

June 2021

# Liposphere – where Biolubrication starts



**Liposphere**  
*Revolutionizing biolubrication.*

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# Introducing our platform technology

We address the unmet need to develop biomaterials, which reduce friction and wear efficiently within and/or interacting with the body.

Relevant for mechanically stressed environments

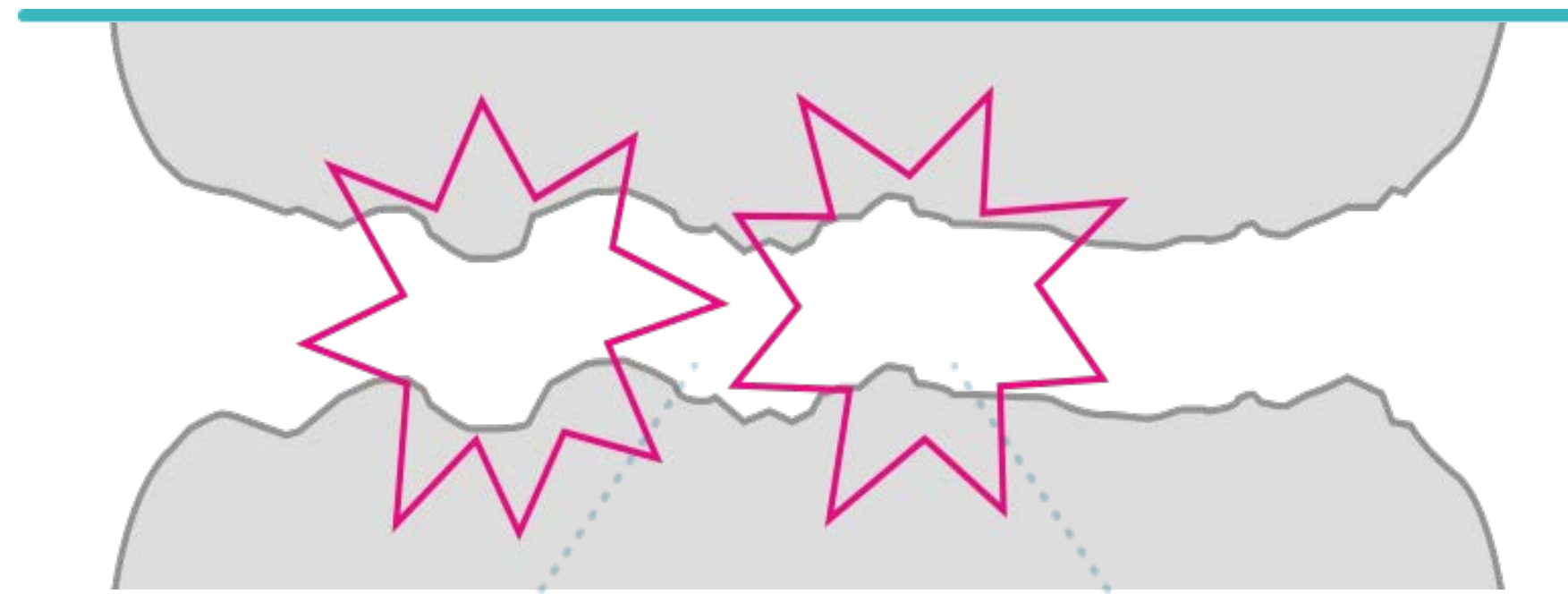


## AqueousTech



Liposphere holds the exclusive IP license covering 7 patents to commercialize **AqueousTech**.

**✘ The Problem:**  
*Unprotected Sliding Cartilage Surfaces*



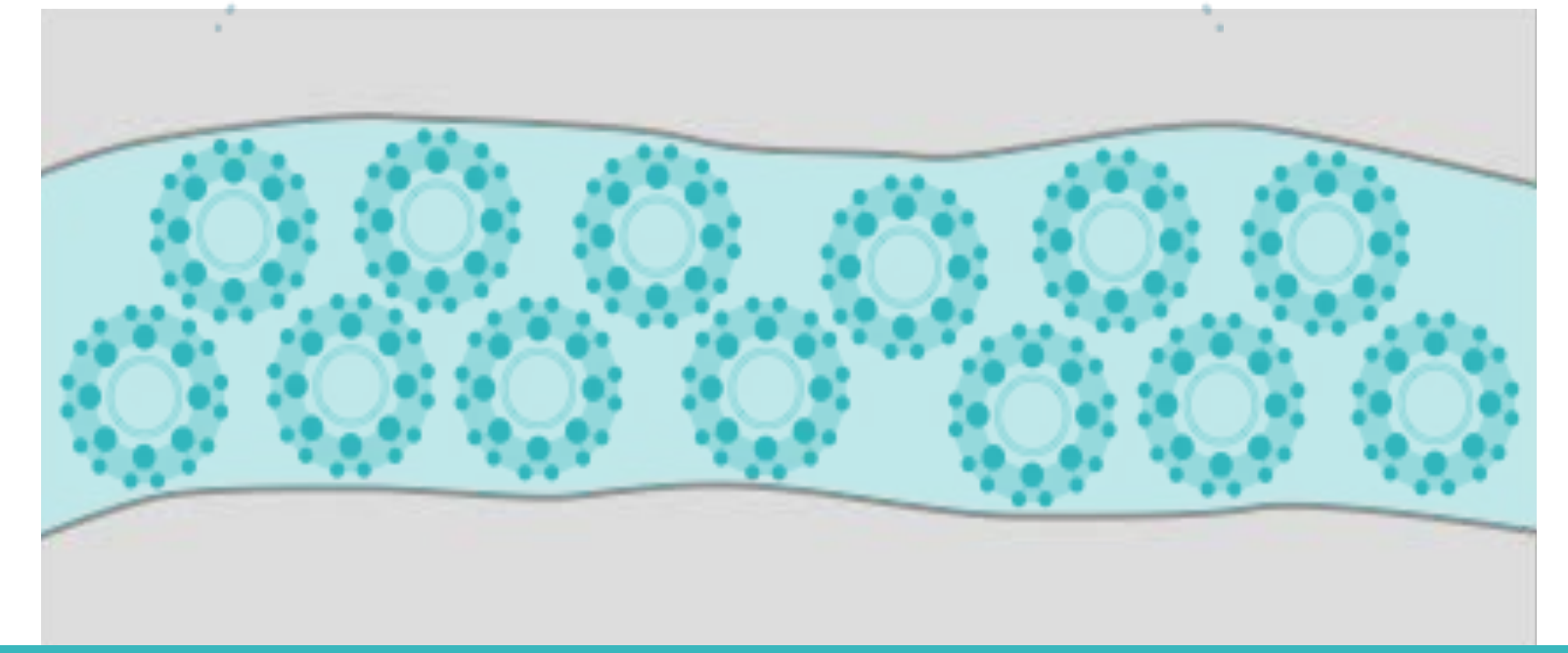
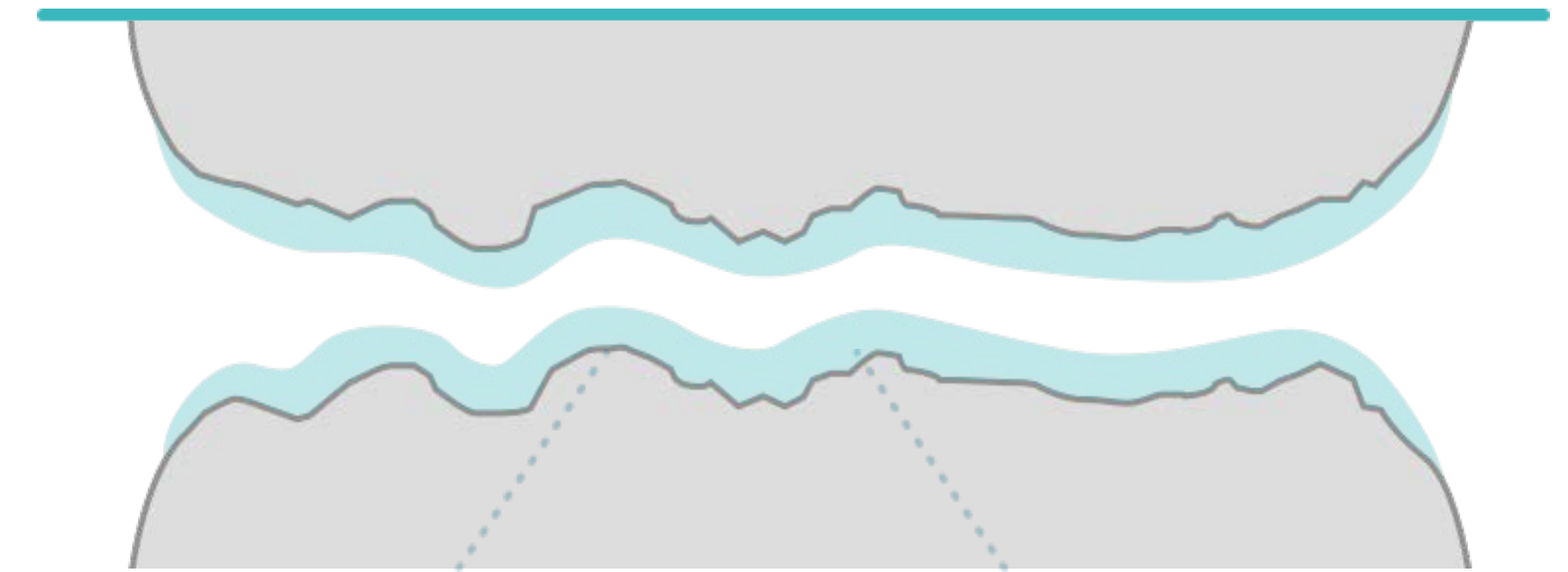
> 600M people globally  
suffer from Osteoarthritis.



*Asperities in contact lead to wear!*

***Pain for the patient!***

**✔ The Solution:**  
*Protected by local injection **AqueousJoint***



***No/reduced wear!***  
***Reducing pain by protecting cartilage!***  
***Delaying surgery!***

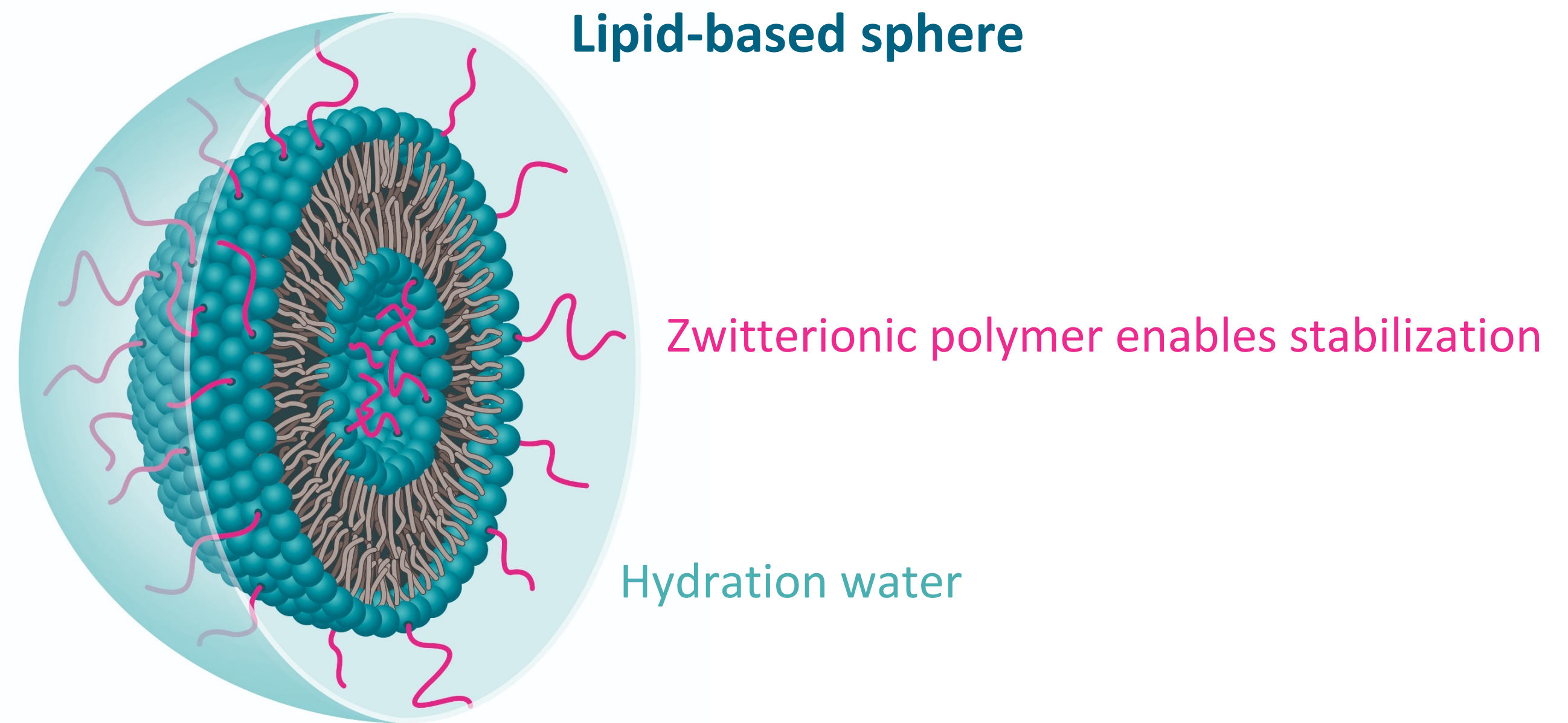


AqueousJoint

# Liposphere's unique boundary lubricant

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- ✓ Efficient at high-loads
- ✓ Reduces wear and friction
- ✓ Provides superior lubrication



*Formulations hold water in the most efficient way.*

*Water acts as the lubricating element.*





An injectable comparison

## Why *AqueousJoint*?

Market standard injectable

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	 <b>AqueousJoint</b>	<b>Hyaluronic acid-based</b>
<b>Mode of Action</b>	// Boundary lubricant	// Viscosity enhancer
<b>Wear/tear protection</b>	// <b>High</b> 	// Low
<b>Retention time*</b>	// > 50x longer than HA	// rapidly metabolised
<b>COGS</b>	// Moderate	// Expensive

\*based on animal experiments



An outlook

## Next steps *AqueousJoint*

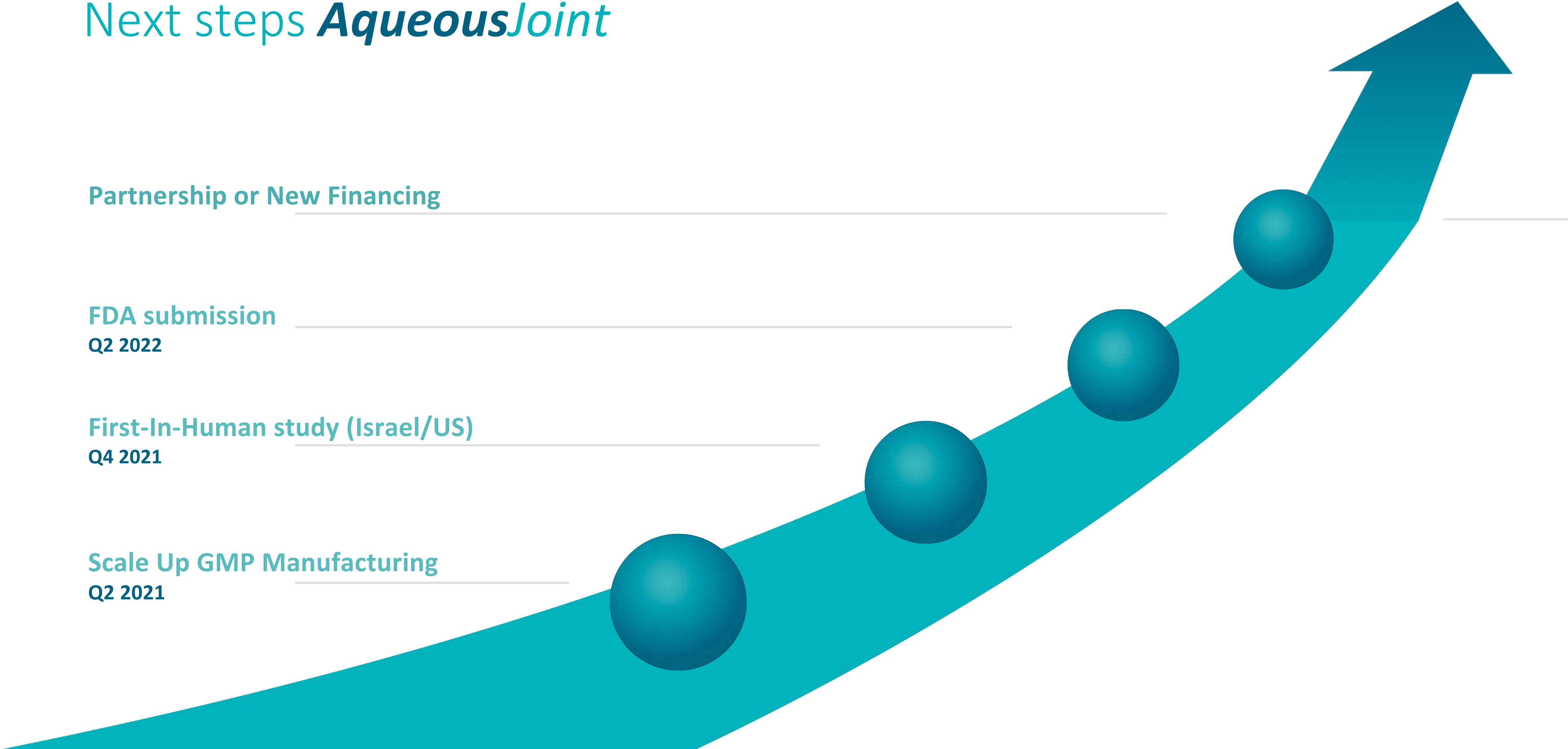
Partnership or New Financing

FDA submission  
Q2 2022

First-In-Human study (Israel/US)  
Q4 2021

Scale Up GMP Manufacturing  
Q2 2021

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About us

## Liposphere's Founders



**Ronit Goldberg**  
Co-Founder, CEO

PhD in Chemistry,  
Weizmann Institute



**Sabrina Jahn**  
Co-Founder,  
Business Development

PhD in Physics,  
University of Cambridge

*„We founded **Liposphere** as a **spin-off** from the **Weizmann Institute of Science (Israel)** in 2019  
after having worked several years together in an academic setting.”*





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**Liposphere Ltd.**

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Thank you!