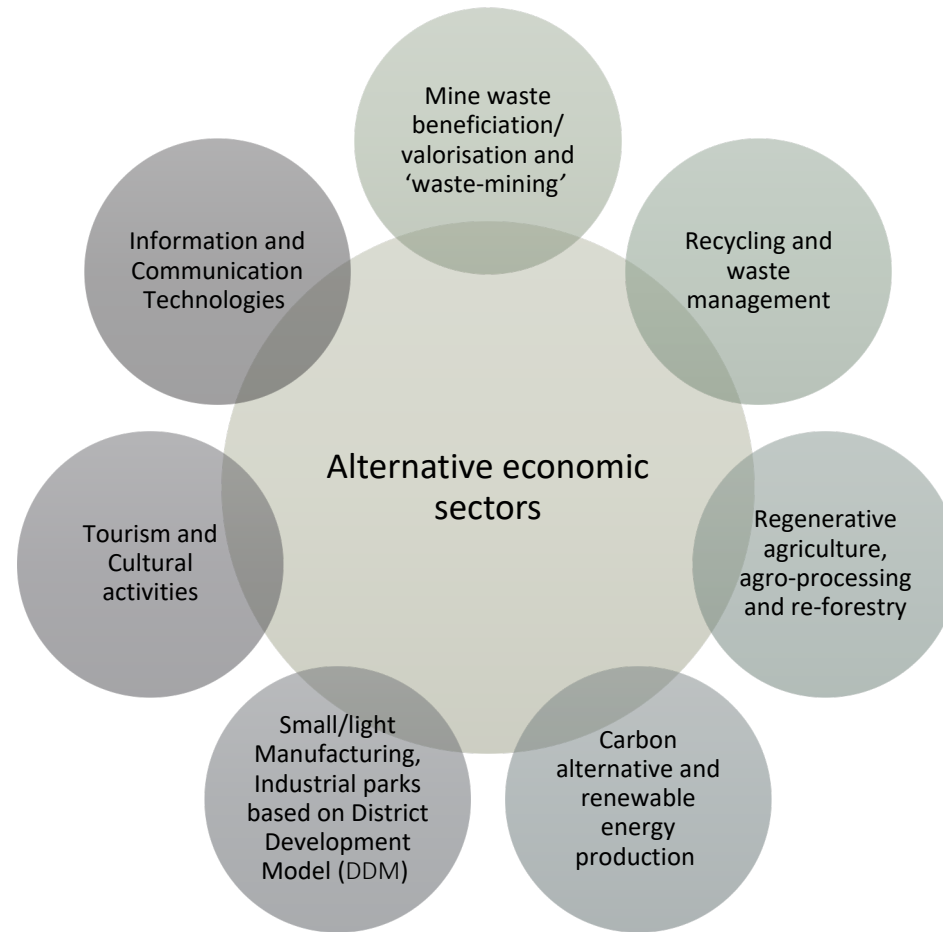


# ALTERNATIVE ECONOMIES

Desktop and stakeholder engagement revealed that the following as the most prevalent alternative economies for mining industry communities.





# SKILLS NEEDS FOR ALTERNATIVE ECONOMIES

The relevant alternative economies identified in the research require the following skills and social needs for success.

	Mine waste beneficiation and 'waste-mining'	Recycling	Regenerative agriculture, agro-processing and re-forestry	Carbon alternative and renewable energy production	Small/Light Manufacturing, Industrial parks- based on District Development Model	Tourism and Cultural attractions	ICT (Information and Communication Technologies)
Portable soft skills	<ul style="list-style-type: none"><li>• Education attainment</li><li>• Analytical skills</li><li>• Communication skills</li><li>• Decision-making skills</li><li>• Soft/leadership skills</li></ul>	<ul style="list-style-type: none"><li>• Education attainment</li><li>• Written and verbal communication skills</li><li>• Problem-solving skills</li><li>• Interpersonal skills</li><li>• Problem-solving skills</li><li>• Project management skills</li></ul>	<ul style="list-style-type: none"><li>• Education attainment</li><li>• Analytical skills</li><li>• Interpersonal skills</li><li>• Problem-solving skills</li><li>• Management skills</li><li>• Teamwork</li><li>• Conflict resolution/management</li></ul>	<ul style="list-style-type: none"><li>• Education attainment</li><li>• Supervisor development</li></ul>	<ul style="list-style-type: none"><li>• Education attainment</li><li>• Leadership skills</li><li>• Coaching and Mentorship</li><li>• Business management</li><li>• Entrepreneurial skills</li></ul>	<ul style="list-style-type: none"><li>• Education attainment</li><li>• Communication skills</li><li>• Leadership skills</li><li>• Interpretation skills</li><li>• Organisational skills</li><li>• Networking skills</li><li>• Customer service skills</li><li>• Cultural awareness</li><li>• Language skills</li></ul>	<ul style="list-style-type: none"><li>• Education attainment</li><li>• Analytical skills</li><li>• Written and verbal communication skills</li><li>• Leadership skills</li><li>• Problem solving skills</li></ul>

[illegible]



# SKILLS NEEDS FOR ALTERNATIVE ECONOMIES

The relevant alternative economies identified in the research require the following skills and social needs for success.

	Mine waste beneficiation and 'waste-mining'	Recycling	Regenerative agriculture, agro-processing and re-forestry	Carbon alternative and renewable energy production	Small/Light Manufacturing, Industrial parks- based on District Development Model	Tourism and Cultural attractions	ICT (Information and Communication Technologies)
Specialised technical skills	<ul style="list-style-type: none"><li>• Skills for mining beneficiation</li><li>• Waste management skills</li><li>• Training in machine operations</li></ul>	<ul style="list-style-type: none"><li>• Agricultural skills</li><li>• Biodiversity management</li><li>• Water management</li><li>• Land management</li><li>• Heavy-equipment operating skills</li></ul>	<ul style="list-style-type: none"><li>• •Future mining skills</li><li>• Soil monitoring and measuring skills</li><li>• Land management</li><li>• Water management</li></ul>	<ul style="list-style-type: none"><li>• Engineering</li><li>• Installation skills</li></ul>	<ul style="list-style-type: none"><li>• Technical equipment/operational skills</li><li>• Digital fluency</li><li>• Programming</li><li>• Good manufacturing practices</li></ul>		<ul style="list-style-type: none"><li>• Basic ICT knowledge and skills</li><li>• Digital literacy</li><li>• Digital strategy skills</li><li>• Computer software skills</li></ul>

# SOCIAL NEEDS FOR ALTERNATIVE ECONOMIES

	Mine waste beneficiation and 'waste-mining'	Recycling	Regenerative agriculture, agro-processing and re-forestry	Carbon alternative and renewable energy production	Small/Light Manufacturing, Industrial parks- based on District Development Model	Tourism and Cultural attractions	ICT (Information and Communication Technologies)
Social needs	<ul style="list-style-type: none"> <li>Establishing diverse sources of employment</li> <li>Health/Medical services</li> <li>Water treatment</li> <li>Uncontaminated land/housing</li> <li>Education and awareness/educational &amp; training facilities</li> <li>Mine-waste facilities</li> </ul>	<ul style="list-style-type: none"> <li>Recycling resources such as equipment needed for recycling (metal mining and exploration equipment)</li> <li>Safety/Appropriate clothing (masks, gloves, overalls, closed boots, etc.)</li> <li>Ablution facilities (provisions for temporary toilets, clean drinking water facilities, etc.)</li> <li>Recycling centres</li> <li>Buy-back centres</li> <li>Drop-off centres</li> <li>Recycling awareness and educational programs</li> <li>Logistics and infrastructure</li> <li>Scrap treatment</li> <li>Health facilities</li> </ul>	<ul style="list-style-type: none"> <li>Agricultural advisory services</li> <li>Rural finance</li> <li>Agricultural technology</li> <li>Small-scale irrigation facilities</li> <li>Rural enterprise development</li> <li>Animal health services</li> </ul>	<ul style="list-style-type: none"> <li>Employment</li> <li>Educational awareness</li> <li>Health facilities and services</li> <li>Energy access</li> </ul>	<ul style="list-style-type: none"> <li>Development of integrated transportation infrastructure (on-site and off-site)</li> <li>Communications infrastructure</li> <li>Integrated utilities infrastructure</li> <li>Solid waste collections, transport and treatment facilities</li> <li>Water source development</li> <li>Wastewater treatment and recycling</li> <li>Development of knowledge, training and research support infrastructure</li> <li>Air quality monitoring system</li> <li>Health-care services and facilities/emergency services</li> <li>Logistics and parking centres</li> <li>Environmental permits/Compliance requirements and licenses</li> </ul>	<ul style="list-style-type: none"> <li>Tourism awareness training</li> <li>Tourism skills training</li> <li>Leadership and mentorship</li> <li>Tourism facilities</li> <li>Vehicles and licenses (Transportation)</li> <li>Compliance requirements</li> <li>Education and cultural awareness</li> <li>Financial resources</li> <li>Accommodation</li> <li>Employment</li> </ul>	<ul style="list-style-type: none"> <li>Internet Access/Connectivity</li> <li>Technological infrastructure (Phones, computers, connectivity facilities, etc.)</li> <li>ICT Awareness (especially in rural communities)</li> <li>Language of resources</li> <li>Online Access Centres</li> <li>Community centres</li> </ul>