

### New Knowledge Field: Green Skills Demand Studies

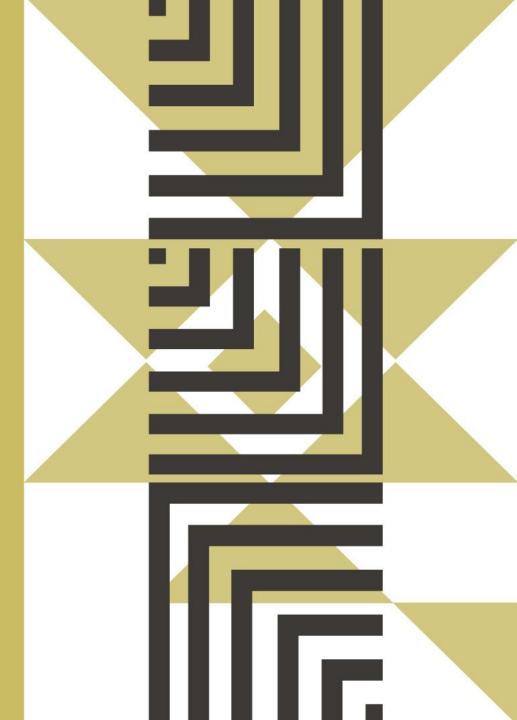
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A Monograph Chapter Reviewing Demand Studies through a Transformation Lens –

Working title:

"Methodological Considerations for Researching the Demand for Green Work Skills"



#### **Case Studies**

- 1. Water Skills Gap study (Vienings, Water Concepts)
- 2. Biodiversity Jobs Study (Mukhedi, SANBI)
- 3. Biodiversity Human Capital Development Strategy research (Vass et al, HSRC) and Environmental Sector Skills Plan research (Lotz-Sisitka, Ramsarup, Mosidi et al, Rhodes and DEA)
- 4. Sector studies on Chemicals: Paints (Jenkin & Molebatsi, with CHIETA) and Coal (Rosenberg, Ramsarup, Togo & Mphinyane, with MQA)
- 5. Framework for the Annual Report on Supply and Demand (NESPF input to DHET)

# 1. Demand studies are undertaken with transformative intent

- Surfacing more jobs nationally and in sectors
- Transformation of the skills body in organisations
- Changing 'business as usual' practice in industries

## 2. Demand for green skills can be ...

- Hidden
- Everywhere
- Multi-faceted ('shades of green')
- Dynamic ('moving target')
- Hard to report into the national system (codes & counts)
- Deeply transformative of practice

### 3. Transformative methodology is emerging:

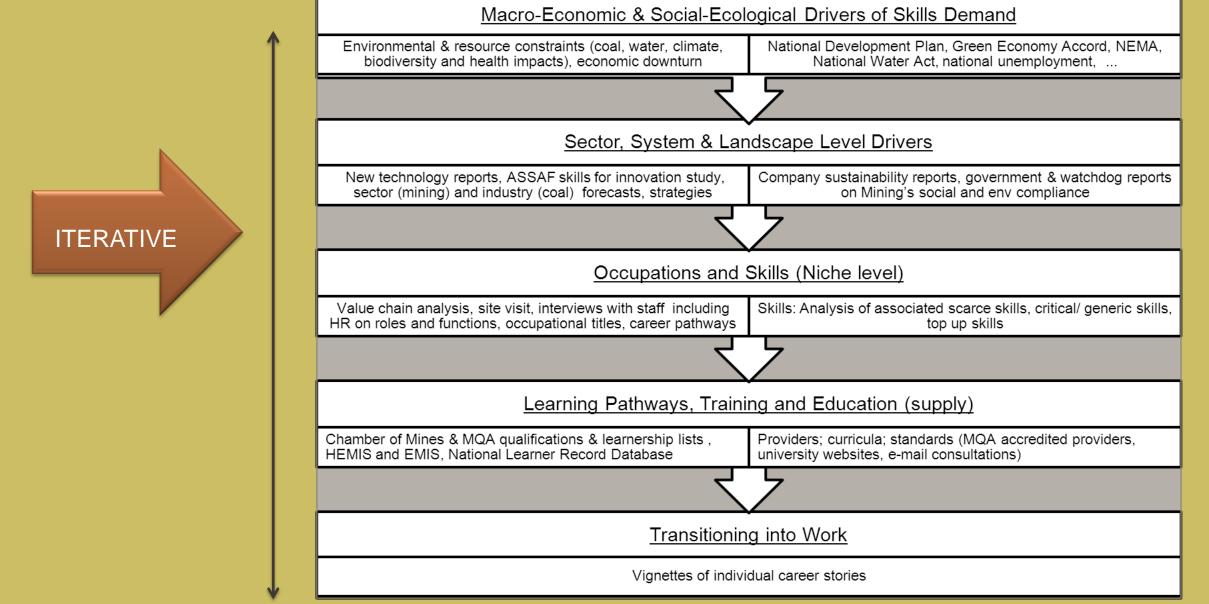
- Broadening skills ecosystems to find drivers of demand in economy, state and civil society
- Multi-levelled and iterative frameworks of analysis

## Concluding that

Green skills demand studies risk being reproductive of the status quo. To achieve the potential and purpose of being transformative:

- Methodology must shift: Tools, constructs and scope need to shift from a narrow economistic framing to a broader social and environmental relational (ethical) framing,
- 2. National systems must accommodate green work in capturing and coding it, and
- **3.** Research must be done in partnerships with intended users such that the ground is prepared for the take up of findings by workplace / national / sectoral green economy and skills planning communities.

## A Multi-Level Framework for Analysis



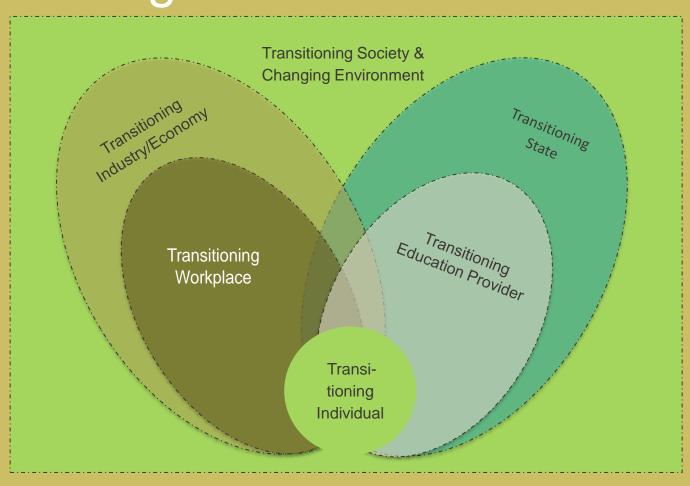
# A narrower skills ecosystem:

Market Opportunities Education **Profits** Investment Capital Skills Investment Individual **Abilities** 

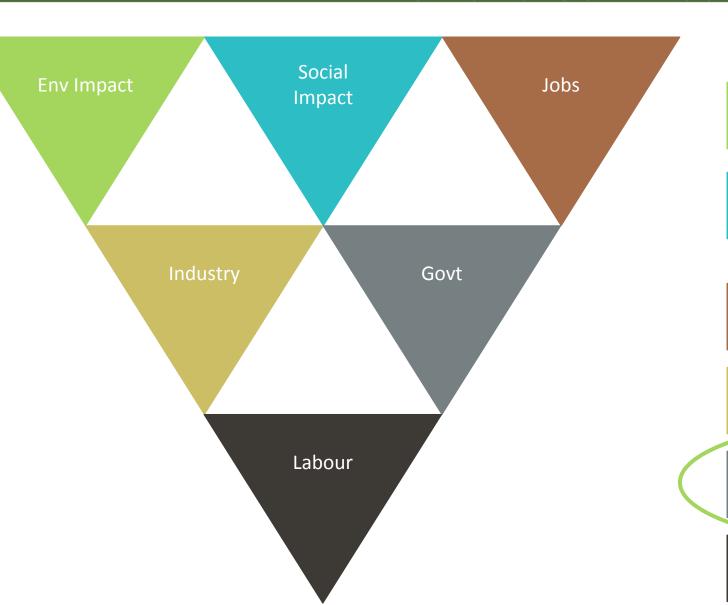
Figure 3: A model of a skill ecosystem

Source: Dalziel (2012, Figure 19, p. 38) reproduced from Miranda et al. (2011, p. 68).

# Broader skills ecosystem with drivers of demand for green skills:



#### Demand Can Also Be 'Hidden'



R&D for new 'clean coal' technology Remediation of extensive existing damage Regulation is a weak link in the chain

Health benefits of remediating mined areas Social benefits of jobs where mines close Integration with IDP as per Mine Charter

Remediation of extensive existing damage (6000+ D&O mines)

Jobs for new 'green graduates'

Industry needs revitalisation, new answers
Has been called to introduce clean, water-sensitive
technology – points to R&D

Conflicting mandate in DMR – need to support 'green graduates' tasked with enforcing this under great pressure

Advocacy to better involve Labour (inUM Naledi study on Climate Change & Mining)