



Managing a just transition in the coal value chain

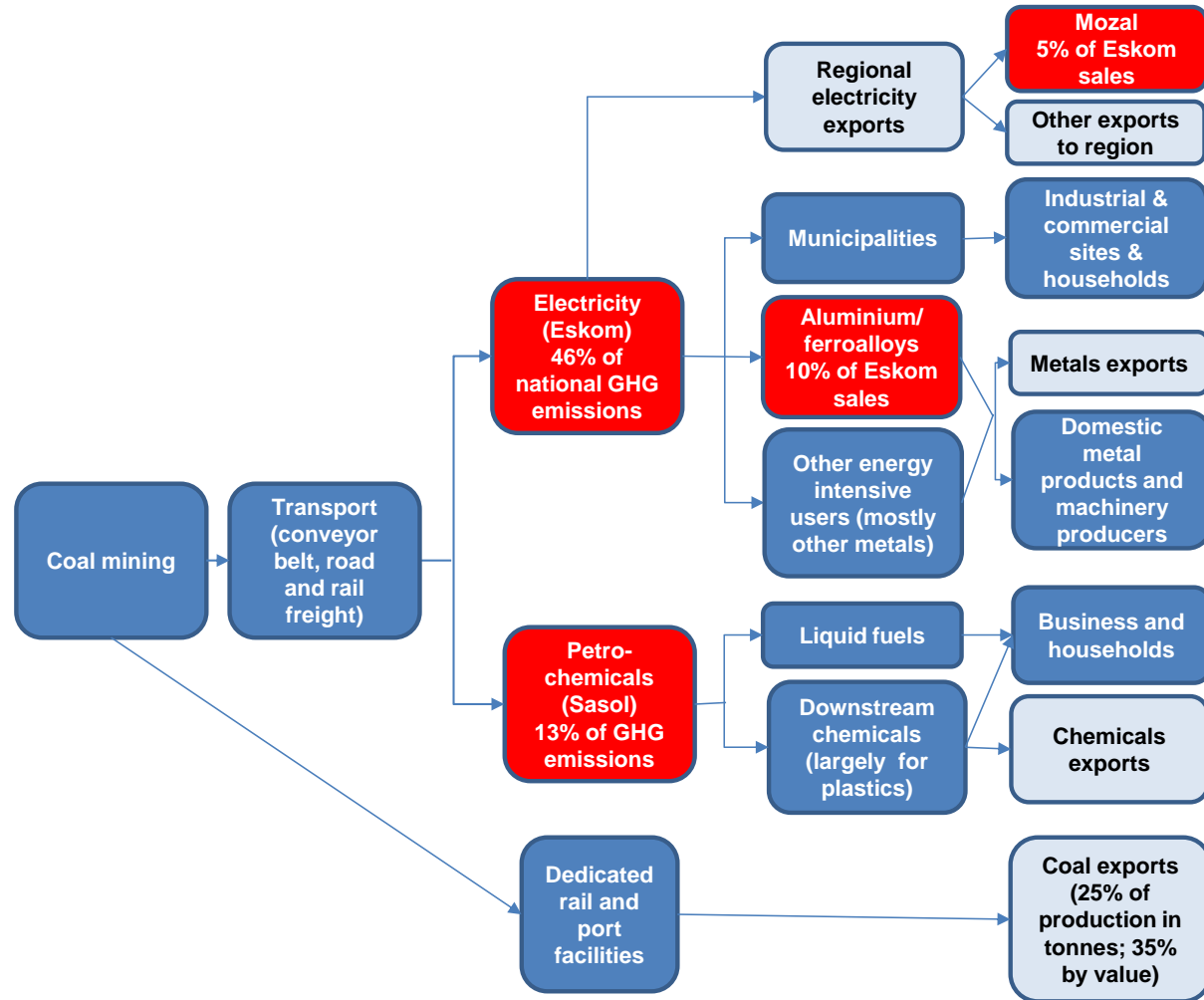
Input to PCC session on the just energy
transition

July 2021

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The coal value chain

- SA produces 7 times as much carbon from coal per person as the international average
- Coal accounts for over half of SA emissions but contributes around 5% of GDP
- Generates 80% of electricity and 20% of liquid fuels (through Sasol)
- Economic challenges:
 - Renewable technologies now out-compete on generation costs even without counting emissions – although can't ignore transition costs
 - Burdens on the economy from increasingly uncompetitive electricity system - soaring Eskom tariffs and loadshedding
 - Investors and financial institutions divesting from coal
 - Result: declining demand for coal in SA and even more in exports – with shift in rents on domestic sales to mines
 - Sasol less affected now but will face falling demand in coming years

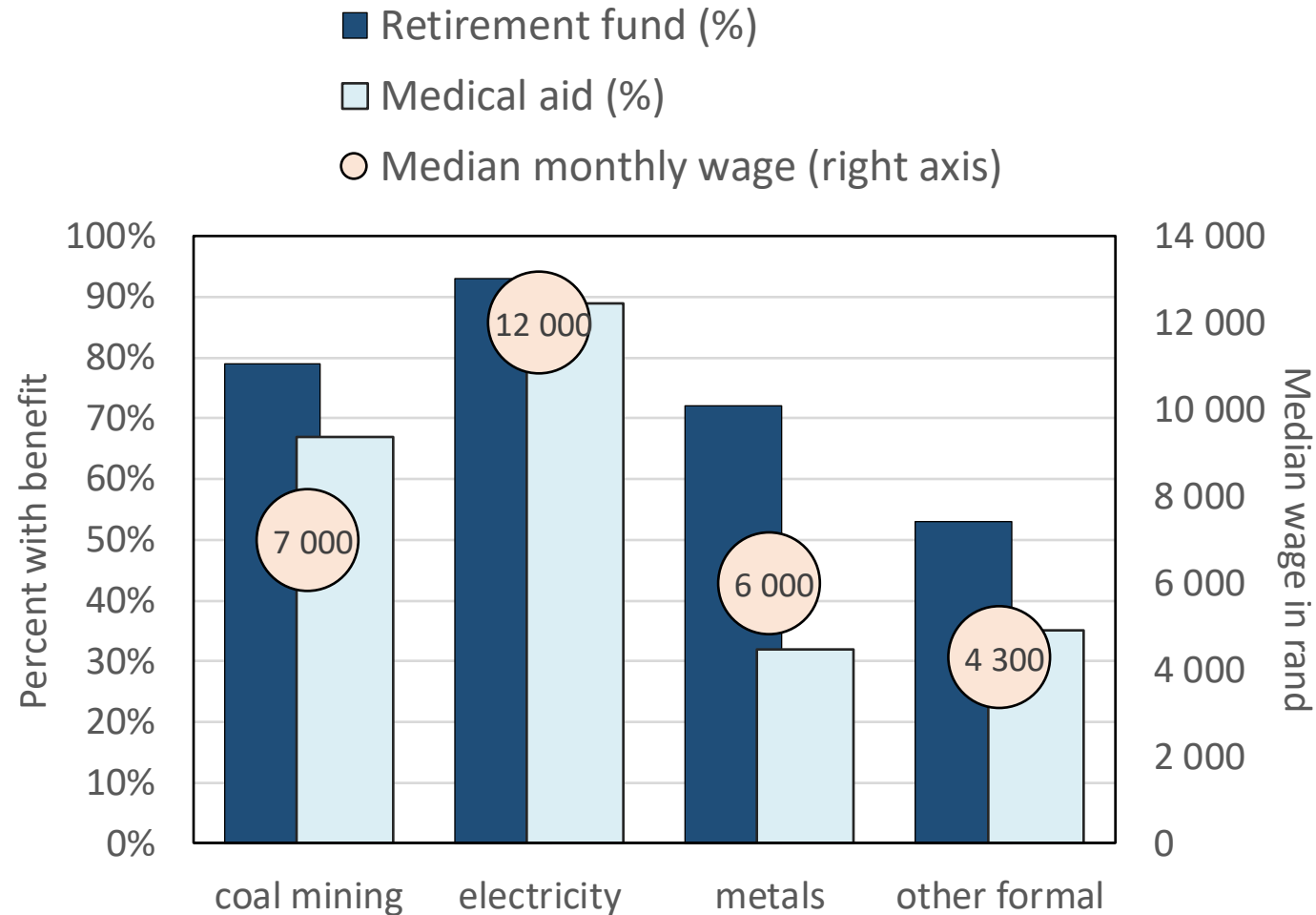


Why the just transition?

- Basic logic:
 - Creative destruction due technological change is unstoppable
 - Big business has resources to find alternative opportunities, although may have to write off some assets
 - Other groups do not have similar financial, social or educational resources
- Especially important in SA
 - Unusual inequalities in ownership, access to qualifications, and economic networks
 - Slow growth even before the pandemic
- Main questions:
 - Timeframes
 - Who should benefit
 - What are viable and sustainable opportunities, and what are blockages to them?
 - Measures to realise opportunities
 - How to ensure coordinated action in the state and with stakeholders?
 - Resourcing
- 2020 SJRP identifies main groups requiring assistance as:
 - Workers
 - Small business
 - Communities
- Coal VC is mostly capital intensive, so numbers are limited
 - Only 1,5% of formal employment (around 200 000 people, with almost half in mining)
 - Relatively few small businesses in the VC itself (mostly transport companies, some repairs and maintenance, some professionals)
 - More serve the communities that depend on coal
- Spatially concentrated – coal VC is the main source of income in four Mpumalanga districts:
 - eMalahleni (Witbank)
 - Steve Tshwete (Middelburg)
 - Govan Mbeki (Secunda)
 - Msukaligwa (Ermelo)

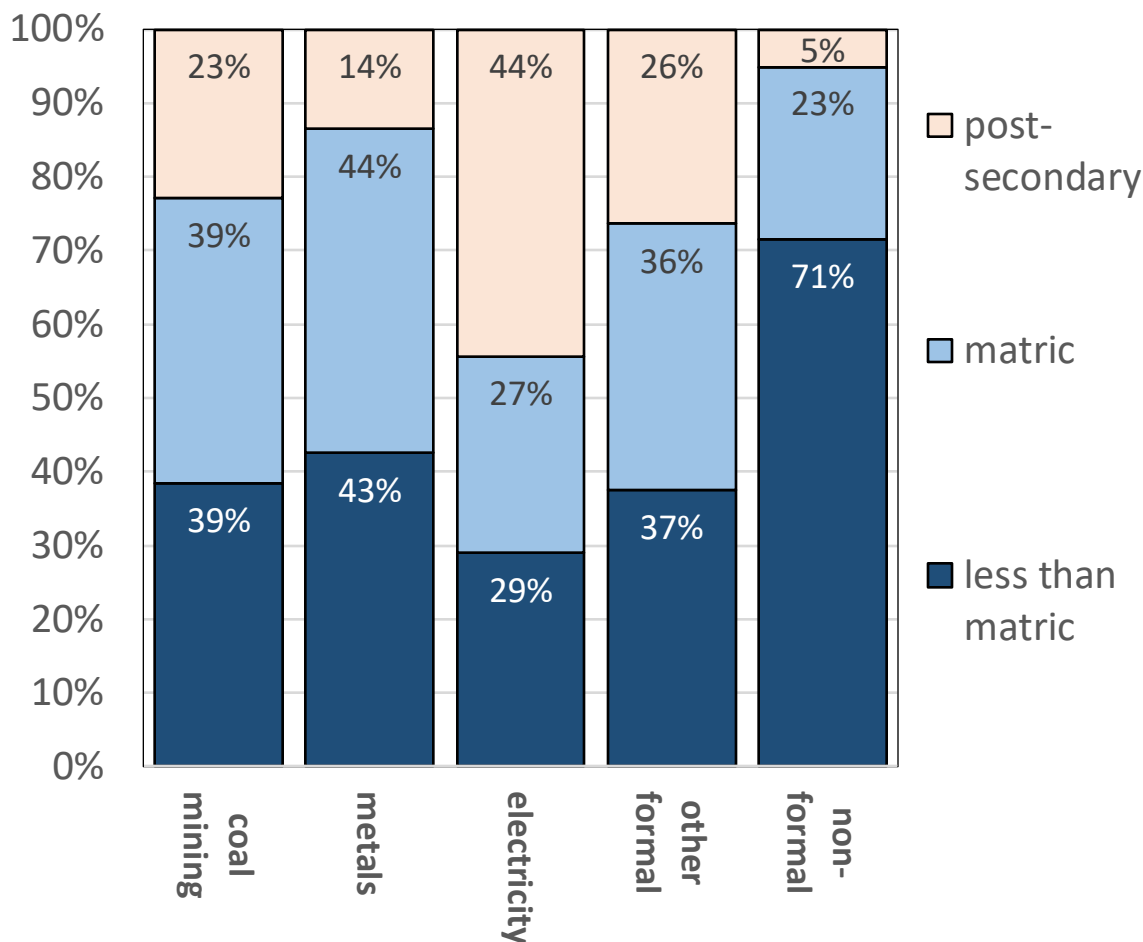
Employees: Financial resources

- Mines: 90,000
- Eskom: 47,000
- Sasol: 25,000
- Base metal refineries: 47,000 (down from over 70,000 in 2008)



Employees: Educational and social resources

- Educational levels in the coal VC are around national norm for formal sector, although pay is higher
- Union organisation:
 - 65% in coal mining
 - 80% in electricity
 - 40% in metals
 - 35% for other formal workers
- Around a fifth are aged over 50 – the same as the rest of the formal sector
- Gender:
 - A fifth in coal value chain
 - two fifths in the rest of the formal sector
 - almost half in informal + domestic work
- % African:
 - 80% of miners
 - 70% in the rest of the value chain
 - 70% in the rest of the formal sector
 - 90% in domestic + informal work

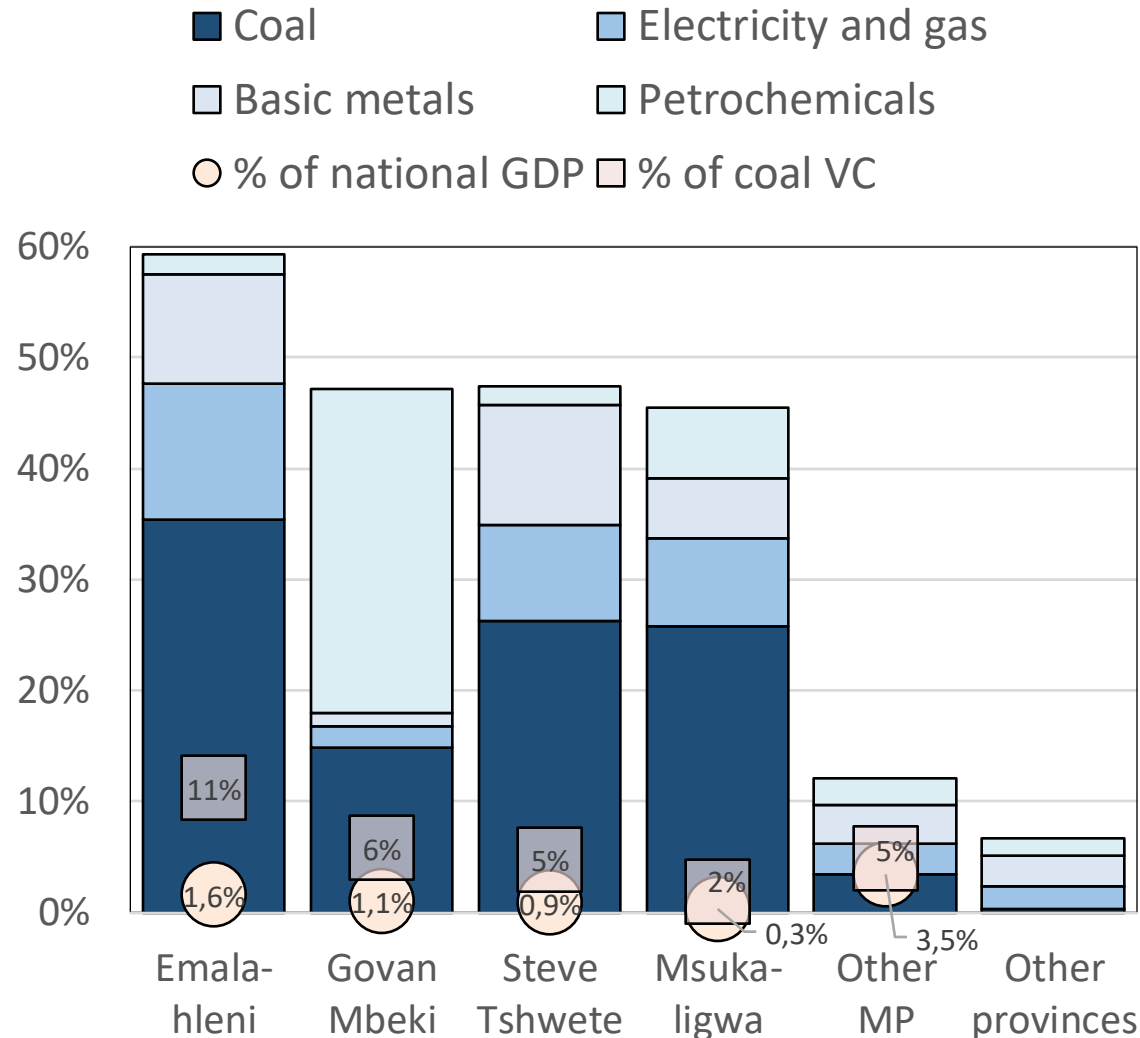


Coal truckers

- Wide variation in estimates of numbers
 - Eskom estimated 1500 subcontractors transported coal to plants in the mid-2010s
 - In March 2020 Eskom had contracts with 54 companies
- Engagement with coal transporters in 2019:
 - 200 companies, 2000 to 4000 workers
 - Hard to move into other kinds of freight because of configuration of trucks
 - Also harder to get long-run contracts in current Mpumalanga environment

Communities

- In four Mpumalanga towns, coal value chain contributed around half of economy in 2019 (Quantec estimates) and over a quarter of formal employment
- Coal towns account for around 4% of national GDP and 2% of population, but 25% of coal VC
- Average household income: 25% above national average (was 35% higher in 2000; biggest fall in Emalahleni)
- Share of working-aged population with formal employment in 2019:
 - Coal towns: 37%
 - Rest of SA: 32%



Initial challenge: Foresighting impacts

- Policy on reducing emissions has not been translated into consistent actions
 - Even IRP not consistently implemented (e.g. procurement plans, Musina Makhado plant)
 - Carbon pricing and budgets not finalised
 - Result: Unclear planning timeframes
- Governance of the coal value chain is fragmented
- Main regulatory departments do not have mandate to drive just transition

National departments	State-owned agencies	Mpumalanga and Limpopo	Municipalities
DMRE: Regulate mining; IRP; electricity market structure; IPP procurement	Eskom: Manage and supply the national grid; transmission lines and purchases from IPPs; pricing subject to NERSA	Promote economic development vision, but limited resources or powers; manage SEZs	LED, but mostly focused on infrastructure provision; manage municipal budgets and local infrastructure provision
dtic: IDC and incentives; SEZs (Musina Makhado); BBBEE			
DFFE: Emissions targets; regulate pollution; promote just transition			
NT: Subsidies to Eskom; carbon and mining taxes	Transnet: Coal transport to ports and power stations		

SJRP proposals

- **Implementation capacity**

- Clarify mandates and KPIs across government structures in the coal VC
- Strengthen SLP and accountability
- Agency able to drive process across government functions
 - Requires capacity, resourcing and authority
 - Risk management is critical for innovation
 - How to ensure accountability and voice for stakeholders, especially workers and communities?

- **Economic diversification**

- 10-year time horizon
- Identify viable and sustainable clusters and position in major value chains
 - Build on strengths of the Vaal triangle (capacity, infrastructure, proximity to major markets)
 - But be aware of obstacles to diversification (sunk investments; unequal access to assets and skills, infrastructure, land and water; risk aversion; government licencing and infrastructure)
- Test options in terms of both viability and impacts on workers and communities
- Manage risks through monitoring and evaluation systems

- **Active labour market policies**

- Necessary but not sufficient given unusually high joblessness
- Assist individuals and small businesses with skills development and information about opportunities
- Start early rather than waiting for crisis
- Core risk: Cannot find equally stable and well-paid jobs or business opportunities for workers without post-secondary education

- **Social protection**

- Develop early warning systems
- Build on existing support systems, especially UIF and employment schemes

Some tough issues

- Targets and timeframes as basis for determining impacts on different stakeholders and planning transition
- Securing consistency across the state
- Empowering stakeholders without ignoring economic and technical realities
 - How to give voice and agency to marginalised? Requires space to engage but also adequate information sharing
 - How to shape a discourse of reason, not power?
- Managing risk of innovation – means accepting some losses, but ensuring that overall they are smaller than the costs of inaction



Re a leboha!