
NCPC-SA Green Skills Initiatives

Contributing to a Green Economy in SA by
capacitating a Professional Green Industry

Wynand van der Merwe - Skills Development Manager



Purpose and Scope

Purpose:

- Demonstrate the NCPC's commitment to Green Skills Development
- Emphasise the need for developing 'Green Skills'
- Solicit participation from stakeholders in the Public and Private Sectors to support the establishment a Professional Body dedicated to 'Resource Efficiency/Cleaner Production Occupations and careers'

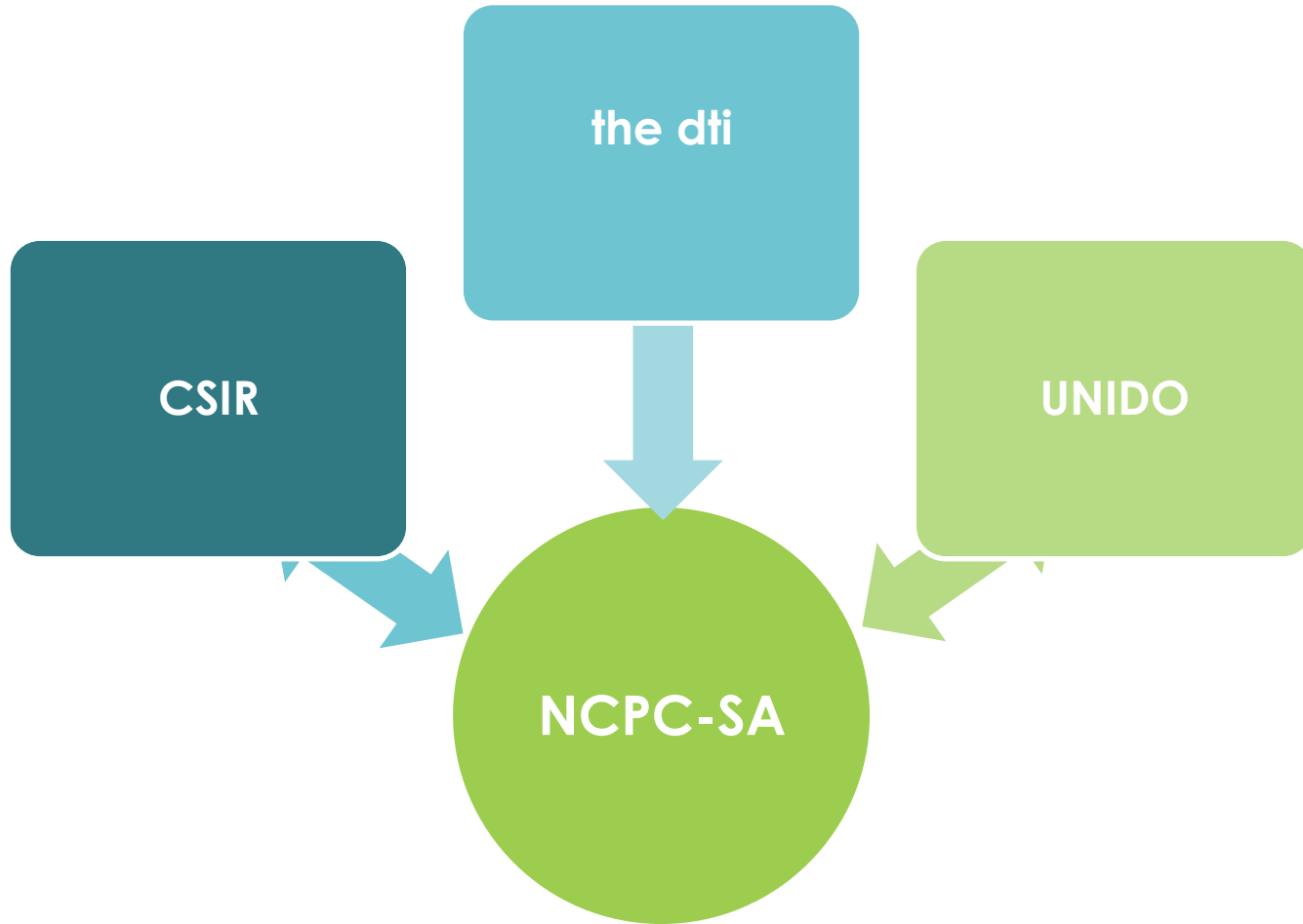
Scope:

- Green Jobs and Green Skills relevant to the NCPC
- "Green" concepts explained
- Highlight value and benefits for Occupational Qualification Development and establishment of a Professional Body
- Strategic Partnerships and Public/Private Sector Participation



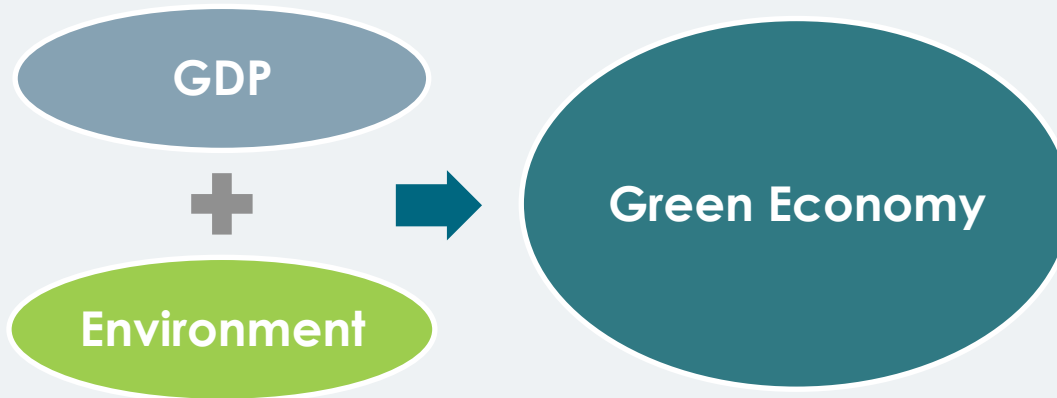


Connecting the dots





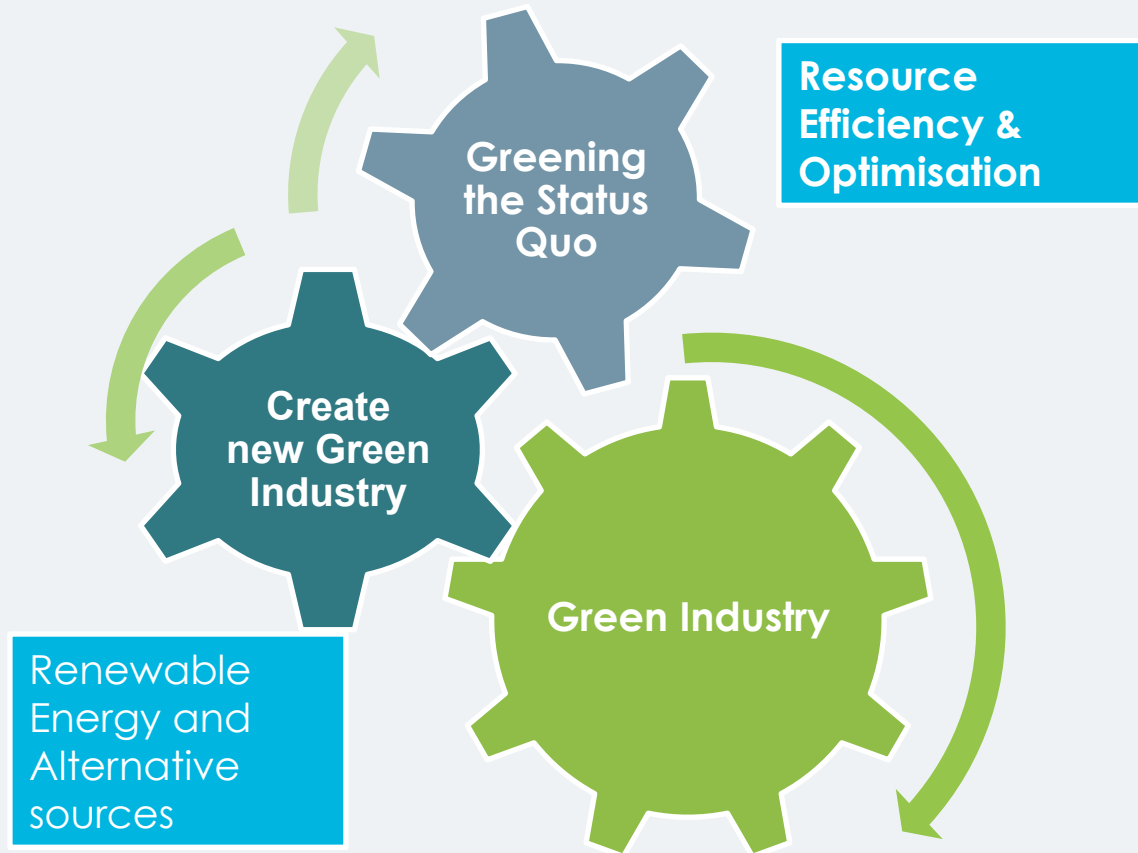
The perfect green economy would deliver equitable improvement in living standards without eroding environmental assets.



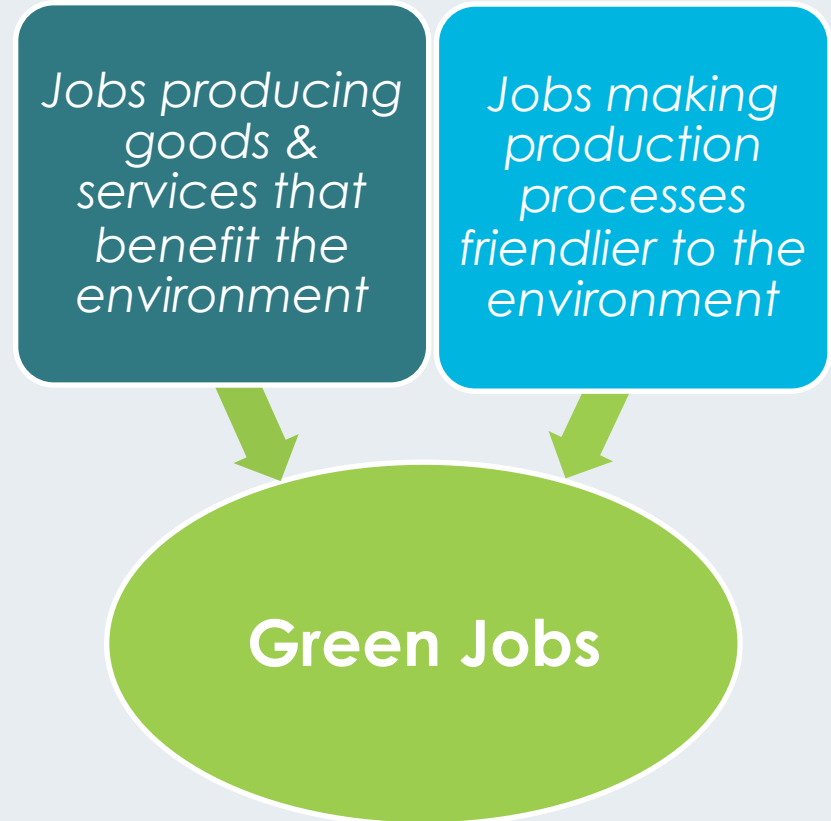
A green economy

- (i) results in improved human well-being and social equity, while
- (ii) significantly reducing environmental risks and
- (iii) ecological scarcities. – UNEP

- “If we want a sustainable and economically viable future, we need to ensure our industry does not harm the environment. We call this *Green Industry*.” –
- **UNIDO Director-General Kande K. Yumkella**



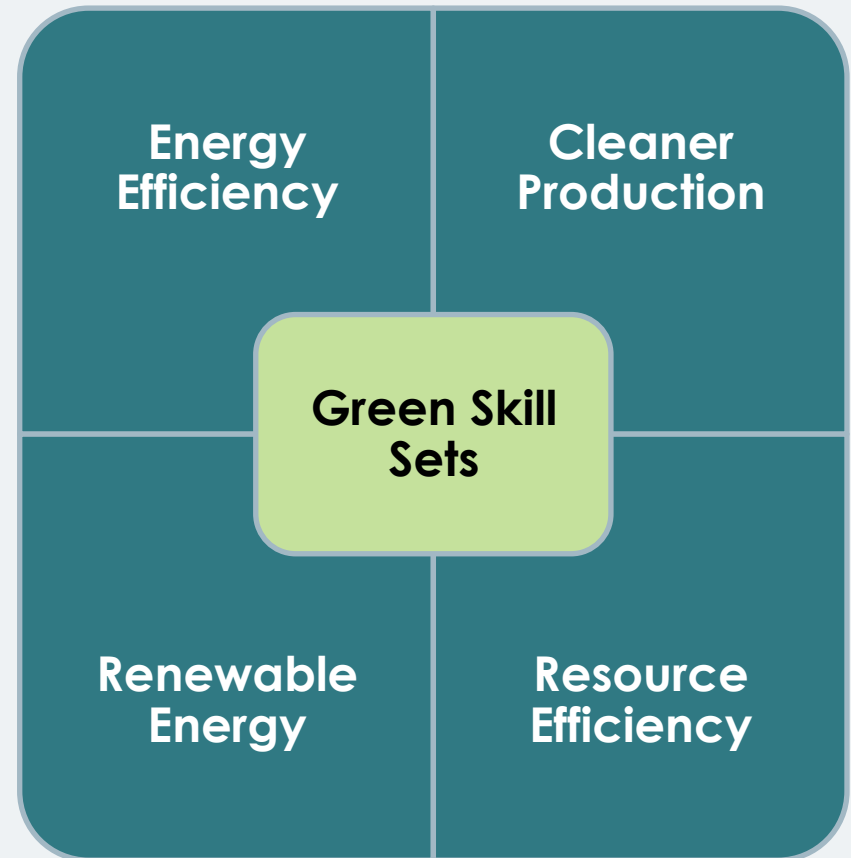
- "work in agricultural, manufacturing, research and development (R&D), administrative, and service activities that contribute(s) substantially to preserving or restoring environmental quality."
- "includes jobs that help to protect ecosystems and biodiversity; reduce energy, materials, and water consumption through high efficiency strategies; de-carbonize the economy; and minimize or altogether avoid generation of all forms of waste and pollution."
- - (UNEP)





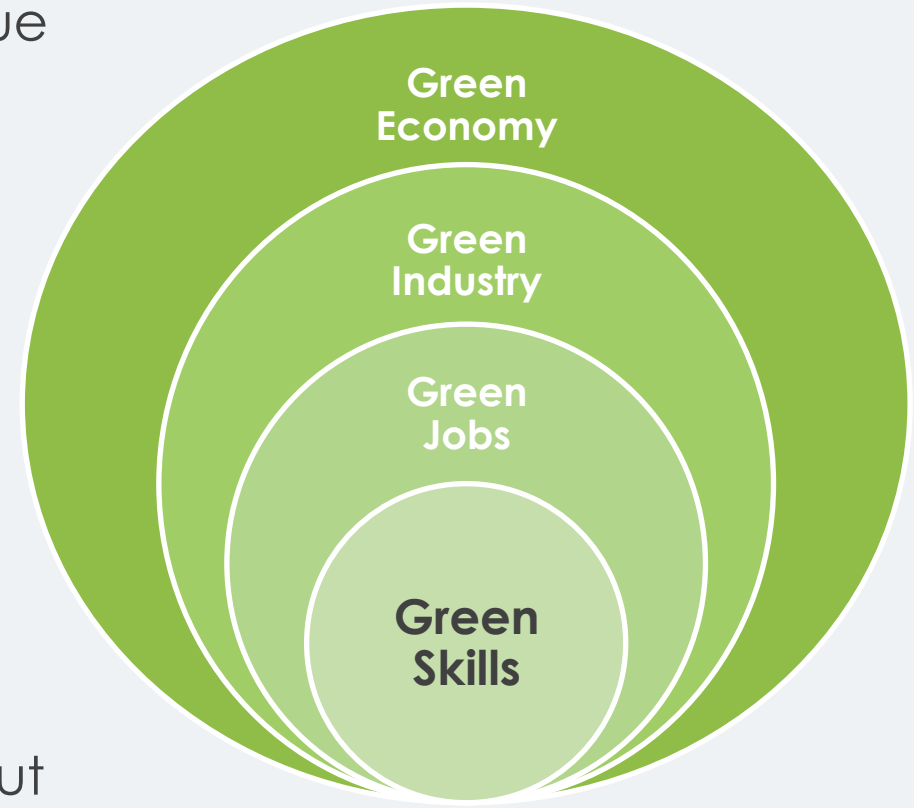
Green Jobs include skill-sets needed to:

- *Generate Energy (electricity, heat, or fuel) from renewable sources*
- *Improve Energy Efficiency*
- *Reduce pollution and greenhouse gas emissions*
- *Develop and/or implement Green Technology*
- *Practise recycling and reuse.*
- *Conserve natural resources*
- *Ensure environmental compliance*
- *Educate, Train, and increase public awareness towards Green Jobs*





- Sustainability: “The ability to continue a defined behavior indefinitely.”
- Sustainable practices: “Meet the needs of the present without compromising the ability of future generations to meet their own needs.”
- Continuing many things we’re doing now:
- Discontinuing some things we’re doing now
- Doing some things we do now, but doing them differently





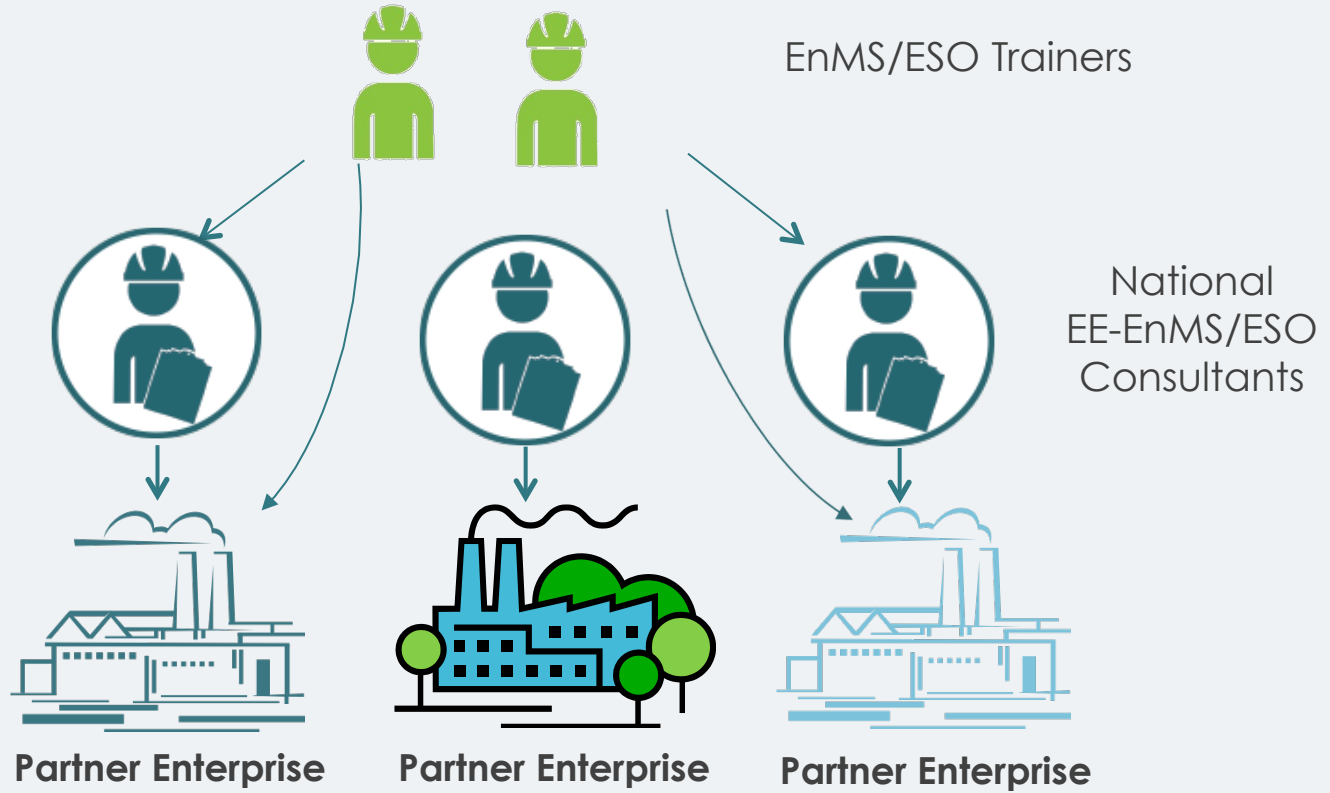
NCPC is **NOT** positioning itself as a training provider. We rather:

1. Address immediate scarce and critical skills needs, not provided for through existing qualifications, by:
 - Developing and offering new training courses
 - Developing training guidelines and quality requirements
 - Stimulating demand for Green Skill-sets through proven benefits to industry
 - Supporting development of qualifications for these skill-sets
 - Stimulating supply of these Skills-offerings by capacitating trainers and supporting commercial/public training providers to take over training, once qualifications are registered
2. Facilitate recognition of Green Skills by:
 - Supporting the establishment of a Professional Body
 - Supporting capacity building of Trainers and Training Providers

Capacity building model (2010 – 2015)

Elements, Participants and Modalities

- Internship Programme
- Awareness Seminars
- End-User Training
- Expert Training





Training Plants – success stories

energy savings in **45**
plants

= **245 GWh**

= **R 214 million**





Impact





Skills development highlights

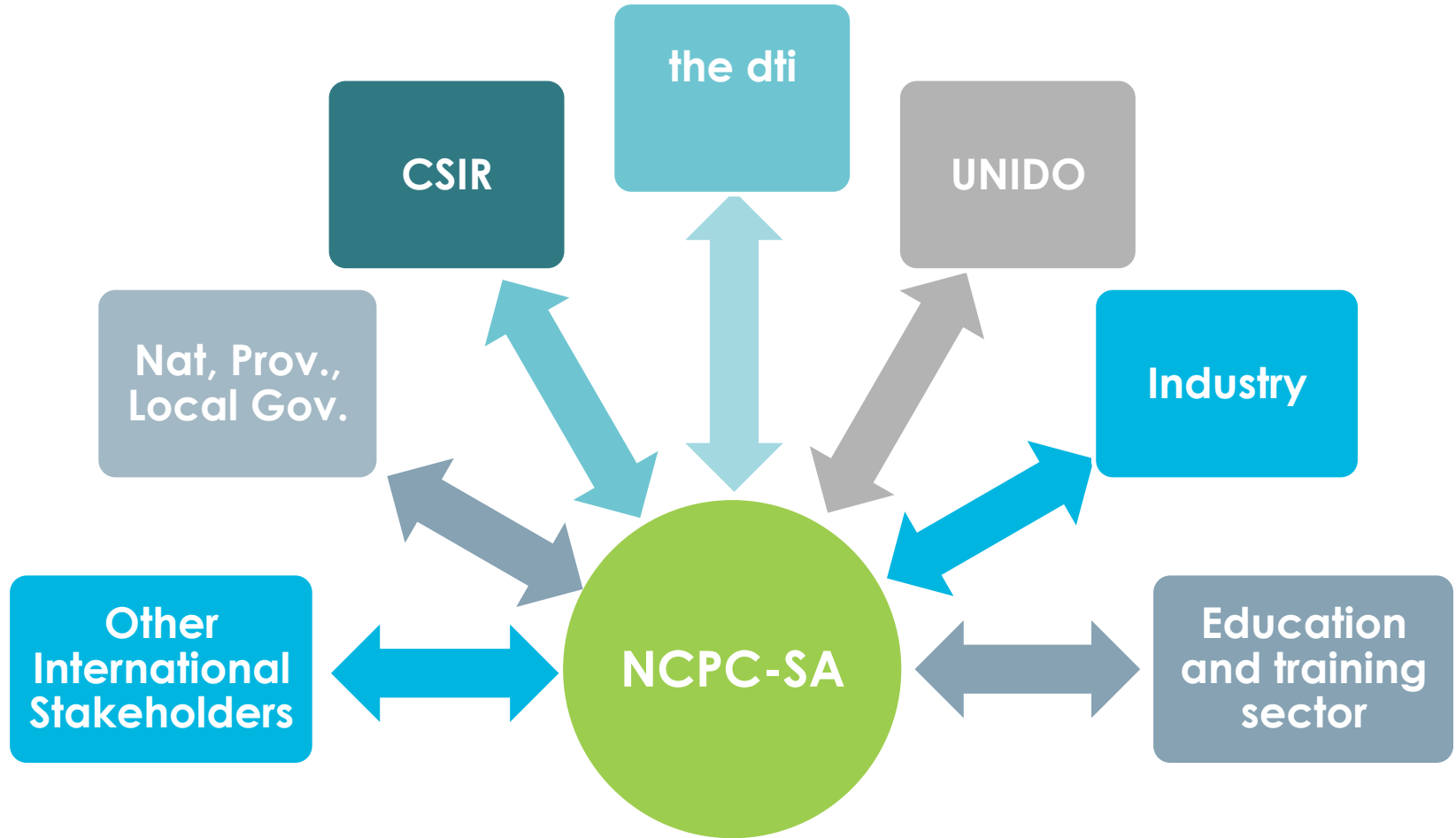
- > 3 000** trained in EMS and ESO end-user level
- 46** national EMS and ESO trainers certified
- >120** experts qualified in industrial energy efficiency
- 15 - 20** Interns trained per year since 2011

International recognition by UNIDO

Pool of national resources replaced international trainers



Strategic Partnerships



Who are the members?

- **Everybody improving Resource Efficiency and Cleaner Production – Cuts across multiple professions/occupations:**
 - Energy Efficiency
 - Water Efficiency
 - Waste and Material Management

Why another Professional Body?

- Professionalise relevant occupations and develop new Career Paths
- Establish professional designations
- Set education and training requirements
- Develop codes of conduct and Quality assure standards of service delivery



Case for RECP Professional Body

- Potential strategic value for profession and practitioners – Semi-regulatory authority
- Rapid growth in number and roles for RECP professionals
- Need for code of conduct and regulation
- Reputational risk to qualified practitioners & profession
- Increased standing, credibility and status
- Building trust amongst clients
- Impact of new regulations on demand for RECP professionals (e.g. Carbon tax)



THANK YOU

Wynand van der Merwe

wvdmerwe@csir.co.za
+27 (0) 71 603 2805

www.ncpc.co.za