

# Unlocking the industrial potential of **Graphene**

---

Company intro  
November 2025

# Disclaimer

---

This presentation has been prepared by Graphmatech AB, a private limited liabilities company based in Sweden (“The Company”), and it is provided solely for informational purposes and does not constitute an offer to sell or a solicitation of an offer to buy any securities. The information contained herein is subject to change without notice and is based on information believed to be reliable at the time of preparation. However, no representation or warranty, express or implied, is made as to its accuracy, completeness, or correctness.

Investors should conduct their own due diligence and consult with their own financial, legal, and tax advisors before making any investment decision. The potential securities described herein are speculative and involve a high degree of risk, including the potential loss of the entire investment. Past performance is not indicative of future results.

This memorandum contains forward-looking statements that are based on current expectations, estimates, and projections about the industry and markets in which The Company operates. These statements are not guarantees of future performance and involve risks, uncertainties, and assumptions that are difficult to predict. Actual outcomes and results may differ materially from those expressed in these forward-looking statements.

By accepting this presentation, the recipient agrees to keep the information contained herein confidential and to use it solely for the purpose of evaluating a potential investment in the company. The existence and contents of this presentation are Strictly confidential and must not be disclosed to any other person without The Company’s prior written approval.



# Summary

## Impact

Graphmatech has cracked the code to infusing graphene into metals and polymers in a cost-efficient way, making Graphene suitable for cost-efficient productivity improvements, at industrial scale.

Our patented solutions creates stronger, lighter and longer-lasting materials that are resource-efficient, with sustainability benefits across a wide range of industries. Our materials has proven to cut cost for packaging and conductivity by up to 40%. Reduce friction by 70% with metal coatings to extend lifetime and reduce leakage for hydrogen by 80%, significantly cutting waste and energy losses.

## Market Traction

A growing customer base with over 5 MoUs signed with leading industrial players in Europe and the Middle East.

Large-scale offtake and collaboration agreements indicating annual volumes of more than 500 tons and €15M revenues, with several repeat customers underscoring strong customer stickiness and commercial readiness. First 1-ton+ order of polymer graphene received in September.

**Key investors:** ABB, Walerud Ventures, Molindo, Inno Energy and Almi Invest

## Market & Competition

Customers choose to work with us because of our ability to offer cost-efficient and scalable solutions in metals and polymers. Competitors tend to be stuck in research scale operations. The market has a multi-billion USD potential with a clear path to adoption as the industry adapts.

Key application areas and adressable market size: Advanced materials for the defense industry – €2.4B, Additive manufacturing / 3D printing – €80M Conductive polymers – €1.2B, Hydrogen storage & transportation – €1.3B Industrial packaging – €2.4B – making up a total addressable market for Graphmatech of €7B+.

## Ready to Scale

With a team of 16 people with deep industry knowledge, material science and experience in scaling & commercializing we are ready to take Graphmatech from €0.5M 2025 to over €70M in sales with over 30% in EBITDA margin by 2029.

Our current facility has a production capacity of 2-3 tons and is set to scale to 200 tons annually by Q1 2026. By 2029 we are targeting 3,500 tons+ production annually.

Raising €2-5M for continued commercialization and production ramp up.



# Graphmatech at a glance

A leading deep-tech, dual-use startup unlocking the industrial potential of graphene-enhanced advanced materials



## Graphmatech today

**8+**

Years of research

**16**

People in the team, with deep experience in material science, industries and scale-ups

**5**

Patent clusters in a continuously advancing technology platform

**150**

Customers in sales pipeline

**5**

Key investors

**ABB** **WV** **Inno** **almi** **invest** **molindø**

## Graphmatech development objectives

**>5**

Offtake and collaboration agreements at yearly volumes >500 tons and >15 MEUR

**5 → 200 tons**

Increase from current annual production capacity of 5 tons to 200 tons by end of 2025

**3 regions**

Established commercial and production operations by end of 2026: Europe, Middle East and Asia/ North America

**EBITDA positive**

By end of 2026

**Fundraising**

Currently raising 2-5 MEUR to fund continued commercialization and production ramp-up

## Graphmatech application areas (examples)

- Market size, MUSD



Additive manufacturing /  
3D printing

80



Conductive polymers

1,200



Industrial packaging

2,400



Hydrogen storage and  
transportation

1,300



Advanced materials for  
Defence industry – more  
information available



Strictly confidential - Cleantech Scandinavia

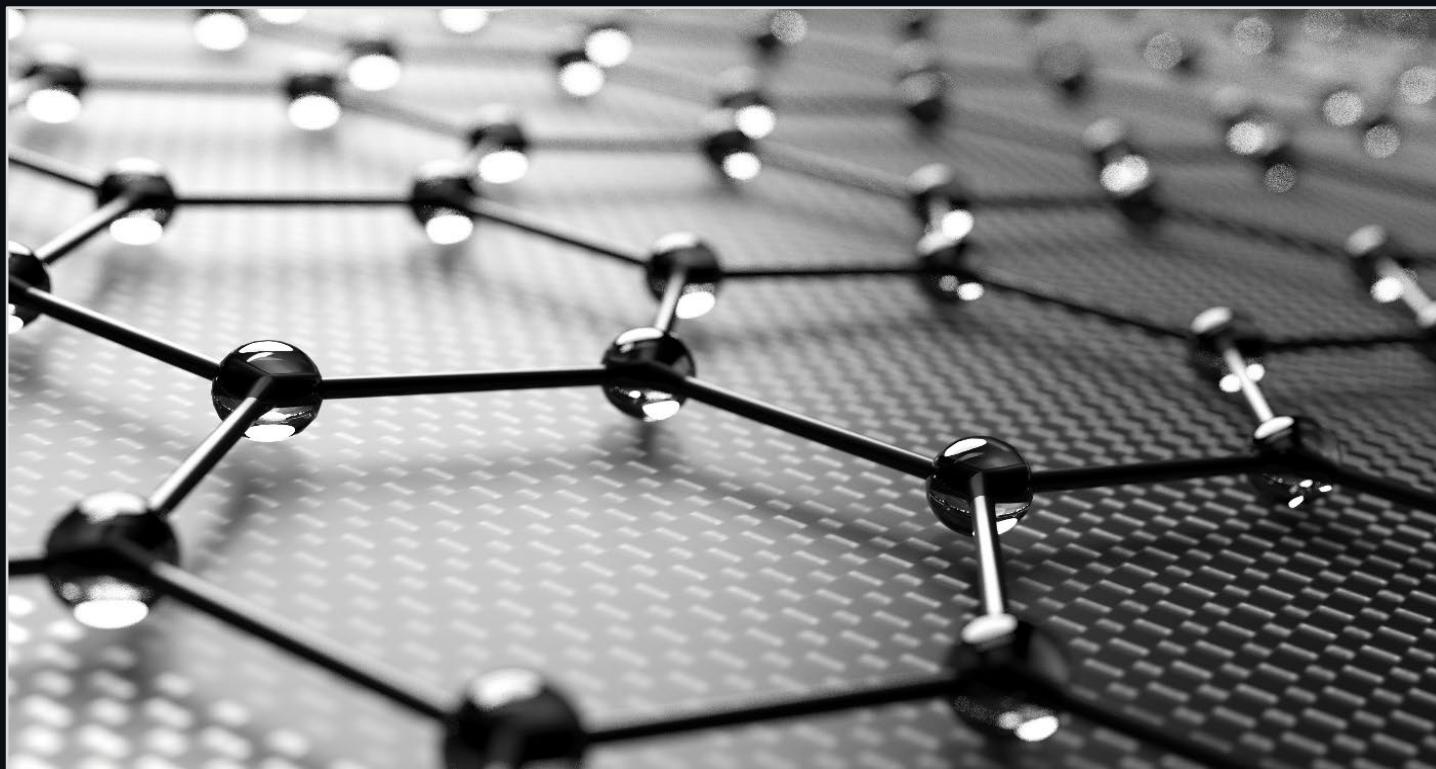
# Graphene is a super material with unique properties, suitable for a range of industrial uses

---

**Graphene**, discovered in 2004, is a material extracted from graphite

It is made up of pure carbon atoms bonded together in a hexagonal sheet-like structure

Each sheet is one atom thick



## Graphene's unique properties:

---

**Strong**

Graphene is the world's strongest material - 200x stronger than steel

**Light-weight**

1000x lighter than a piece of thermal paper 5x lighter than aluminium

**High conductivity**

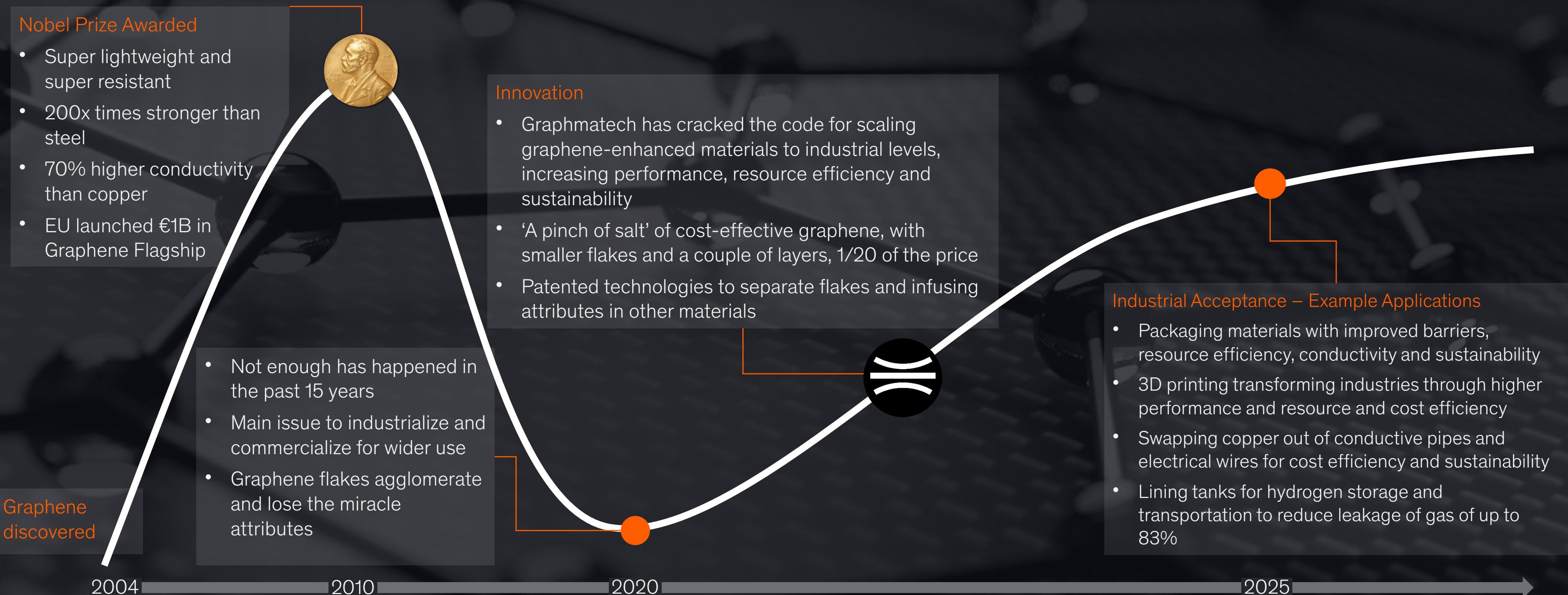
Exhibits a conductivity of ~4000 Wm<sup>-1</sup>K<sup>-1</sup> - 70% higher than copper

**Abundant**

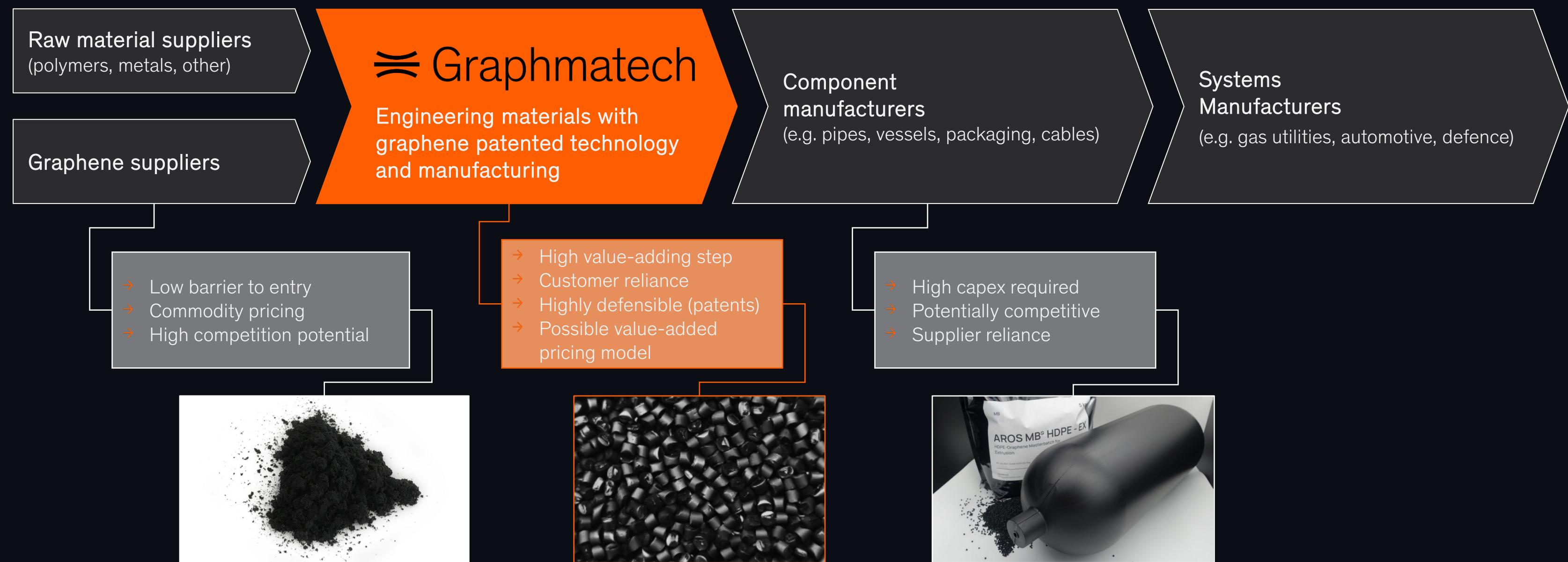
Can be produced from various raw materials, including graphite, methane cracking, and waste recycling



# Graphmatech brings graphene from research material to industry-scale productivity



# Graphmatech is in a value-adding, defensible and scalable value chain position



# A portfolio of products providing significant value for our customers



Polymers for  
3D printing



20-120% faster  
printing  
→ Excellent ESD  
properties  
→ No clogging or  
stringing



Polymers for  
conductivity



40% cheaper  
→ Excellent ESD  
protection  
→ Approved ESD safe  
→ Replacing copper



Polymers for  
packaging



20-40% cheaper  
→ Simplified manu-  
facturing, less layers  
→ Increased barrier  
properties  
→ Recyclable material



Polymers for  
hydrogen



80% less leakage  
→ Improved mechanical  
properties  
→ Improved blow  
moldability



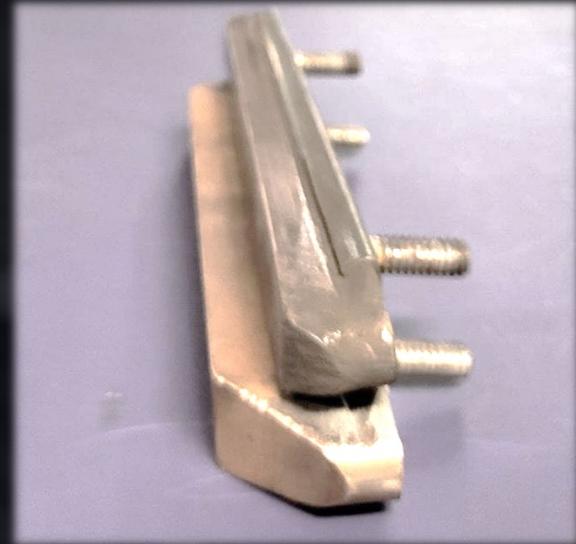
Polymers for  
defence



Stealth properties  
→ 3D printing, coating  
and molding



Metal coating  
for durability



70% lower friction  
→ Self-lubricating  
→ Wear resistance  
→ Longer lifetime

Machine-agnostic

Drop-in materials

New and retro-fit

# Strategically building a technology platform with speed, spin-out opportunities and rapid ramp-up of production capacity

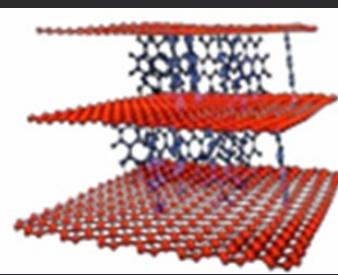
## World-leading innovation speed...

- Faster advanced material development than market standard
- Accelerated by machine learning bringing new materials in months and not years
- Strategically crafted and continuously evolving IP portfolio designed to protect Graphmatech's:
  - Leading market position in structuring graphene and infusing graphene with other materials to avoid flake agglomeration and enable industrial processability
  - Applications in selected use-cases
  - Potential seamless spin-out opportunities

## ...a strategic patent structure...

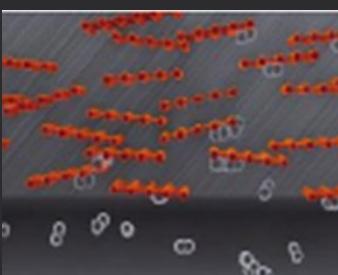
### Aros Graphene

Functionalizing graphene for different needs



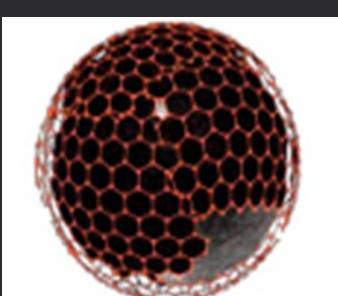
### Aros Hydrogen

For hydrogen infrastructure materials



### Aros Coat

Coat particles with graphene



### Aros Defence

Stealth and surface protection technology



## ...with rapid manufacturing scaling globally



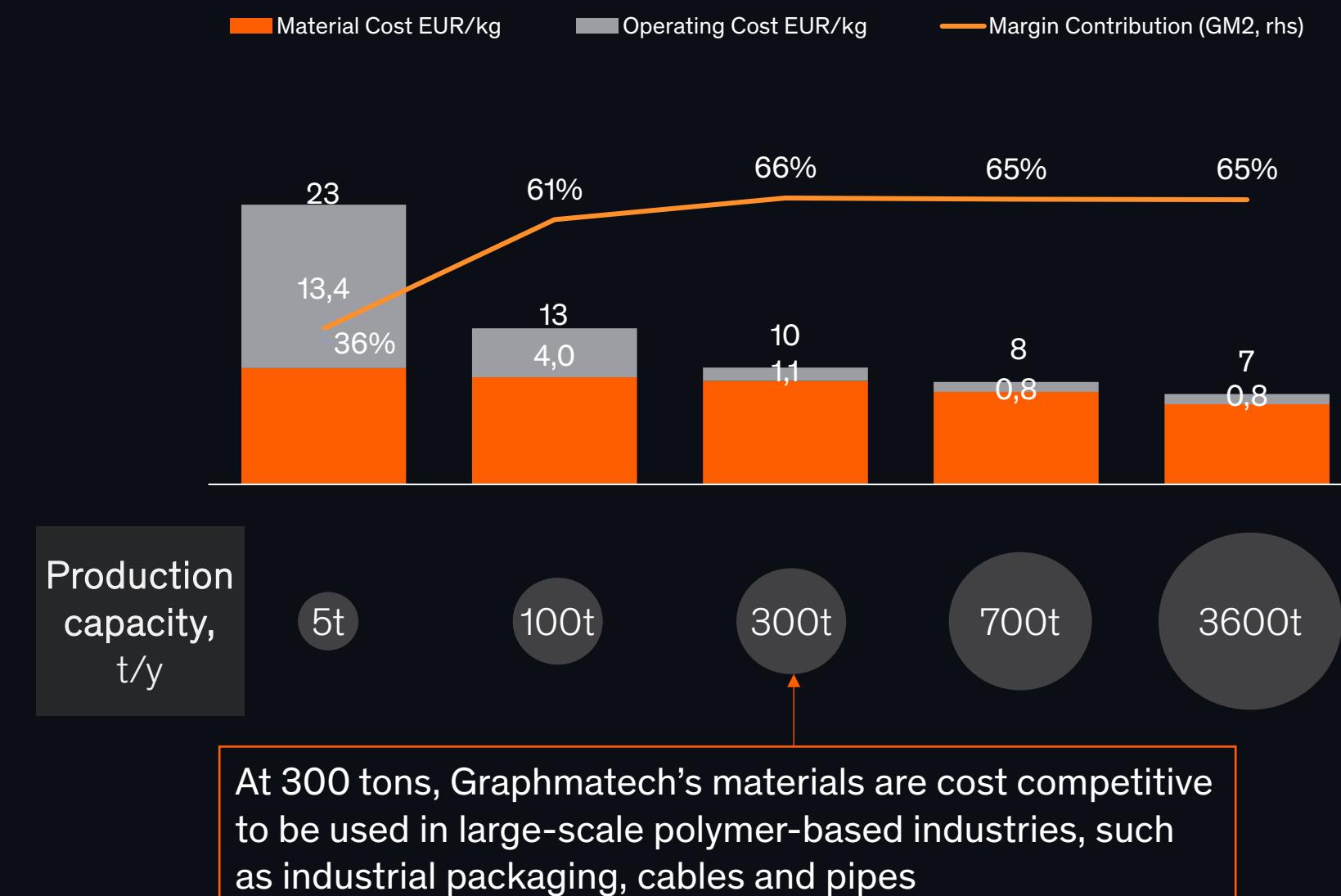
### Modular manufacturing



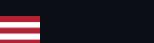
# Rapidly improving cost profile and gross margin as production scales

- Scaling production reduces the production cost per unit exponentially, driven by a combination of increased production capacity with maintained operator cost, lower material cost and less energy cost per produced unit
- Bulk purchasing provides lower COGS: Graphene by 30-40% and other raw materials by 10-20%
- Improved operational efficiency when the operator runs larger production runs. At current scale (5t) the operator cost is >50% of manufacturing cost, dropping significantly to <30% at next scale (100t)
- Customer pricing is expected to decrease due to larger volumes and maturing markets. Price acceptance from customers vary depending on use cases – but given today's market – Graphmatech is expecting pricing for large scale volumes at 20-30 EUR/kg providing attractive margins in polymers

Production cost developments, EUR/kg



# Graphmatech is the most innovative and global company developing graphene enhanced materials

							
Producing own graphene							
Number of graphene grades <sup>1</sup>	4 (Aros Graphene, rGO, GO, GNPs)	1	1+ (PureGraph)	1 only from Black Swan Graphene	1+	1	1
Products in the market (launched in last 2 years)	8 (4)	Not disclosed	2(2)	2(2)	5(0)	2(2)	4
Ability to innovate							
Targeted segments	Hydrogen, packaging, ESD, 3D printing, defence, pipes, PFAS free	Pipes, packaging, automotive parts (mechanical reinforcement)	Leisure, mining, textile	Packaging	Masterbatch only, no specific market focus, no hydrogen	Additive manufacturing, injection moulding	Adhesives, concrete, additive manufacturing, textile
Markets presence	   	 	 	  	  		



# Ramping up towards 3,700 tons, >70MEUR sales and >35% EBITDA in 2029

## Graphmatech ramp-up plan and estimated financials



Currently raising 2-5 MEUR to fund continued commercialization and production ramp-up to >200 t/year

---



# Accelerating momentum with increasing number of customers in sales pipeline and large-scale agreements

---

**>150**

customers in sales  
funnel

**>5 MoUs**

polymer & metal development  
projects with leading industrial  
players in Europe and Middle East

**>500 tons**

**>15 MEUR**

**>15**

annual volumes in offtake and  
collaboration agreements

repeated orders



# Graphmatech team has deep experience in materials science, deep/green tech and large-scale industries

## Management team



**Olivia Nestius**  
**CEO**

On a mission to make the green transition a success, with an extensive background in clean tech at Svea Solar - one of Europe's fastest-growing cleantech scaleups - and 6 years of strategy consulting at McKinsey & Co



**Ted Karlsson**  
**CFO**

25 years of experience from the capital markets and investment banking industry and in recent years from scale-up & tech driven industrial companies such as Svea Solar



**Michael Sköld**  
**Production Manager**

Previously from Sandvik, Scania and Cyctiva with 10 years experience within materials manufacturing and technical project management



**Dr. Mamoun Taher**  
**Founder & CTO**

Previously from ABB Corporate Research and having worked as a materials researcher at Uppsala University, Dr. Taher invented Aros Graphene and founded Graphmatech in 2017



**Dr. Cecilia Århammar**  
**R&D Manager**

PhD from the Royal Institute of Technology in Stockholm, Cecilia has over 10 years experience within materials research and development in startup and global companies



**Anders Willix**  
**Defence Business Unit Manager**

15 years experience in Swedish Armed Forces, and 13 years as CEO and operations manager in civil and defence companies

## Board of Directors



**Dr. Jane Walerud**  
**Chair of the Board**

Serial deep tech entrepreneur. One of Sweden's top business angels since 2002. First investor in Klarna (Unicorn, BUSD)



**Peter Gossas**  
**Board Member**

Former president Sandvik Materials Technology. 43+ years of international business leadership



**Morgan Sadarangani**  
**Board Member**

Former CFO of Tethys Oil from 2004-2017. Extensive experience in investing and raising equity and debt capital



**Claudio Jordan**  
**Board Member**

Principal ABB Technology ./Robotics  
10+ years in business strategy and deep-tech investments



**Sara Hjortmar**  
**Board Member**

Strong commercial background across startups and global scaleups. Early-stage investor focused on climate tech and sustainability technology



**Dr. Mamoun Taher**  
**Board Member**

## Experience from pioneering global corporations



SCANIA  
SVEA SOLAR



SIEMENS ENERGY



MICROCHIP



McKinsey & Company



Olivia Nestius

[olivia.nestius@graphmatech.com](mailto:olivia.nestius@graphmatech.com)



Mamoun Taher

[mamoun.taher@graphmatech.com](mailto:mamoun.taher@graphmatech.com)



Ted Karlsson

[ted.karlsson@graphmatech.com](mailto:ted.karlsson@graphmatech.com)



@Graphmatech

[www.graphmatech.com](http://www.graphmatech.com)

