

Case Study: Sustainable Sourcing of Raw Materials for the Wiring Industry



Cable reels



Wire terminals and
conductors



Crimped cables



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1. Introduction

The cabling industry is highly dependent on several raw materials, including metals and plastics. The sustainability of these materials is critical due to their environmental, social and economic impacts. This case study explores sustainable raw material sourcing practices in the wire harness industry, focusing on challenges, strategies and best practices.



Raw materials are fundamental in the production process and geopolitically correct sourcing is part of a sustainable business.

OUR RAW MATERIALS

- Cables, wires, semi-conductors
- Integrated circuits, tin
- Heat shrink tubing

OUR TOOLS

- Automatic and semi-automatic machines
- Welders, pressesInserters, unspoolers

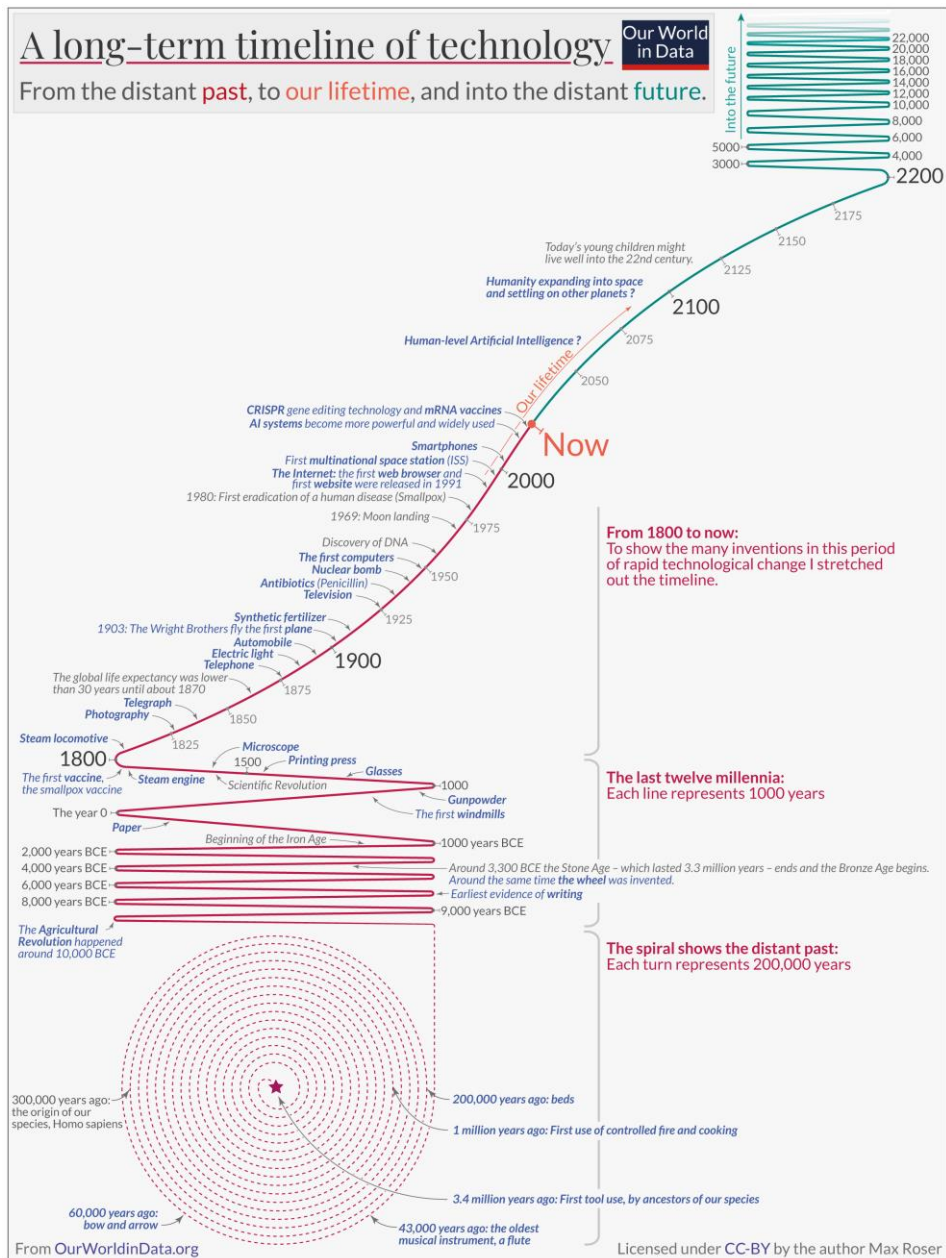
Tools are an important part of the company system because they allow correct processing of raw materials. All measurement and test instruments are certified by regulatory bodies to certify their properties and are used as evidence during the audit phase.

2. Background challenges in raw materials sourcing

In such a context, our company has very often found itself having to proceed with responsible purchases from a collaborative perspective with partners and suppliers. This has taught us how relying on reliable and strategic partners, who understand and assist supplier companies with the same procurement metrics, can lead to greater product quality.

<<The challenges we have faced are many and our company has always proven proactive in choosing suppliers. It is not just a question of product quality, it is part of a business and management philosophy that places emphasis on ethics in purchasing. >> employee zavi srl



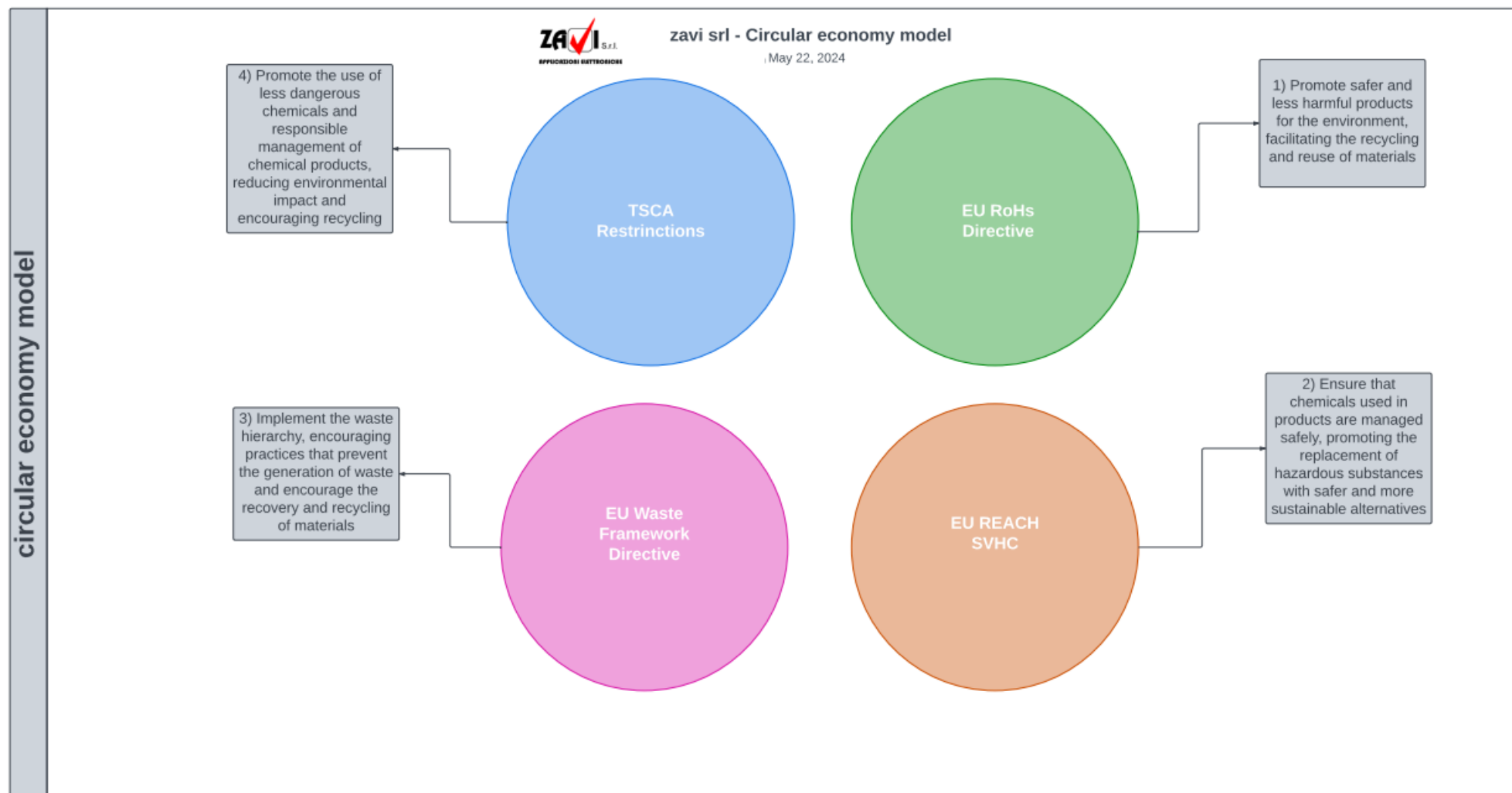


The technological constraint

- As can be seen from the information, the cabling industry is part of a technological segment of the market that has always had significant growth.
- The natural predisposition of technology to be a constraint for maximizing production leads zavi srl to equip itself with tools suited to the raw materials it uses.

3. Sustainable sourcing strategy

The strategy for material sourcing that is sustainable from a business point of view is represented by a **circular economy model**, as represented by the figure alongside.



Our goals in sustainability

2022 Silver Medal
Ecovadis



2023 Silver Medal
Ecovadis



EcoVadis is a global platform that provides sustainability ratings for companies. Using a method based on scientific data, EcoVadis evaluates company performance in terms of environmental sustainability, social responsibility and corporate management (ESG: Environmental, Social, Governance). EcoVadis' goal is to help companies improve their sustainability practices and promote a more ethical and transparent supply chain.

4. Best practices and recommendations

Within this *case study* we found some best practices and recommendations that can be useful in the context:

1. Transparency and traceability
2. Collaboration with suppliers
3. International standards
4. Reduction of environmental impact
5. Further integrate circular economy and responsible sourcing principles into purchasing
6. Innovation
7. Internal education, reporting and communication



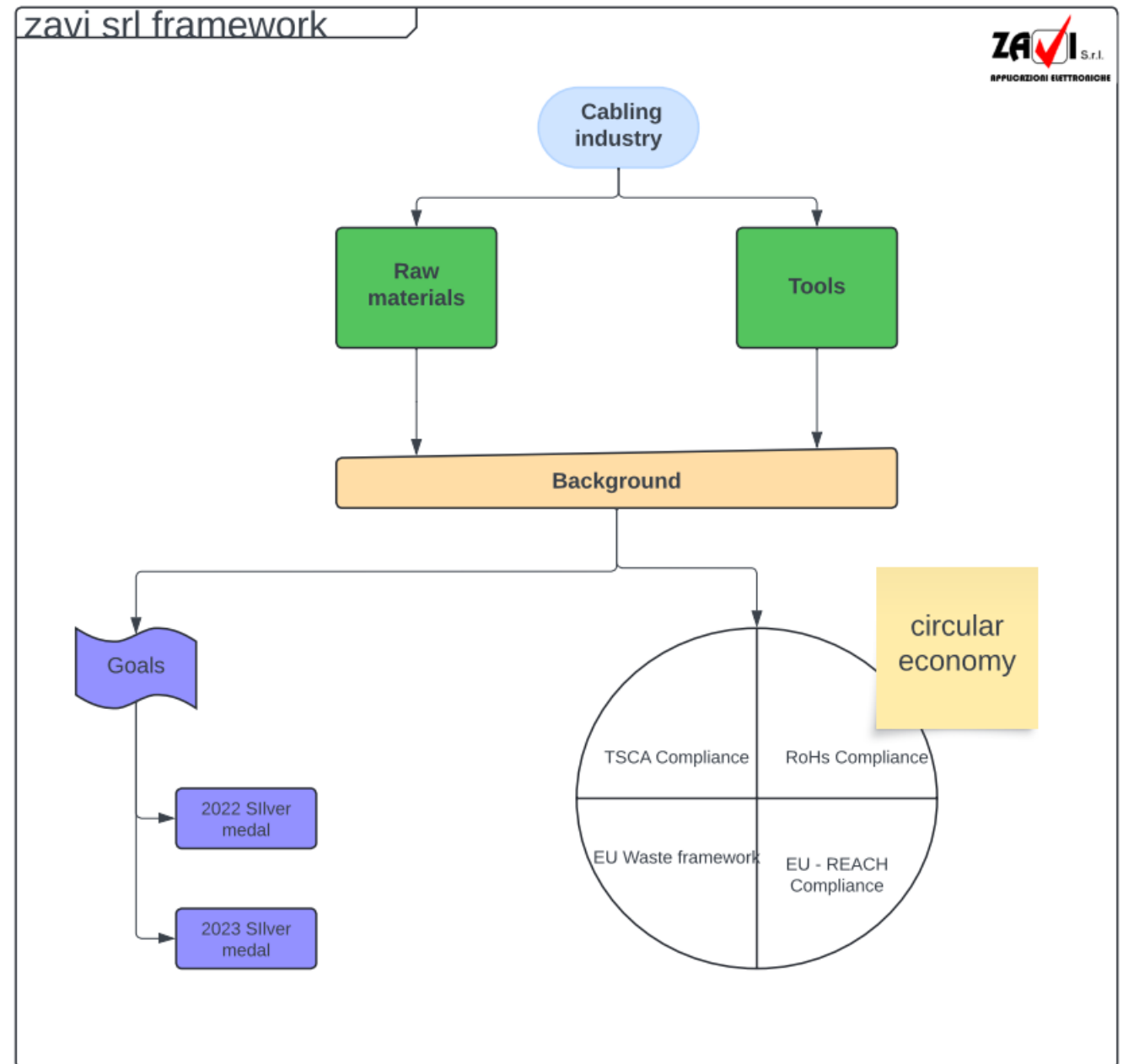
The **Responsible Minerals Initiative (RMI)** aims to promote the responsible sourcing of minerals, especially those from conflict-affected and high-risk areas. The initiative offers tools and resources to help companies conduct due diligence on mineral supply chains, ensuring that these materials are extracted and traded ethically and sustainably.



Compliance with REACH (Registration, Evaluation, Authorization and Restriction of Chemicals) ensures that the chemicals used do not pose significant risks to human health and the environment. RoHS (Restriction of Hazardous Substances) reduces the use of hazardous materials in electrical and electronic equipment, promoting product safety and facilitating recycling. The TSCA (Toxic Substances Control Act) in the United States regulates the production and use of chemicals to protect both people and the environment.

5. Conclusion

- In conclusion, we can observe from the figure opposite how the industrial cabling segment is for us strongly linked to the raw materials and the exact tools to be used.
- These two elements form a background of skills that can produce significant results for one's goals.
- Combined with a circular economy model, the background and results obtained contribute to a healthier realization of the corporate purpose.





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