

Welcome

International perspectives and experiences

Platform for Coal Regions in Transition

#CoalRegionsEU



Just Energy Transition in Mpumalanga Province in South Africa

Working Group Platform on Coal Regions in Transition

October 2019





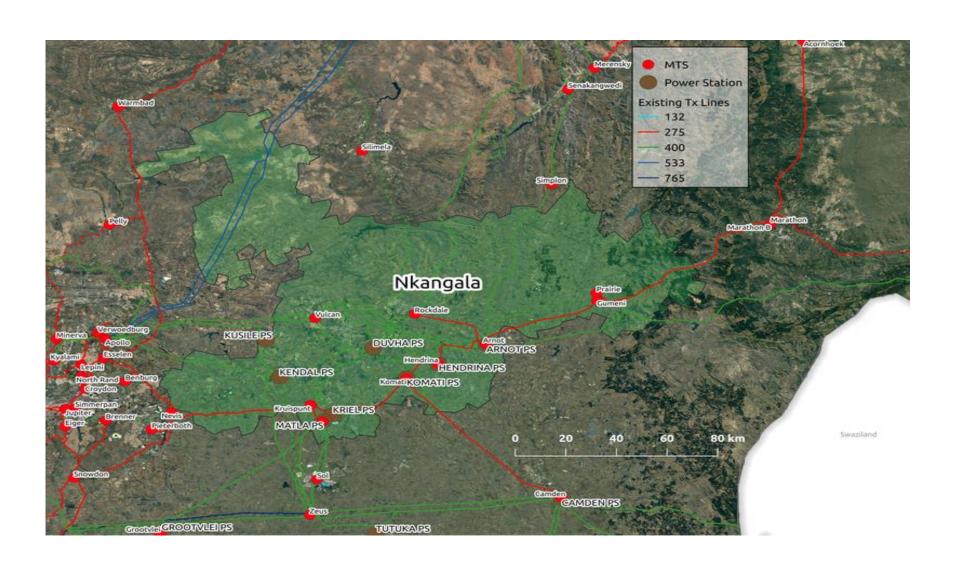
Legal Framework

- Constitution SA, 1996
- National Development Plan Vision 2030
- Mpumalanga Vision 2030
- Mpumalanga Growth & Development Path
- Mpumalanga Green Economic Development Plan
- Mpumalanga Climate Change Adaptation Strategy
- Mpumalanga Climate Change Mitigation Strategy (in progress)

Energy Transition Global Trends – 5Ds

- ✓ Decarbonisation
- ✓ Decentralisation
- ✓ Democratisation
- ✓ Digitisation
- ✓ Disruptor Technologies

Nkangala Economic Baseline Assessment



Why assess the Nkangala Economic Baseline?

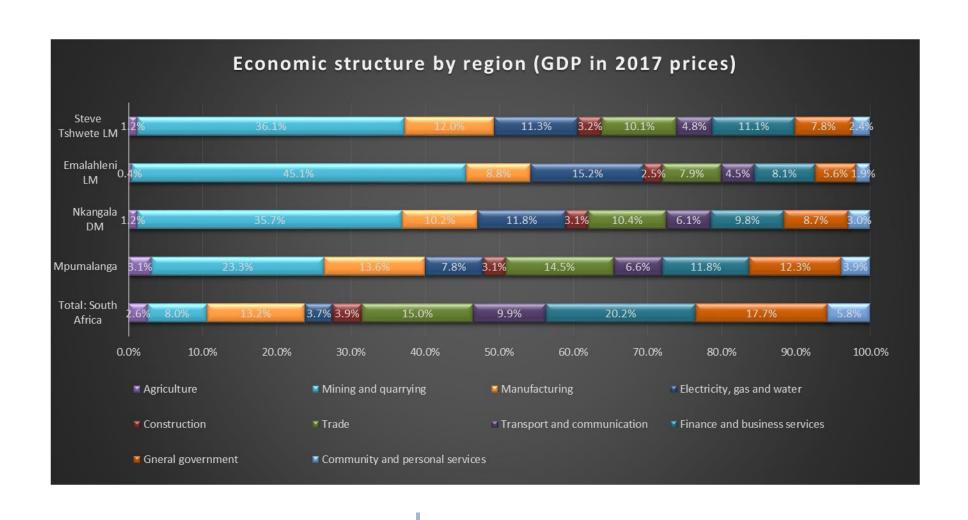
 The Nkangala District region is home the bulk of power stations and coal mines in South Africa. This poses a great threat to the regional economy if these stations were to close due to decommissioning

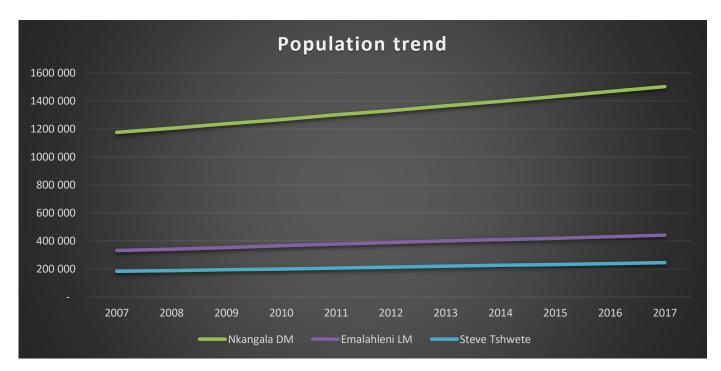
Power station	Technology	Status	Installed capacity MW	Decomissioning date
Arnot	Coal	existing	2220	2025-2029
Duvha	Coal	existing	3480	2030-2034
Hendrina	Coal	existing	1900	2021-2027
Kendal	Coal	existing	3840	2038-2043
Komati	Coal	existing	900	2024-2028
Kriel	Coal	existing	2880	2026-2029
Matla	Coal	existing	3480	2029-2033

Coal Fleet Decommissioning Plan

- ✓ The scenarios outlined in the IRP 2018 show little to no investment in further coal fired generation
- ✓ The plan also indicates a decommissioning schedule for the existing fleet due to its age

Year	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
MW Decommissioned	900	700	600	400	900	1600	1400	1900	1900	2300

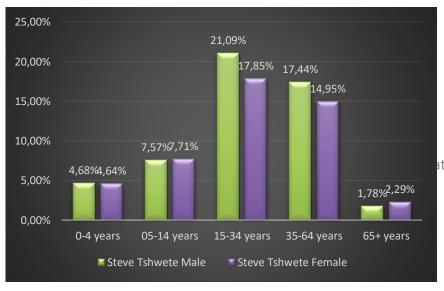


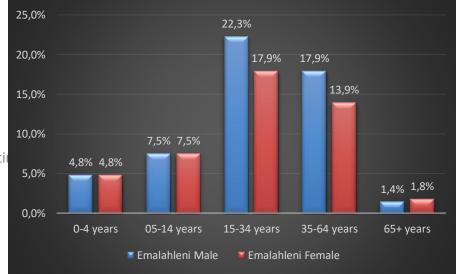


Over 1.5 million people live in the Nkangala District Municipality as of 2017

The district and local municipalities have shown a compound annual growth rate of 2.5% over the period 20072017

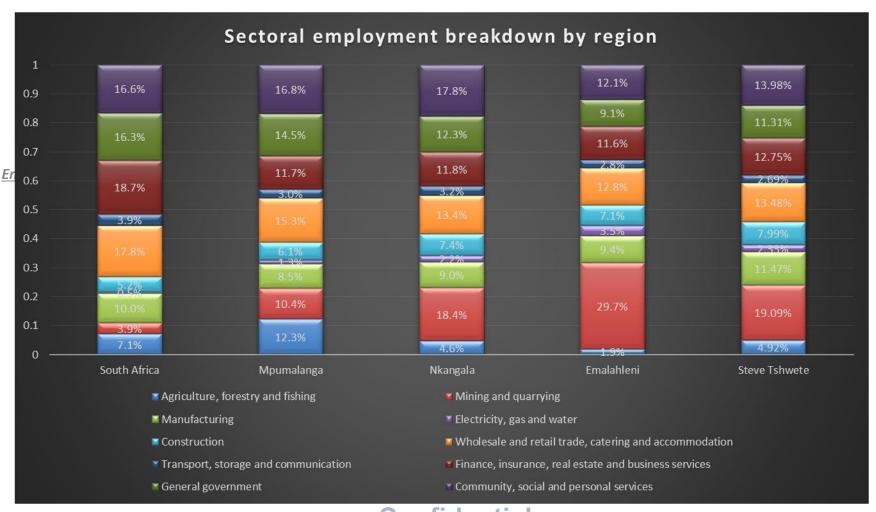
Demographics



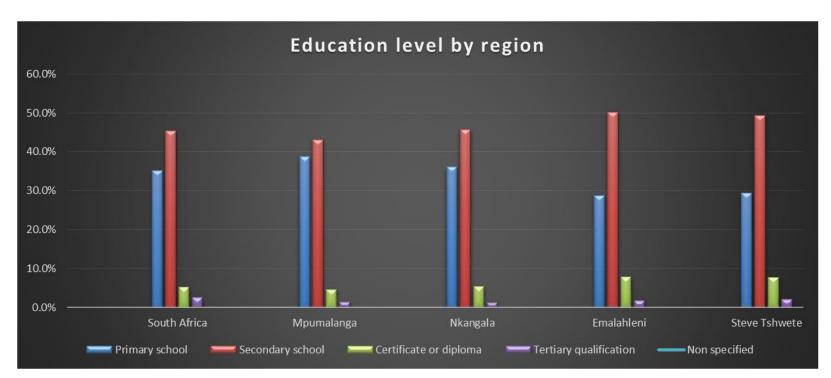


- ✓ Employment
- ✓ Over 1 million people are of working age and living in the district municipality.
- ✓ About 40% of these individuals are employed in the DM
- ✓ The unemployment rate of the DM stands at 32%
- √ The remaining 28% are not economically active
- ✓ The same trend can be seen within the Emalahleni and Steve Tshwete LM's

	Emalahleni	Steve Tshwete
Population: Working age	319 437	174 974
Employed %	49 %	54 %
Not economically active	22 %	25 %
Unemployment rate	29 %	21 %



Confidential



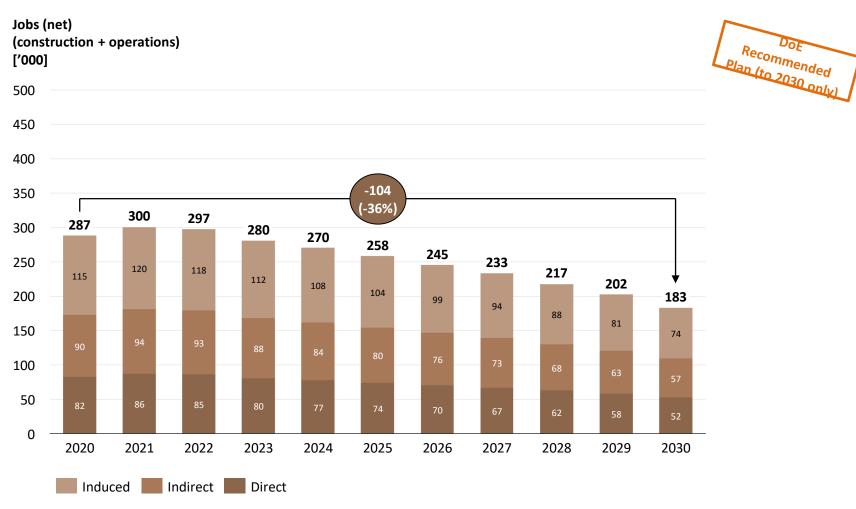
Education

The district and local municipalities have higher levels of secondary and diploma graduates when compared to provincial and national averages





Net job losses in coal overall of ≈100k, direct jobs in coal shifting from ≈80k in 2016 to ≈50k by 2030

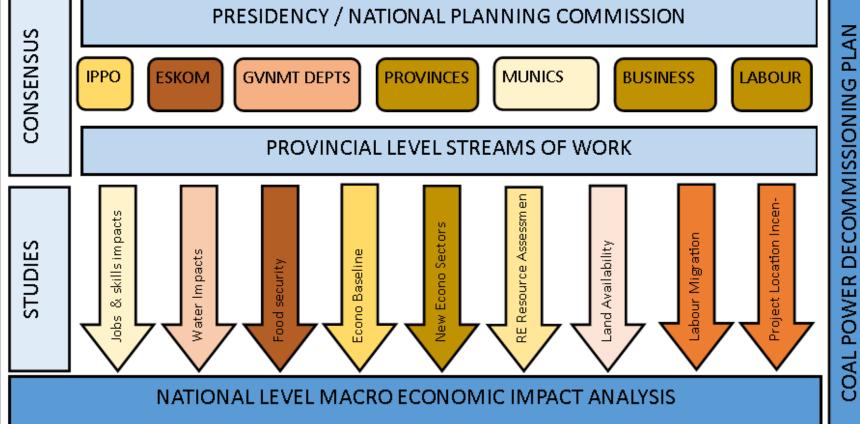


Challenges on Energy Transition

- ✓ Losses on Region Economic activities
- ✓ Losses in jobs and opportunities in mining and power sectors
- ✓ Labour migration
- ✓ Negative socio-economic impacts
- ✓ Loses of existing skills and lack skills required for new industry
- ✓ Lack of change of policies to include Renewables
- ✓ Limited Economic Diversification

JUST ENERGY TRANSITION ACTION PLAN COORDINATION PRESIDENCY / NATIONAL PLANNING COMMISSION

IRP 2019 NEW BUILD CAPACITY





JUST TRANSITION ACTION PLAN





THANK YOU DANKIE REA LEBOHA



HI NKHENSILE SIYATHOKOZA SIYABONGA











Transformation of coal regions: Recommendations for national authorities

Kostiantyn Krynytskyi
Ecoaction
Brussels, October 16th 2019

Structure

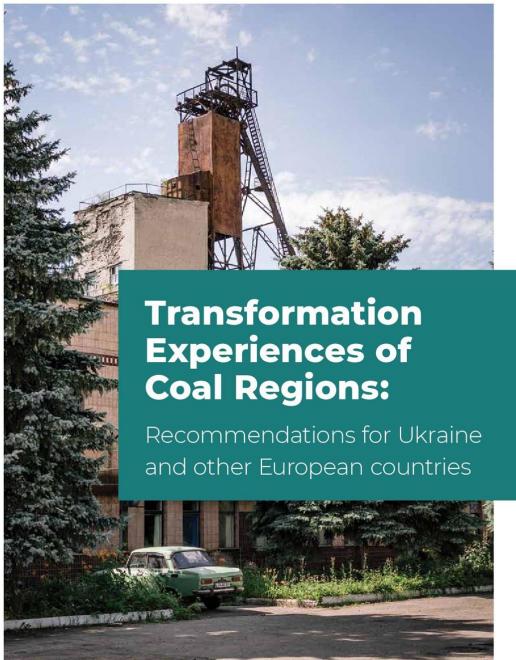
- 1. Study
- 2. Findings: National level
- 3. Discussion

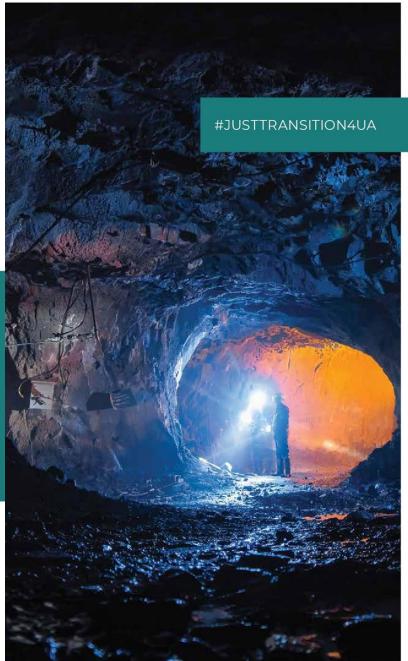






Study





Study

✓ 4 countries

- Czech Republic
- Germany
- Romania
- Ukraine

✓ Analysis of

- national policies
- concrete regional cases (coal regions)
- ✓ authors from academia, consulting, expert community
- ✓ recommendations, check-lists for national, regional and local authorities

Part of project "New energy, new possibilities for Donbas", funded by BMZ













✓ Interested in the executive summary? You can get your copy from me / or download it here:

http://bit.ly/transformation-coal-summary

✓ Interested in the full study? You can download it here:

http://bit.ly/transformation-coal

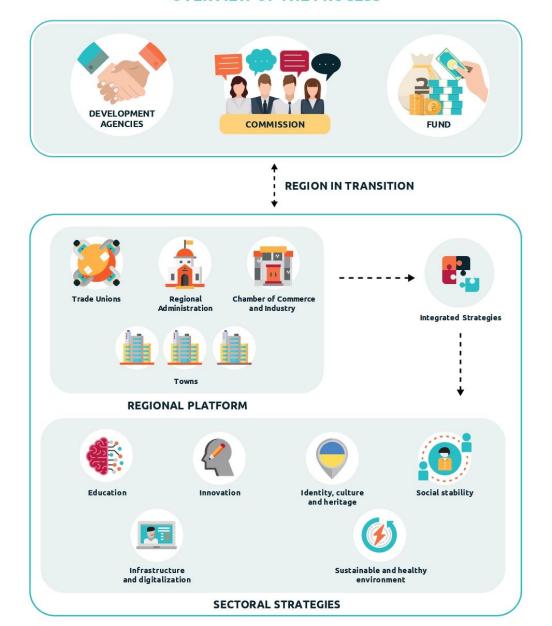






Findings: National level

SUCCESSFUL STRUCTURAL TRANSFORMATION. OVERVIEW OF THE PROCESS











Regional Administration



Chamber of Commerce and Industry





Integrated Strategies

Towns

REGIONAL PLATFORM



Education



Innovation



Identity, culture and heritage



Social stability



Infrastructure and digitalization



Sustainable and healthy environment

SECTORAL STRATEGIES

Findings: National level

- 1. Establishment of a **Commission for Structural Changes**
- 2. Setting a **coal phase-out date** for the energy sector
- 3. Creation of a **Restructuring plan** based on the Commission's recommendations
- 4. Early cooperation with the affected regions **local needs**, **interests and ownership first**!

- 5. Creation of various **Restructuring Funds** (Economic diversification, Infrastructure development, Pension, Education etc.) aimed at innovative solutions
- 6. **Terminating** allocation of direct and indirect **subsidies** to the coal industry
- 7. Creation of **national employment** and **requalification programs**, employment agencies, public programs for job creation in other economic sectors

- 8. **Overhaul** of the existing **pension system**, finance **early retirement** of coal miners
- 9. Establishment of **one entity/foundation covering environmental damage issues** and perpetual mine management obligations
- 10. Creation of **new research and innovative centers**, adapting (upper) secondary and higher education to new business, innovation and job opportunities

Thank you for your attention!

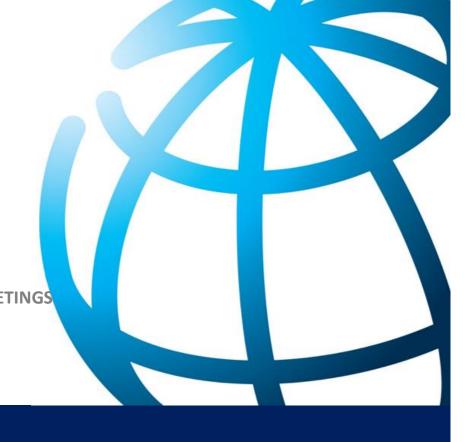
Kostiantyn Krynytskyi, NGO Ecoaction (Kyiv, Ukraine)

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INTERNATIONAL PERSPECTIVES

WORLD BANK'S GLOBAL EXPERIENCE ON ENERGY TRANSITION IN COAL REGIONS

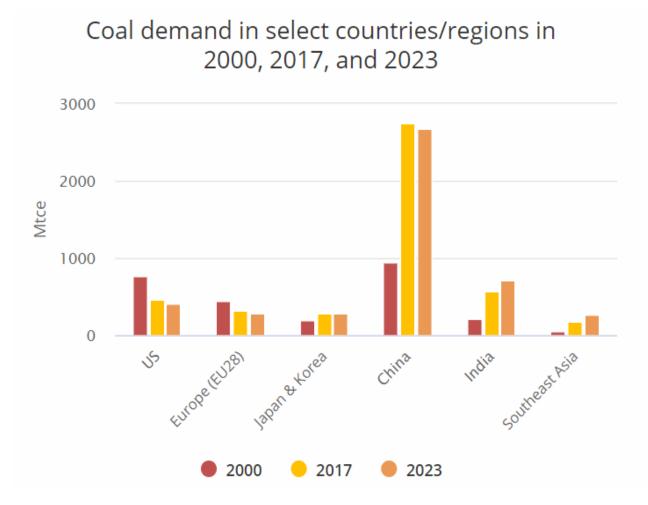
PLATFORM FOR COAL REGIONS IN TRANSITION | 6TH PLENARY & WORKING GROUP MEETINGS WORLD BANK ENERGY AND EXTRACTIVES DEPARTMENT — GLOBAL PRACTICE BRUSSELS, BELGIUM | OCTOBER, 2019





Global Outlook for Coal

- Global coal demand is forecast to remain stable over the next five years, as declines in Europe and North America are offset by strong growth in India and emerging Southeast Asia
- Risks associated with global climate policy, potentially stranded assets, local opposition and the memories of the last downturn have cooled investors' appetite to invest in new production
- Coal transition in Europe exhibits three trends:
 accelerated coal exit in some EU member states,
 recent phase out declarations in some Western
 Balkans states and no foreseeable phase out plans
 in other European countries.





World Bank Engagement

Serbia: Managing social impacts to workers and communities; repurposing land and assets in Resavica (\$500,000)

Greece: Managing the transition in coal regions of Western Macedonia (€500,000)

Morocco: Early stage discussion on phasing out of coal fired power plants

South Africa: Early stage discussion

Western Balkans and Ukraine: World Bank-EC collaboration to develop a regional platform for coal regions in the Western Balkans and for Ukraine

China: Shanxi Energy Transition and Green Growth Development Policy Operation as part of China's energy revolution (\$300 million)



Observations from conversations in coal regions

- Many coal-dependent countries are pursuing alternative energy transition programs but which operate almost in a vacuum to efforts to address coal. There is therefore a need for more comprehensive, national level power system planning exercises to bring these two sides of the energy question together.
- **Employment diversification** in coal-dependent regions is the most critical concern of all stakeholders, and this question is linked to the need for **regional economic transition strategies**.
- Repurposing of former mining lands and their assets presents one of the most strategic economic opportunities for immediate transition as it unlocks development potential and can create significant jobs
- There are considerable key knowledge gaps which could provide tangible guidance to countries and regions, such as: capturing successful socio-economic transition cases; country (and region)-specific jobs analysis to understand supply and demand; what types of governance arrangements respond best to specific political contexts; maximizing reskilling to retain labor in former coal mining areas, etc.
- Learning by doing, through pilot projects, will only add further value to the discussions and exchanges
- In the last six months there has been considerable expansion of interest to support coal regions by a range of international partners. Coordination, collaboration and where possible, cooperation will be critical for ensuring best use of financial and technical resources.

World Bank Programmatic Support

Preliminary Dialogue

Developing Strategies Pilot Projects

Financing Co-Financing

- 6 months
- Activity identification

- 10-18 months
- Application of the World Bank
 Transition Assessment Framework
- Definition of 3-5 Pilot Projects

- 5+ years
- Development policy lending to support sector policy and institutional reforms
- Results-based financing to support countries' programs of investments and reforms
- Project financing supporting investments pilots having scalability (Including social protection programs, reclamation of mines and power plant lands, and repurposing of these lands and assets for alternative uses)



Being Strategic About Our Assistance

- Demand will only increase for planning and implementation assistance as further countries and their regions transition
- Rather than individual technical assistance to regions and their countries, a Coal Regions in Transition Academy could
 provide knowledge and training to key decision-makers and transition planners
- Planning exercise will create considerable financial demand for implementation resources in the second phase
- Transition Pilot Projects can serve as a first intervention, even in parallel to planning, to build momentum:
 - ✓ Pilot projects for economic transition
 - ✓ Pilot projects for vocational training for reemployment
 - ✓ Pilot projects for repurposing of land and assets
- With the increase in interest to support coal regions by a range of international partners, a preparation facility should be envisaged with necessary resources (managerial, technical, social and environmental safeguard, communications, etc.) to finance the necessary pre-feasibility and feasibility studies required to get programs off the ground, and at the same time provide a one-stop-shop for financing for a select number of projects or transition programs



THANK YOU

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REGIONAL DEVELOPMENT AND COAL TRANSITIONS

Chris McDonald
Project Co-ordinator – OECD Mining Regions and
Cities Initiative
Centre for Entrepreneurship, SMEs, Regions and
Cities, OECD
16th October 2019



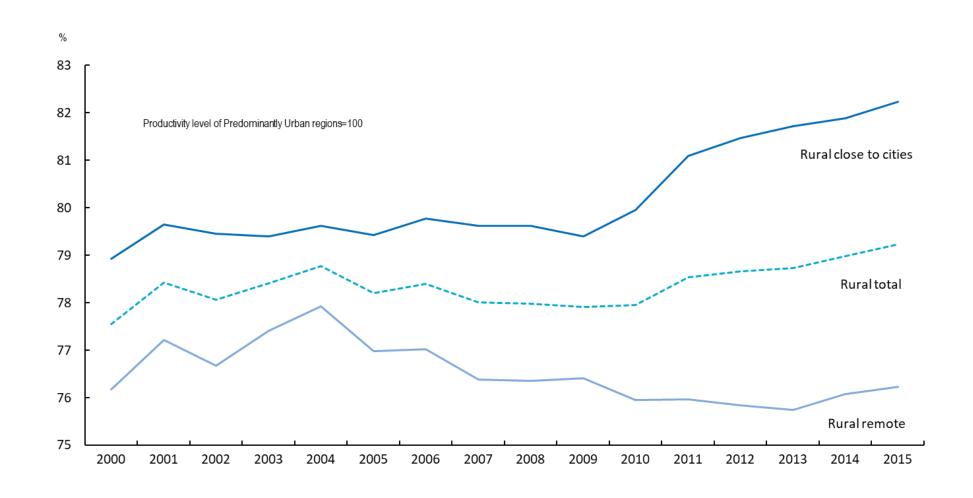


Presentation outline

- 1. OECD approach to regional and rural development
- 2. Considerations for coal regions in transition



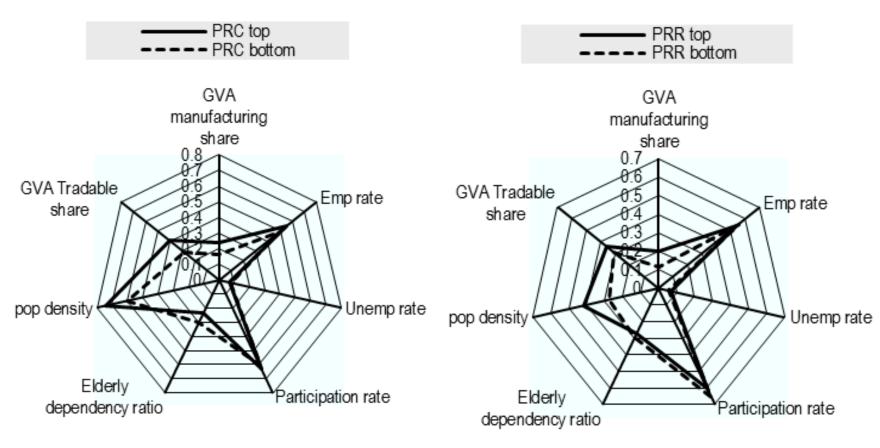
Productivity growth in rural regions (2000-2015)





What are the key drivers of productivity growth in rural regions?

Determinants of productivity growth before the crisis (2000-2008)



- > Tradable activities are key for rural close to cities and remote rural
- ➤ A minimum level of **density** is key for economies of scale/scope and delivery of goods and services.



An Evolving OECD Rural Paradigm

Rural Policy 3.0

	Old Paradigm	New Rural Paradigm (2006)	Rural Policy 3.0 -Implementing the New Rural Paradigm
Objectives	Equalisation	Competitiveness	Well-being considering multiple dimensions of: i) the economy, ii) society and iii) the environment
Policy focus	Support for a single dominant resource sector	Support for multiple sectors based on their competitiveness	Low-density economies differentiated by type of rural area
Tools	Subsidies for firms	Investments in qualified firms and communities	Integrated rural development approach – spectrum of support to public sector, firms and third sector
Key actors & stakeholders	Farm organisations and national governments	All levels of government and all relevant departments plus local stakeholders	Involvement of: i) public sector – multi-level governance, ii) private sector – for-profit firms and social enterprise, and iii) third sector – non-governmental organisations and civil society
Policy approach	Uniformly applied top down policy	Bottom-up policy, local strategies	Integrated approach with multiple policy domains
Rural definition	Not urban	Rural as a variety of distinct types of place	Three types of rural: i) within a functional urban area, ii) close to a functional urban area, and iii) far from a functional urban area



Transition in resource-based economies

- Underlying policy approach from national government e.g. staged restructuring, shock, proactive support
- Strength of local institutions distributed leadership, consensus, linkages
- Other areas of absolute and competitive advantage (resource endowments, food production, amenities, access to markets)
- Level of integration between mining and extractive operations and the local economy
- Size and skills-base of the local population that influences the diversification of the economy and its capacity to adjust to shocks



Coal regions: other opportunities in the tradeable sector

- Utilizing ex-mining sites for renewable energy production (taking advantage of the transmission infrastructure)
- Working with SMEs in the value chain (engineering, construction, logistics, maintenance) to develop new markets
- Identifying new resource exploitation opportunities (gas, other uses for brown coal, minerals and metals) – including pilot projects and R&D
- Developing research and services around mine rehabilitation
- Developing niche tourism offers based on industrial heritage



Policy options

- 1. Local institutional arrangement to coordinate and manage the transition process
- 2. Investment in **economic infrastructure and land use reforms** to facilitate transition
- 3. Facilitating the availability of small scale grants and credit to **SMEs and start-ups** coupled with capacity building and technical advice
- 4. Investing in **digital technologies and broadband access** to improve access to services and markets
- 5. Investing in **energy related R&D and education and training** within coal regions
- 6. Targeted labour market transition support:
 - a) Implementing **proactive support** (training, employment pathways, entrepreneurship) for workers affected by mining closure and transition
 - Active labour market policies and local entrepreneurship **population groups that face barriers** to economic participation (e.g. youth leaving education and training).



THANK YOU FOR YOUR ATTENTION

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REGIONS.HTM