

Africa's Future – In Whose Hands?

Keynote Address at 36th EEASA Conference in Livingstone, Zambia, 17 September 2018 Prof Eureta Rosenberg, Rhodes University



Africa's Future — In Whose Hands?

ENVIRONMENTAL EDUCATION ASSOCIATION OF SOUTHERN AFRICA 36TH CONFERENCE - KEYNOTE ADDRESS

PROF EURETA ROSENBERG - SOUTH AFRICA



When I look at the falls I see ...

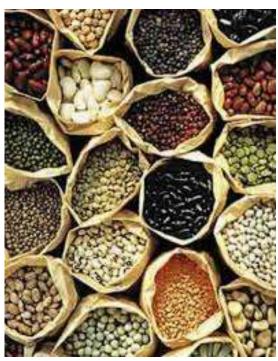
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- 3. Key concepts
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 - Embeddedness
 - Active learning
- 4. The role of educators?
 - Government
 - Civil society
 - Industry
 - Youth











The World Wants to Partner with Africa



The 2018 Beiling Summit of the Forum on China-Africa Cooperation Sommet de Beiling 2018 du Forum sur la Cooperation Sino-Africaine



China offers Africa \$60 billion in Aid

The 2018 Beijing Summit of the Forum on China-Africa Cooperation





Development Options – What to Choose? How?

What Benefits? For Whom? How are other important considerations affected? What path does this lock into?









Development Options – What to Choose? How?

What Benefits? For Whom? How are other important considerations affected? What path does this lock into?



Example: Copperbelt Mining and the Kafue, Zambia

Source: African Ecological Futures 2015, report by African Development Bank and WWF Regional Office, Nairobi

1928 First Copper Mine in Kafue Region Mines need energy – Kafue Gorge Dam and ITT – impact on Ramsar wetlands

1964 Independence – Mines nationalized and mining wealth shared

1974 Copper crashes (oil crisis) – less money for development and rehabilitation – health and ecosystem impacts

Kafue River also vital for agriculture – Cash crops like sugar in the same Kafue Region

Rural households
without electricity —
firewood and charcoal —
deforestation

Deforestation causes soil erosion which leads to dam siltation

Villagers moving to Lusaka – higher demand for resources Waste management challenges – Lukanga Swamp absorbs pollutants





Copper crashes sis) – less money evelopment and ilitation – health cosystem impacts

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5000

Villagers moving to Lusaka – higher demand for resources

Kafue River also vital

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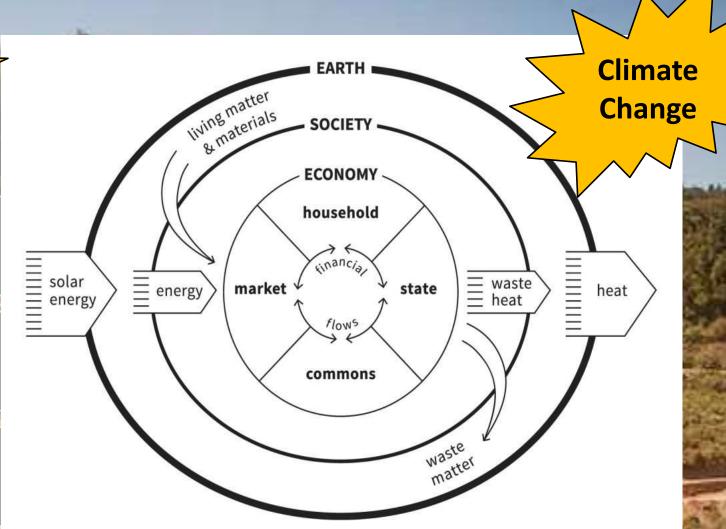
Personal Property

Rural households without electricity – firewood and charcoal – deforestation

1200

Waste management challenges – Lukanga Swamp absorbs pollutants

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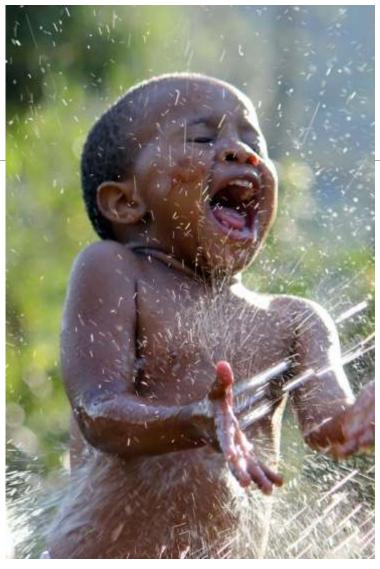


Africa's Future
What are the development choices we have?

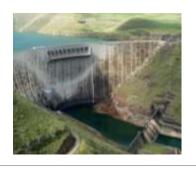
Water for Africa







Energy for Africa



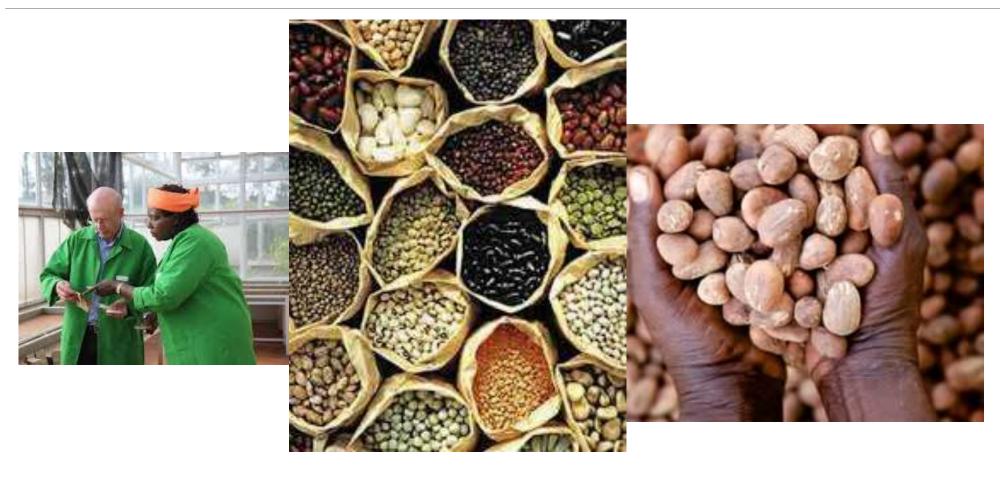






Food for Africa

Indigenous Seeds and Knowledge



Waste Solutions for the World



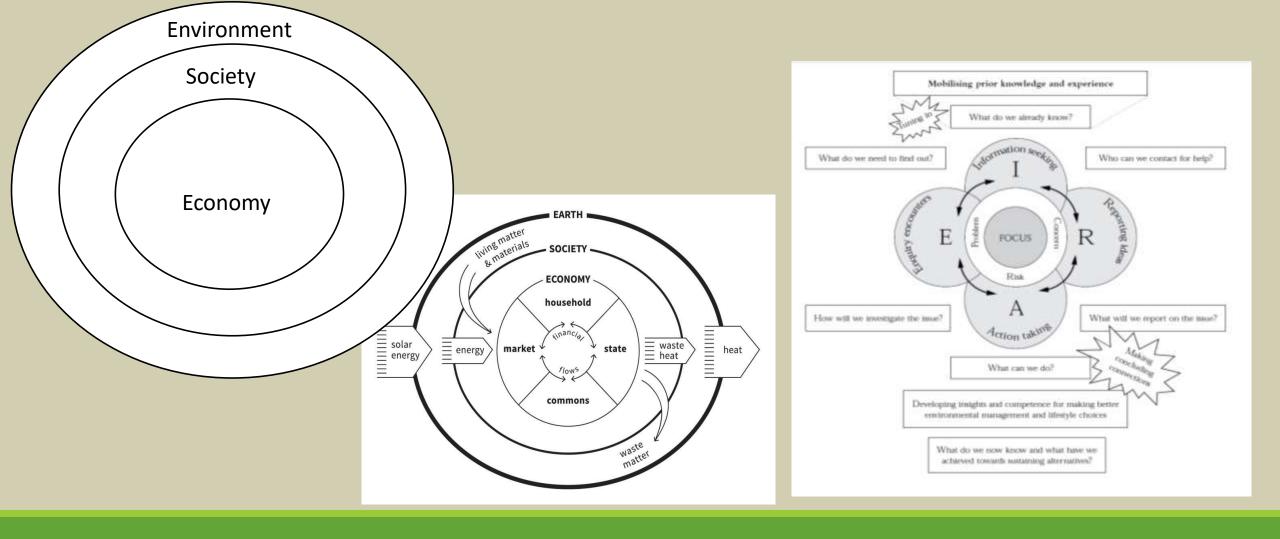
SA President
Ramaphosa: "We need
SAFE – Sanitation
Appropriate for
Education – and we
need off-grid solutions"



Making Money in Africa



New forms of Access



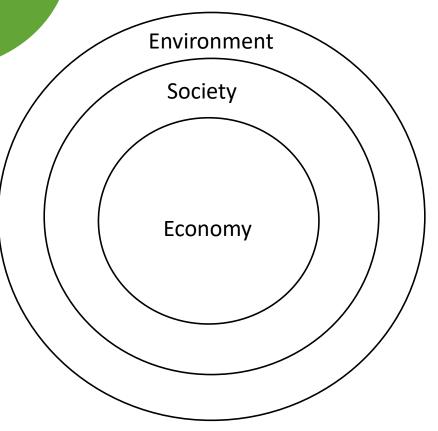
Key Concepts

Embedded economy and markets (Raworth, 2017); deep sustainability (Hattingh, 1999); active learning for EE/ESD (O'Donoghue, 2001)

Which one?

Globe or Sphere?





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Immersed inside the sphere

We have entire ecosystems inside ourselves, and around us, and what we do to them, matters



Africa's Future

Re-Cap of the Key Points



The Role of EE/ESD Educators?

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EE/ESD for Whom?

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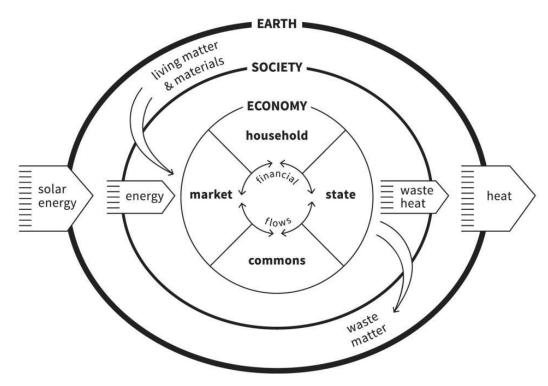
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EE / ESD for Government

WHAT DO GOVERNMENTS NEED FROM EDUCATORS

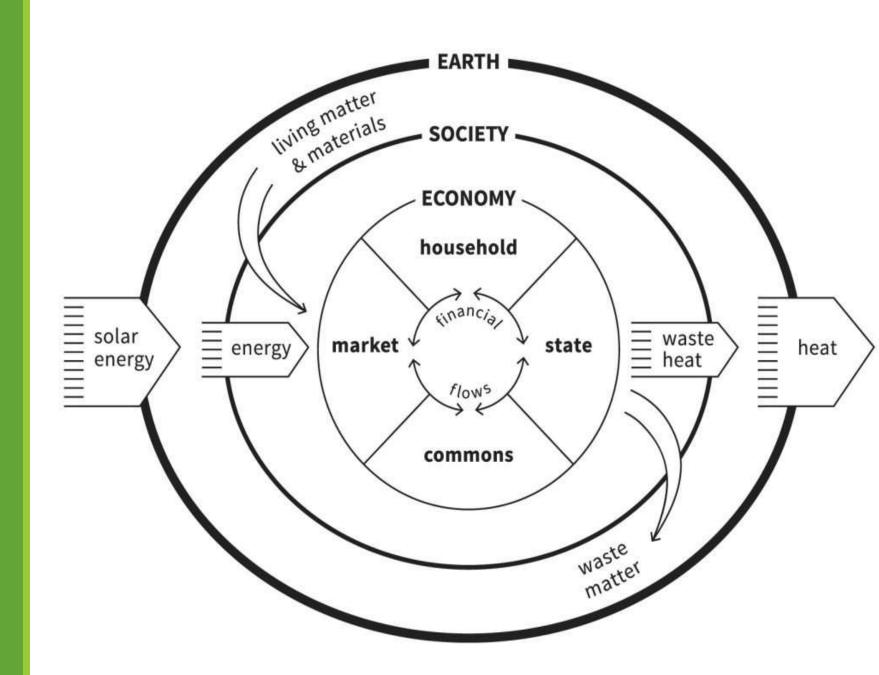




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Understanding Economics

As the basis for sustainable development and EE/ESD

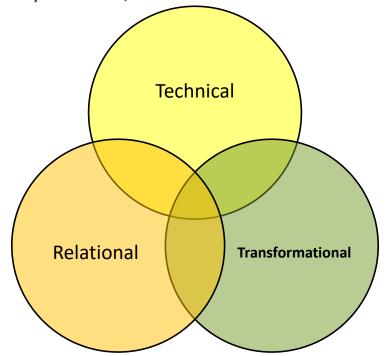


Competencies for Sustainability

Wiek, Withycombe and Redman, *Sustainability Science*, 2011: Key competencies in sustainability: A reference framework for academic program development



Rosenberg, Rosenberg, Ramsarup & Lotz-Sisitka, 2016, Green Economy Learning Assessment: Critical competencies for driving a green transition. PAGE, Rhodes University and DEA, Pretoria.



Otto Scharmer, 2007, "Field-based Leadership Development".

EE / ESD for Civil Society

WHAT DO COMMUNITIES, WORKERS, NEED TO FROM EDUCATORS?

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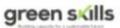


EE / ESD for Industry

WHAT DOES INDUSTRY NEED FROM EDUCATORS?



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Product

The short introductory section of this source book introduces the green economy and green jobs followed by a selection of resources that aim to support sector skills planning processes and processes of greening work. The resources have been divided into sections:

- A description of where in the skills planning development and process the resource could be used
 and what value it would add.
- An example of where the resource has been used in a Green Skills study along with a set of questions to inform the use of the resource, and
- Descriptions of how to use the resource along with supporting materials and references.

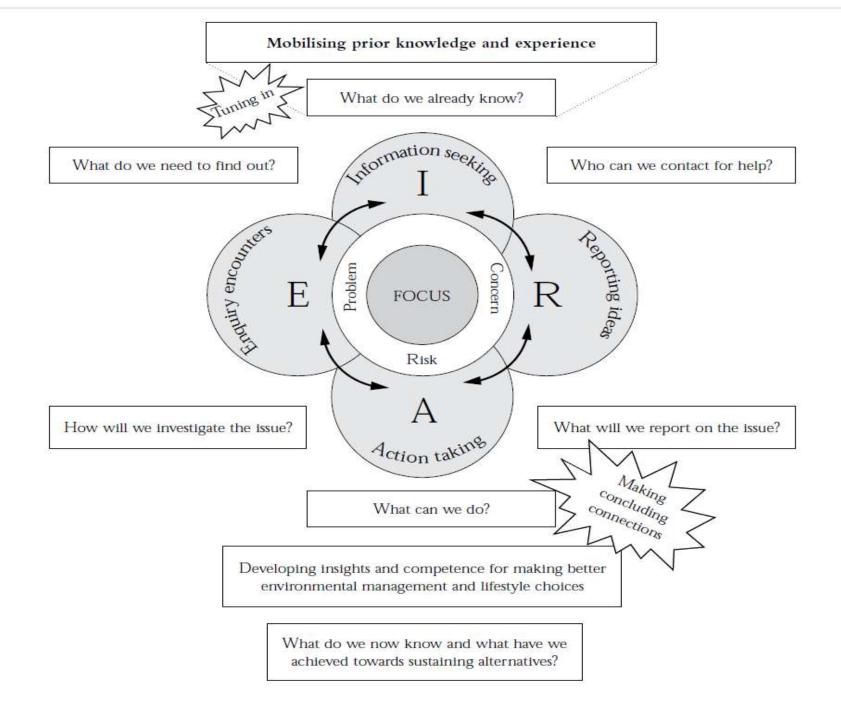
The source book will be complemented by various templates and checklists which are intended to assist with work in the field.

The structure of this source book is outlined below.

- Background to Green Skills Planning in South Africa
- 2 Groon Economy, Green John, Groon Skills
- The second secon
- A Identifying Environmental Change Drivers PESTEL
- 5 Value Chain Analysis
- 6 Sector / Product / Service Analysis and Prioritisation
- 7 Emvironmental Hotspot Analysis
- The Registery Orderson Actions Street Environment Fadures
- 9 Green Occupations and Green Skills Analysis
- Multi-Levelbed and Mintel Method Appropriate to Uniforstanding Green With

The Youth ... And Educators





Active Learning Framework (O'Donoghue, 2001)



Africa's Future

Re-Cap of the Key Points

In Whose Hands?

Thank you for the Opportunity!

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