Biodiversity Information Management

Beyond data: innovation in Biodiversity Informatics

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2014 Biodiversity Planning Forum
13–16 May, Mpekweni Beach Resort, Eastern Cape

The story so far...

New era in biodiversity informatics

We have a shared national vision to develop an innovative Biodiversity Information Architecture for South Africa!

A new direction

Data types

- Genetic data
- Species data
- Spatial data
- Monitoring data
- Literature
- Images/video

Processes, standards, quality control ...

Management systems

- BRAHMS
- DNA
- Image mngt
- Reports
- Red list
- GIS
- Citizen Science
- Literature
- Monitoring
- ...

Access control, user support, feedback...

User tools

- Maps online
- Species online
- Redlist
- Invasives
- Citizen Science
- literature
- Decision-supp

More….

IT infrastructure & building capacity
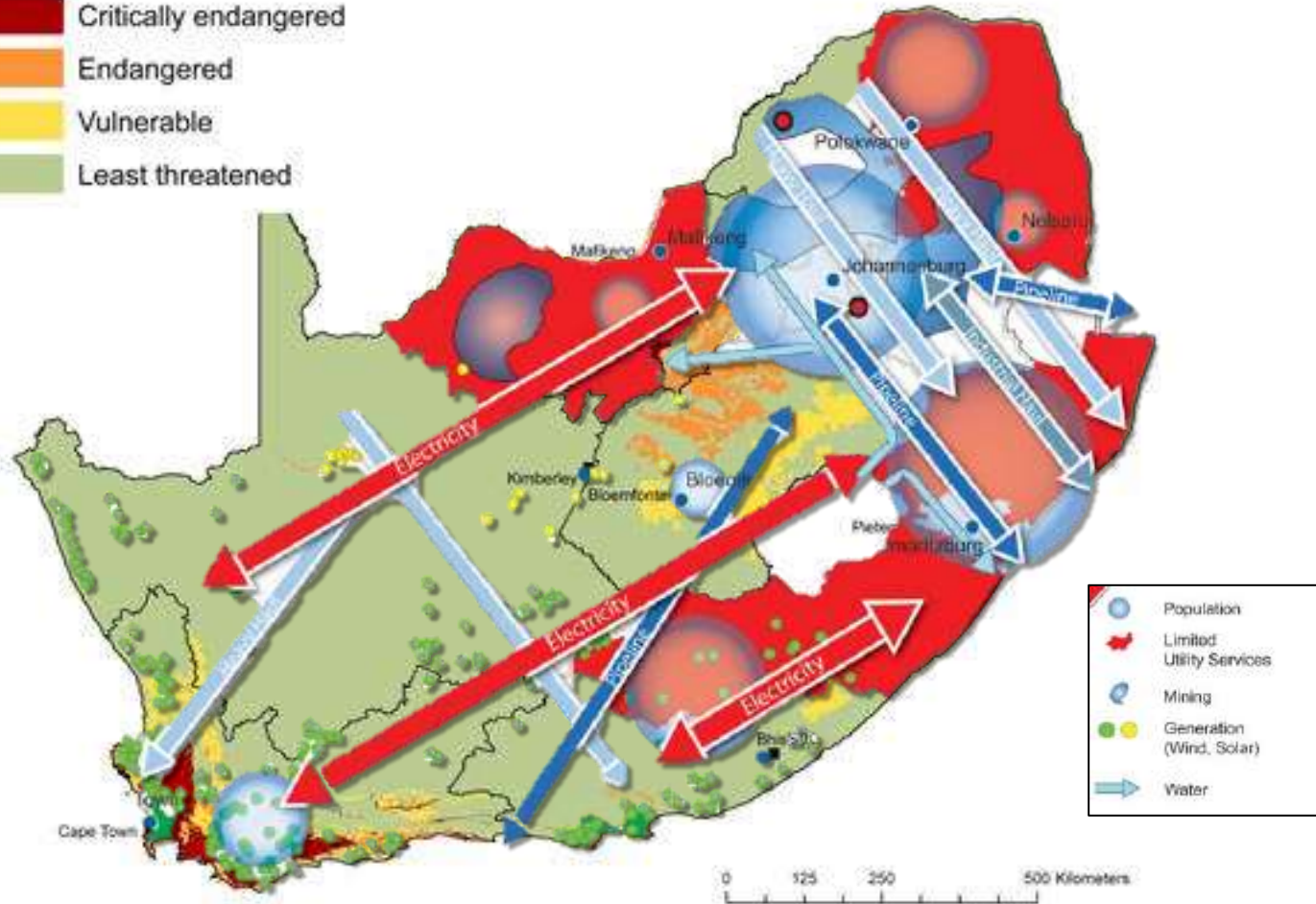
SANBI
Biodiversity for Life

Biodiversity Information Management is not about managing biodiversity information!

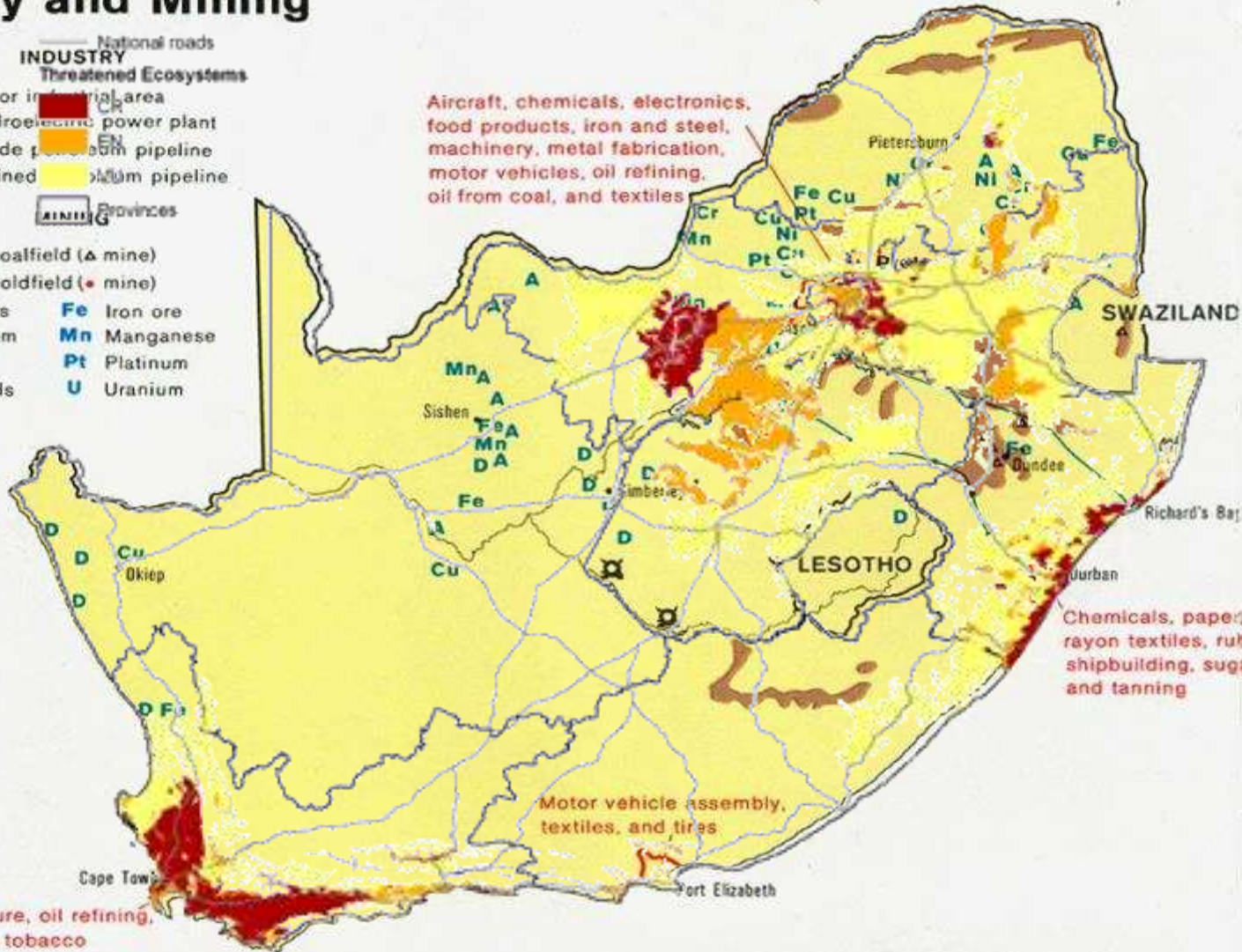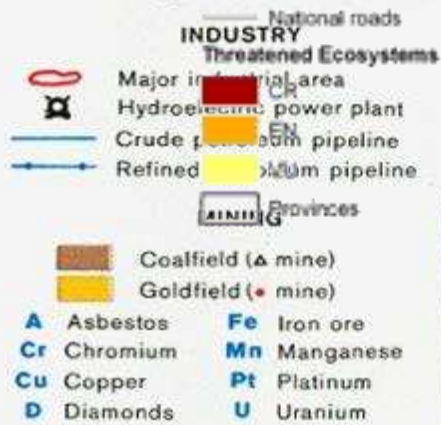# Unleashing the power of data to become actionable knowledge!

Understanding policy imperatives…

Threatened Ecosystem Status
- Critically endangered
- Endangered
- Vulnerable
- Least threatened

Source: SANBI & PICC

Understanding policy imperatives…

Where to from here?

Sophisticated Simplified Technology

Low-cost user tools

Active & coherent network of partners

Policies, processes and standards for easy access

Where to from here?

Strategic data

Cloud Services

Improved visualisation

Mobile driven

Citizen Science & Volunteers

IT policy friendly social networks

Real time satellite imagery

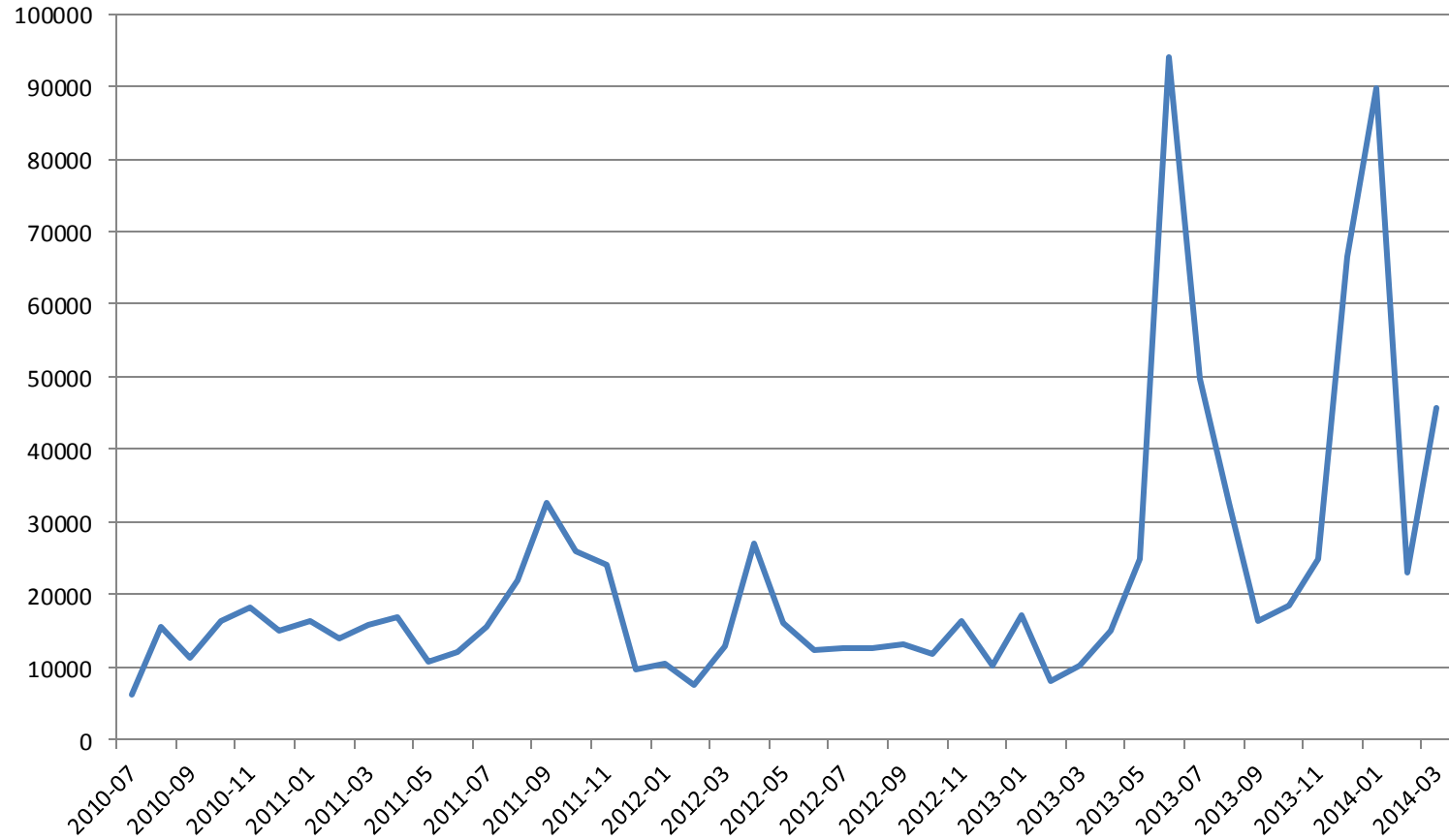Near-real time data on land-use decisions

Part 2: data statistics

Site	Visitors / day	Page views / day	Total page views
POSA	117	974	355510
Redlist of SA Plants	188	2098	765770
SABIF	129	2041	744965
BGIS	1 122	4 339	1 374 076
Biodiversity Advisor	129	360	129 791

iSpot: total observations: 118 486
Registered users: 6012
Images: 261 117

Part 2: data statistics

No. queries for primary biodiversity data

Part 2: data statistics

	Document	Number of downloads
1		
2		
3		
4		
5		
6	NBA2011 Life State of Biodiversity - low resolution	88 662
7	NFEPA Technical Report	19 085
8	STEP Handbook	59 976
9	Introduction to GIS	24 146
10	NBA2011: Vol 3: Estuary Component	17 051

In conclusion…

We have a good green story to tell!