

TAKING  
A FRESH LOOK AT  
**COUNTERFEITING IN  
PHARMA &  
MEDICAL DEVICES:**  
FROM ROOT CAUSES TO  
CURRENT SOLUTIONS



# SPEAKERS



**Mark Davison**  
CEO, BlueSphere Health



**Dr Marie-Lyn Hecht**  
Principal at Strategy& PwC



**Yann Ischi**  
Director New Channels & Partnerships  
Product & Brand Protection at SICPA



**Steve Duckworth**  
Head of Global Segment Medical &  
Pharma at Clariant

## WHO DEFINITION

- **“Substandard”** medical products (also called “out specification”) are authorised by national regulatory authorities, but fail to meet either national or international quality standards or specifications – or in some cases, both.
- **“Falsified”** medical products deliberately or fraudulently misrepresent their identity, composition or source.



1 OF 10 MEDICINES ARE **FAKES**

Source: <http://www.who.int/mediacentre/news/releases/2017/dementia-immunization-refugees/en/>

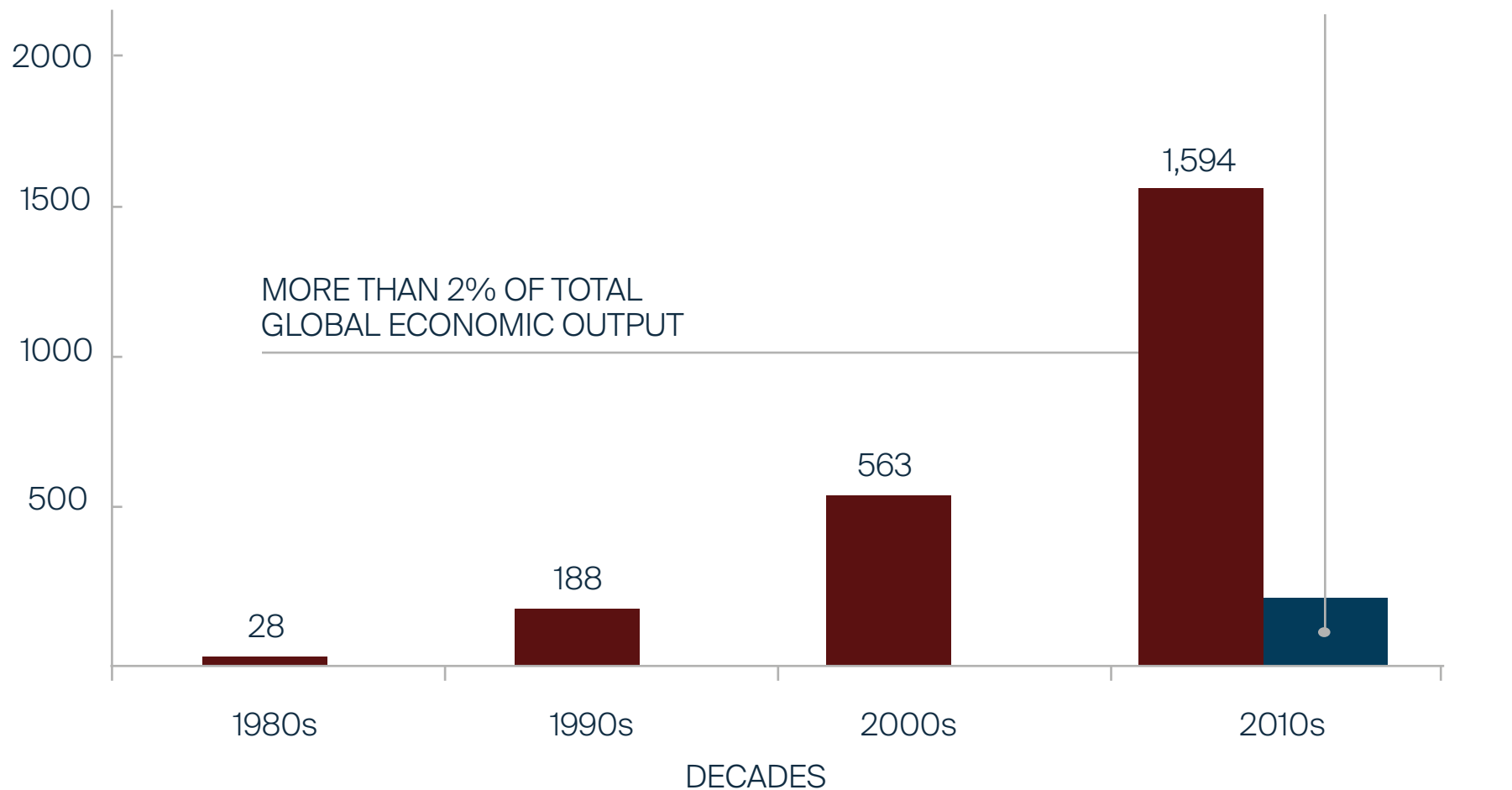
The background of the entire image is a repeating pattern of light blue line-art icons. These icons represent various medical supplies, including syringes, vials, and ampoules, arranged in a grid-like fashion.

# 6 - 8% OF MEDICAL DEVICES ARE **FAKES**

Source: <http://www.who.int/mediacentre/news/releases/2017/dementia-immunization-refugees/en/>

# COST OF COUNTERFEITED GOODS (EUR X BILLION)

VALUE OF COUNTERFEIT  
GOODS (EUR X BILLION)



Source: Strategy& PwC, "Fighting counterfeit pharmaceuticals: New defences for an underestimated – and growing – menace", 2017

# ROOT CAUSES

## COUNTERFEITING IN PHARMACEUTICALS & MEDICAL DEVICES

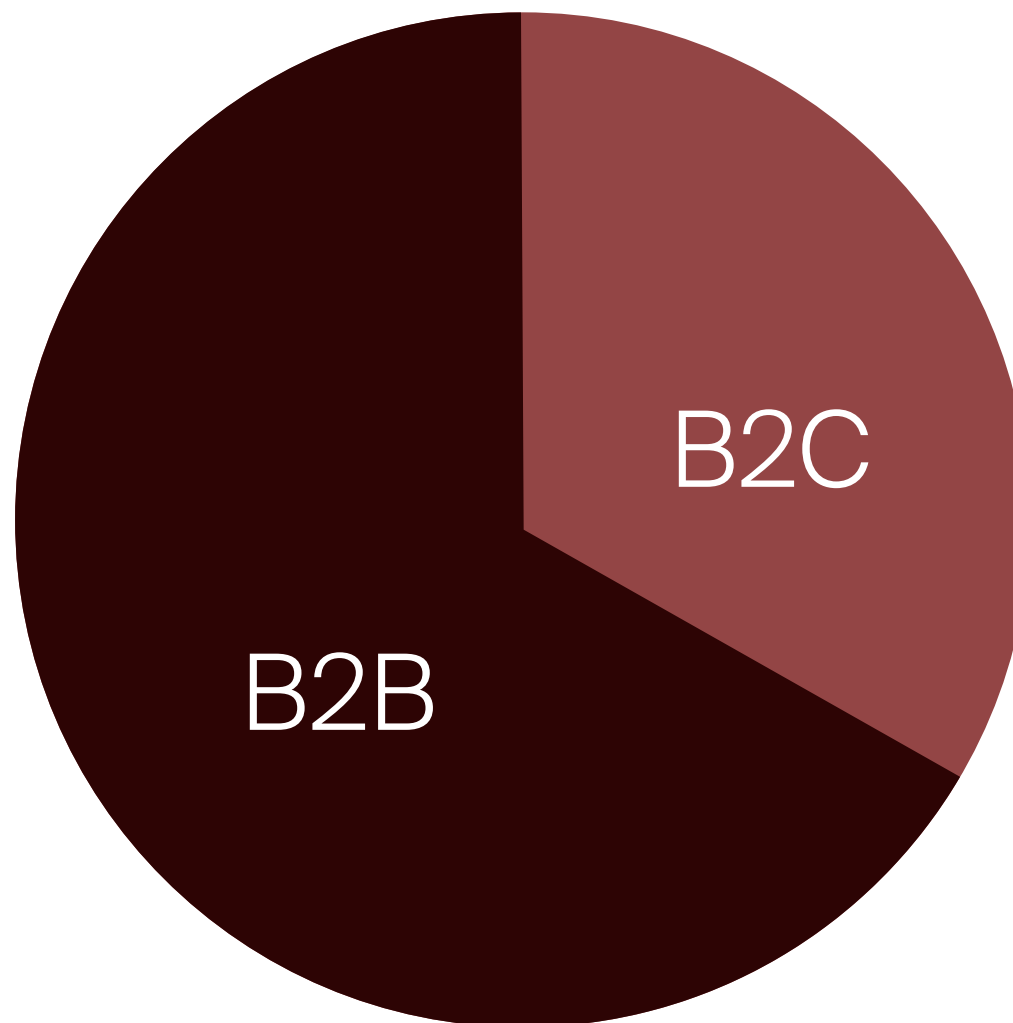
- SIGNIFICANT PROGRESS IN CONTRIBUTING TO HUMAN HEALTH = BUSINESS SUCCESS
- BUSINESS SUCCESS ATTRACTS INVESTORS AND COUNTERFEITERS
- COUNTERFEITING TAKES SHORTCUT TO FINANCIAL GAINS VIA PARALLEL PRODUCT LIFE CYCLE

# EST. E-COMMERCE SALES IN 2020

USD 6.7  
trillion in  
B2B

USD 3.2  
trillion in  
B2C

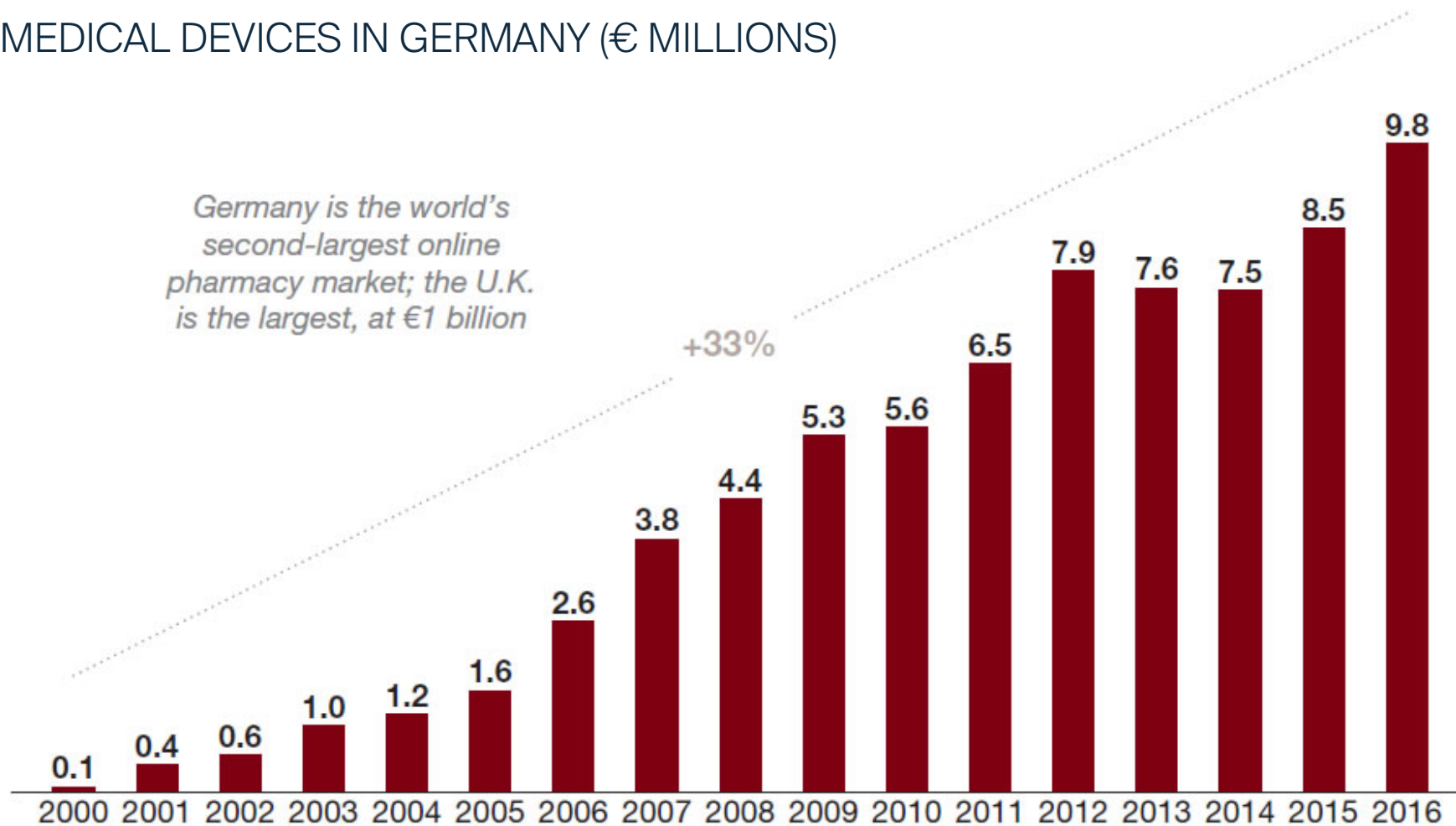
TOTAL:  
**USD 10 TRILLION**





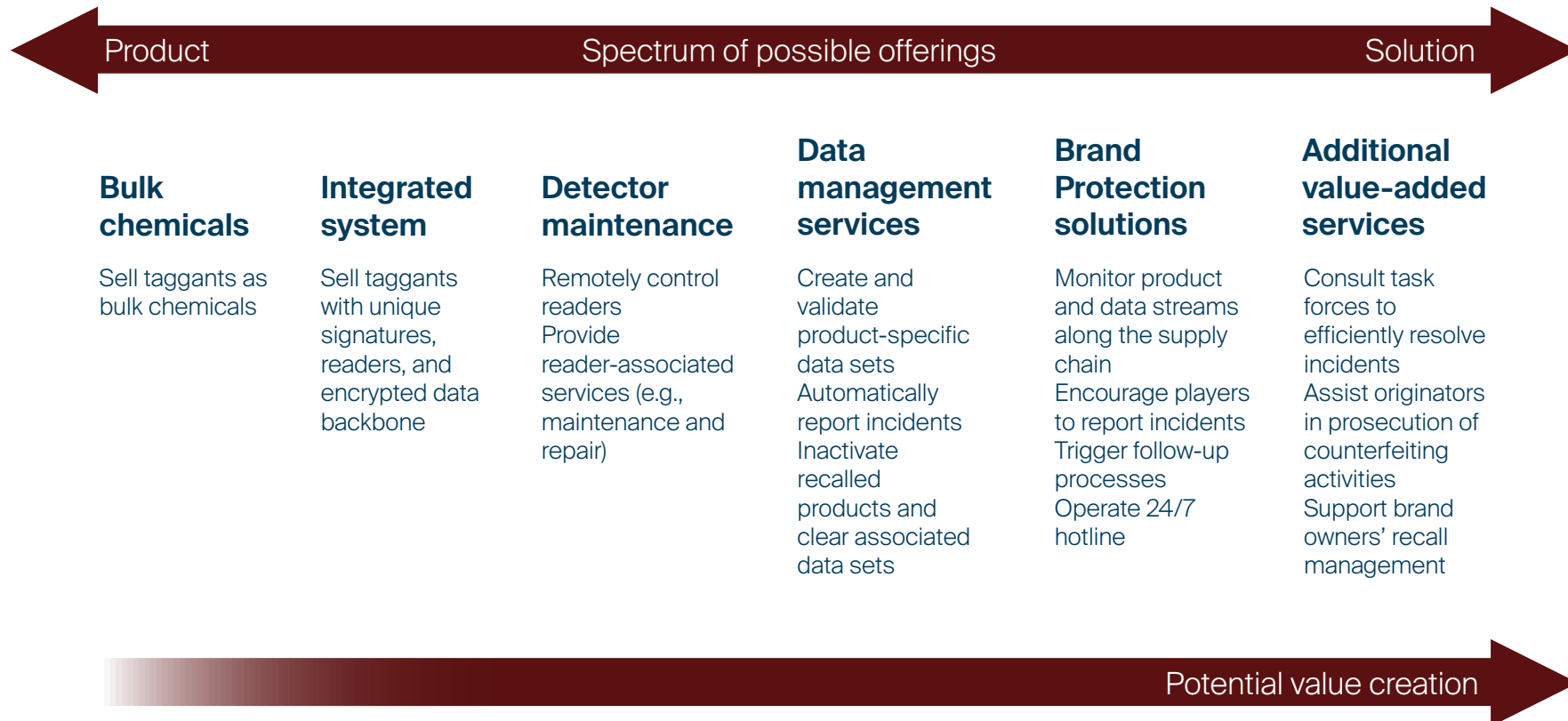
# ONLINE PURCHASES

## PHARMA & MEDICAL DEVICES IN GERMANY (€ MILLIONS)



# NEXT GENERATION

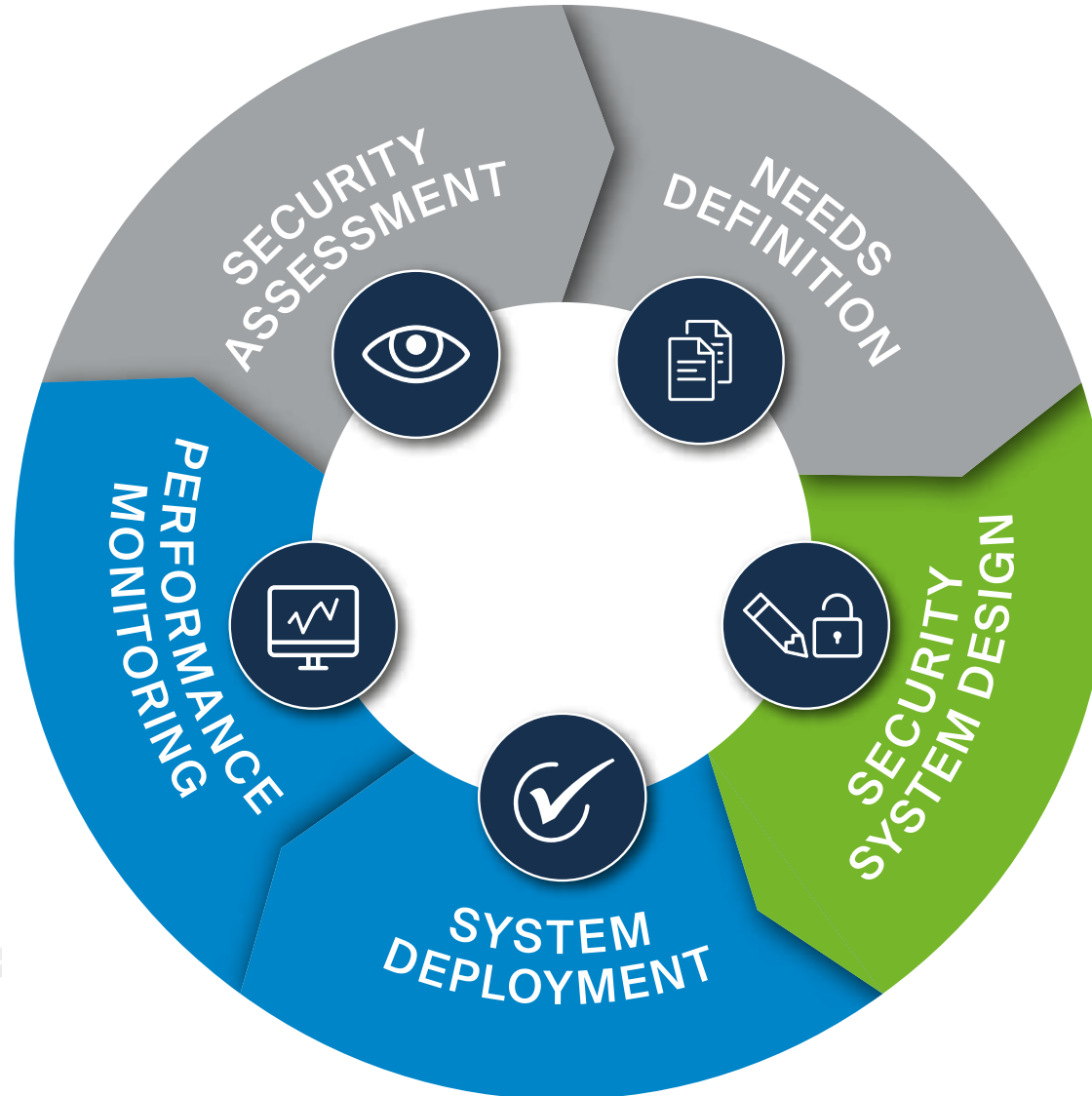
## EXTERNAL PROVIDERS' OFFERINGS ARISING FROM NEXT GENERATION ANTI-COUNTERFEITING TECHNOLOGIES



Source: Strategy& PwC, "Fighting counterfeit pharmaceuticals: New defences for an underestimated – and growing – menace", 2017

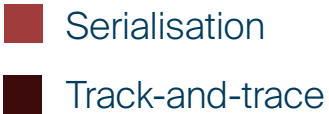


# END-TO-END RISK MANAGEMENT PROCESS



# PHARMA SERIALISATION

# MASS SERIALISATION AND TRACK-AND-TRACE AROUND THE WORLD

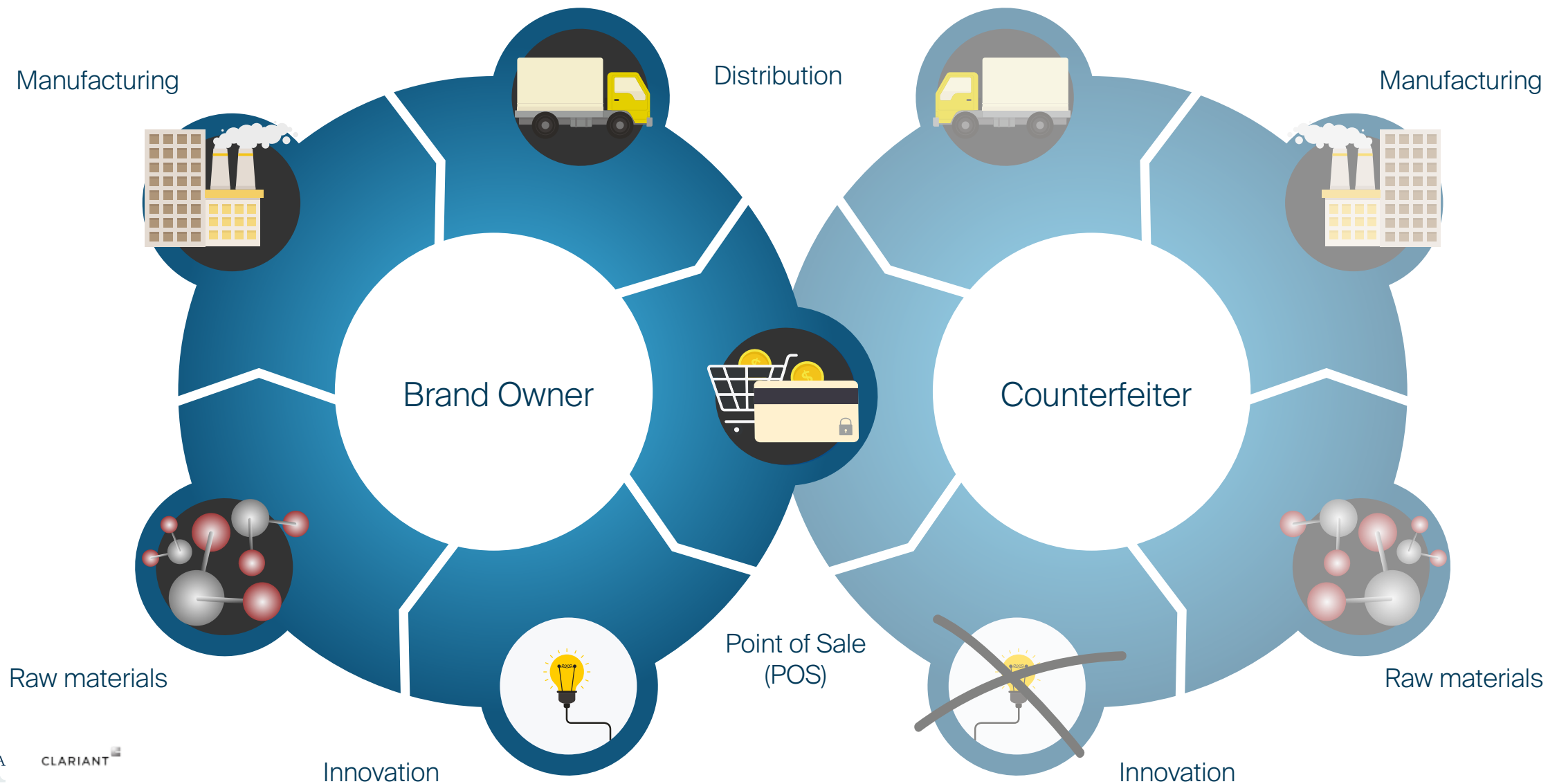


Source: Strategy& PwC, "Fighting counterfeit pharmaceuticals: New defences for an underestimated – and growing – menace", 2017

# DEFINITIONS

- **SERIALISATION** ASSIGNS A UNIQUE NUMBER TO A PRODUCTION UNIT SUCH THAT IT CAN BE IDENTIFIED LATER
- **TRACK AND TRACE** IMPLIES THE ABILITY TO KNOW WHERE A PRODUCT WENT (TRACK) AND WHERE IT CAME FROM (TRACE)
- **AUTHENTICATION** ANSWERS THE QUESTION: “IS THIS PRODUCT GENUINE?”

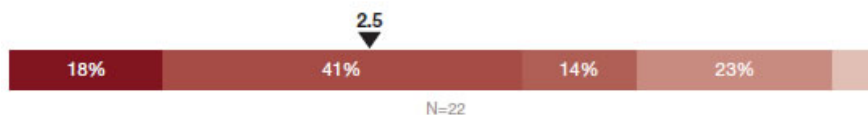
# PRODUCT LIFE CYCLE & PARALLEL LIFE CYCLE



# STRATEGY& PWC SURVEY

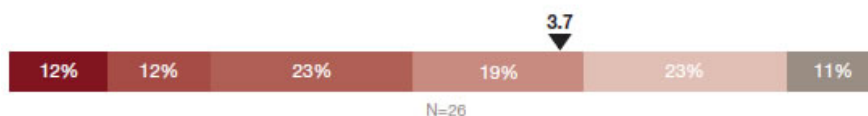
How satisfied are you with your company's current approach to ensure supply chain integrity?

On a scale of 1 (highly satisfied) to 6 (highly dissatisfied)



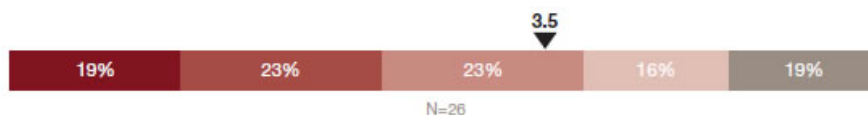
How would you quantify the need for more secure technologies to monitor supply chain integrity and fight counterfeiting?

On a scale of 1 (no need) to 6 (high unmet need)



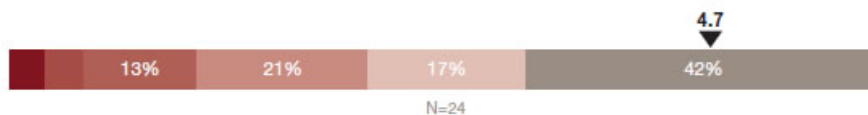
Do you agree with the following statement: "A future track-and-trace technology should go beyond the package level and focus on the blister or even pill level"?

On a scale of 1 (strongly disagree) to 6 (strongly agree)



Do you agree with the following statement: "A future anti-counterfeiting solution needs to offer additional capabilities like provision of lot data and monitoring of trade flows beyond pure brand protection"?

On a scale of 1 (strongly disagree) to 6 (strongly agree)



Source: Strategy& PwC, "Fighting counterfeit pharmaceuticals: New defences for an underestimated – and growing – menace", 2017

# ROBUST ANTI-COUNTERFEITING SYSTEMS

## COMBINING MATERIAL & DIGITAL TECHNOLOGIES FOR:

- MULTILAYER BRAND PROTECTION
- SWIFT COUNTERMEASURES
- REAL-TIME MONITORING PERFORMANCE TRACKING





## SUMMARY OF KEY POINTS

- **RISK-MANAGEMENT APPROACH:**  
FOR A HOLISTIC VIEW OF YOUR VALUE CHAIN
- **ANTI-COUNTERFEITING TECHNOLOGY:**  
HARDER TO FAKE YOUR PRODUCT & EASIER TO SPOT A FAKE
- **AUTHENTICATION:**  
A COMPLEMENT TO SERIALISATION

**PLASTIWARD™**

RE-THINKING  
**IN-PLASTIC PROTECTION**  
FOR PLASTIC MEDICAL  
DEVICES AND  
PHARMACEUTICAL  
PACKAGING

7 December 2017

14:30 CET (Berlin) / 08:30 EDT (New York)

Registration details to follow from MPN





Clariant at CPhI Worldwide

**InnoPack Zone, Booth 42L20**

24 - 26 October 2017

Frankfurt/Main, Germany

Clariant with SICPA at CPhI

Presentation at

**“Pharma Insight Briefing”**

24 October 2017 at 13:10

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