

Natural Capital Accounting & Environmental Data Ecosystem

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IMPROVING LIVES THROUGH DATA ECOSYSTEMS



stats sa

Department:
Statistics South Africa
REPUBLIC OF SOUTH AFRICA



Introduction

- Stats SA – Vision: “Improving Lives through Data Ecosystems”
 - Reflects the realisation that Stats SA is part of a data ecosystem
 - The need to coordinate statistical production from a Systems theory perspective.
 - Systems defined as interrelated, interdependent components that can be natural or human-made
 - Such an approach requires you to see beyond the individual statistics produced & released
 - Understand that statistical production extends beyond Stats SA
 - That an entire ecosystem of data producers exist in which Stats SA operates
 - Stats SA is but one of the actors that participate in the data ecosystem

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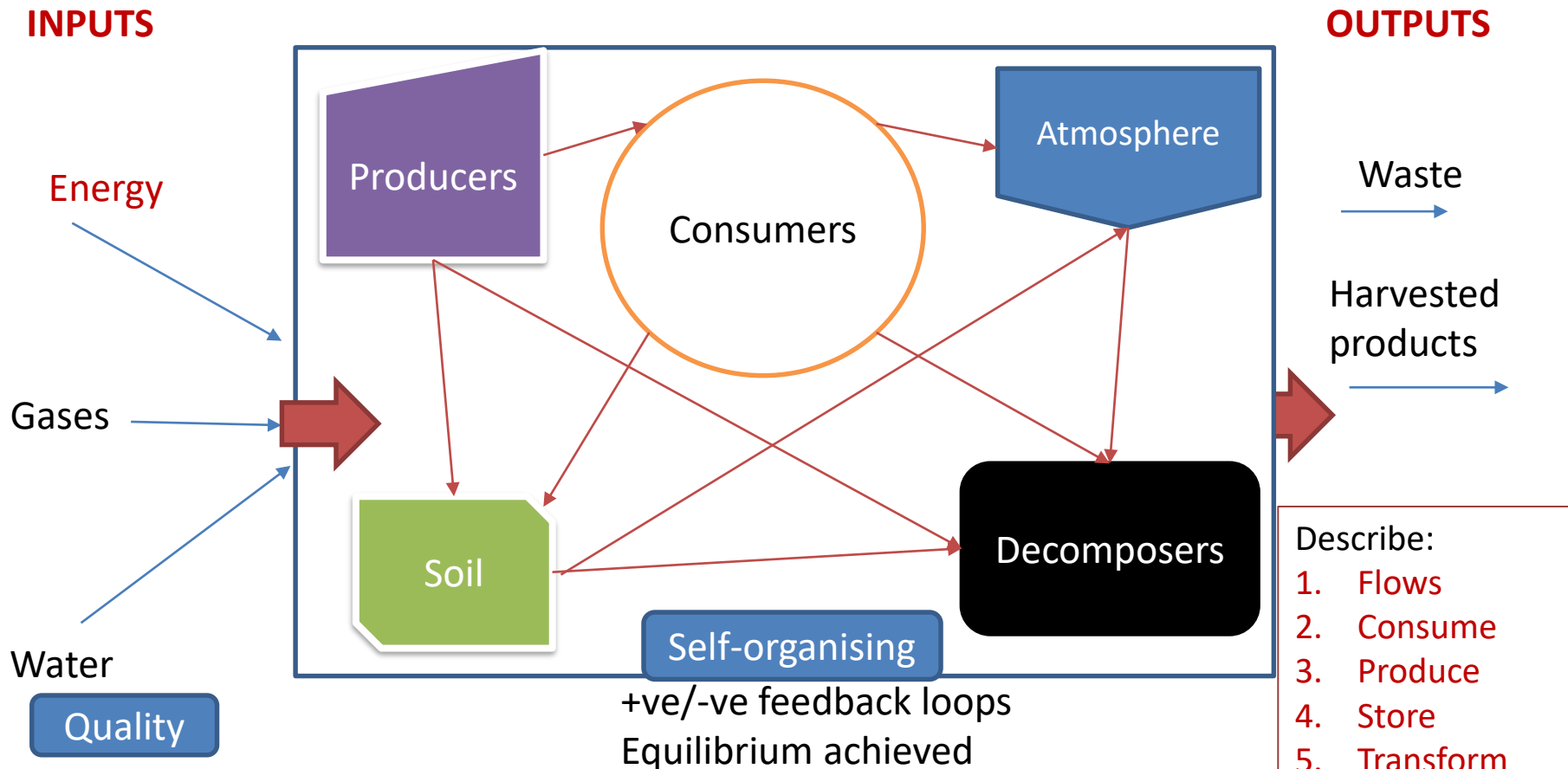


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Natural Ecosystem



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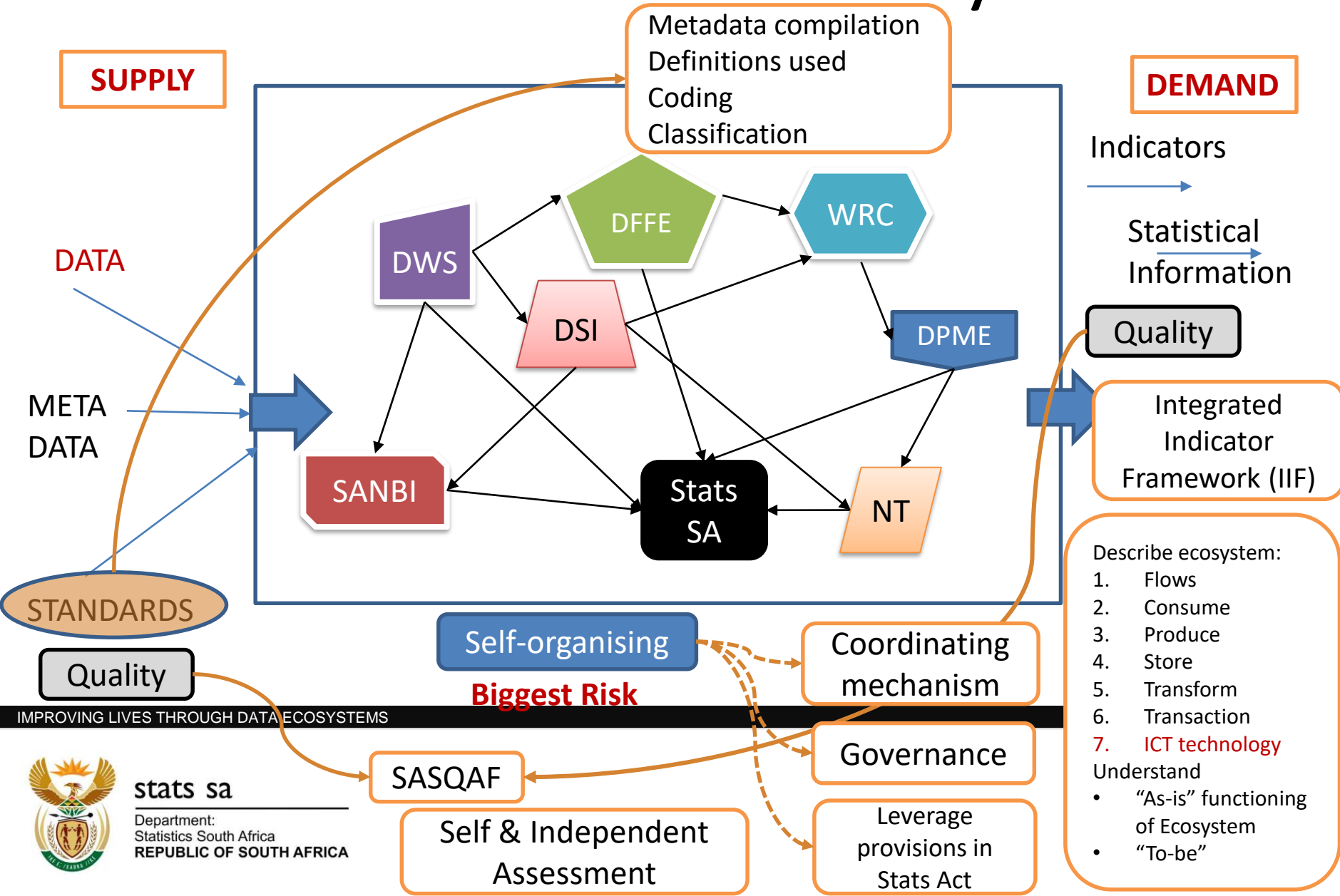


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Environment Data Ecosystem



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Conclusion

- Coordinate the data ecosystem – not products!
 - Who will this be? How will it be done? Be explicit
 - Governance arrangements
 - Approach will ensure sustainable production of NCA into the future
- Some coordination instruments:
 - Stats Act (Coordination and Governance)
 - Integrated Indicator Framework (data gap)
 - SASQAF (quality)
- Failure to coordinate data ecosystem effectively will result in:
 - Quality gap
 - Data gap (mismatch between supply & demand)



Thank You

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The i GAP – A definition

The i GAP is simply defined as the difference between the supply and demand for statistical information in the NSS

- The sum of statistical information that is required
- The sum of statistical information produced in the NSS

$$\text{NSS } i\text{GAP} = \underbrace{\sum \text{Data}_{(required)}}_{\text{DEMAND}} - \underbrace{\sum \text{Data}_{(produced)}}_{\text{SUPPLY}}$$

(Integrated Indicator Framework) (Integrated Indicator Framework Mapped Data Sources & Others)

- Challenge – to meet the growing demand for statistical information to inform policy and monitor to efficacy thereof
 - E.g. scale of the digital economy
 - Policy interventions for job creation, closing the digital divide, etc.