF-VIEW DEVICES

Perfectly suited for large FoV devices > 50° (+72% of image surface vs 40° FoV)

*DRI: Detection Recognition & Identification

Tested & approved by Special Forces:

"5G gives me more confidence when I need to identify the incoming threat. That is very important to me!"

"With standard tubes, I can see but cannot be so sure, while with 5G I can see farther and be more sure to detect."

and OEMs:

"The new high gain, with high resolution and a fine noise structure, gave the best overall performance we have seen yet."

"At low light levels we were able to achieve the highest possible performance!"

5G

IN A NUTSHELL



- The **ultimate performance** in night vision
- Unprecedented image, offering **+30% overall performance (FOM)** compared to current standard tubes
- A considerable improvement in DRI between up **35%** thanks to increased gain, contrast and resolution
- Already adopted by European **Special Forces**, giving them greater **confidence** in theatres of operation
- The future standard of night vision for **all operational forces**



« **ONE SOLDIER, ONE GOGGLE** »

ABOUT PHOTONIS

KEY FACTS



STATE-OF-THE-ART

Highest quality of image intensifier tubes for a wide range of night vision devices



EXPERT IN NIGHT VISION

For more than 85 years



ITAR FREE

Image intensifier tubes made in European Union



GLOBAL COMPANY

Night vision sales representatives all over the world

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