

NATIONAL LAND COVER IN SOUTH AFRICA: PROGRESS, CURRENT STATUS AND FUTURE DIRECTION

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Presenter: Bulelwa Semoli



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rural development**

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REPUBLIC OF SOUTH AFRICA



DLRRD- MANDATE FOR GEOMATICS MANAGEMENT SERVICE (BRANCH:NGMS)

Land Survey Act 1997 (Act no. 8 of 1997) – provides the statutory mandate

- National Geodetic Surveying
- National Cadastral
- National Aerial Imagery
- National Topographic mapping and geospatial information services



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Supporting Legislative Framework

Spatial Data Infrastructure Act, Act No. 54 of 2003 –
Provides the framework for:

- Base dataset coordination
- Data custodianship
- Standards and data sharing



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Branch: NGMS Mandate & Purpose



National Control Survey System



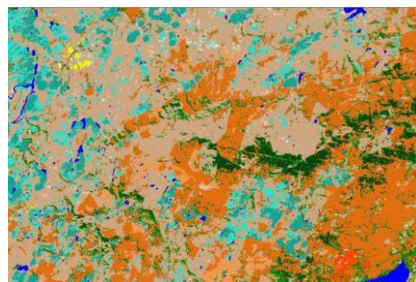
Cadastral



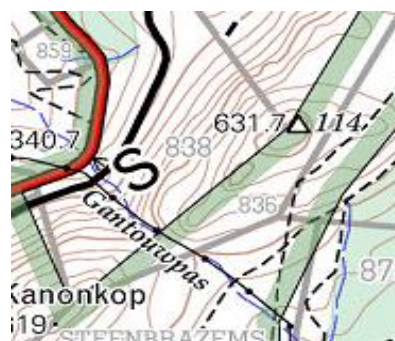
Aerial Imagery



Topographic Data



Land Cover



Mapping



& other Geospatial

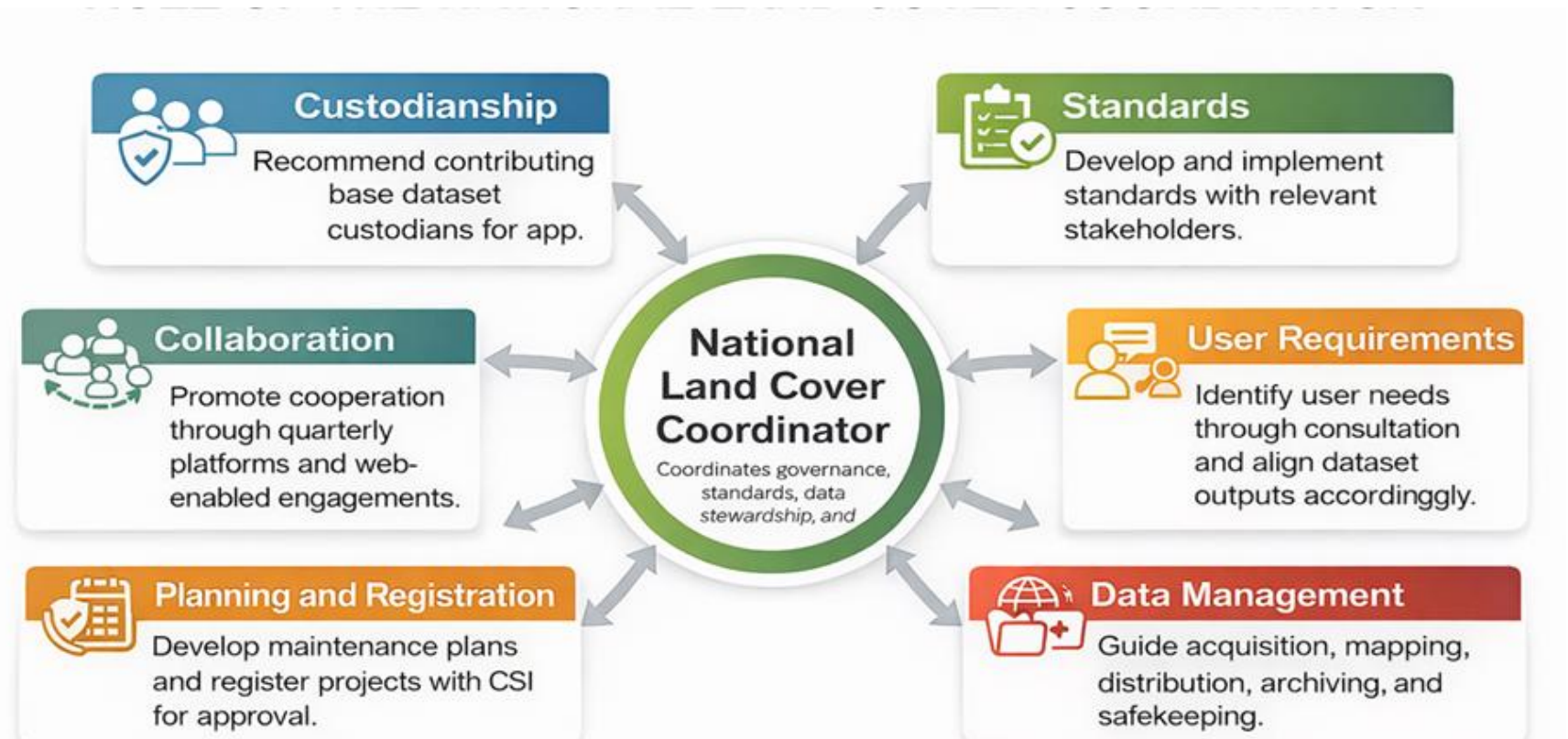


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PROGRESS: BASE DATASET COORDINATION

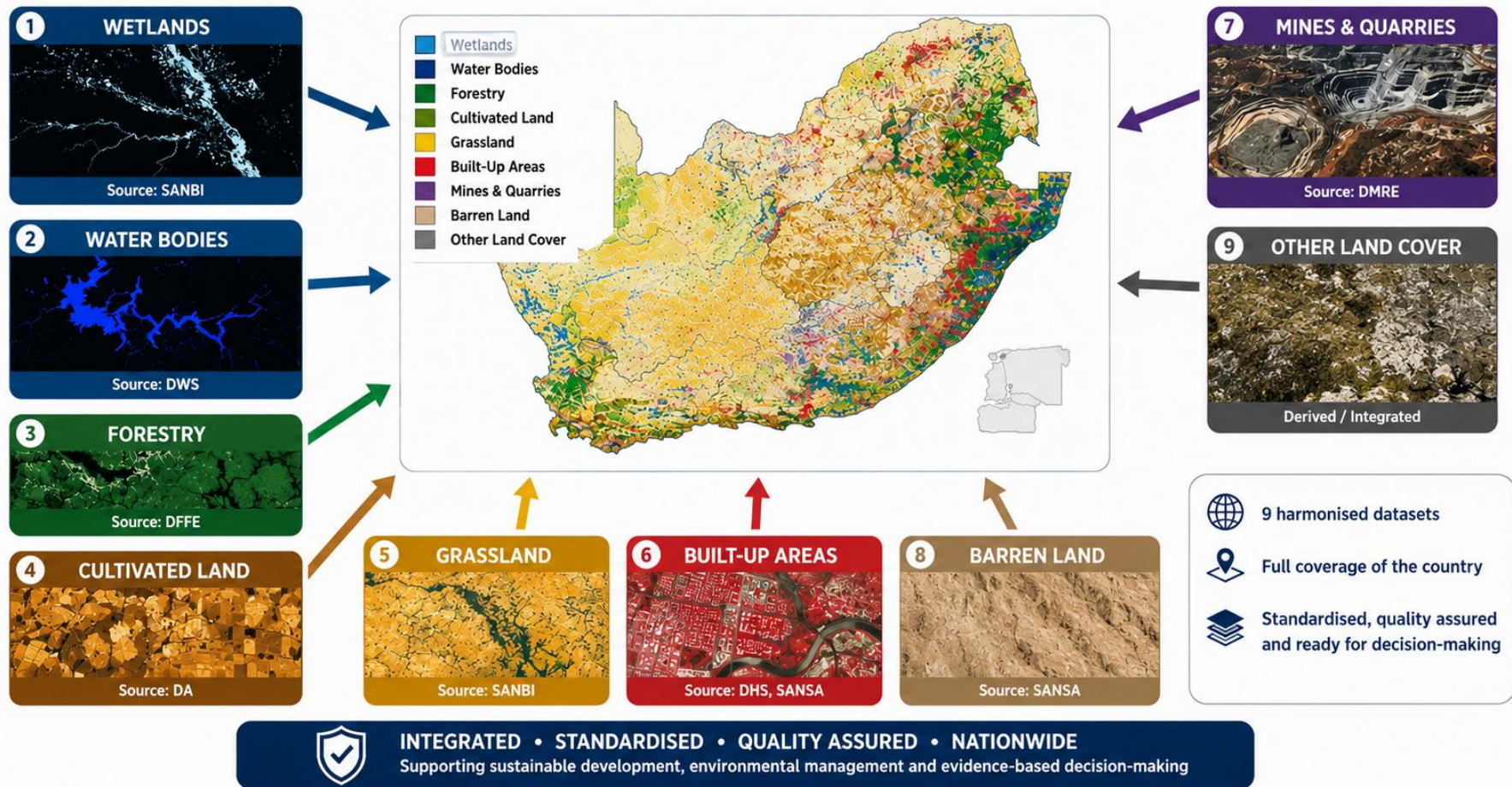


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PROGRESS: BASE DATASET COORDINATION



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CURRENT STATUS OF NATIONAL LAND COVER MAPPING

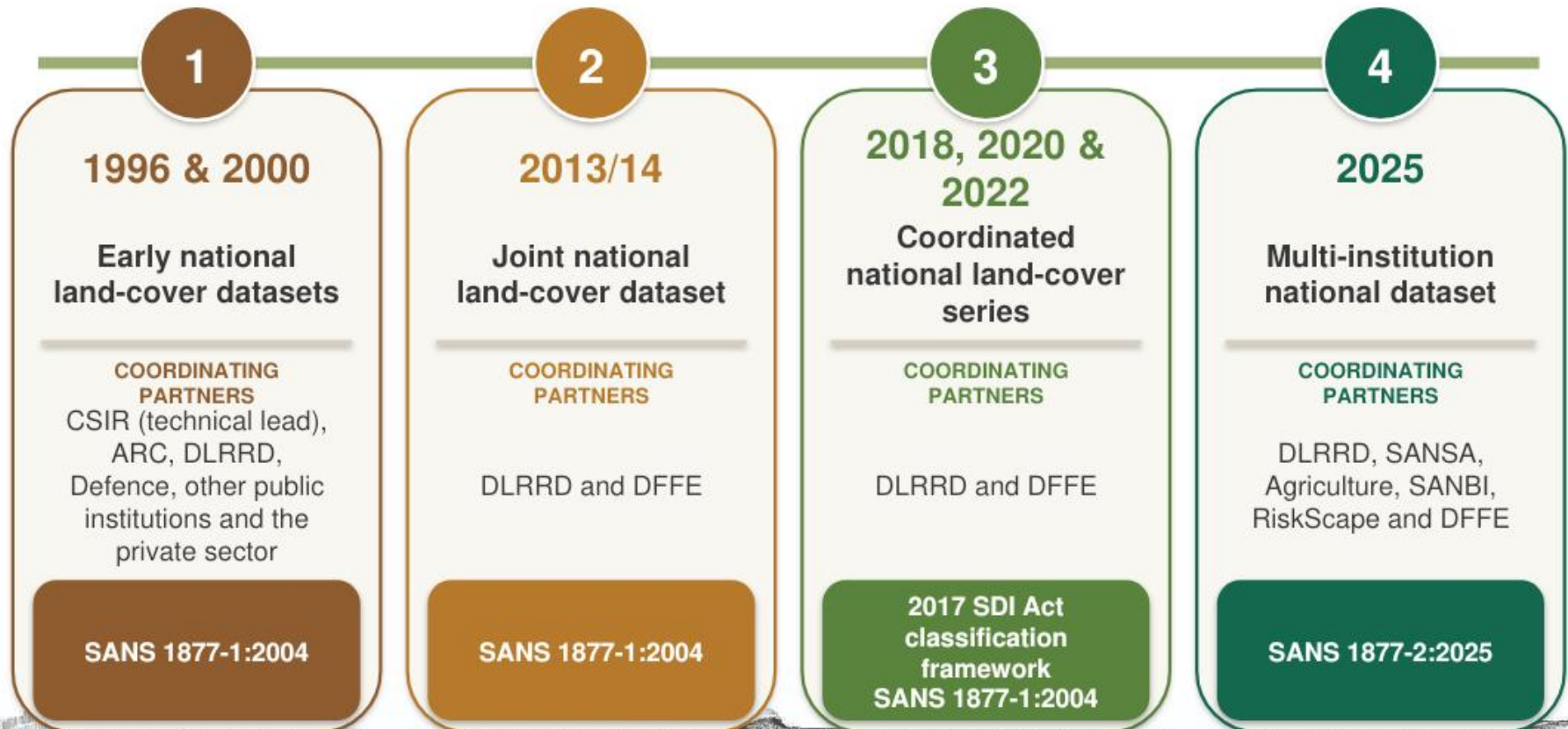


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CURRENT STATUS OF NATIONAL LAND COVER MAPPING



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FUTURE OF NATIONAL LAND COVER MAPPING



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FUTURE OF NATIONAL LAND COVER MAPPING

Thinking beyond our traditional boundaries and conventions of mapping.

Cloud-Based Processing

Aligned to FAO Tool
Process large Earth observation datasets efficiently and at scale.



Standardised Workflows

- Apply consistent, repeatable methods for classification and change detection based on SANS 1877:2:2025



Transparent Outputs

- Produce traceable, verifiable results for reporting and decision-making.



National Capacity

- Strengthen institutional ownership, collaboration, and long-term sustainability.



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Thank you

Bulelwa.semoli@dlrdd.gov.za



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