

MEDILIGHT - a miniaturized smart system for light stimulation and monitoring of wound healing

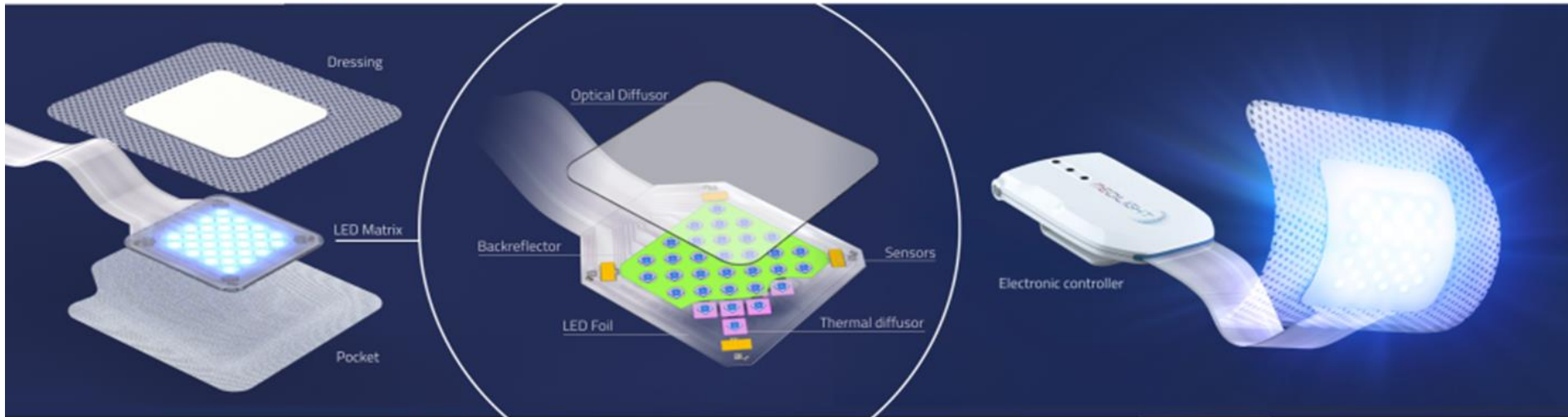
MNBS – iMNC 2017

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AMIREs



AMIREs



Advanced wound care market

Global advanced wound care market = 10 B€

Acute wounds

(Healing time = 20 days)

Chronic wounds*

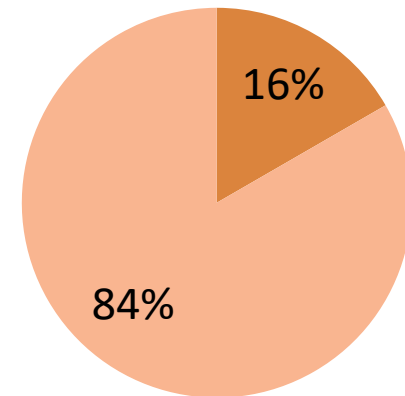
(Healing time = 200 days):

- Pressure Ulcer
- Venous Leg Ulcer
- Diabetic Foot Ulcer



European advanced wound care
Market : 780 M€

■ Risk of infection and infection ■ Non-infected



*Patient burden and high cost for community over 10 B€ per year in Europe

We develop a treatment adapted to each wound



Diabetic foot ulcers (DFU)
MEDILIGHT PRIORITY 1



Venous Leg ulcers (VLU)
MEDILIGHT PRIORITY 2



Not MEDILIGHT priority

Pressure ulcers (PU)

4 healing phases per type of wound

INFECTION

Bacteria

CLEANSING

Macrophages

GRANULATION

Fibroblasts

EPIDERMISATION

Keratinocytes

MEDILIGHT – an all in one breakthrough technology



PURIFY

UrgoTul Ag

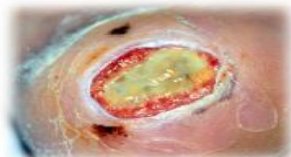
Purifying wounds at risk of infection



CLEAN

UrgoClean

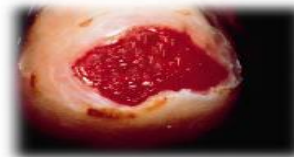
Cleaning sloughy and exudative wounds



ACCELERATE

UrgoStart

Accelerating wound healing



CLOSE

UrgoTul

Optimizing wound healing



Bacteria	Macrophages	Fibroblasts	Keratinocytes
- To limit proliferation - To limit virulence - To limit formation of biofilm	Modulate Macrophage activity (inflammation mediators)	- Proliferation - Dermis synthesis (collagen) - Migration	- Migration - Proliferation - Differentiation



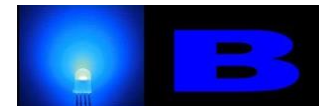
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MEDILIGHT



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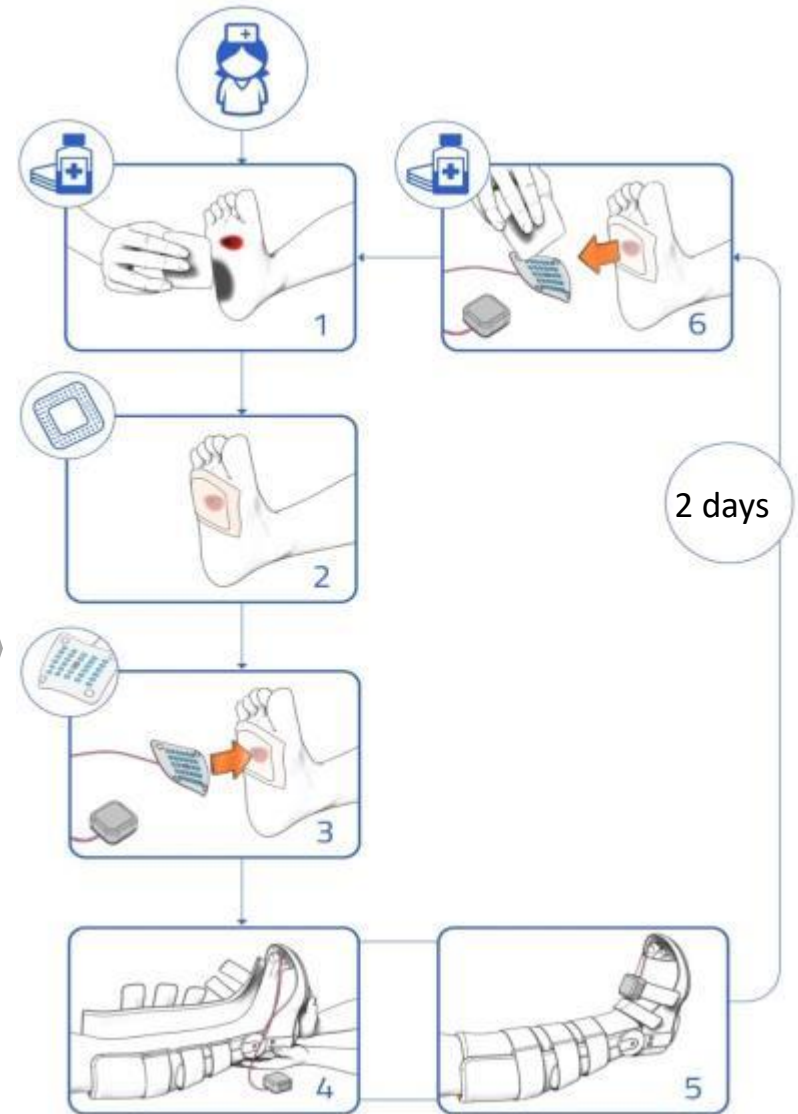
MEDILIGHT



Translate technologies into products: Customer needs

Views of nurses, diabetologists and dermatologists

- An automated system managed solely by nurses and GPs
- No patient active interaction
- Be simple, comfortable, esthetic and discreet
- Be reimbursed



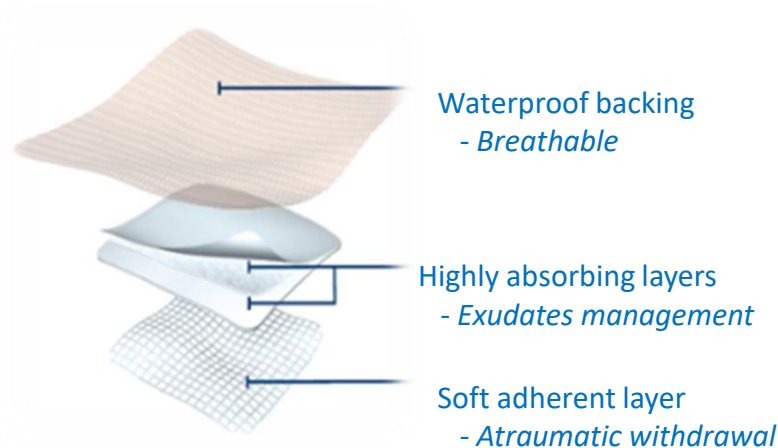
Translate technologies into products: Proof of concept

✓ Treats chronic wounds with blue light

- **Antibacterial**
- **Proliferative**

✓ Management of patient's exudates

✓ Breathability



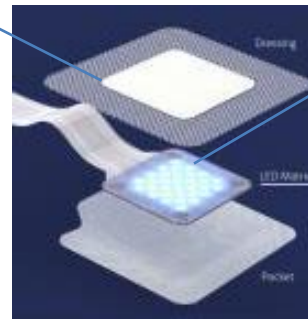
Chemical free

URGO know-how

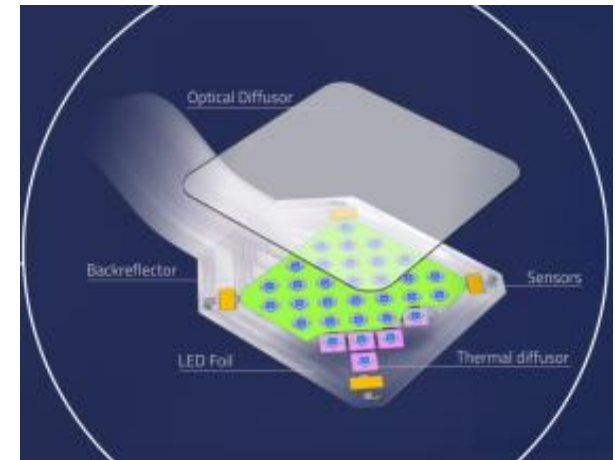
✓ Blood **oxygenation** and **temperature** sensors

✓ Flat, flexible and **homogenous illumination** system

✓ Heat Management (from LEDs)



Patented

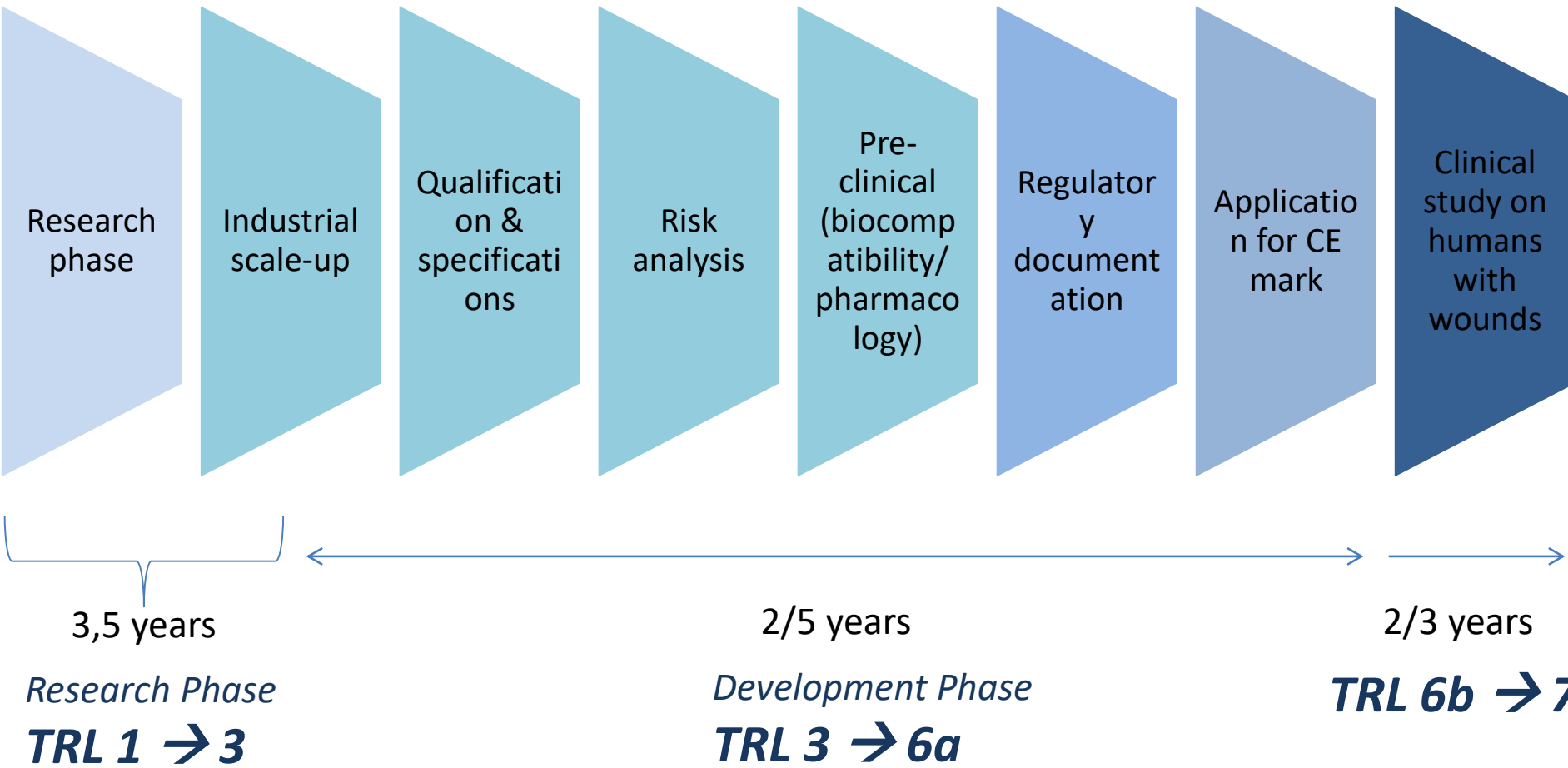


UV FREE

Innovative domain



MEDILIGHT development process



Conclusion: From a concept to a product

A competitive project



VS

A tough market access



✓ All in one and personalized treatment

UV Free

Chemical Free

Data processing

✓ Human cells proliferation

✓ Antibacterial effects

✓ Heat management (from LEDs)

✓ Flexible, flat, homogeneous illumination system

▪ Each State has its own procedure for reimbursement

▪ Prices wars

▪ Twice more standards in Medical Devices

▪ No equivalent products

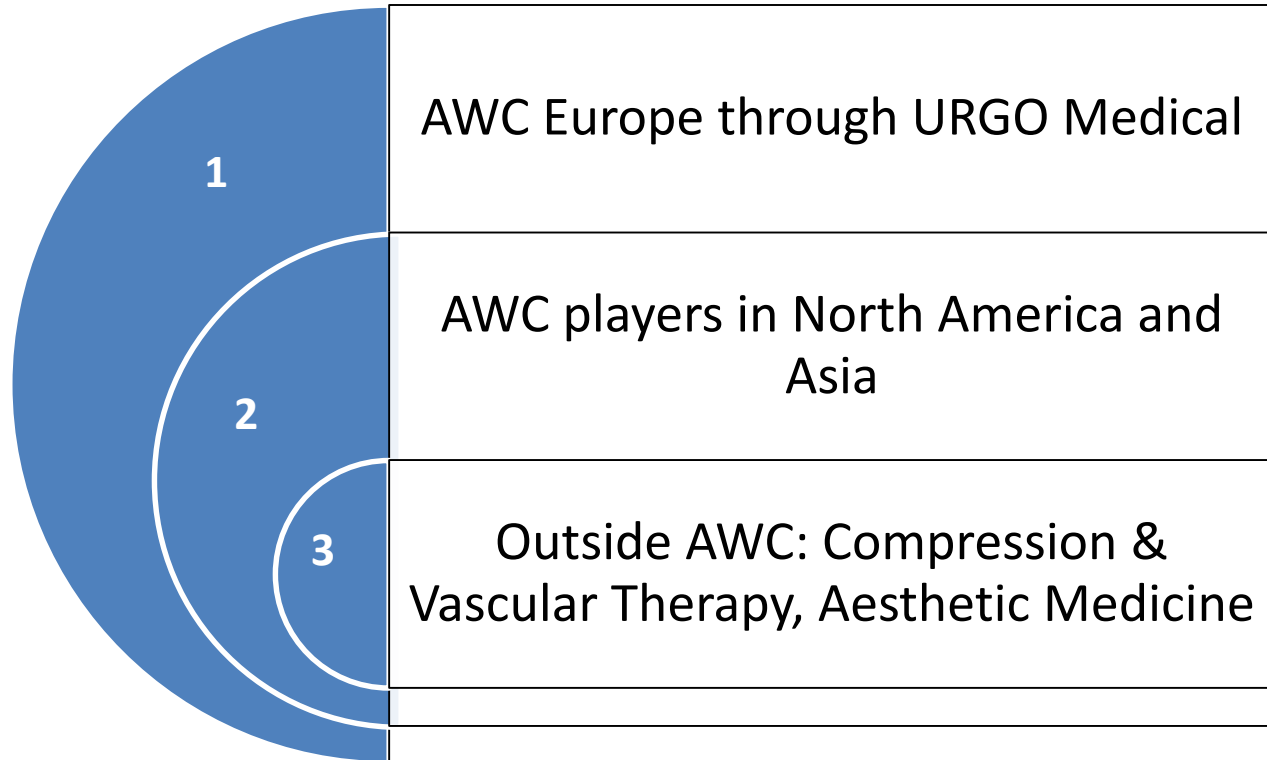
▪ Tough clinical study

▪ A real world usage to be validated



Opening up new perspectives

How could we valorize the results coming from
MEDILIGHT project ?



Good practice

- End-user as a driving force
 - Research
 - Development
 - Management
- Early customer involvement
 - Design
 - Handling
- Strong and efficient project management

Thank you for your attention!

Martina Urbankova

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*Supporting strategically oriented innovations for
business impact*

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