

SME partner sought to test application of innovative, sustainable and high-performance wax-based lubricants in applications such as agricultural machinery, conveyor belts, motorcycling or outboard motors within a EUROSTARS project

Summary

Profile type

Research & Development Request Germany

Company's country

POD reference

RDRDE20260601013

Profile status

PUBLISHED

Type of partnership

Research and development cooperation agreement

Targeted countries

- Luxembourg
- Spain
- Iceland
- Czechia
- Greece
- Estonia
- South Korea
- Denmark
- Ireland
- Hungary
- Cyprus
- Latvia
- Romania
- Netherlands
- Singapore
- Croatia
- Bulgaria
- Canada
- Slovenia
- Poland
- France
- Austria

- Switzerland
- Italy
- Malta
- South Africa
- Lithuania
- Finland
- Slovakia
- Sweden
- Norway
- Belgium
- Israel
- Portugal
- United Kingdom
- Türkiye

Contact Person

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Term of validity

9 Jun 2026**9 Jun 2027**

Last update

9 Jun 2026

General Information

Short summary

A German startup with backgrounds in nanochemistry develops innovative wax-based lubricants with first products on the market for bicycle chains. The patented technology removes oil and applies high-performance waxes in one step. Compared to fossil-based lubricants, this solution comes without contaminants and with up to 3 times longer durability. Pilot partners are sought for a common application to EUROSTARS to further develop and test the lubricants in a specific industrial application.

Full description

Conventional oil-based lubricants exhibit significant drawbacks: they readily attract and retain dirt, dust, and metallic debris, thereby promoting wear and increasing frictional losses. In both bicycle chains and industrial applications, this results in higher maintenance demands, reduced efficiency, and potential impairment of product quality and process reliability.

Wax-based lubricants, by contrast, form a clean, dry protective film with low affinity for contaminants. This reduces friction and wear, enhances energy efficiency, and extends the service life of technical systems.

The German startup with academic backgrounds in nanochemistry has even further improved wax-based lubricants:

- The one-step solution completely removes oil whilst simultaneously applying a high-performance wax that bonds perfectly to the metal parts, making the process quick, simple and efficient.

Following successful market launch of a first product range of wax-based lubricants for bicycle chains, now the company aims to expand into further industrial sectors. Diverse applications are possible:

- Manufacturers of agricultural machinery could benefit from waxed-based lubricants as their food-related applications require high sustainability standards and high durability. For food applications, HSF N1 certification would be part of the development project.
- Conveyor Belt Manufacturers could benefit from reduced downtime and longer maintenance intervals thanks to less adhesion of dust and dirt
- Motorbikes could benefit from longer running times and more driving pleasure
- Outboard motors would be less susceptible to corrosion
- Bearings and sliding rails could gain long lasting high performance free of grease and dirt

Together with a German research partner in tribology and a partner (to be found) from one of the promising application areas as mentioned above, the company would like to apply for funding in EUROSTARS 3 programme (<https://www.eurekanetwork.org/programmes-and-calls/eurostars/>) with deadline either 10 September 2026 or 4 March 2027. Funding conditions are different for each country, please check according to your location.

The partner sought:

- Must be an SME
- Must be located in one of the eligible countries except for Germany, which are: Austria, Belgium, Canada, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Greece, Hungary, Iceland, Ireland, Israel, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Singapore, Slovakia, Slovenia, South Africa, South Korea, Spain, Sweden, Switzerland, Turkey, UK
- Must be a manufacturer of machinery or components that could benefit from a transition to wax-based lubricants both in terms of reduced environmental impact and increased performance and efficiency. The partners is expected to provide information about specific requirements within their application, test the innovative wax-based lubricants and provide feedback and data to prove performance.

Advantages and innovations

- one-step solution for removing oil and waxing
- fossil-free, non pollutant
- improved energy efficiency thanks to lower machinery friction
- durable and long-lasting lubricant reducing maintenance needs
- clean solution, no adhesion of dust and dirt

Technical specification or expertise sought

SME that manufactures machinery or components that wax-based lubricants could be applied to.

Stage of development

Available for demonstration

IPR Status

IPR applied but not yet granted

IPR Notes

Sustainable Development goals

- **Goal 12: Responsible Consumption and Production**
- **Goal 9: Industry, Innovation and Infrastructure**

Partner Sought

Expected role of the partner

Partners are expected to provide information about specific requirements within their application, test the innovative wax-based lubricants and provide feedback and data to prove performance.

Type of partnership

Research and development cooperation agreement

Type and size of the partner

- **SME <=10**
- **SME 11-49**
- **SME 50 - 249**

Call Details

Framework program

Eureka

Call title and identifier

Eurostars 3

Submission and evaluation scheme

next cut-off dates: 10 September 2026 or 4 March 2027

Anticipated project budget

Coordinator required

No

Deadline for EoI

31 Jul 2026

Deadline of the call

10 Sep 2026

Project duration in weeks

Web link to the call

<https://www.eurekanetwork.org/programmes-and-calls/eurostars/>

Project title and acronym

Dissemination

Technology keywords

- **02009005 - Shipbuilding**
- **07001001 - Agriculture Machinery / Technology**
- **02009004 - Road Vehicles**

Market keywords

- **08001014 - Lubricants and functional fluids**



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- Lithuania
- Finland
- Slovakia
- Sweden
- Norway
- Belgium

Sector groups involved



- Israel
- Portugal
- United Kingdom
- Türkiye

