

Energy in Industrial spaces in South Africa

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The National Cleaner Production Centre South Africa (NCPC-SA) supports South African industry to **improve competitiveness** and reduce **environmental footprint** through the implementation of **resource efficient and cleaner production (RECP)** methodologies.

*Funded by **the dtic** and hosted by the **CSIR***



the dtic

Department:
Trade, Industry and Competition
REPUBLIC OF SOUTH AFRICA

20  **NCPC**
Years
INDUSTRIAL EFFICIENCY IN SOUTH AFRICA



CSIR
Touching lives through innovation



Context



Broader context



1. Dwindling resources;
2. Circular Economy;
3. Climate Change;
4. Emissions reduction;
5. Biodiversity loss;
6. Just Transition;
7. Geo-political landscape;
8. Systems change.

Industrial spaces in South Africa



1. Estimated 400 industrial parks and 15 SEZs;
2. Industrial parks and SEZs are key dtic focus areas;
3. Catalysts for socio-economic growth;
4. Key contributors to Local Economic Development (LED);
5. Industry is key contributor to economic strength;
6. National Government Priorities:
 - Green Economy is one of 7 priority sectors;
 - SEZs and IPs are targeted spatial interventions;
 - PPPs are key;
 - Growth areas (Innovation, Industrialization, Inclusion, Investment and Infrastructure).



Addressing Energy in industrial spaces



Focus areas



1. Address current grid and electricity generation constraints (quality, security and availability of supply);
2. Counter cable theft and other crime-related aspects;
3. Support continued business operation and retention of jobs;
4. Address emissions reduction, carbon tax and carbon-related aspects eg CBAM;
5. Support and improve competitiveness;
6. Facilitate collaboration between industry, municipalities and other entities;
7. Support industry's transition to the CE and contribute to Sustainability (incl. SDG's);

Just Transition



- National Framework;
- Just Energy Transition as part of the JT;
- Poverty, unemployment, inequality;
- Decarbonization;
- Partnerships;
- New solutions eg smart metering;
- Small-scale Embedded generation, storage smartgrids, microgrids;

Current NCPC actions



1. Energy planning in ELIDZ, Phuthaditjhaba, Ekandustria, Rosslyn;
2. Assistance on implementing RE solutions in ELIDZ;
3. Collaboration (dtic, NT, NCPC, GIZ) to assist eg Babelegi and Wadeville through a zonal approach (incl. energy);
4. Energy efficiency assessments and supporting implementation / access to solutions (NCPC-SA, GEIPP, SANEDI);
5. Work on an Energy planning and management guide - part of toolbox for EIPs (Water Stewardship, Resilience, etc).



Next steps



Scope of immediate action



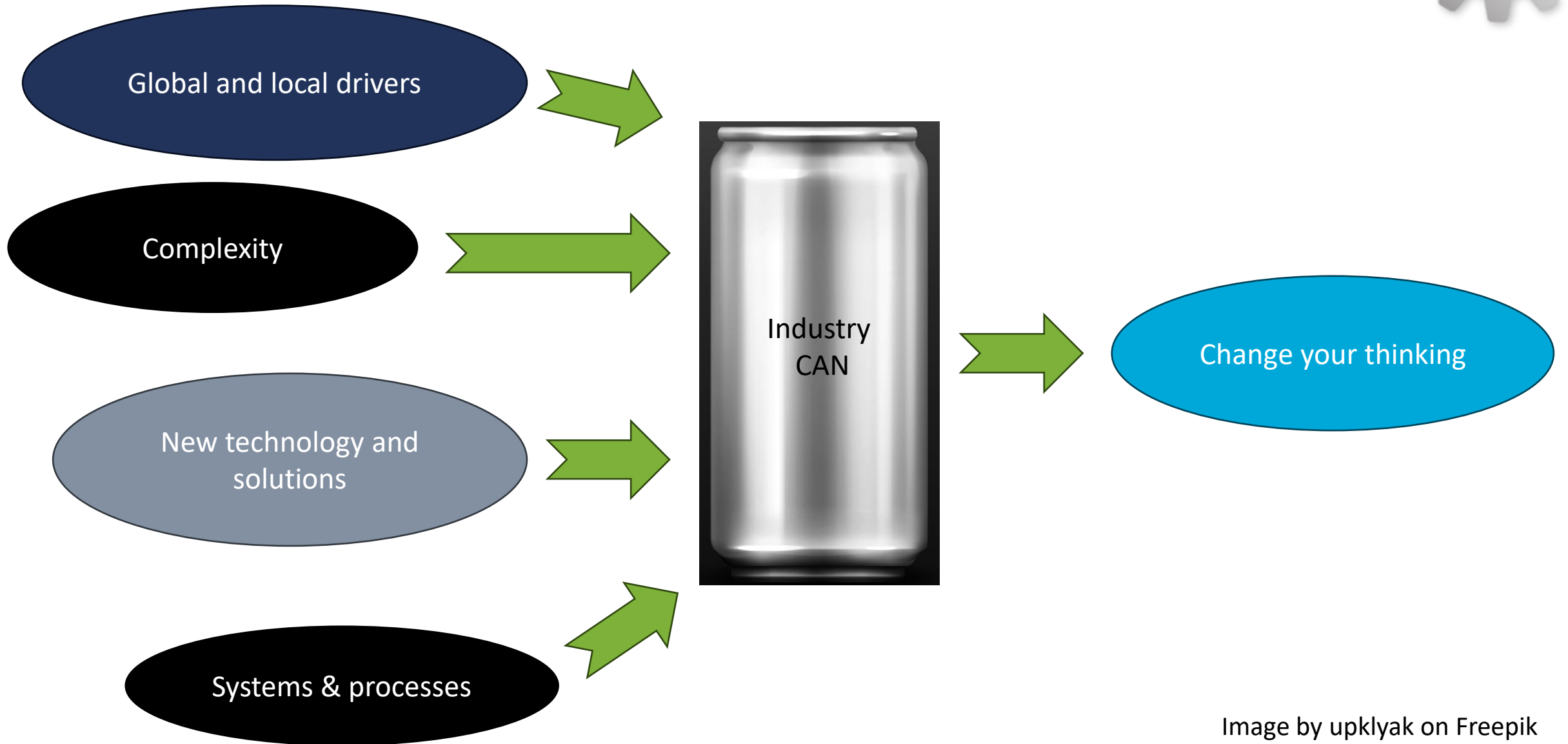
1. Scale out existing activities;
2. Applying/ Linking 4th Industrial Revolution technologies;
3. Research, Development and Innovation (RDI) support;
4. Address regulatory and reporting requirements, e.g. carbon tax, carbon footprints, EPR, EPCs, NDCs, SDGs, ESG;
5. Awareness raising and education/ capacity building;
6. Coordinate planning and interventions;
7. Implementation projects.

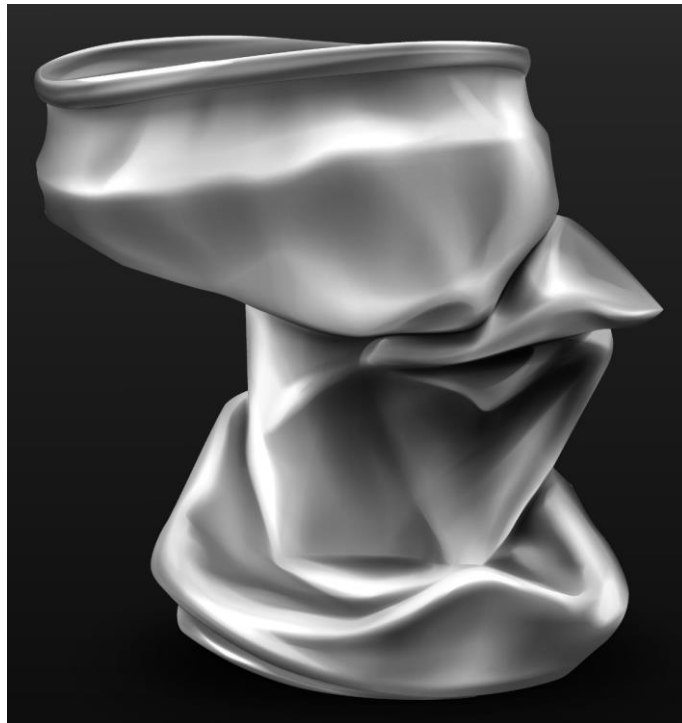


One thought



A different perspective





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Thank You

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