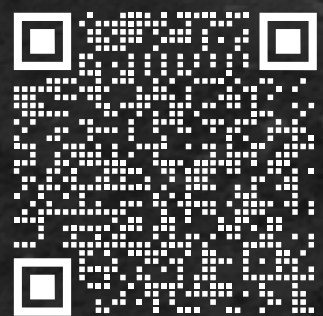
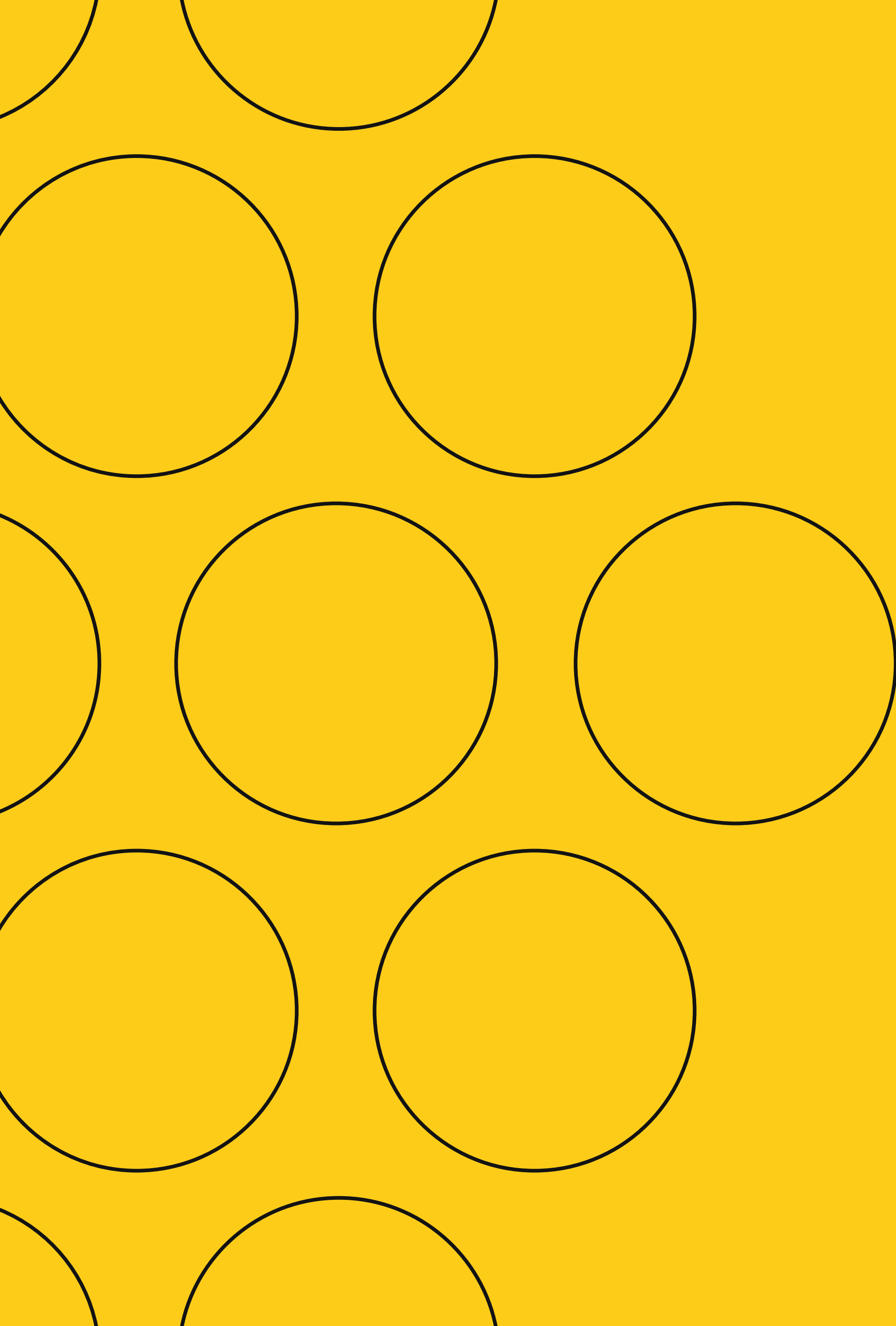


SUSTAINABLE FUTURE through the Georgi Petrov Center for Circular Economy



2026



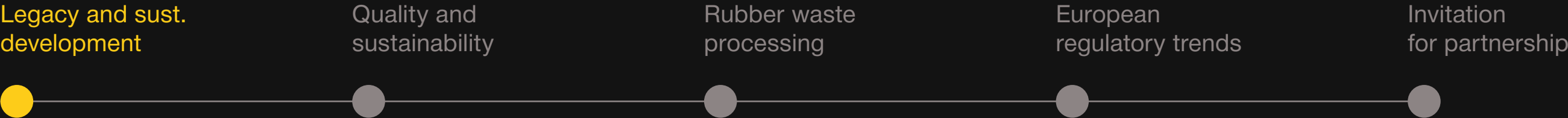


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LEGACY AND SUSTAINABLE DEVELOPMENT

ZKU JSCo is a leading manufacturer of rubber components with a long-standing history, established in 1968. The company builds its success on the principles of precision, quality, and sustainability, laid down by Mr. Georgi Petrov. Today, it continues to expand its vision beyond manufacturing – with a sense of responsibility toward the industry, people, and the planet.



1968



Establishment of ZKU JSCo as part of the “Hydraulics” State Economic Association.

Mr. Georgi Petrov takes over the management and lays the foundations of the value system of ZKU JSCo.



1998

2013 - 2018



Investments in modernizing the machinery.

Implementation of a SCADA system for real-time energy monitoring.



2023

2024



Commissioning of an in-house photovoltaic power plant.

Expansion of the tooling department with next-generation CNC machines.



2025

2026



Georgi Petrov Circular Economy Center, closing the production cycle.

Investments in automation and upgrading the quality management system according to ISO standards.

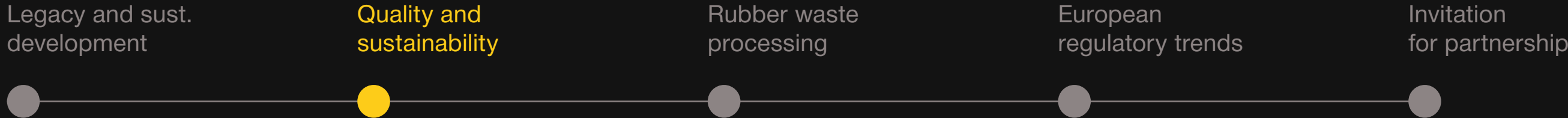
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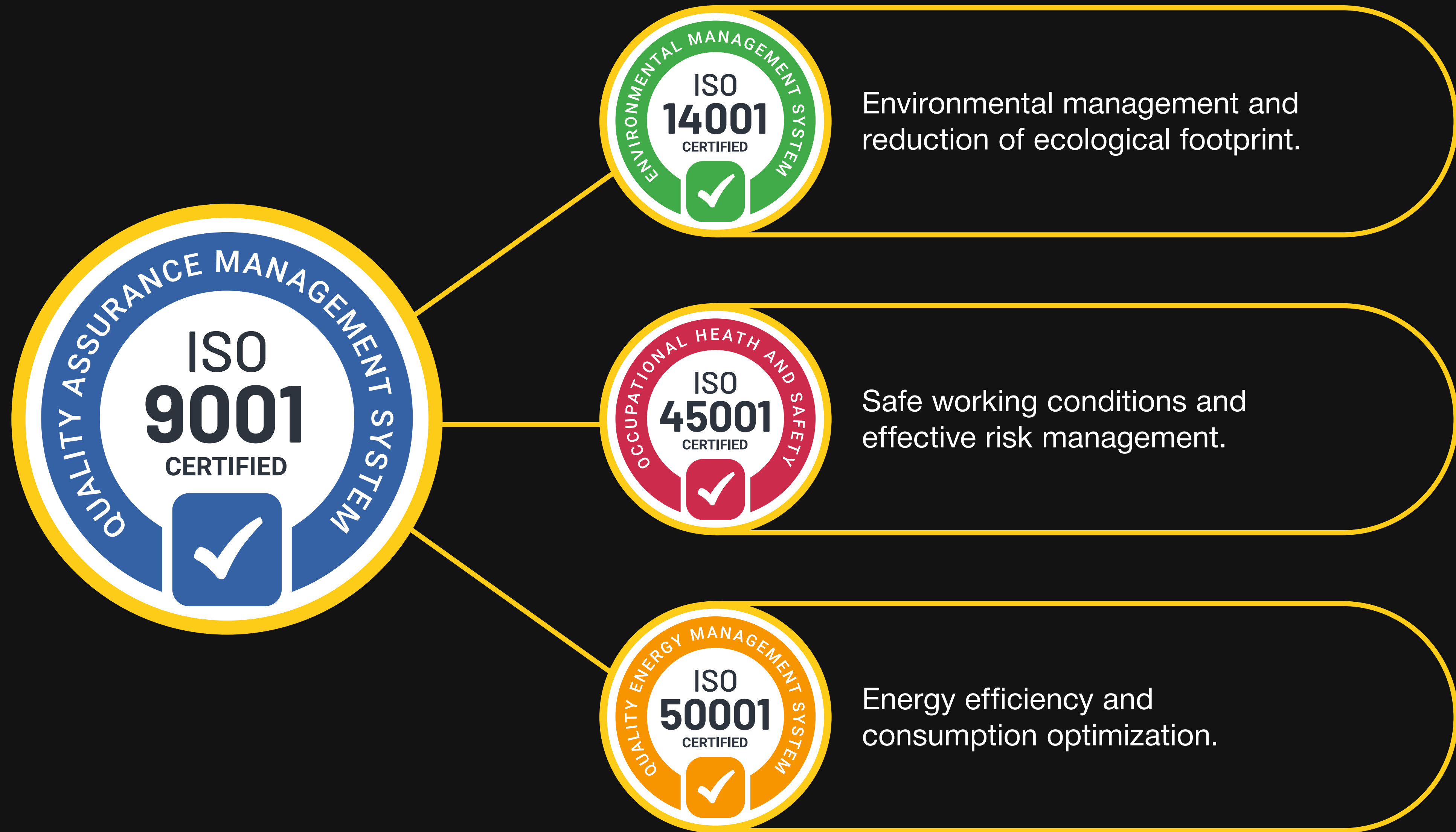


2026

QUALITY AND SUSTAINABILITY

The project involves upgrading the existing ISO 9001 system by integrating new standards. This way, the company establishes a comprehensive system for quality, environmental responsibility, safety, and energy efficiency, ensuring full control over processes, continuous improvement, and a sustainable development model.





Sustainable Development Model



Currently, 65% of the electricity used in ZKU JSCo’s operations is supplied by the company’s own photovoltaic power plant.

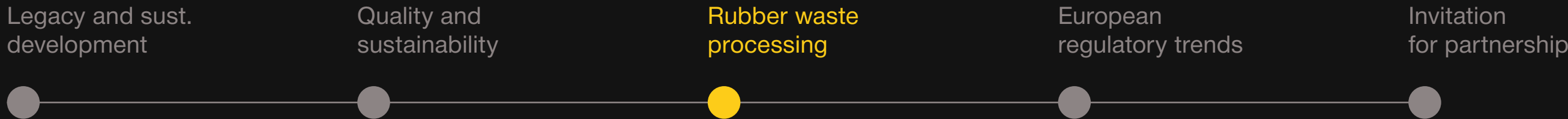
The organization’s goal is to achieve 90% energy autonomy from renewable sources within the next three years.

The project will contribute to a 30% reduction in carbon emissions, as part of ZKU JSCo’s commitment to sustainable development.



RUBBER WASTE PROCESSING

The new Georgi Petrov Circular Economy Center addresses a key industrial challenge – the efficient processing of vulcanized and non-vulcanized rubber. Equipped with SIEMPELKAMP technologies, the center produces high value-added products, supporting the zero-waste strategy and compliance with ESG requirements.



THE PROCESS



Rubber waste



Size reduction



Granules



Powder



Granules (2-4 mm)

Used in surfaces for playgrounds and sports fields, as well as various infrastructure elements.

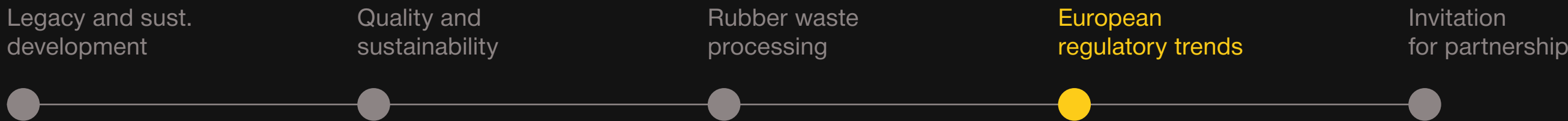


Rubber Powder (<200 μm)

Used in crumb rubber modified bitumen (CRMB), asphalt mixtures, and pavements with enhanced sound insulation and drainage.

EUROPEAN REGULATORY TRENDS

The EU actively promotes the use of secondary rubber materials through new standards and green public procurement. Restrictions on PAH compounds and Green Deal initiatives encourage recycling and establish its role as a key element of the circular economy.



Expected update of the EN 13108 standard (2025–2030) for recycled rubber content in infrastructure projects.

Priority for projects integrating recycled materials.

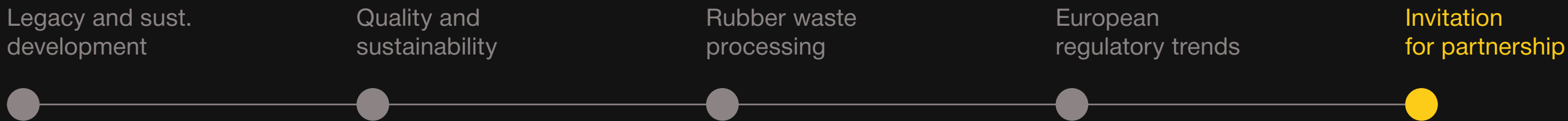
Control of PAH compounds – limiting carcinogenic materials for urban and playground infrastructure.

Reduction of emissions in ESG scopes 1, 2, and 3 through green technologies.



INVITATION FOR PARTNERSHIP

ZKU JSCo is establishing a network for the collection and processing of rubber waste, replacing incineration with reuse. The project offers a sustainable solution whereby the waste is delivered for certified and traceable recycling, ensuring quality, safety, and environmental responsibility.



PARTNERSHIP CONDITIONS:



Acceptance of clean rubber material without foreign inclusions – technological waste from soft polymers, TPU, and polymer waste from construction and renovation activities.



Fee: 200 EUR/ton (excluding transport).



Option to arrange transport upon request and mutual agreement.



Issuance of a certificate for each processed batch and produced part.



RESPONSIBLE DECISIONS
TODAY CREATE THE SUSTAINABLE
INDUSTRY OF **TOMORROW.**



ZKU is part of the Circular Rubber Platform, shaping
the future of rubber through circular manufacturing.

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