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The Kupferverband – What does it actually do? => Knowledge transfer



In November 2021, the German Kupferinstitut merged with the Copper section of the GDB-association to the Kupferverband.

The institution has been transferring copper knowledge for more than 90 years and represents member companies in international committees,

It provides access on copper know how and researches as well as market data and analysis with its informations, events, projects, platforms and its global network

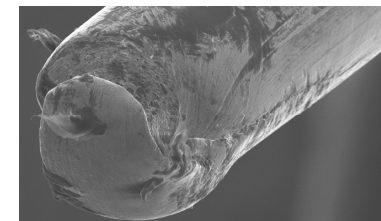
It advises and analyzes as a neutral specialist authority on copper processing and application.

Advice

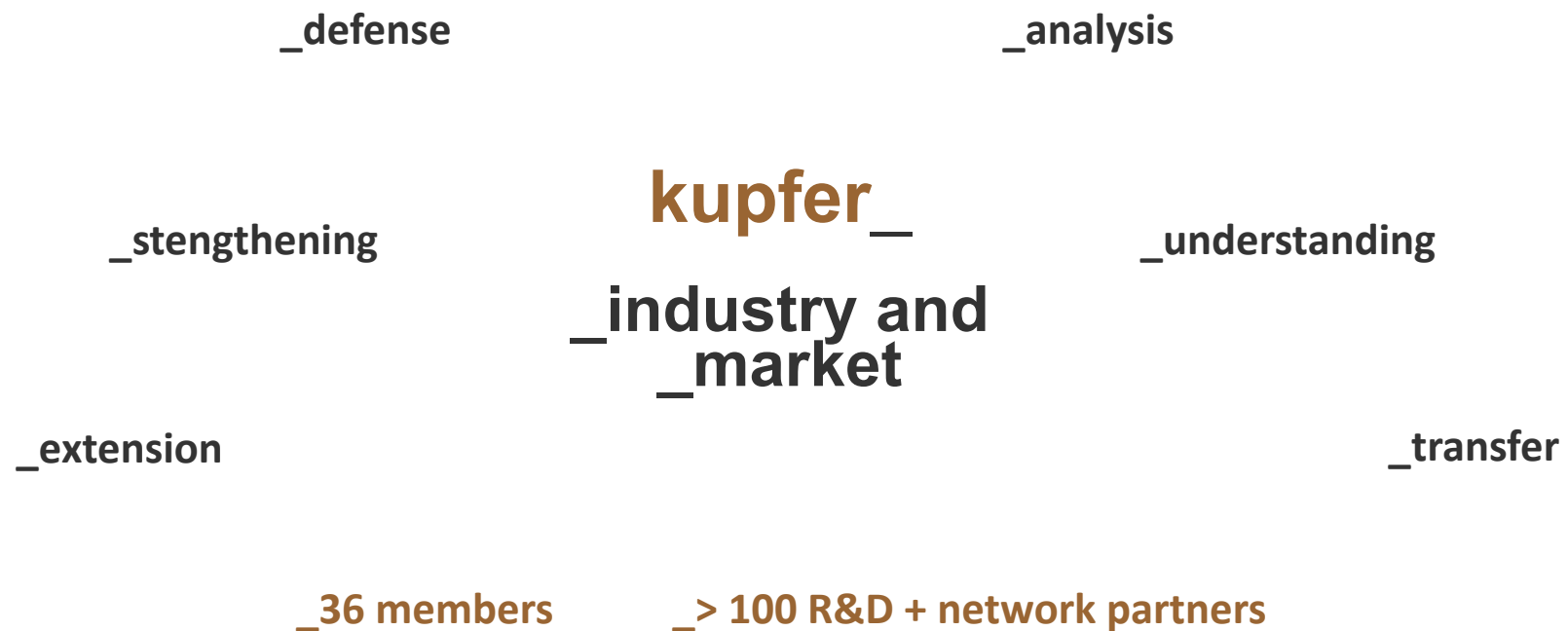
Puplication

Laboratory-service

Research



The Kupferverband – What does it actually do? => Knowledge transfer



Sustainability – attempt at an industry-related definition

Dictionary definition:

Original meaning: lasting effect

Forestry principle according to which no more wood may be felled than can grow back (18th century; Hans Carl von Carlowitz)

Today: Principle according to which no more may be consumed than can grow back, regenerate and be made available again in the future.

=> Consideration for future generations (suitability for grandchildren)

“Sustainable development is development that meets the needs of the present without risking that future generations will not be able to meet their needs.”

Bruntland Report, UN 1987

3-pillar model of sustainability



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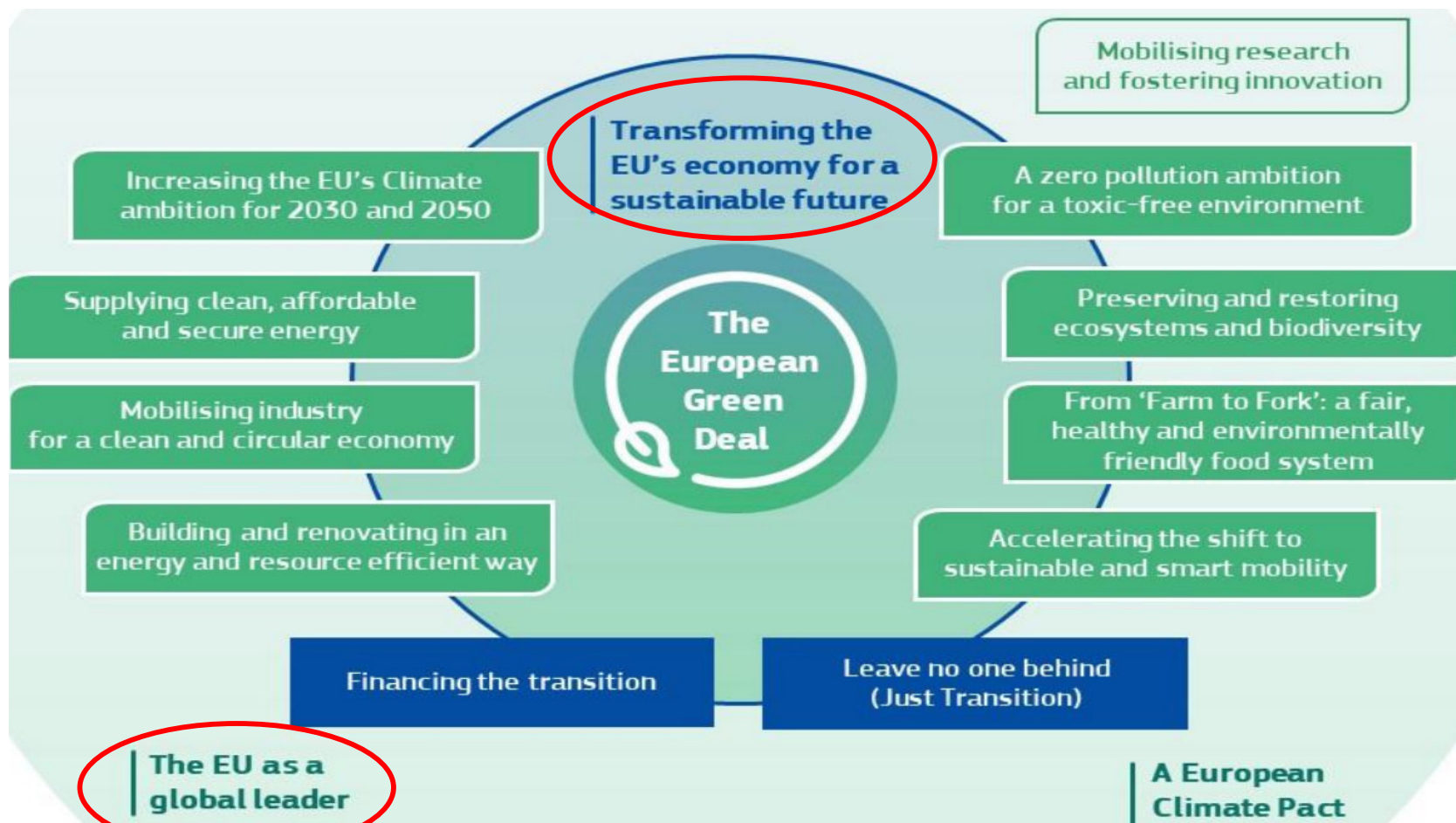
At the UN Conference on Environment and Development in Rio de Janeiro – better known as the Earth Summit or Rio Conference – representatives from 178 countries met in June 1992 to discuss issues relating to the environment and development in the 21st century. In Rio, the concept of sustainable development was recognized as an international guiding principle. Behind this was **the recognition that economic efficiency, social justice and the security of the natural basis of life are equal, vital interests** that complement each other.



Tasks of the EU Green



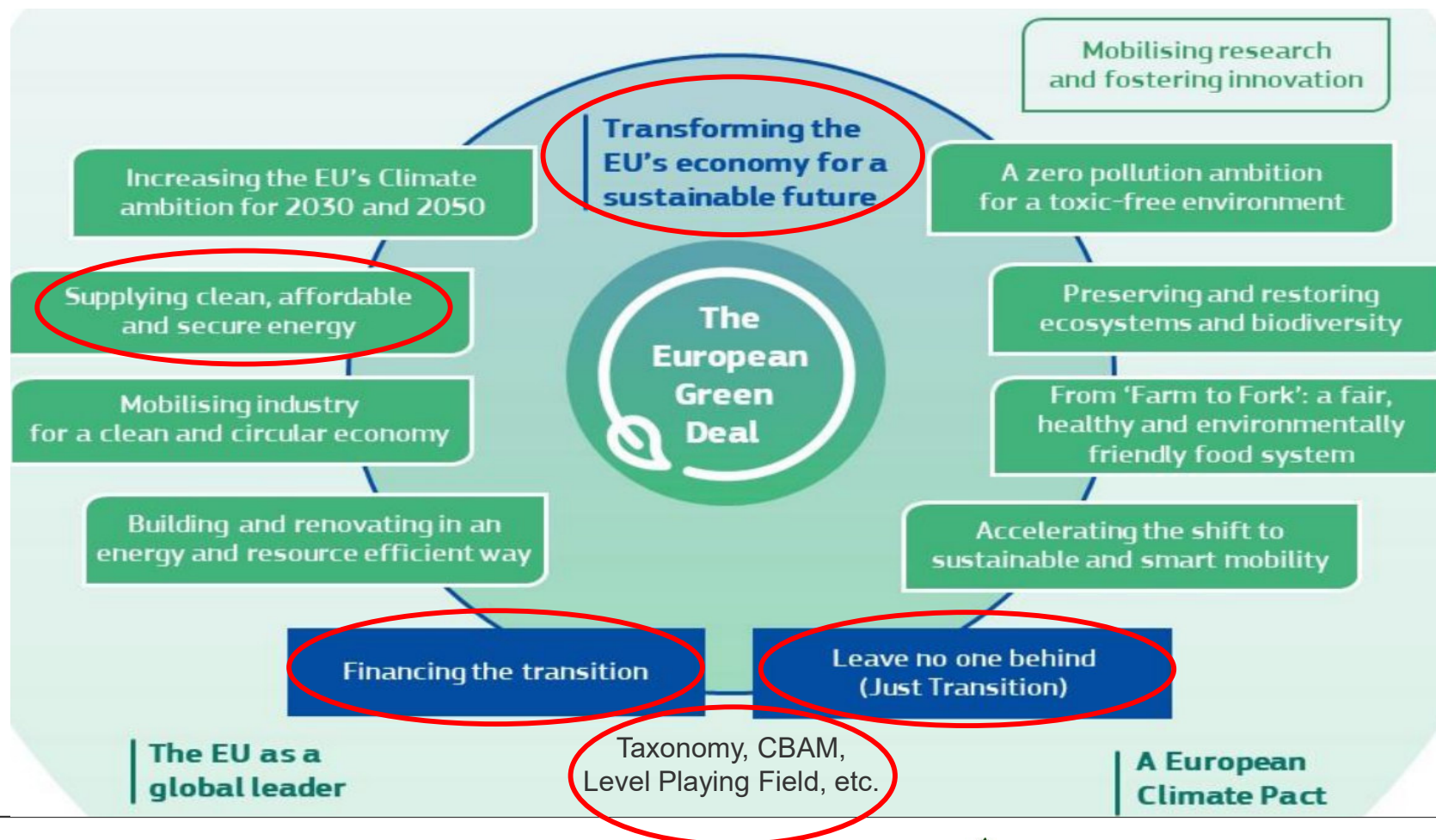
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Tasks of the EU Green



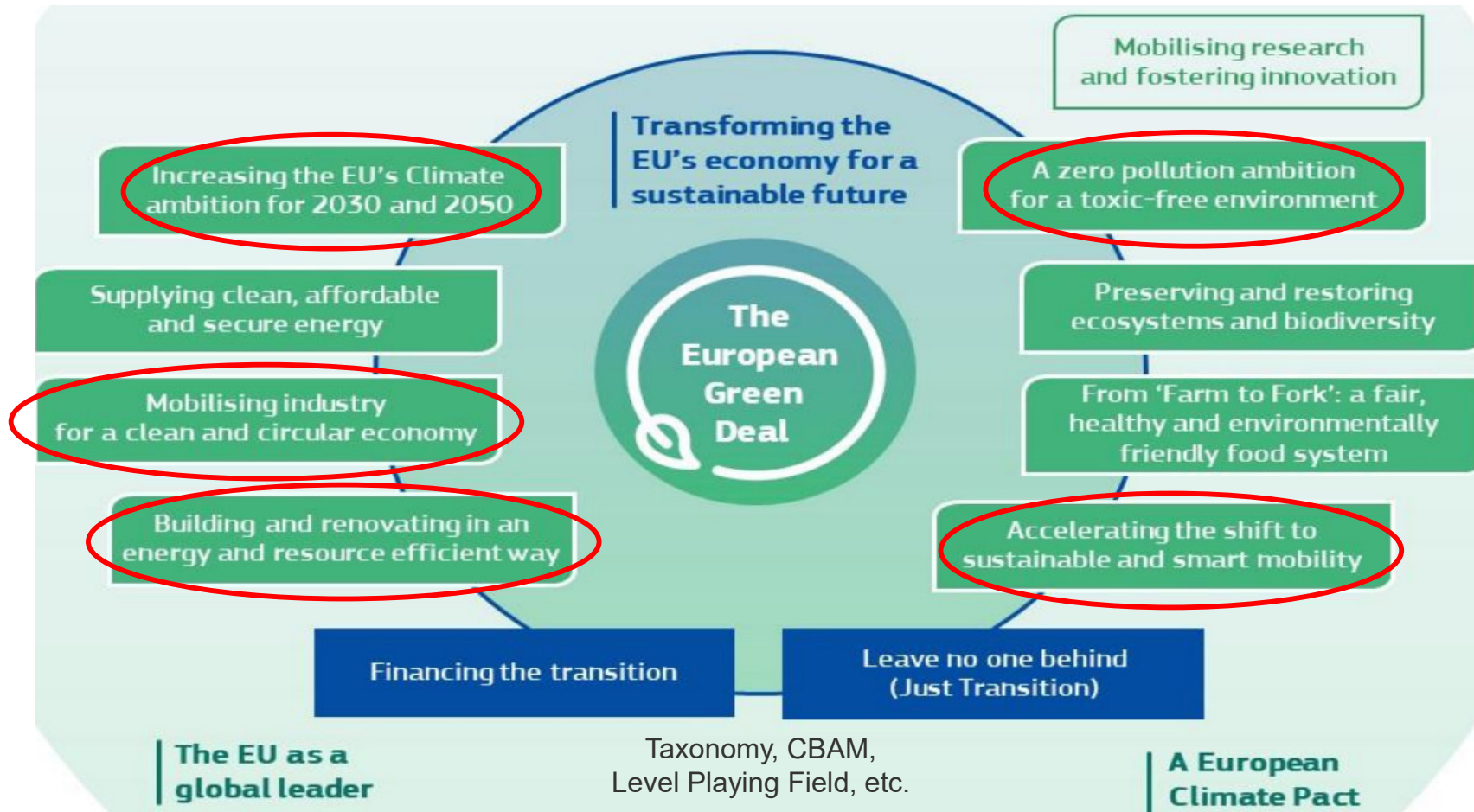
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EU-Green-Deal - Impact on the wire industry



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Non-ferrous wire products – enablers of the energy and mobility transition

Non-ferrous wire products are enabler for:

Electromobility (e-cars, charging infrastructure, etc.)

Renewable energy production from wind, sun, etc.

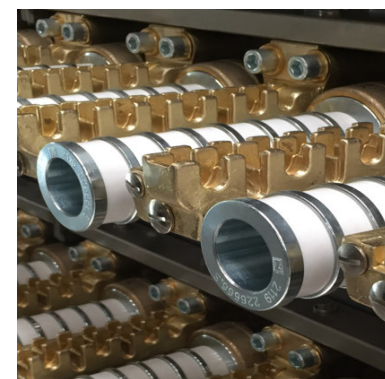
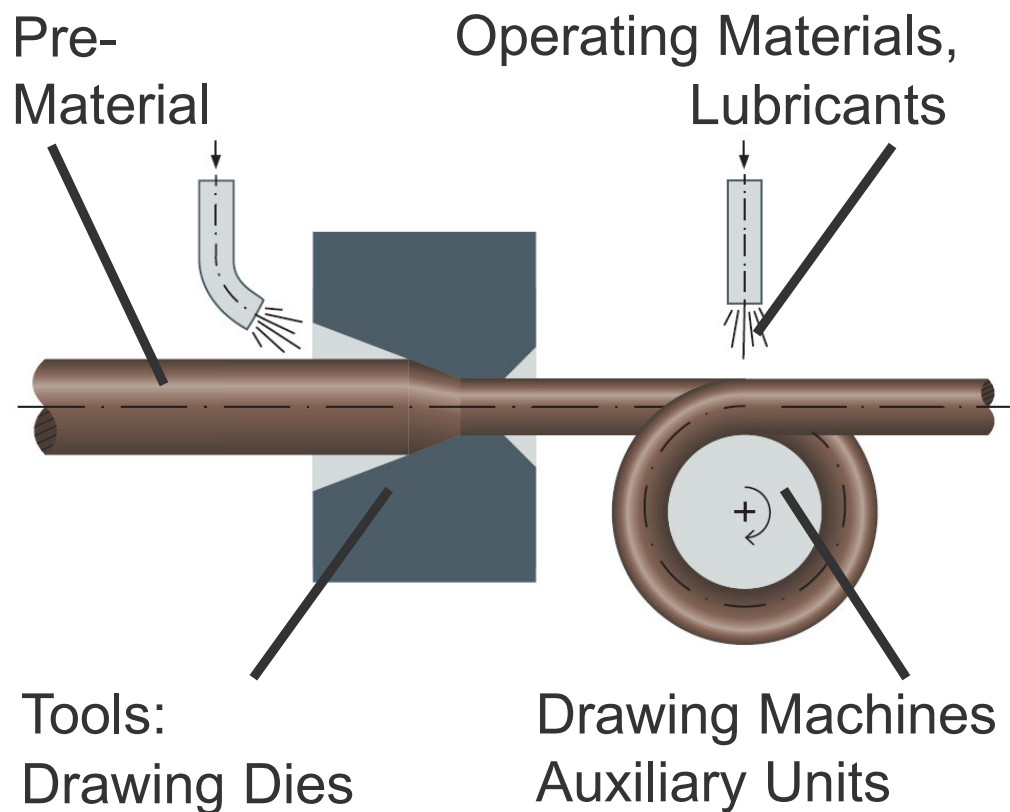
Decarbonization (heat pumps, etc.) etc.



System elements of the drawing process



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Sustainability

Where do we encounter it in the processes?

**Sustainable and responsible
sourcing**

Economy of resources

**Recycling and secondary use of
materials and energy (circular
economy, process heat)**

Avoidance of emissions

Sustainability

Where do we encounter it in the processes?

Sustainable and responsible sourcing:

Sustainable energy supply

- Green electricity, green hydrogen, etc.

Sustainable supplier selection

- Funding and production conditions, etc.

Sustainable material selection

- Secondary and primary materials

Sustainable tools, auxiliary materials and operating materials



Sustainability

Where do we encounter it in the processes?

Economy of resources:

Saving energy

- Saving of electrical energy (engine efficiencies, steam - gas, bows on stranding machines, etc.)

Economical material consumption of materials

Economical material consumption for auxiliary and operating materials

- Avoidance of packaging
- Avoidance of waste and excessive material consumption (filter fluid, drawing dies, service life, etc.)

Avoidance of water consumption and wastewater production

- Cascade sink, vacuum evaporator, etc.

Sustainability

Where do we encounter it in the processes?

Recycling and secondary use of materials and energy:

Waste heat utilization

- Machine heat, cooling circuit, etc.

Use of “waste”

- Copper abrasion, metal dust, old emulsion, packaging, etc.

Recyclability of the product and packaging

- Variety purity, end-of-life separation, etc.
- Circular economy

Sustainability

Where do we encounter it in the processes?

Avoidance of emissions:

CO2 reduction in processes
-no fossil fuels, etc.

Dust avoidance
-Filters, cleaning, etc.

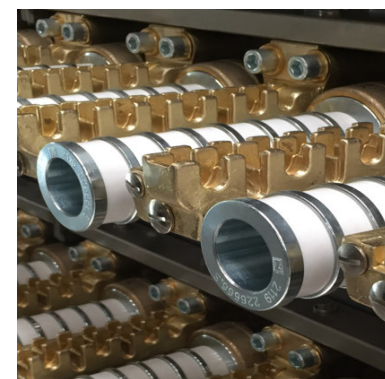
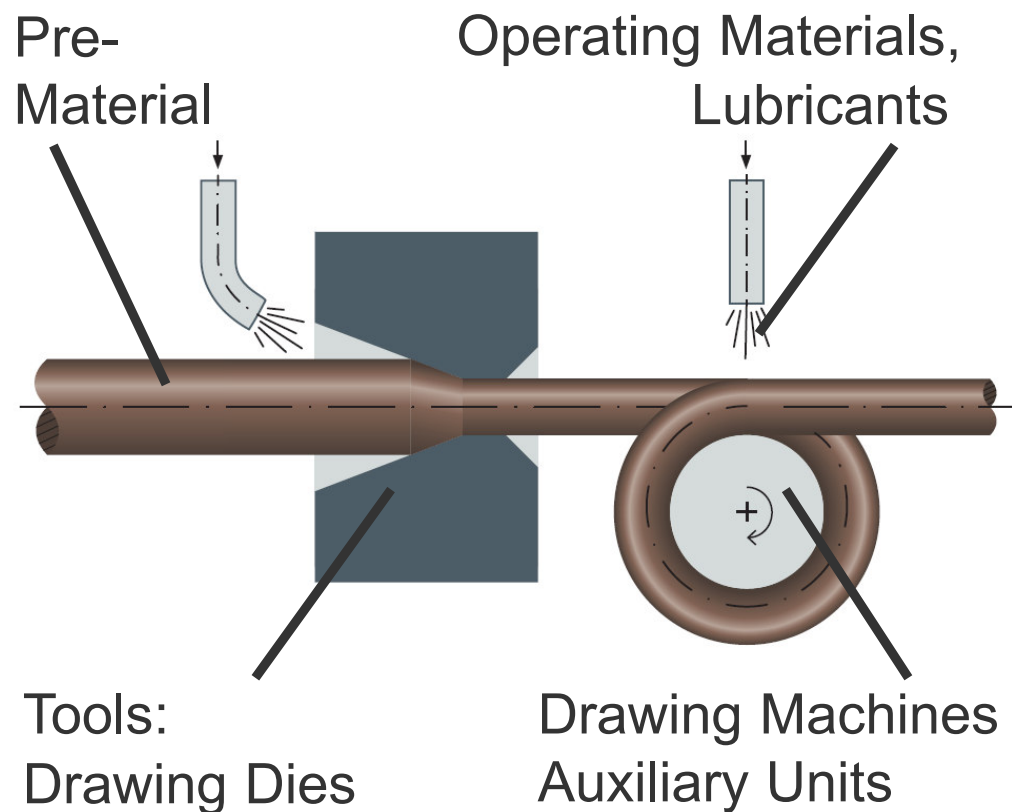
Avoidance of contamination and releases
-Filters, afterburners, etc.

Reduction in transport
-Inline processes, vertical integration, etc.

System elements of the drawing process



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