



re-sourcing

Insights from the Renewable Energy Sector

Responsible Sourcing in Mineral Value Chains

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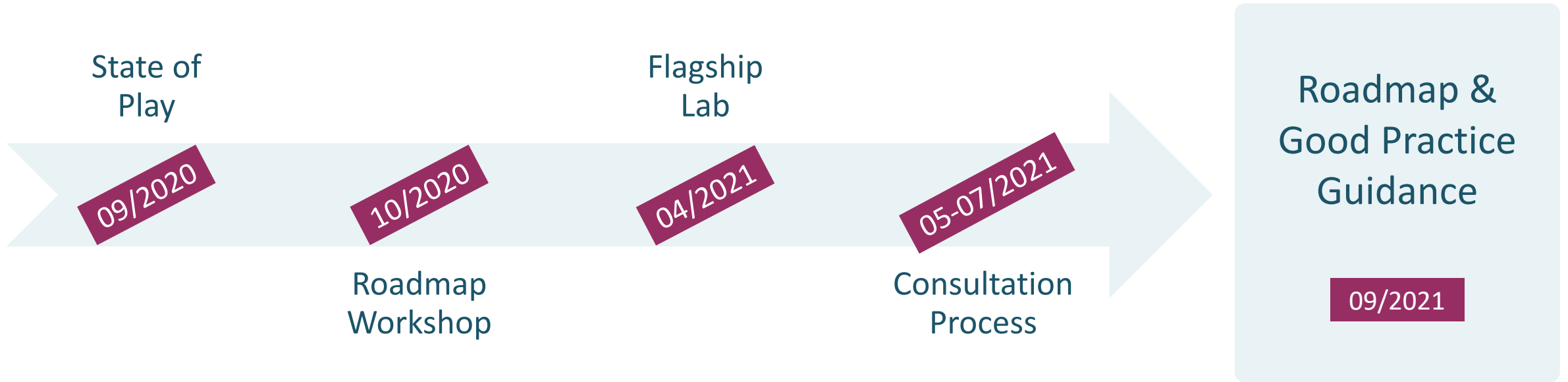
Content

- Scope of Renewable Energy Sector
- Roadmap Development
- Targets
 - Scope
 - Milestones
 - Recommendations

Renewable Energy Sector - Scope



- Mining & Processing
 - Copper
 - Rare Earth Elements
 - Quartz/Silicon Metal
- Manufacturing & Recycling
 - Wind Turbines
 - Solar PV Modules
- Supply Chain
 - Procurement





State of Play Report

Issues and Challenges
for Sustainability along
the supply chain

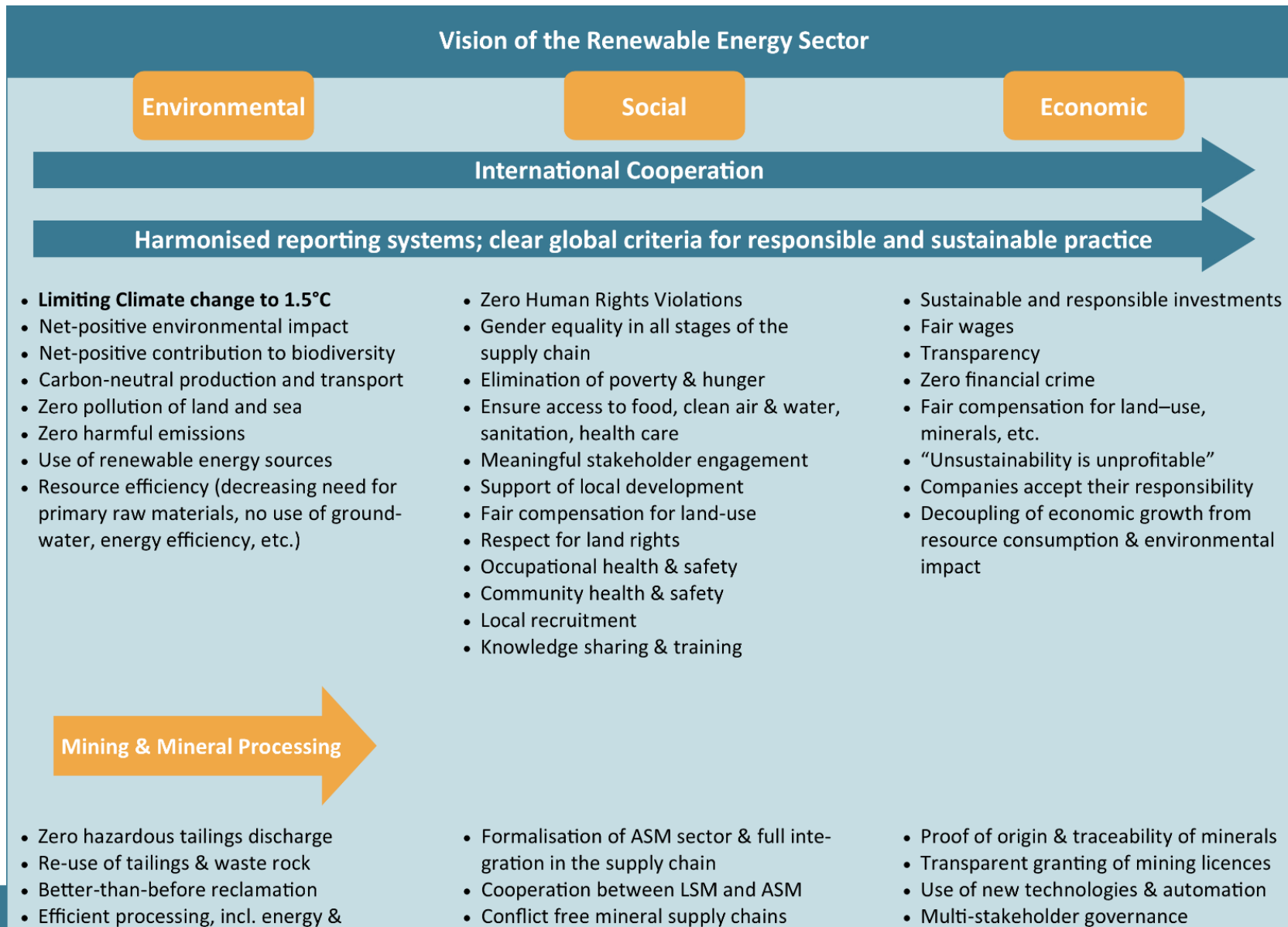
Flagship Lab

Good Practice
Examples to support
the implementation of
responsible sourcing

Consultation Process

- Series of 5 webinars
- Expert interviews
- Written feedback

Roadmap &
Good Practice
Guidance



VISION FOR THE RENEWABLE ENERGY SECTOR



RESPONSIBLE PROCUREMENT
Copper, Silicon, Rare Earth Elements



Transparency and Traceability



LEVEL PLAYING FIELD

RECOMMENDATIONS FOR POLICY MAKERS, INDUSTRY, CIVIL SOCIETY

2050

2040

2030

2025

STATE OF PLAY



CIRCULAR ECONOMY & DECREASED RESOURCE CONSUMPTION

Take back Programmes for Solar PV & Wind Turbines



PARIS AGREEMENT & ENVIRONMENTAL SUSTAINABILITY

Net zero Emissions
Net positive Contribution to Biodiversity
100% Renewable Energy



SOCIAL SUSTAINABILITY & RESPONSIBLE PRODUCTION

Local & regional Development, Stakeholder Engagement

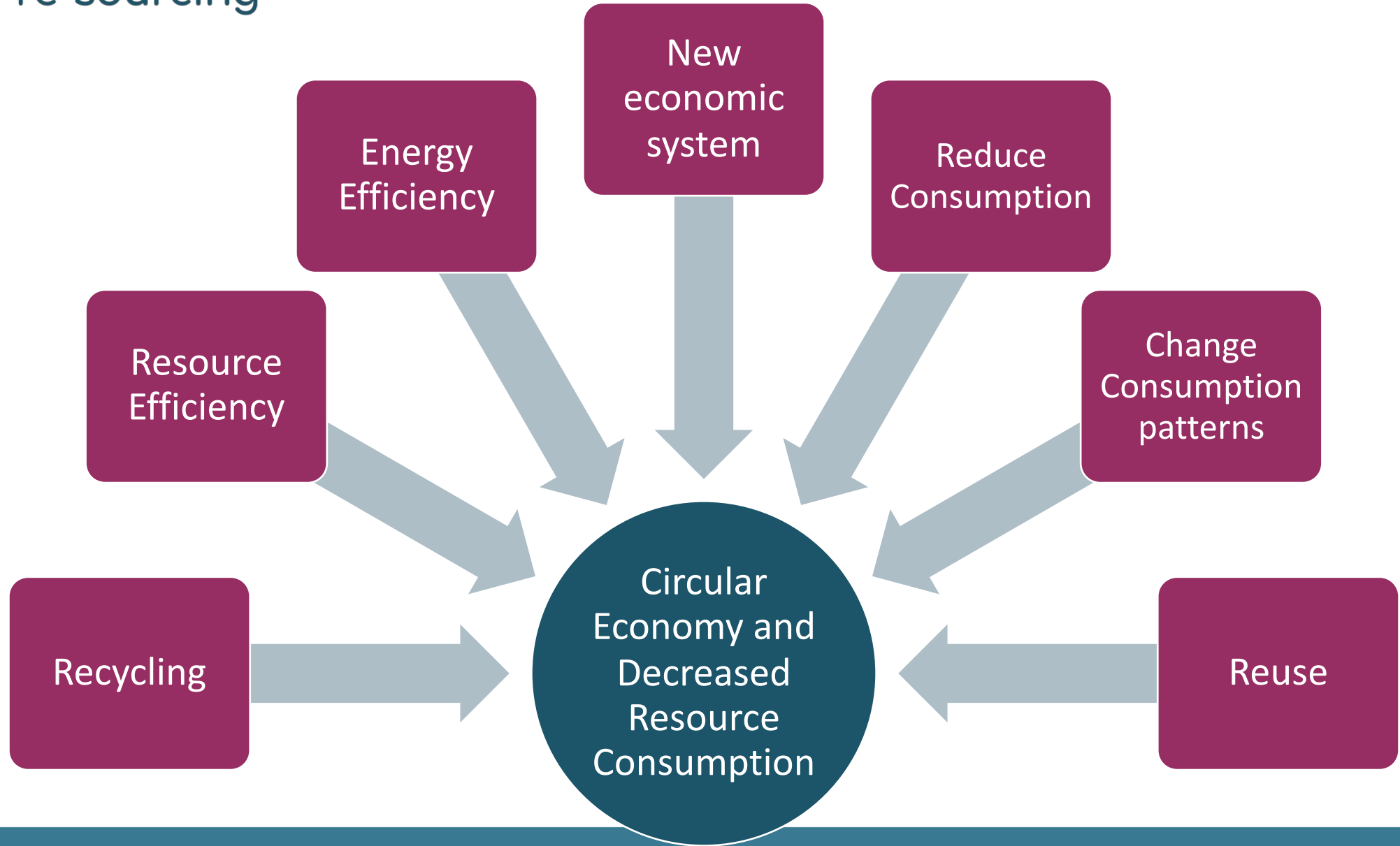


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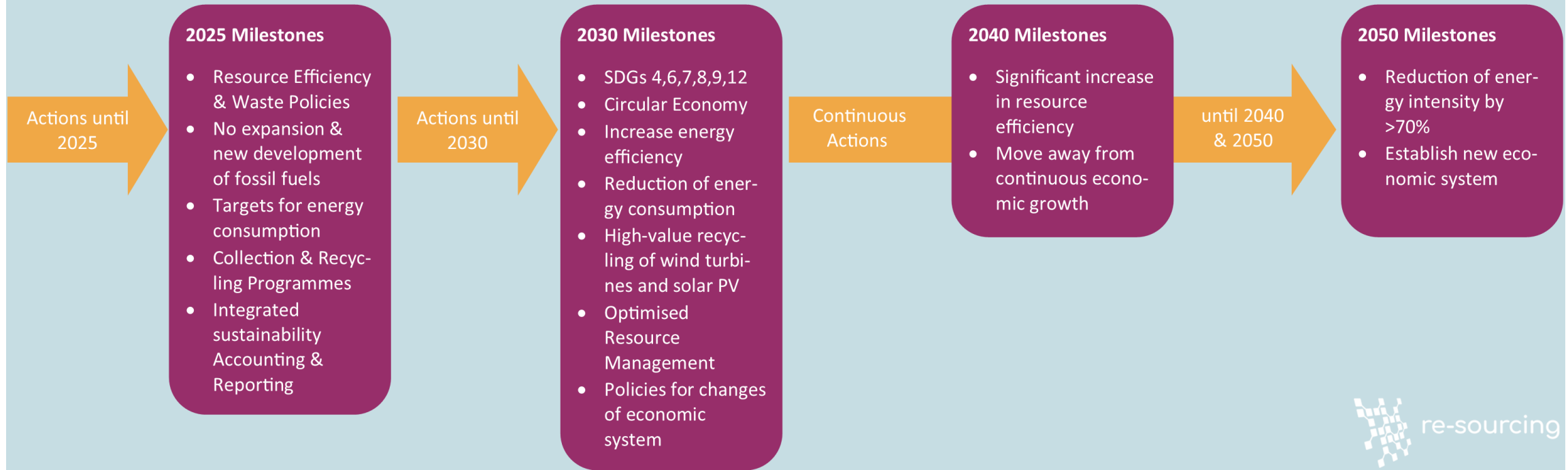
Target 1: Circular Economy & Decreased Resource Consumption

Main Aspects:

- Resource Efficiency
- Recycling & Reuse
- Change of consumption patterns



Circular Economy & Decreased Resource Consumption



Recommendations

Policy Makers

Manufacturing:
Introduce eco-design policies for solar PV and wind turbines

Recycling:
Support recycling activities and create market for secondary raw materials

Industry

Mining:
Continuous fleet modernization for electrification and decreased energy intensity

Manufacturing:
Improve collaboration between supply chain stages, research and academia to substitute unrecyclable materials

Civil Society

NGOs:
Increase awareness of the impact of consumption patterns & possible alternatives

Cooperation with policy makers to jointly develop resource efficiency measures & communicate to public

Research & Academia

Development of new & advancing existing technologies focusing on reduction of resource and energy use

Consider eco-design from the very beginning of technology development

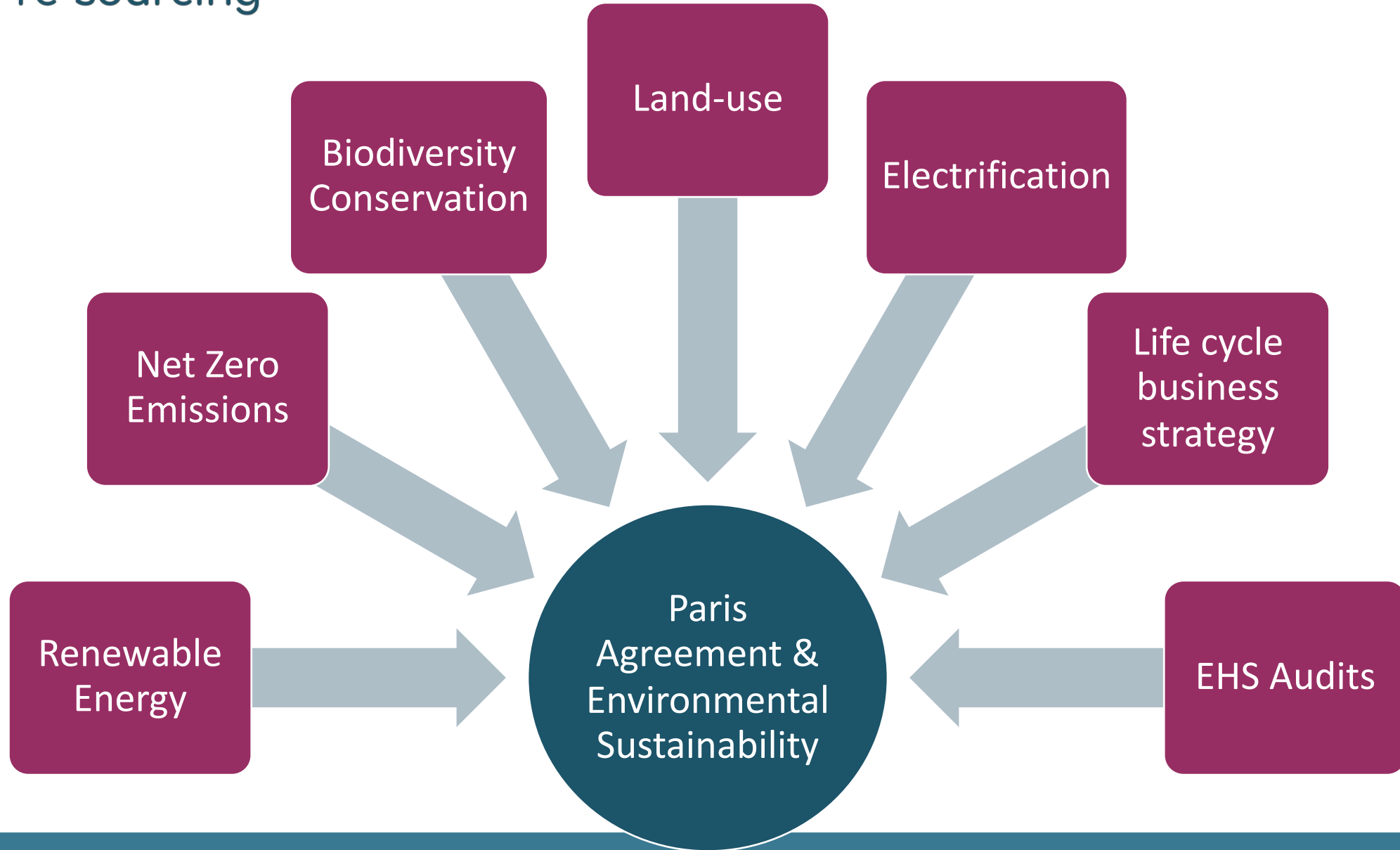
Further interdisciplinary cooperation

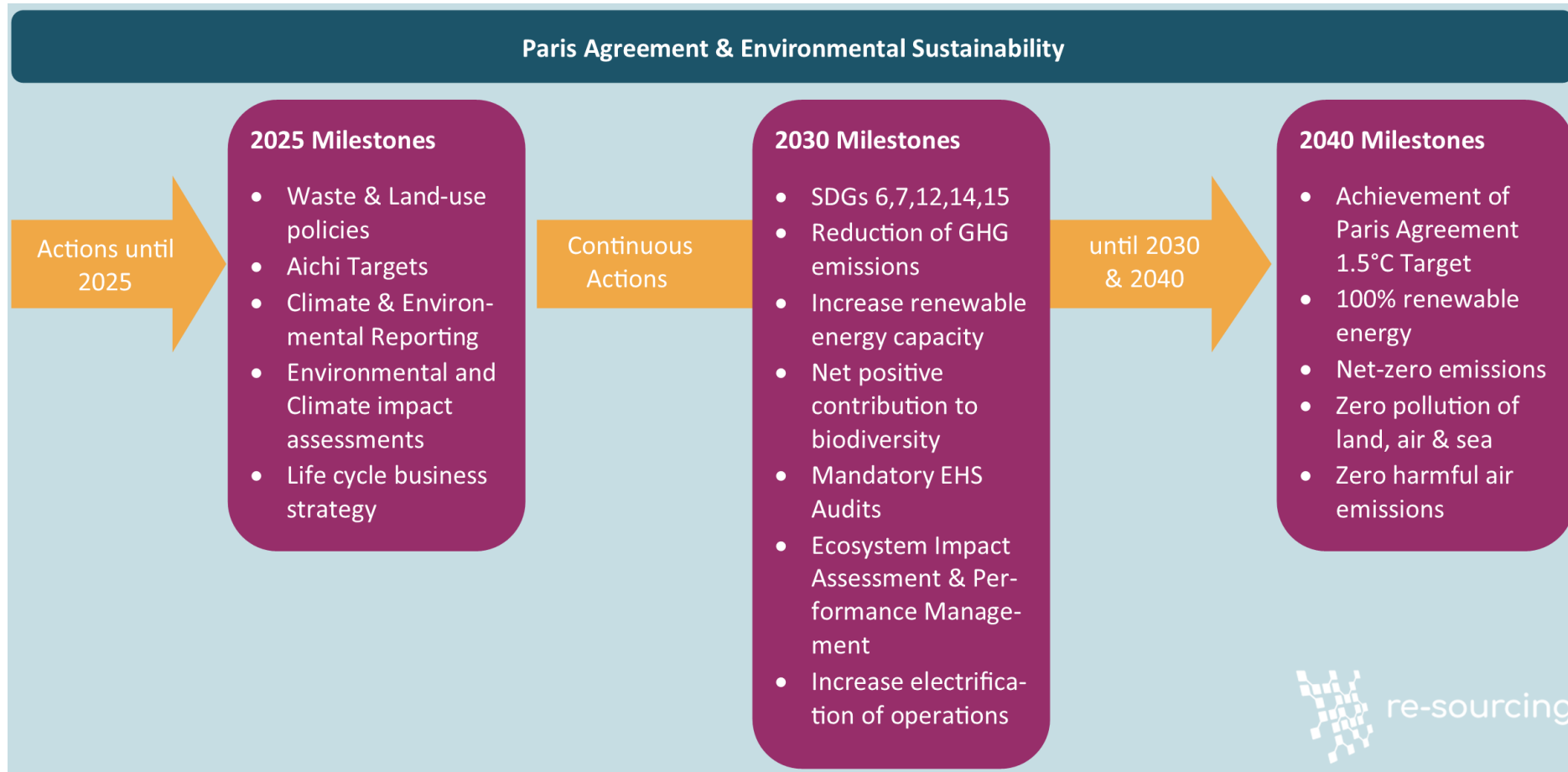
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Target 2: Paris Agreement & Environmental Sustainability

Main Aspects:

- Expansion of Renewable Energy
- Net-zero emissions
- Environmental protection/Biodiversity conservation







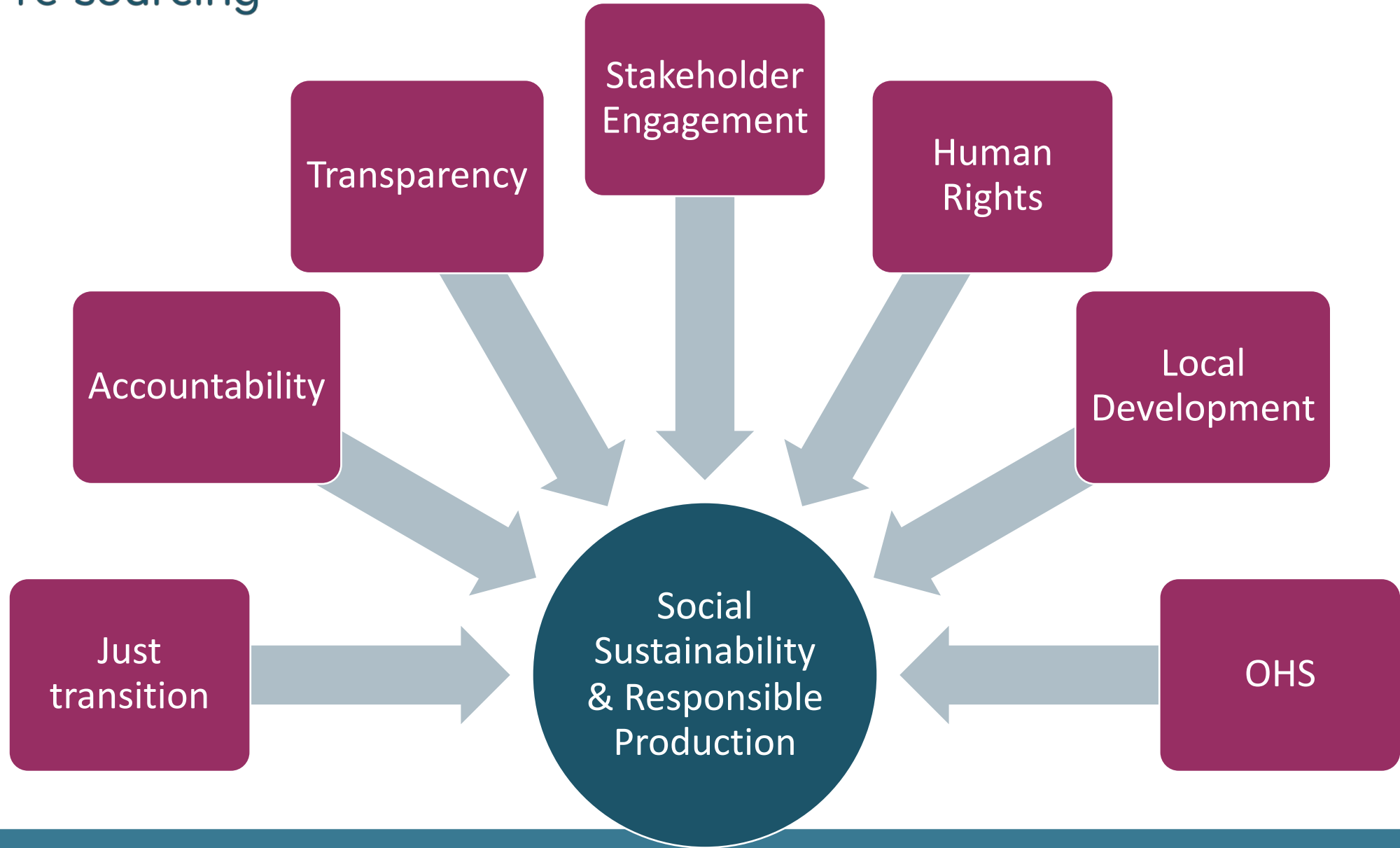
Source:
Wien Energie 2020

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Target 3: Social Sustainability & Responsible Production

Main Aspects:

- Energy Justice
- Occupational Health & Safety
- Meaningful Stakeholder Engagement







Good Practice Recommendations

Good Practice Recommendations for a consultative approach to designing national mining policies

Create a step by step participatory and inclusive approach to establish a vision, goals, and indicators for the mining policy. Draft a live memory/live document that is continuously amended during the consultative stages to keep track of the overall process of the consultation.

Take an approach that is open to input, critique and suggestions and presents an objective way of engaging with different stakeholders and their interests, regardless of background.

The design and use of different participatory formats (round tables, online and territorial consultations, technical working groups) to enable nationwide participation.

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Target 4: Responsible Procurement

Main Aspects:

- Mandatory supply chain due diligence
- Transparency of mineral supply chains
- Resilient supply chains



Responsible Procurement

Actions until
2025

2025 Milestones

- Standard for tracing raw materials
- Include Supply Chain Due Diligence in all Trade Agreements
- Resilient supply chains

Continuous
Actions

2030 Milestones

- Achievement of SDGs along Supply Chain
- Supply Chain Due Diligence Law
- Zero financial crime
- Local & Regional Development

until 2030
& 2040

2040 Milestones

- Mandatory Supply Chain Due Diligence for all international actors



Recommendations

Policy Makers

Mining:

Enable responsible mining in Europe, no more 'burden-shifting'

Manufacturing:

Raw materials and products imported from outside the EU need to fulfil the same sustainability requirements as operations inside the EU

Policy Makers

General:

- Implement supply chain due diligence law, mandatory for all international players
- Implement respective control mechanisms

Industry

General:

- Assess and understand strategic vulnerabilities of companies' supply chains
- Decrease GHG emissions along a company's supply chain by introducing tailor-made climate protection projects

Industry

Manufacturing:

Take decisive action against modern slavery and forced labour in the supply chains of solar PV and wind turbines

Mining:

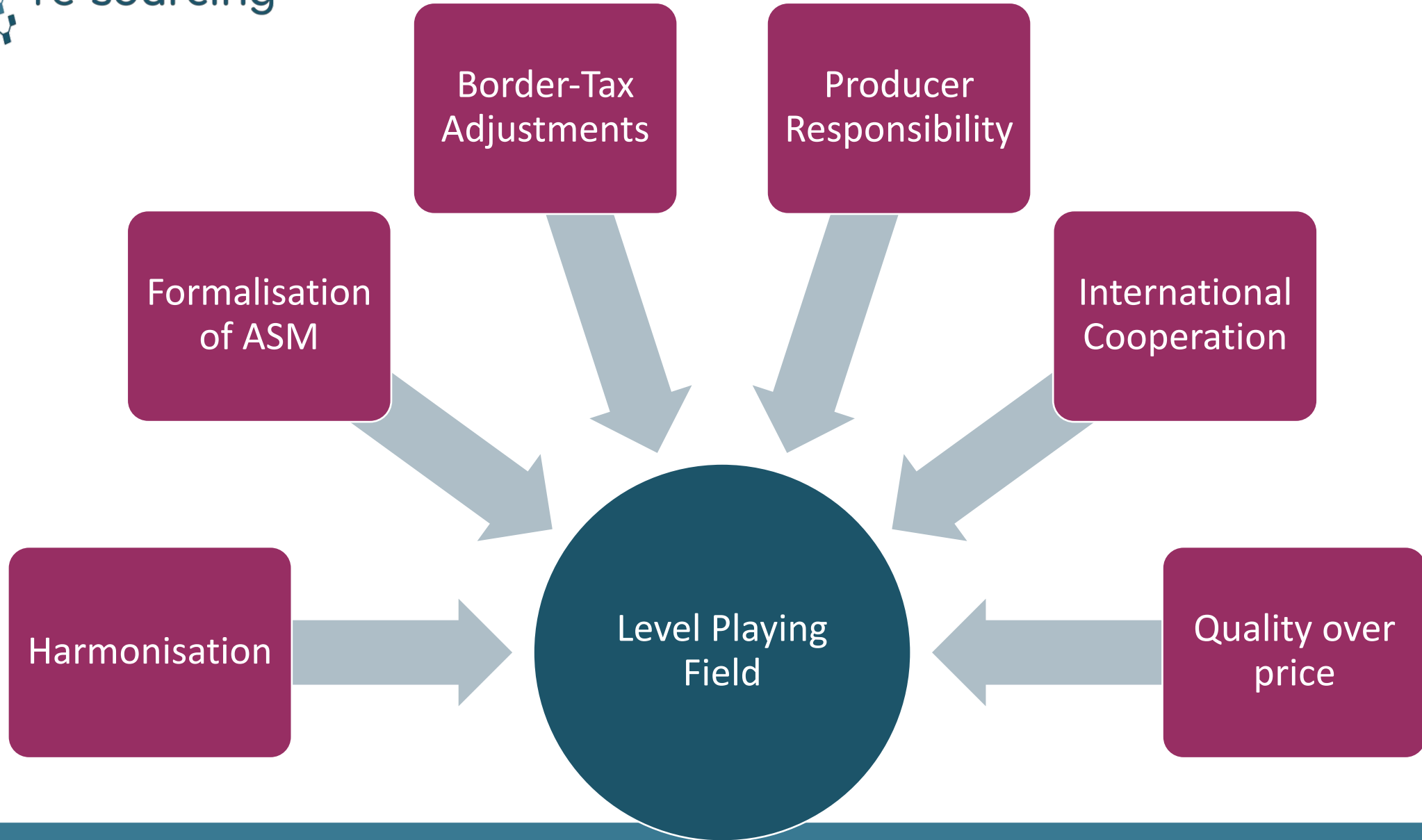
Support local procurement

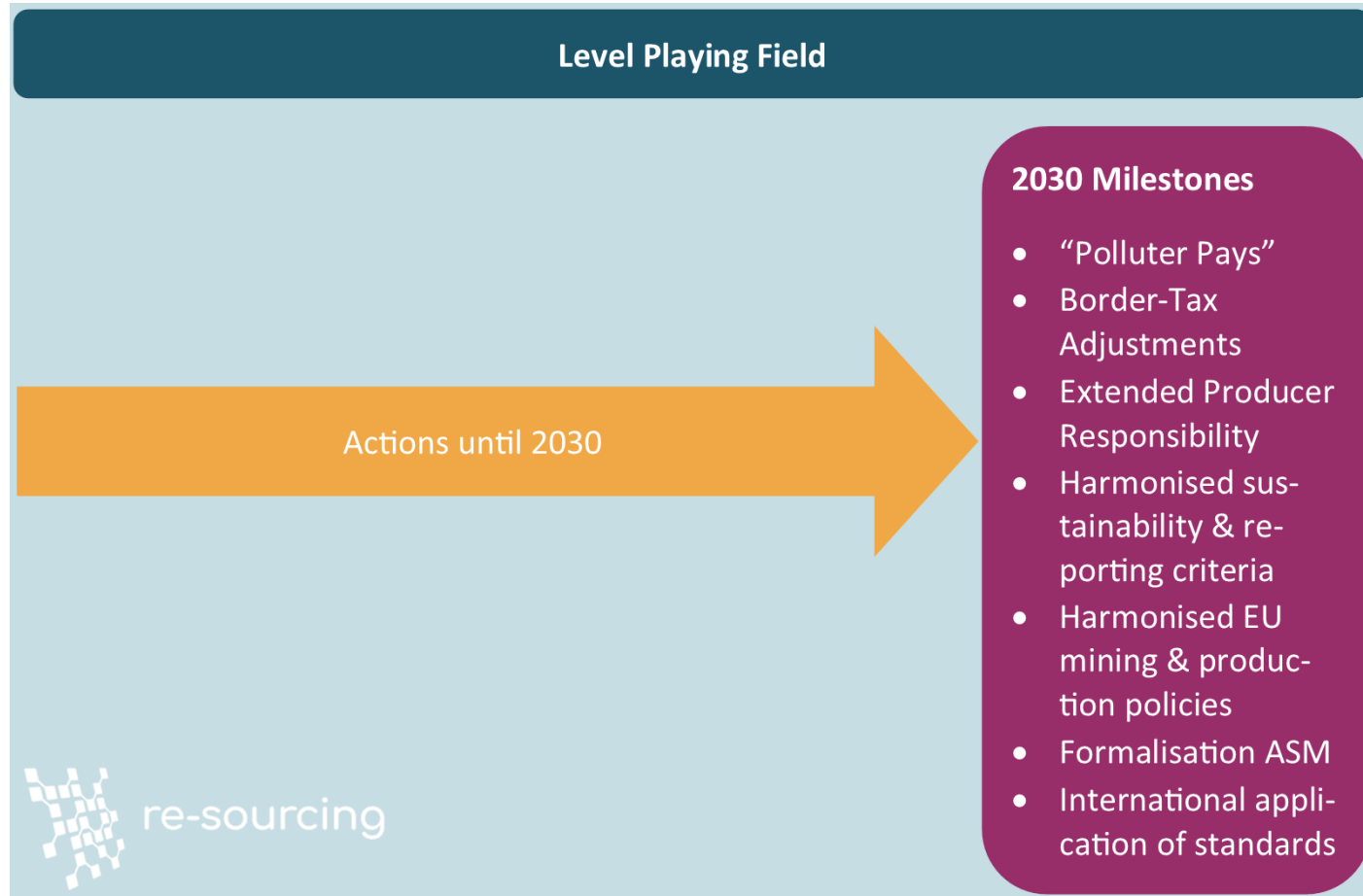
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Target 5: Level Playing Field

Main Aspects:

- Harmonisation of standards
- Integration of ASM
- International collaboration & development







Recommendations

Policy Makers

Mining:

Strengthen international cooperation to develop harmonised mining standards for responsible extraction

Manufacturing:

Goods manufactured with higher social and environmental standards should be preferred over others (e.g., lower taxes)

Industry

General:

International application of environmental and social standards

Civil Society

International NGOs:

Act as a mediator and independent advisory board in negotiations between countries

Professional Organisations:

Support information of public about profession & related industries

International Organisations (OECD, UN, ILO, etc.)

- Support the development of an international judiciary for companies
- Continue to provide frameworks for responsible behaviour by companies



Additional Information

- Please check out our homepage – Project Outputs
 - State of Play Report
 - Good Practice Guidelines
 - Roadmap
 - Briefing Docs
- **Outlook**
 - Roadmap & Guidance Document Mobility
 - Workshops & Consultations Electronics

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THANK YOU
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