

# **SoftOx Solutions AS**

Norwegian medtech and biotech company listed on Euronext Growth

Presentation Q2 2022 15 August 2022





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## **Presenters**



SoftOx technology development CMO Dr Christopher Burton

Financial update CFO Kristine Rød



## First half-year highlights and SoftOx in brief

4 | 2<sup>nd</sup> quarter results 2022



## First half-year highlights and subsequent events

#### **RESEARCH & DEVELOPMENT**

Completed **SIS-01** in April and the study achieved the primary objective of safety and tolerability in healthy subjects

Completed first phase of **SBE-01** (single ascending dose) and progressed to the last phase (multiple ascending dose) which is expected to finish in Q3

Presented **SWIS-02** study at the 2022 EWMA Conference and the study was published in the peer-reviewed journal *Acta Dermato-Venereologica*<sup>[1]</sup>

Granted approx. NOK 97 million from the European Defence Fund to develop an EU military inhalation solution

#### COMMERCIAL

510(k) application was submitted to FDA to register SWIS as a medical device class II in US

EWMA conference appearance initiated **talks in the wound care sector** with several large market players

#### FINANCE

Q2 result of NOK -20.6 million (LY: NOK -22.2 million)

Entered into a loan agreement of NOK 15 million with Almhaug Bolig AS, where the main shareholder is one of the shareholders in SoftOx



# Reinforcing nature's own ability to eradicate unwanted microbes



A base technology tailored for different indications and uses



# Helping the world fighting infections

#### VIRUS



Respiratory infectious diseases are among the **leading causes of death**<sup>[1]</sup>

#### **BIOFILM RESISTANCE**



**1-2% of the population** are projected to experience a chronic wound during their lifetime in developed countries <sup>[2</sup>

#### **ANTIMICROBIAL RESISTANCE**



AMR is regarded as one of the **biggest threats** to global health <sup>[3]</sup>

#### Our vision is to become a world-leading developer of antimicrobial technology

Forum of International Respiratory Societies (2019). The Global Impact of Respiratory Disease – Second Edition. Sheffleld, European Respiratory Society.
Sen, C.K. et al. (2009) Human Skin Wounds, *Wound Repair Regen*, https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2810192/
IACG (2019). No Time to Wait, WHO. https://www.who.int/antimicrobial-resistance/interagency-coordination-group/IACG\_final\_report\_EN.pdf?ua=1



# **Product development strategy**

# SOFT-OX

**Preclinical Proof** 

of Concept



PARTNERING

PARTNERS

COMMERCIALIZATION

DE-RISKING



Concept development



# **Product pipeline**

	Project	Indication	Pre-clinical	Phase I	Phase II	Pending regulatory approval	Collaborations
BIOCIDE	Disinfection	Surface disinfectant Hand disinfectant					Bispebjerg Hospital UNIVERSITY OF COPENHAGEN
MEDICAL DEVICE	Wound irrigation solution	Wounds					Bispebjerg Hospital UNIVERSITY OF COPENHAGEN
DRUG	Infection treatment	Chronic leg wounds					Bispebjerg Hospital
	Inhalation solution	Respiratory tract infections					EUROPEAN DEFENCE FUND UNIVERSITY OF COPENHAGEN



## **Business segments**



# Wounds

Infection prevention and treatment for acute and chronic wounds



#### Respiratory Infection treatment for viral infections





# Disinfection

Infection prevention solutions for hands and surfaces

# SoftOx technology development

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02



# **Competitive advantage**

**1.** Pan-spectrum antimicrobial (virucidal/bactericidal) effects

2. Not shown to induce antimicrobial resistance

- **3.** Good safety and tolerability profile no systemic side effects
- 4. Versatile technology platform







## Direct and indirect antimicrobial MoA, independent of biological processes and unreliant on a metabolic target or receptor





# Respiratory



15 | 2<sup>nd</sup> quarter results 2022





# 12% of the EU/US population experiences flu-like symptoms annually



A significant unmet need remains as currently available treatment options **do not address the underlying microbial cause or provide limited clinical efficacy** in uncomplicated influenza A



## The majority of influenza-like illness is caused by viruses other than Influenza A/B

Viral causes of Influenza-like illness Multiple geographies (2012-2018)<sup>[1</sup>



- Influenza
- Respiratory Syncytial Virus
- Parainfluenza
- Human Metapneumovirus

- Rhinovirus Or Enterovirus
- Human Coronavirus
- Adenovirus



Viral causes of Influenza-like illness Denmark (2021-2022) [2

- Influenza
- Respiratory Syncitial Virus
- SARS-CoV-2
- Adenovirus

- Rhinovirus Or Enterovirus
- Human Coronavirus (Other)
- Parainfluenza
- Metapneumovirus

1. Cinemre et al. 2016, Fowlkes et al. 2014, Thiberville et al. 2012, Nguyen et al. 2016, Li et al. 2013, Lekana-Douki et al. 2014, Keske et al. 2018, Fu et al. 2015 2. https://www.ssi.dk/sygdomme-beredskab-og-forskning/sygdomsovervaagning/i/influenzaugens-opgoerelse













Data on file. Samples tested against bacterial biofilms grown for 24 hours with one hour contact time afterwards for the different products. \*Acetic acid tested against planktonic bacteria (both *S. aureus* and *P. aeruginosa*, grown for one hour) with 15 minutes of contact time. \*\* Competitor (Niclosamid 0,05-0,30µg/ml) only tested against *S. aureus* biofilm.

Data on file ..



# SIS-01: Randomized, placebo controlled, first in human trial in healthy volunteers



Subjects (N=56) will be enrolled and randomised to receive SIS or placebo in a 3:1 ratio (42 will receive SIS; 14 will receive placebo).

#### **Inclusion Criteria:**

- Healthy adults between 18-55 years of age,
- Body Mass Index (BMI) of ≥ 18.5 and ≤ 29.9 kg/m<sup>2</sup>

#### **Exclusion Criteria:**

- Recent participation in another clinical trial or blood donation
- Medical condition or a history of drug hypersensitivity
- Using concomitant medication
- Positive drugs of abuse test

Single dose of nebulised SIS @ 25 ppm/placebo

Single dose of nebulised SIS @ 50 ppm/placebo

Single dose of 5 mL nebulised SIS @ 100 ppm/placebo

5 mL nebulised SIS @ x ppm/placebo q24h for 5 days #

5 mL nebulised SIS @ y ppm/placebo q24h for 5 days #

BID dosing of nebulised SIS @ y ppm/placebo for 4 days + morning dose on Day 5

QID dosing of nebulised SIS @ y ppm/placebo for 4 days + morning dose on Day 5

#### **Primary Endpoints**

- Nature, occurrence, and severity of adverse events (AEs).
- Change from baseline, in forced expiratory volume in 1 second (FEV<sub>1</sub>)
- Change from baseline, in oxygen saturation measured by pulse oximetry
- 4. Change from baseline, in local tolerability

<sup>#</sup>The dose to be administered in the multiple dose groups will depend on the results obtained in the single dose groups and will be decided by the SMC. The dose tested in the first multiple dose group will be the second highest well-tolerated single dose or lower.



## **SIS-01: Results & Conclusions**



SIS at concentrations of up to 100 ppm (100 ug/ml) administered four times daily via a nebuliser over 15 minutes was **safe and well tolerated**, in this study population of healthy volunteers.

- Mild, self-limiting AEs related/unrelated to drug administration
- Acceptable local tolerability
- No effect on spirometry
- No effect on vital signs
- No effect on safety laboratory values
- No effect on ECG

At all dose levels Regardless of dosing frequency











# Wound care

22 | 2<sup>nd</sup> quarter results 2022





# 40-70% of venous leg ulcers are colonized by multiple (~5 to 6) bacterial species<sup>1</sup> at variable distance to the wound surface<sup>2</sup>



1. Gødsbøl et al, Copenhagen Wound Healing Center; 2. Fazli et al. J Clin Microbiol 2009 Dec;47(12):4084-9.



2. Representative CLSM images of S. aureus (A and B), P. aeruginosa (C and D). Arrows point to the wound surfaces.  $^2$ 





# In vitro antibacterial efficacy in biofilms

#### Anti-biofilm efficacy against P. aeruginosa biofilm



□ Low ■ Medium ■ High ■ Saline control

Anti-biofilm efficacy against S. aureus biofilm



□Low ■Medium ■High ■Saline control

Data on file.







#### n.s.- not significant, \* p < 0.05, \*\* p < 0.001, † compared to sterile saline

SWIS-02 study, NCT04771819, Effect of Stabilized Hypochlorous Acid on Re-epithelialization and Bacterial Bioburden in Acute Wounds: A Randomized Controlled Trial in Healthy Volunteers. Burian et al. Acta Derm Venereol 2022. DOI: 10.2340/actadv.v102.1624

Wound



### **SBE clinical studies (phase 1a & 1b) in chronic wounds:** Blinded, randomized safety study of single & multiple ascending dose

Wound





# **SBE Positioning:** First line treatment of locally infected wounds (i.e. no evidence of systemic infection)





Figure. The typical evolution of a superficial wound infection.

27 | 2<sup>nd</sup> quarter results 2022

# Commercial and military development

03



# **Unmet need in wound care**

#### ACUTE WOUNDS

Wound

# 40 million1–2%Chronic wounds worldwide!1I-2%of population are projected to have a<br/>chronic wound in developed countries!2Target US patient population (2018)2,323,804Prevention of infections (costs) / patient-\$643

CHRONIC WOUNDS

Estimated **\$1.5 billion potential cost savings** in prevention of infections in VLUs <sup>[3</sup>

Improving today's chronic wound treatment with more effective removal of infections protected by biofilm

 MedMarket Diligence (2011). Wound prevalence and wound management: 2012-2020
Sen, C.K. et al. (2009) Human Skin Wounds, Wound Repair Regen, <u>https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2810192/</u>
MedValue & Radboud University (2019). Decision Modeling Assessment.

180 million

Individuals have skin wounds worldwide each year<sup>[1</sup>

Today's wound rinse market is dominated by saline



Replacing today's wound rinse products with a better or equal risk profile and profound antimicrobial effect





# **European Defence funds military inhalation solution**

Granted approx. NOK 97 million to develop a military medical countermeasure for the EU and allies

• Supported by the Norwegian Ministry of Defence (FD) joint financing

International consortium involving:

- **20** R&D and industry partners
- 10 countries
- 3 technologies

Led by the Commissariat a l'Energie Atomique et aux Energies Alternatives (France)

Status: Grant agreement negotiation phase - expected signing by end of 2022



"The project "European agile network for medical COUNTER measures Against CBRN Threats" (COUNTERACT) aims to establish a robust and agile network within the EU to be **capable to develop and deploy medical countermeasures (MCMs) against major Chemical-Biological-Radiological and Nuclear (CBRN)** threats such as terror plots, nuclear accidents, weapon developments and epidemics caused by emerging or re-emerging high-consequence pathogens. COUNTERACT will increase EU preparedness for immediate response to such threats."<sup>[1</sup>



# The main objective for European Defence Fund (EDF)

- Identifying technologies critical for EU security and defence, boosting them through European (RTD&I) programs<sup>[1</sup>
- Foster transborder cooperation in defence research and development in the EU<sup>[2</sup>
- The Defence package strives to complement the European Defence Fund by integrating all relevant phases from <sup>[2</sup>
  - » research and development
  - » complete industrial cycle
  - » joint procurement of defence assets



# EU Action plan on synergies between civil, defence and space industries

- **Spin-offs:** Promoting that EU funding for research and development, including on defence and space, has economic and technological dividends for EU citizens
- Spin-ins: Facilitating the use of civil industry research achievements and civil-driven innovations in European defence cooperation projects
- Synergies: EU Multinational Financial Framework 2021-2027 (MFF) significantly scales up investments in technologies for defence or related civilian use



# Expected value as a preventative preparedness tool for soldiers and the civilian population

#### **Estimated Unmet Need**

- 10-20 pcs for each soldier
- 3.5 million soldiers (NATO & EU)
- 2 million soldiers (partner countries)
- Stockpiling for 15-20% of civilian population



The company estimates that this cooperation can double the potential sale of SoftOx inhalation solutions

# Financial update

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# **Financial highlights**

Profit and loss statement Accounts for Q2 and FY 2021

SoftOx Solutions Group					
NOK 1,000	Q1 2022	Q2 2022	Q2 2021	Change	FY 2021
Operating revenue	50	53	703		1 752
Grants	999	1 297	1 895		6 150
Total operating revenues	1 049	1 350	2 599	-48%	7 901
Personnel expenses	6 538	5 448	3 615	51%	21 113
Other operating expenses	17 795	15 154	19 479		69 107
Depreciation	906	918	710		3 784
Total operating expenses	25 238	21 520	23 805	-10%	94 004
Operating result	-24 189	-20 171	-21 205	-5%	-86 102
Net financial items	-87	-396	-68		-189
Net result before taxes	-24 276	-20 566	-21 273	-3%	-86 291
Тах					20 888
Net result after tax					-65 403

#### **Operating revenue**

Low operating income due to low sales

#### **Operating expenses**

 R&D expenses accounted for approx. 60% of operating expenses year to date 2022.



# **Financial highlights**

Cash flow statement	Q1 2022	Q2 2022	Q2 2021	FY 2021
SoftOx Solutions Group NOK 1,000				
Cash flow from operating activities	-21 141	-25 603	-22 820	-72 561
Net result before taxes	-24 276	-20 566	-21 273	-86 291
Depreciation	906	918	710	3 784
Change in current assets	865	-10 067	-802	3 061
Change in current liabilities	1 364	4 112	-1 456	6 886
Cash flow from investment activities	-847	-1,314	-1 038	-4 596
Investments in non-current assets	-847	-1,314	-1 038	-4 596
Cash flow from financing activities	-809	146	-10	99 339
Proceeds from equity issues	0	0	0	89 018
Other financing activities	-350	0	0	10 355
Translation differences	-460	146	-10	-34
Net change in cash and cash equivalents	-22 797	-26 770	-23 866	22 182
Cash and cash equivalents at end of period	34 187	7 414	31 131	56 984

# Net change in cash and cash equivalents

- Strong focus on the product development and commercialisation processes while managing cash situation carefully
- Entered into a loan agreement of NOK 15 million in June. Accounted as receivables

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15

# Summary



# Multiple opportunities for development of products based on SoftOx technology



SoftOx will remain as a development company and is seeking strong commercial partners



# **Expected news flow 2022**

#### Wound care

- Talks with major distributors and partners
- GMP production line
- Achieve a 510(k) clearance for the US market
- Complete phase 1 of SBE
- Initiation of phase 2

#### Respiratory

- Initiation of phase 2 will be aligned with EDF process
- Financial and strategic partner
- Entering into a contractual phase to prepare for pan-European research activity

#### Disinfection

- Partner discussions EU and RoW
- Regulatory approval





# Key takeaways



Solid progress on the projects targeting large global markets



Highly skilled team 12 PhDs & 3 professors/researchers



ingredients Well known & well tolerated by human body



#### Strong platform

with great potential for many products/segments



58 granted patents Strong patent family protecting IP



Co-funded development

with the US Naval Medical Research Center and European Defence Fund



**Collaboration** with world-leading scientists



Significant unmet needs & potential to reduce healthcare costs

# SOFTOX

New ways of eradicating infections and fighting antimicrobial resistance

#### **Contact Information:**

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