

FOURTH INDUSTRIAL REVOLUTION AND THE HRDC

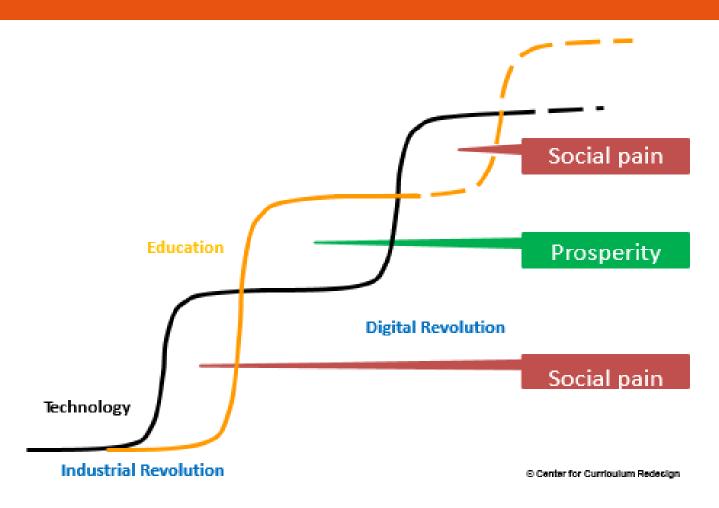
REPORT BACK



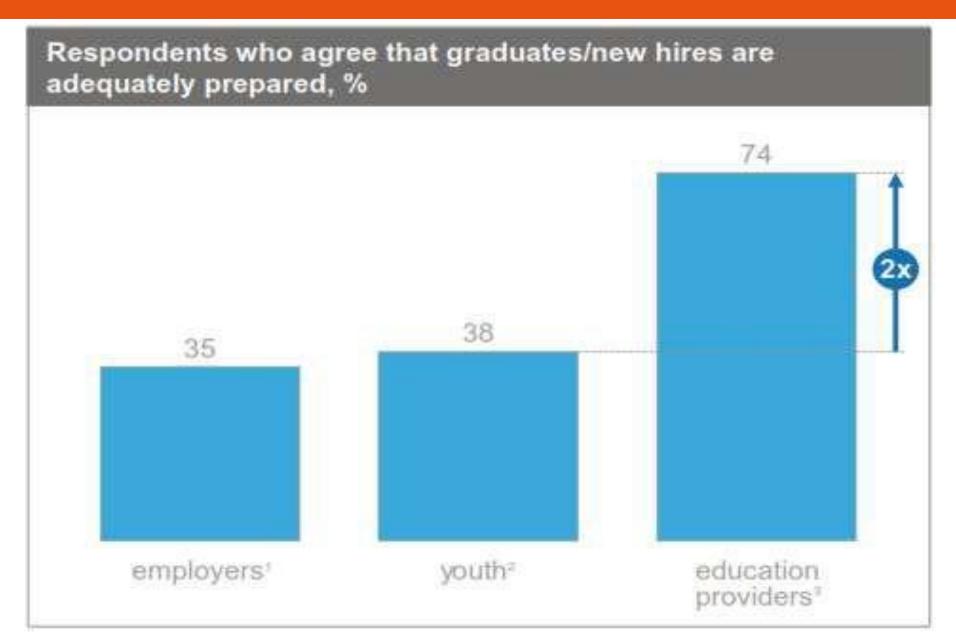
Our World Today



Race between Changing Life and Education



Disconnect between employers, youth and educators



Automation Impact

Endangered tasks:

- Predictable physical
- Process data
- Collect data

~50% of total working hours



Source: McKinsey

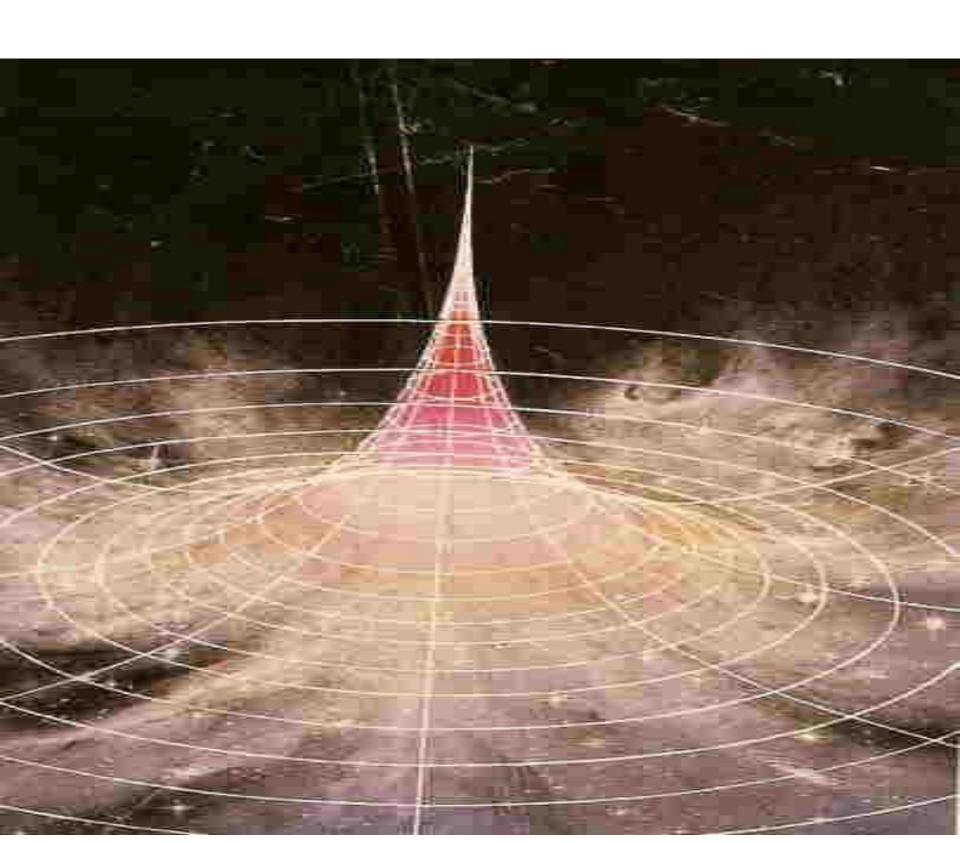
Emergence of New Jobs

Job	Pay level
App developer	High
Driverless car engineer	High
Cloud computing specialist	High
Big data analyst/data scientist	High
Social media manager	Medium
Sustainability manager	Medium
YouTube content creators	Medium
Millennial generational expert	Medium
Drone operators	Medium
Uber driver	Low

Source: World Economic Forum "Future of Jobs"

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THE POWER OF EXPONETIAL TECHNOLOGIES IS UNAVOIDABLE



NOT Changing is more dangerous



HRDC AND IR 4.0

PURPOSE

Unifying force and catalizing performance

INTERVENTIONS

Set

Targets
Ensure Accountability
Ensure Responsiveness
Impact Evaluation

ENVISAGED OUTCOMES

Improved

Access to Education
Access to WIL
Throughput
Access to Labour Market

COMMISSION OUTCOMES

- 1. What is the **state of affairs**
 - · What building blocks to take advantage of
 - · What are the gaps in the pathways
- 2. Where are the **potential areas** of exploration
 - Where should we put priority
 - · How we fast-track existing and start many new initiatives
- 3. What are the **blind spots**
- 4. Which aspects of the HRDC strategy do we suggest **Strengthening.**

WHAT IS THE STATE OF AFFAIRS

- The HRDC has a strategy whose focus on Industrialisation 4.0/
 can be strengthened
- Other departments such as science and technology, Trade and Industry, Basic Education and Higher Education have started reviewing policies and programmes
- 3. Private sector is perhaps more advanced
- 4. Labour still needs to systematically access the potential effects to avoid the unintended effects of the revolution and guide labour response accordingly

More integrated, interdisciplinary, multiple responses are required: policy and market incentives, action oriented joint assessments and planning; and dialogue

WHAT ARE THE GAPS

- 1. Limited **access to connectivity** is a significant binding constraint in our participation to IR 4.0 Broadband *'Every child must play Pokeman'*
- More clear mapping of jobs and skills that South Africa will prioritise
- Limited interdisciplinary training programmes in South
 Africa
- 4. Inadequate coverage of IR 4.0 in the **NDP**

A National Actionable Blueprint would help focus the various sectors and fasstract actions on the 4.0

WHAT ARE THE BLINDSPOTS

- 1. What **kind of an Economy** would South Africans like to pursue.
 - What are its philosophical underpinings and unique characteristics. How do we root our economy in our strengths.
 - Have we optimally exploited our strengths in Ubuntu a special human character that will be more pricey globally
- 2. What is/ will be the effect of IR to the South African Labour

An ongoing systemic research on 4 IR and the Economy is required

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- 2. What is/ will be the effect of IR to the South African Labour
- 3. Slow **state response** policies and incentives

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RECOMMENDATIONS AND WAY FORWARD

 Outline a set of Cross-sectoral Action steps at Macro-level and Meso-level of the Economy and incentivise microlevel assessments in specific sectors

MACRO-LEVEL	MESO	MICRO
 National vision re- IR 4,0 Which Jobs and kind of Economy Comprehensive Assessment of Impact 	Programmes that connect national strategy and sector-based actions	 Foundational learning VET and Universities

PRAGMATIC FIRST STEP.

Relevant organisations (HRDC, DTI, DBE, DHET, Business, NECT, and Labour) to explore and propose the future of jobs in South Africa



"It always seems impossible, until it's done."

Nelson Mandela