

NORTHERN CAPE

PROVINCIAL SPATIAL DEVELOPMENT FRAMEWORK



2018

MAP BOOKLET

**PROVINCIAL SPATIAL DEVELOPMENT FRAMEWORK (PSDF)
FOR THE NORTHERN CAPE PROVINCE**
HIGH QUALITY MAP PRINTS



Joint Venture between PULA Strategic Resources Management and
MVD Kalahari Town and Regional Planners
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E-mail: NC@mvdkalahari.co.za



NORTHERN CAPE
**PROVINCIAL SPATIAL
DEVELOPMENT FRAMEWORK**



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SPATIAL CHALLENGES AND OPPORTUNITIES

SPATIAL STRATEGIES

ENHANCE REGIONAL CONNECTIVITY
PROTECT AND MANAGE BIODIVERSITY, WATER AND AGRICULTURAL RESOURCES
INFRASTRUCTURE INVESTMENT
URBAN AND RURAL DEVELOPMENT

SPATIAL PLANNING CATEGORIES

SPC A AND B : NATURAL AREAS
SPC C: AGRICULTURAL AREAS
SPC: URBAN AREAS
SPC E: INDUSTRIAL AREAS
SPC F: URBAN AND RURAL DEVELOPMENT



NORTHERN CAPE DEVELOPMENT DRIVERS

DRIVER 1: ECONOMIC GROWTH, DEVELOPMENT AND PROSPERITY

1. Agriculture and Agro-Processing
2. Mining and Mineral Beneficiation
3. Tourism Market Development
4. Development of the Energy Sector
5. Manufacturing and Trade
6. Competitive Infrastructure Development
7. Employment and Skills Development
8. Innovation and knowledge economy
9. The Maritime Economy



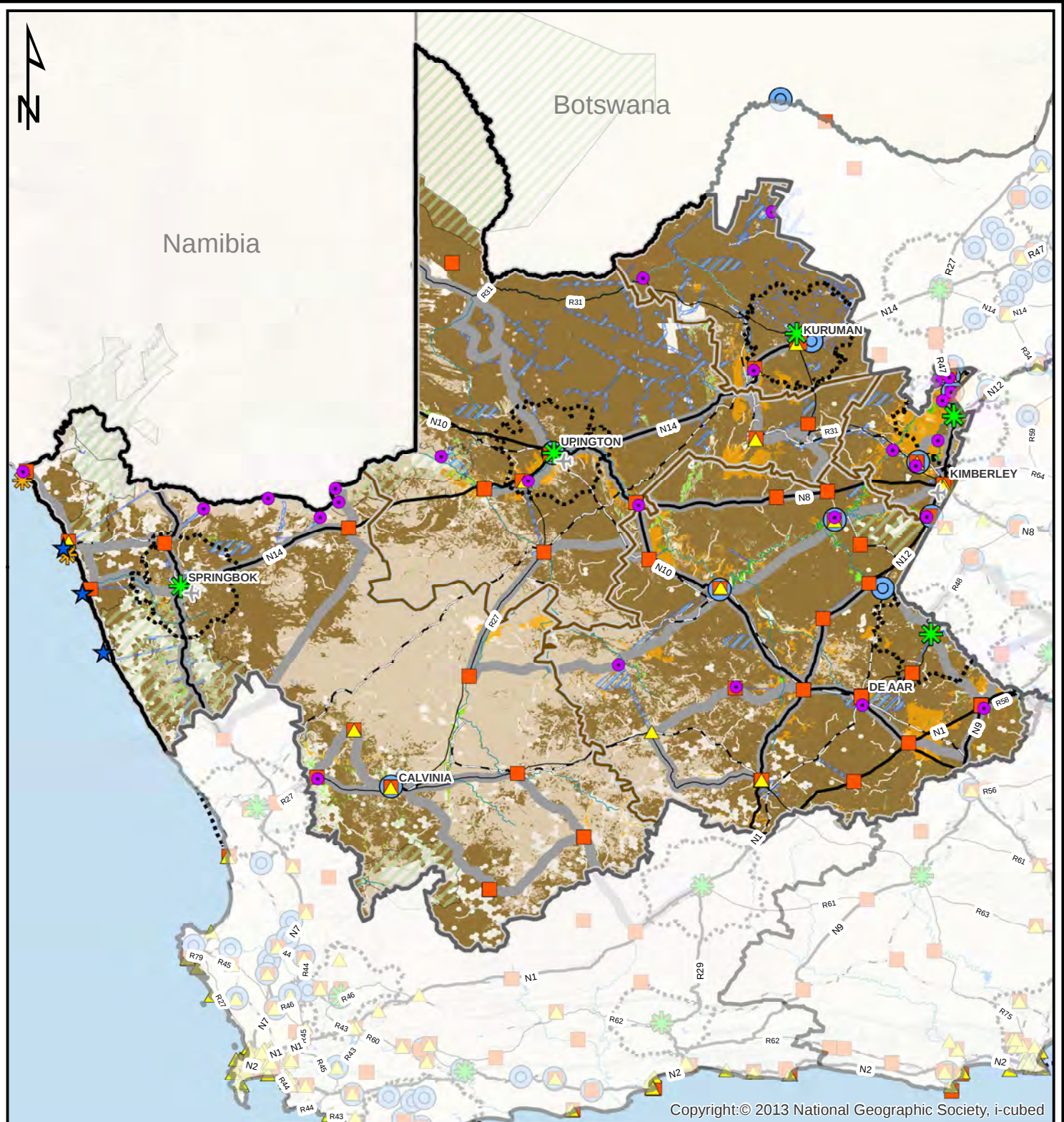
NORTHERN CAPE

PROVINCIAL SPATIAL DEVELOPMENT FRAMEWORK



| MAP BOOK |





PATHS TO PROSPERITY
DRIVER 1: ECONOMIC GROWTH, DEVELOPMENT AND PROSPERITY
 AGRICULTURE AND AGRO-PROCESSING

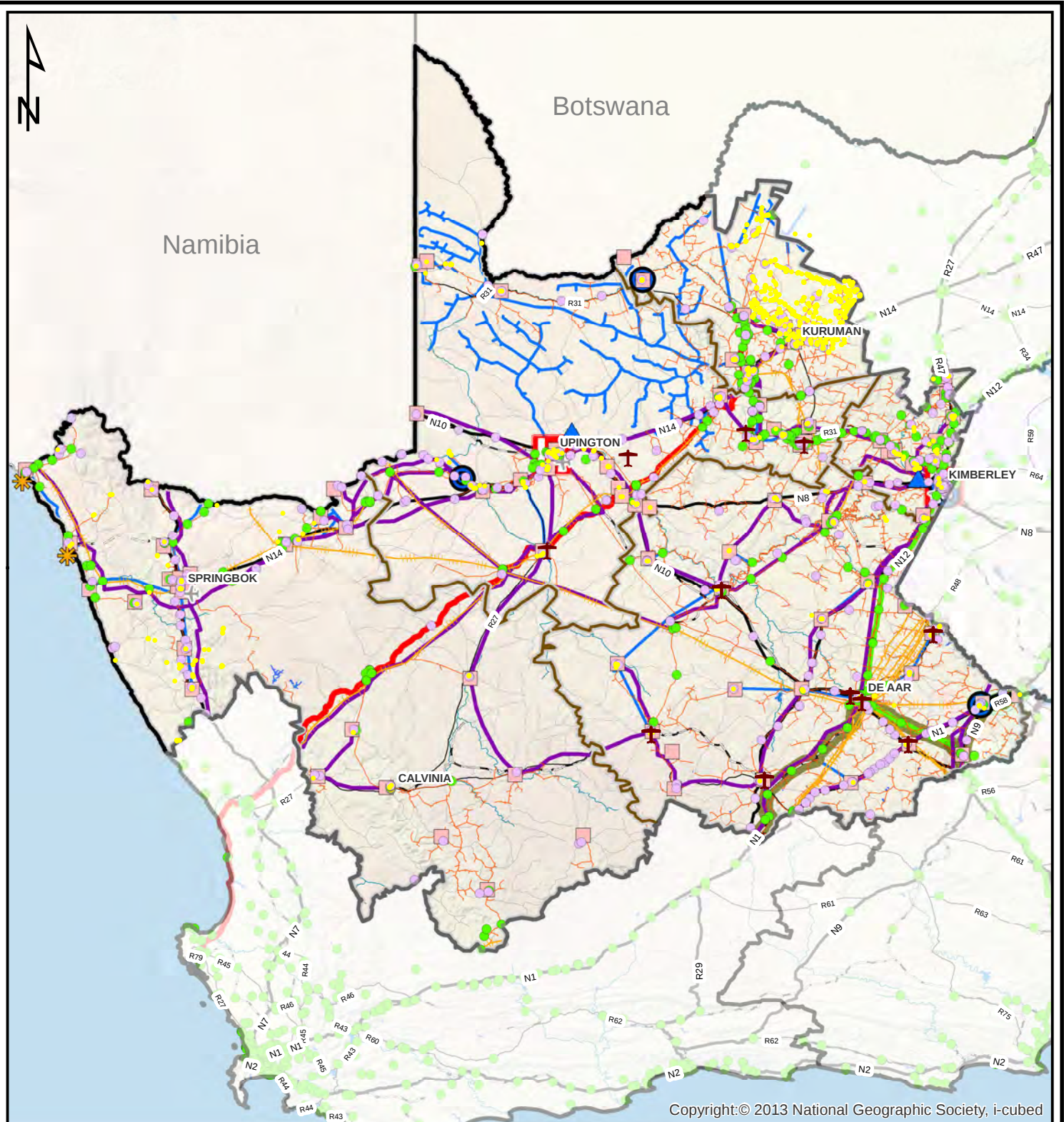
NORTHERN CAPE PROVINCE

Legend

- | | | | | | |
|--|--------------------------------|--|----------------------|--|---------------------|
| | Main Airports | | Railway Lines | | Fruit & Nut Region |
| | Foodmarkets | | Major Roads | | Poultry Region |
| | Abattoirs | | Main Roads | | Sub Protein Region |
| | Farmer Production Support Unit | | Main Rivers | | Main Protein Region |
| | Aquaculture | | Ring Roads | | |
| | Harbour | | 60km Agrihub Buffer | | |
| | Agri Hubs | | Nature Reserve Zones | | |
| | Silos | | Water Schemes | | |
| | | | Pivot Irrigation | | |
| | | | Dams | | |



0 25 50 100 150 km



PATHS TO PROSPERITY
DRIVER 1: ECONOMIC GROWTH, DEVELOPMENT AND PROSPERITY
 COMPETITIVE INFRASTRUCTURE DEVELOPMENT

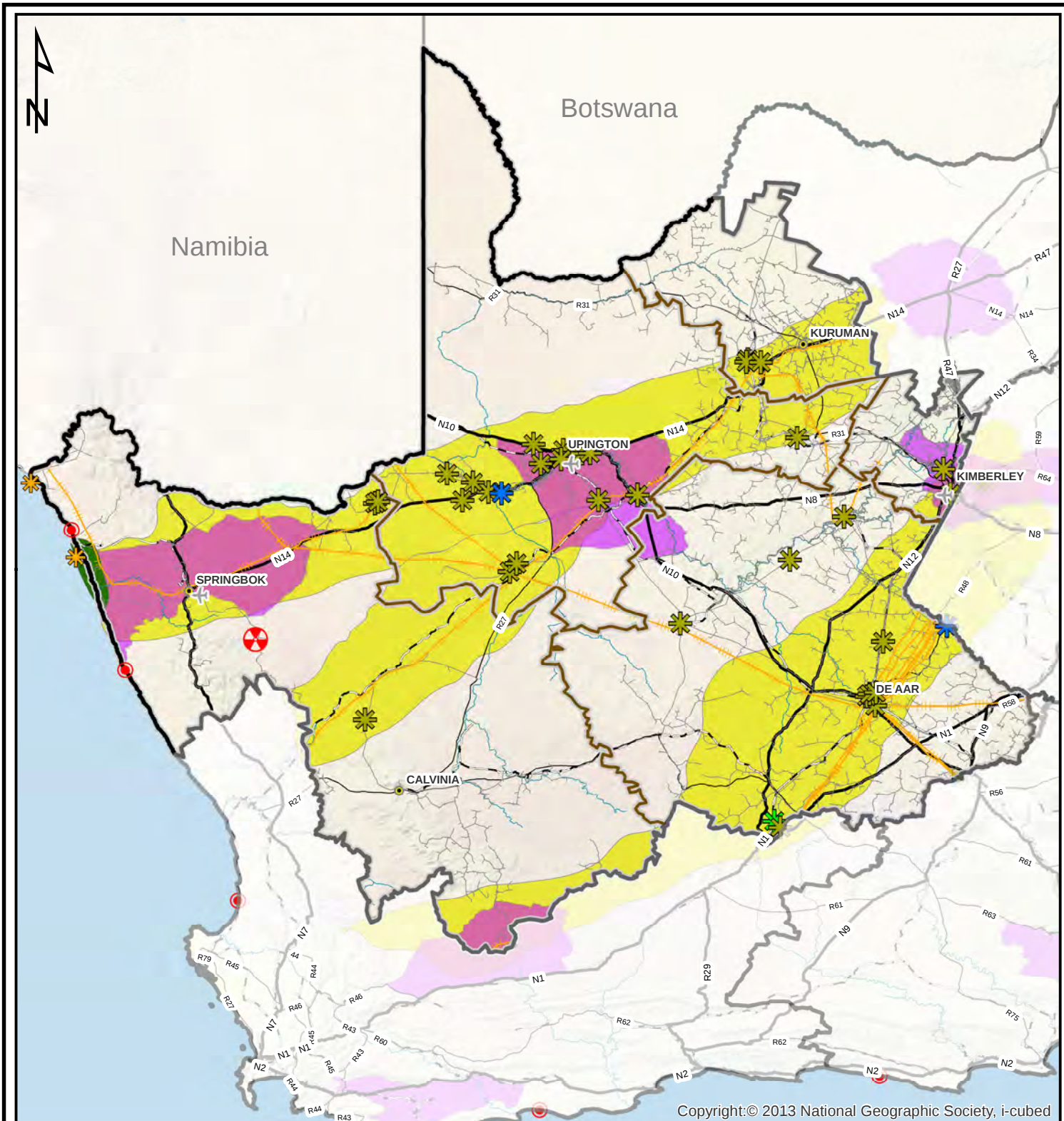
Legend

- | | | | |
|--------------------|------------------------------|------------------------|--------------------------|
| ● Reservoir | ■ Wastewater Treatment Works | — Eskom HV Lines | — Railway Lines |
| ● Substations | ▲ University | — Eskom MV Lines | — Iron Ore Railway Line |
| ● Cellphone Towers | ● Thusing Centres | — Main Rivers | — Manganese Railway Line |
| ✈ Aero Dome | ■ Main Hospitals | — Secondary Roads | — PRASA Rail Routes |
| ✈ Main Airports | | — Main Roads | ■ Dams |
| ☀ Harbour | | — Major Roads | |
| | | — Bulk Water Pipelines | |
| | | — Broadband Lines | |

NORTHERN CAPE PROVINCE



0 25 50 100 150 km



PATHS TO PROSPERITY
DRIVER 1: ECONOMIC GROWTH, DEVELOPMENT AND PROSPERITY
 DEVELOPMENT OF THE ENERGY SECTOR

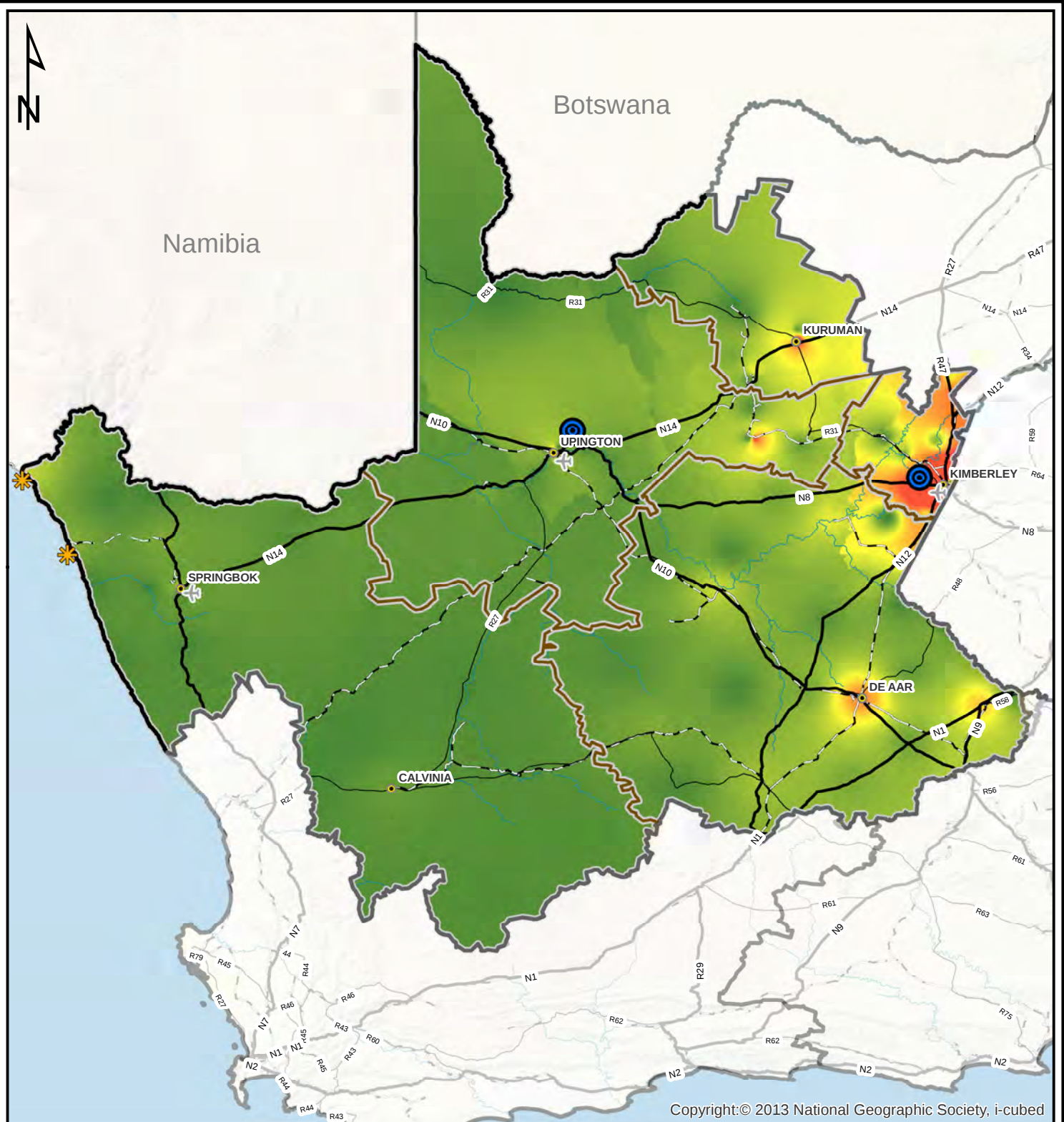
Legend

- | | |
|--------------------------|--------------------------------------|
| ✈ Main Airports | — Eskom HV Lines |
| ● Screened Nuclear Sites | — Eskom MV Lines |
| ✳ Harbour | — Railway Lines |
| ✳ Hydropower Plant | — Major Roads |
| ✳ Solar Energy Plant | — Main Roads |
| ✳ Wind Energy Plant | — Main Rivers |
| ✳ Nuclear Site | ■ Wind Energy Generation |
| | ■ Renewable Energy Development Zones |
| | ■ Eskom Corridors |

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0 25 50 100 150 km



PATHS TO PROSPERITY
DRIVER 1: ECONOMIC GROWTH, DEVELOPMENT AND PROSPERITY
 EMPLOYMENT AND SKILLS DEVELOPMENT

NORTHERN CAPE PROVINCE

Legend

- ✈ Main Airports
- ☀ Harbour
- 🎯 University
- Railway Lines
- Main Roads
- Major Roads
- Main Rivers

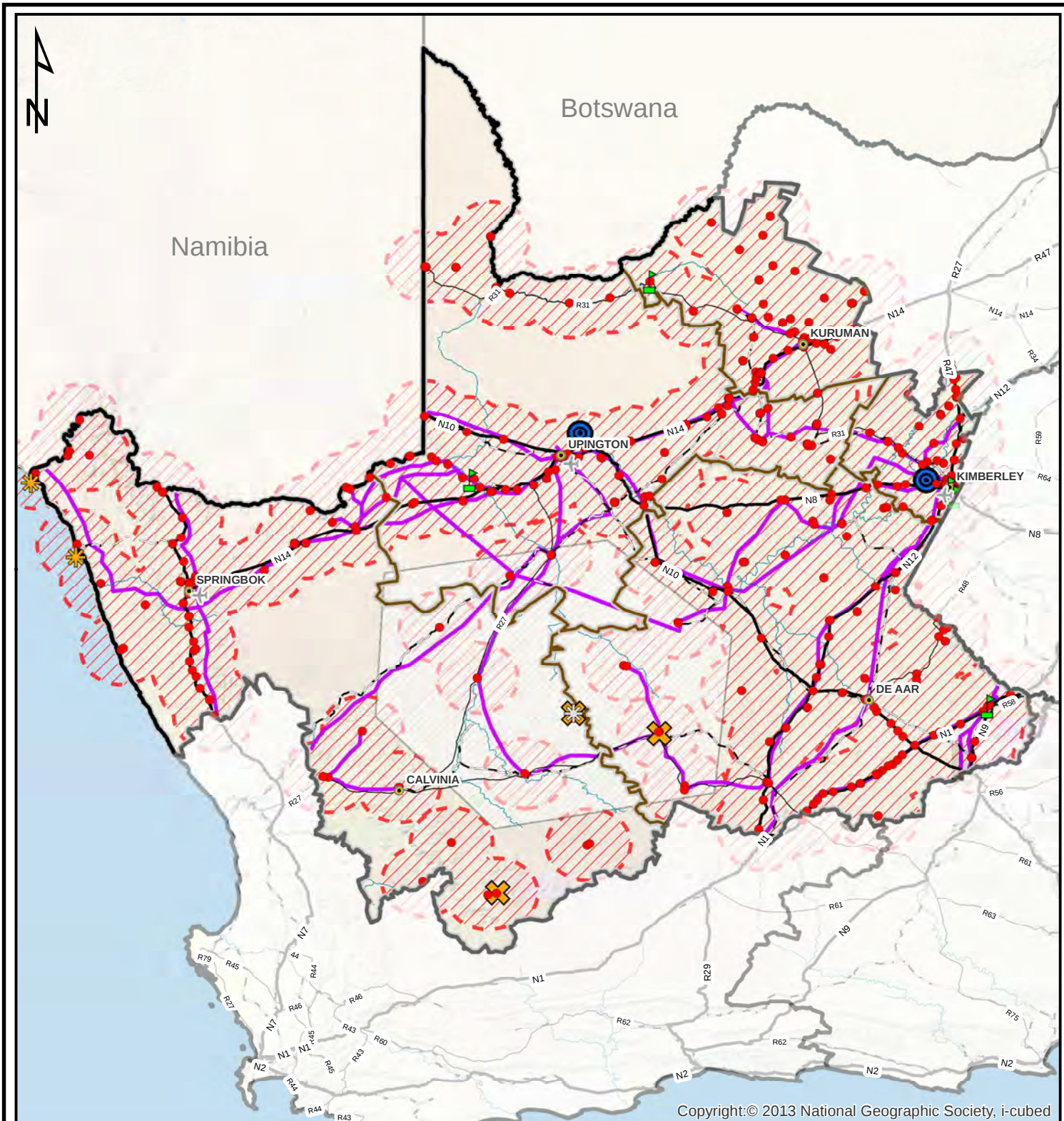
Unemployment Rate

High

Low



0 25 50 100 150 km



PATHS TO PROSPERITY
DRIVER 1: ECONOMIC GROWTH, DEVELOPMENT AND PROSPERITY
 INNOVATION AND KNOWLEDGE ECONOMY

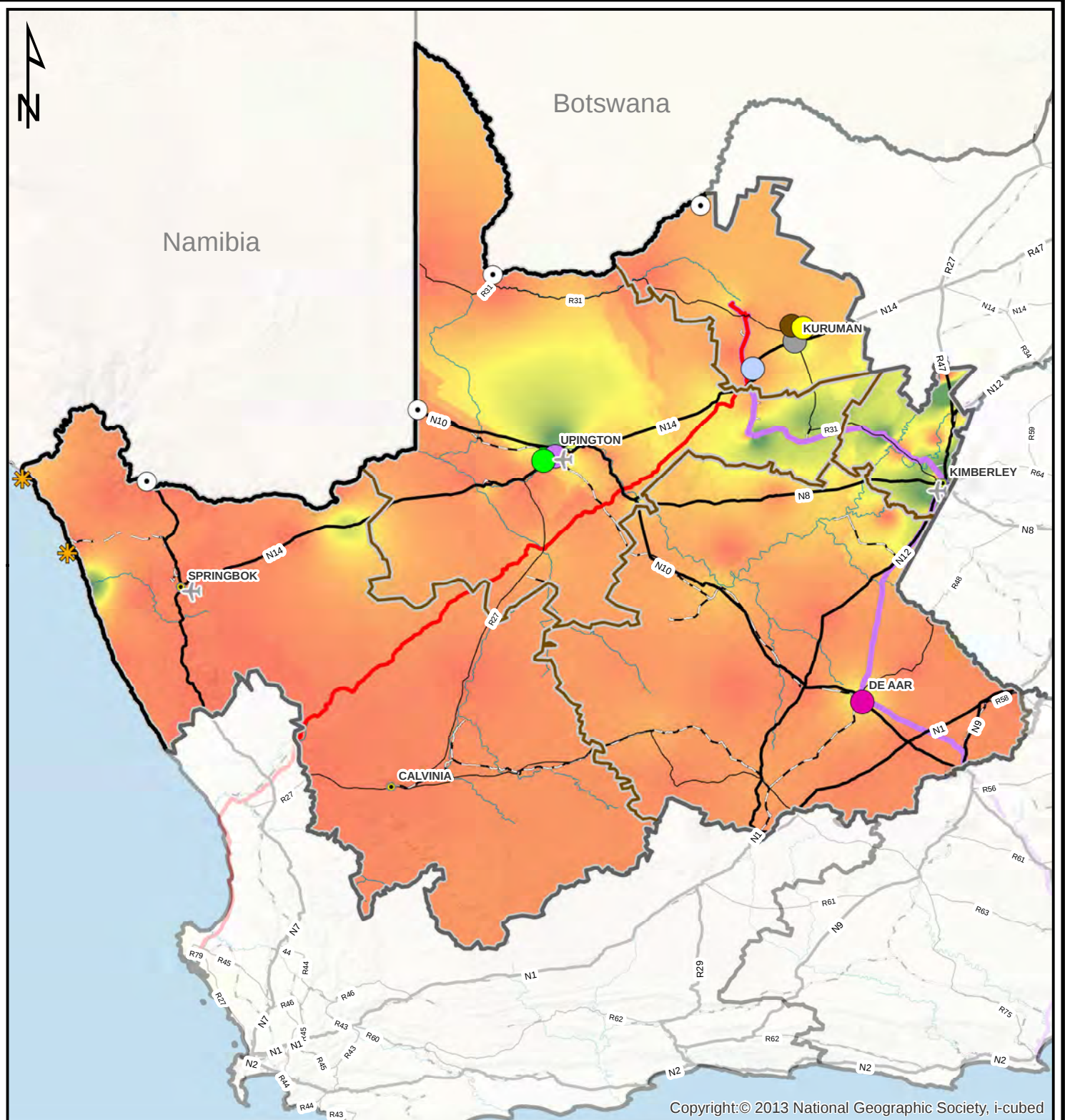
Legend

- Cellphone Towers
- ✈ Main Airports
- 🏠 Thusong Centres
- 🌊 Harbour
- 🌟 SKA Core Site
- 🎯 University
- ✂ Technology Tourism Sites
- Major Roads
- Main Roads
- Railway Lines
- Main Rivers
- Broadband Lines
- ▨ SKA Astronomy Zone
- Cellphone Tower Radius

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0 25 50 100 150 km

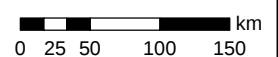
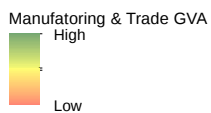


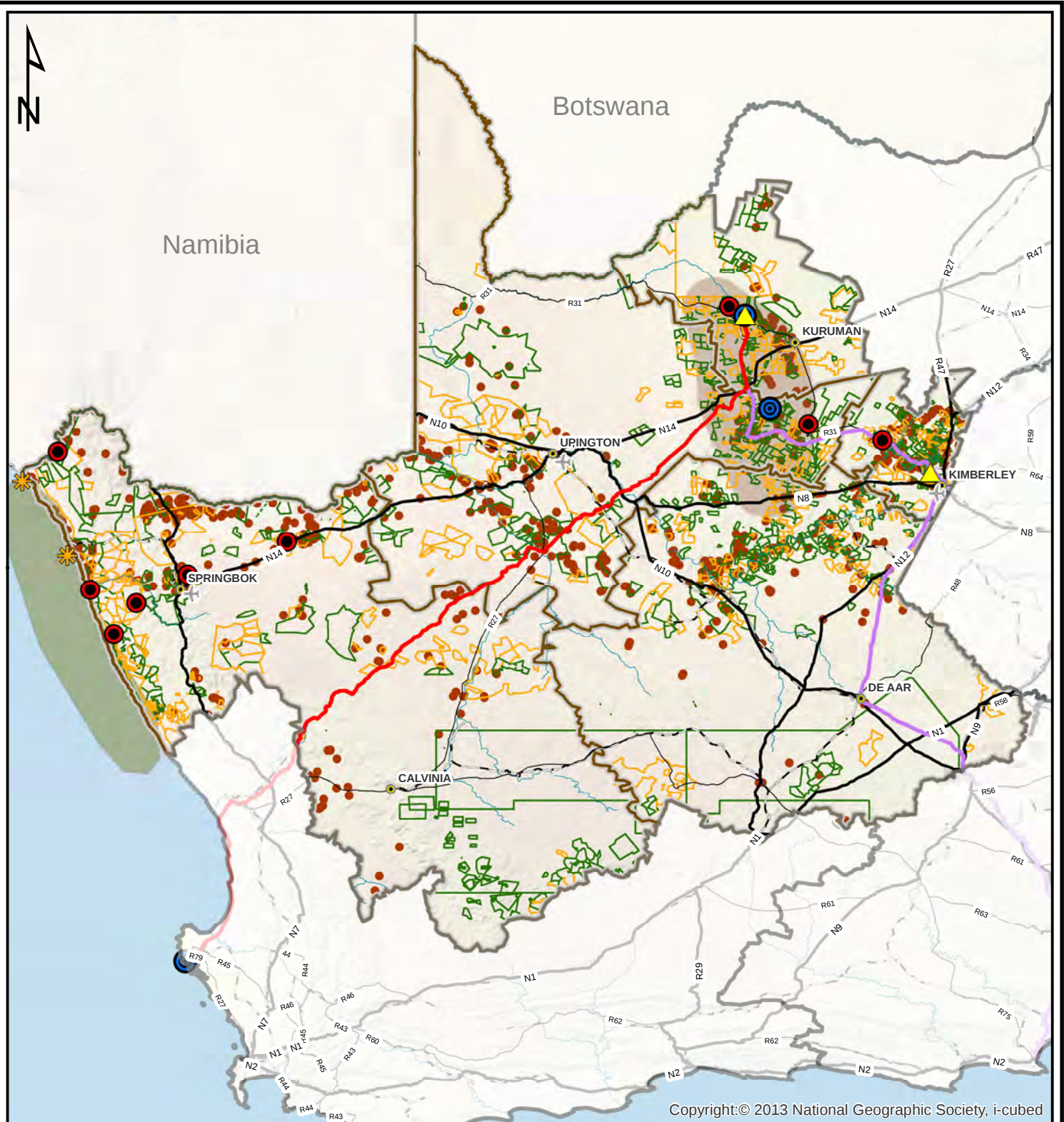
PATHS TO PROSPERITY **DRIVER 1: ECONOMIC GROWTH, DEVELOPMENT AND PROSPERITY** **MANUFACTURING AND TRADE**

NORTHERN CAPE PROVINCE

Legend

- Main Airports
- Border Posts
- Harbour
- SEZ
- Railway Lines
- Main Rivers
- Main Roads
- Major Roads
- Iron Ore Railway Line
- Manganese Railway Line
- Manufacturing & Trade Projects
- Cargo Hub
- Industrial Hub
- Logistics and Electronics Hub
- Mining Textiles Manufacturing
- Proposed Industrial Park
- Proposed Metal Fabrication
- Renewable Energy Manufacturing





PATHS TO PROSPERITY
DRIVER 1: ECONOMIC GROWTH, DEVELOPMENT AND PROSPERITY
 MINING AND MINERAL BENEFICIATION

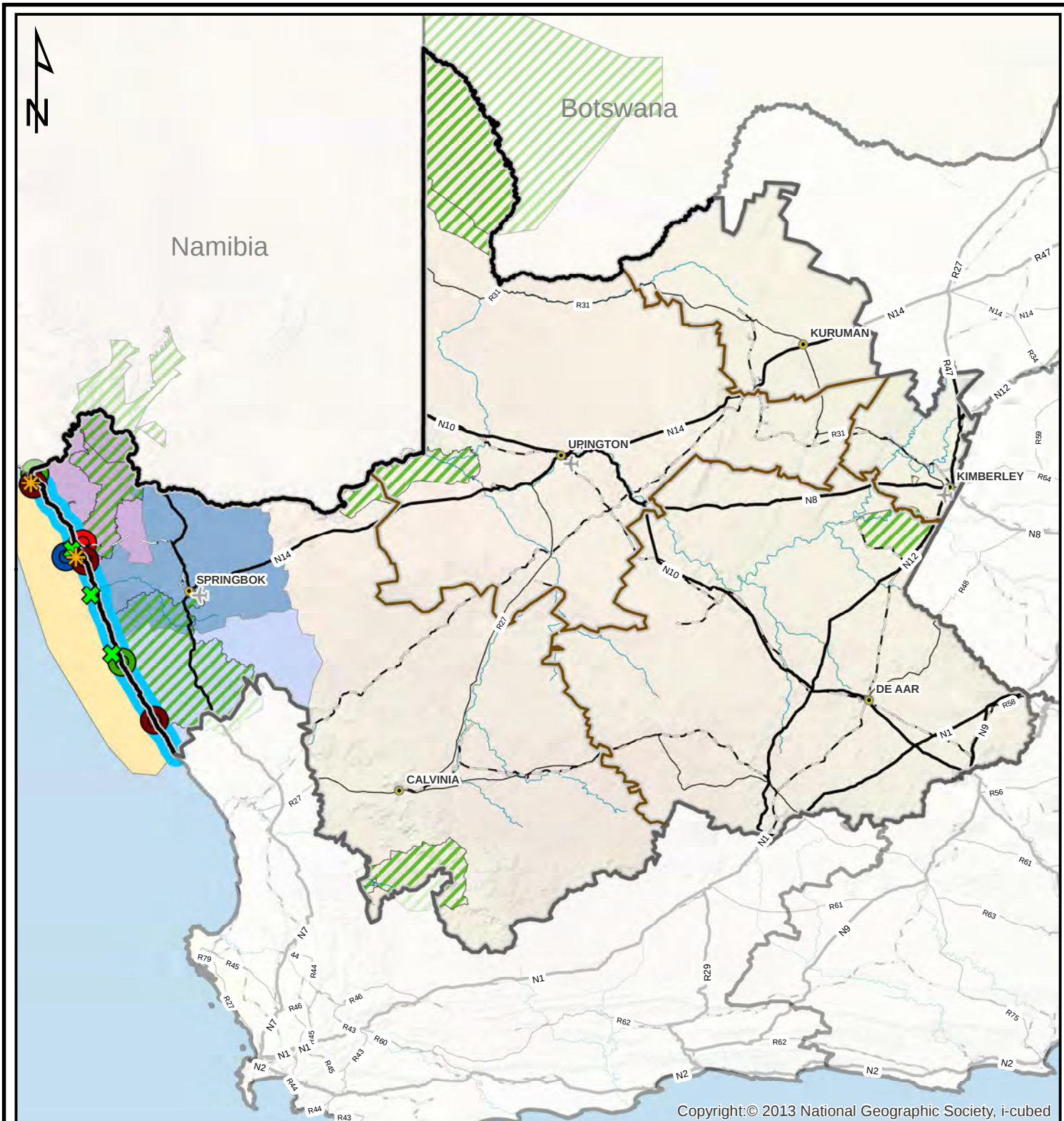
Legend

- Active Mines
- ✈ Main Airports
- ★ Harbour
- ▲ Mining Projects
- Distressed Mining Towns
- Transnet Terminals
- Iron Ore Railway Line
- Manganese Railway Line
- Major Roads
- Main Roads
- Railway Lines
- Main Rivers
- Mining Application Status**
 - Accepted
 - Granted
 - Oil & Gas Exploration
 - Gamagara Mining Corridor

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PATHS TO PROSPERITY
DRIVER 1: ECONOMIC GROWTH, DEVELOPMENT AND PROSPERITY
THE MARITIME ECONOMY

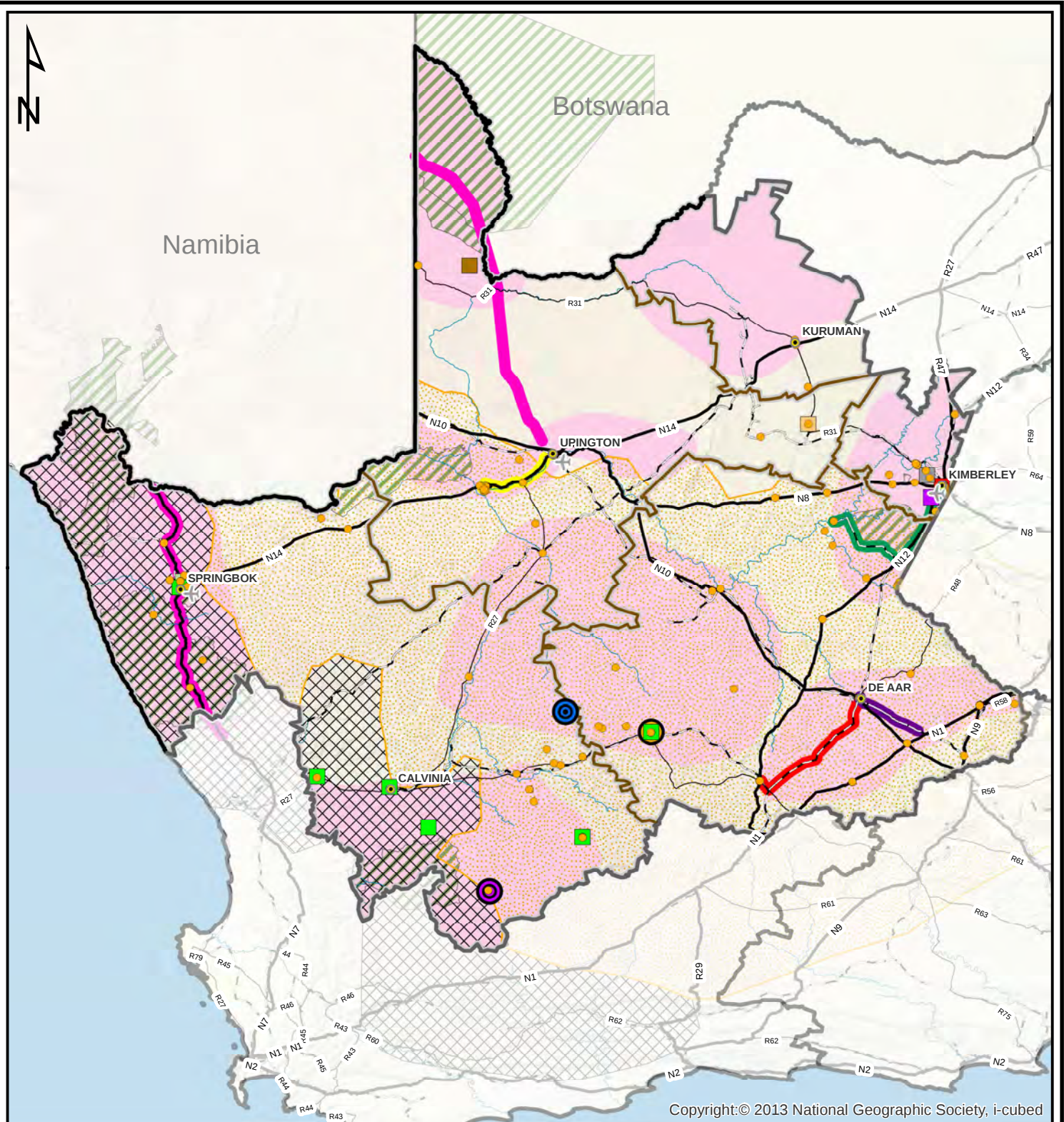
Legend

- | | | |
|-----------------|----------------------------------|-----------------------------|
| ✈ Main Airports | 🌊 Fishing & Mariculture Corridor | 🚢 Marine Tourism Projects |
| 🌊 Harbour | 🛢 Oil & Gas Exploration | 🚤 Boat Based Whale Watching |
| 🌿 Aquaculture | 🌿 Nature Reserve Zones | 🌿 Coastal Tourism Nodes |
| 🚂 Railway Lines | 🌊 Coastal Municipalities | 🔴 Lobster Processing Plant |
| 🌊 Main Rivers | 🌊 Kamiesberg | 🌊 Marine Environment |
| 🛣 Main Roads | 🌊 Nama Khoi | |
| 🛣 Major Roads | 🌊 Richtersveld | |

NORTHERN CAPE PROVINCE



0 25 50 100 150 km



PATHS TO PROSPERITY DRIVER 1: ECONOMIC GROWTH, DEVELOPMENT AND PROSPERITY TOURISM MARKET DEVELOPMENT

Legend

- | | | |
|--------------------------------|--------------------------|--|
| ✈ Main Airports | Technology Tourism Sites | De Aar to Hanover Road Steamtrain Route |
| ● Heritage Sites | Meerkat | De Aar to Victoria West Steamtrain Route |
| Tourism Projects | SALT | Kimberley to Douglas Steamtrain Route |
| Big Hole Precinct | SKA | Upington to Kakamas Steamtrain Route |
| Carnarvon Science Centre | Major Roads | Tourism Corridor |
| Festival | Main Roads | Nama Karoo |
| Hakskeenpan | Main Rivers | Succulent Karoo |
| Kumba Skate Plaza | Railway Lines | Nature Reserve Zones |
| Namaqua Cycling Route | | Tourism Clusters |
| Wildebeestkuil Rock Art Centre | | |
| Wonderwerk Caves | | |

NORTHERN CAPE PROVINCE



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NORTHERN CAPE DEVELOPMENT DRIVERS

DRIVER 2: SOCIAL EQUITY & HUMAN WELFARE

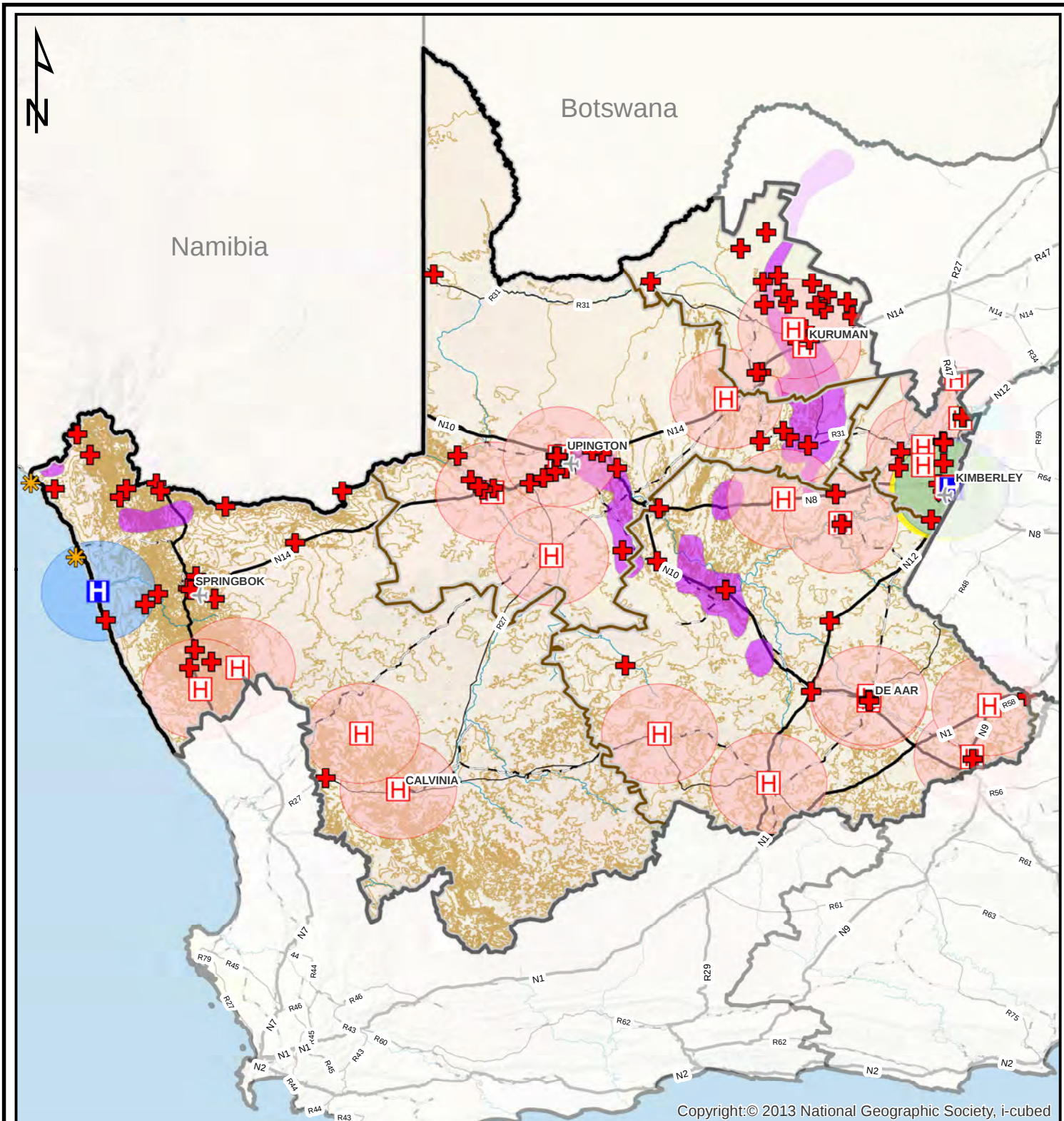
1. Quality Basic Education
2. Social Cohesion and Community Participation
3. Social Protection and Safety
4. Health
5. Rural Development, Land Reform and Food Security.



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PROVINCIAL SPATIAL DEVELOPMENT FRAMEWORK





PATHS TO PROSPERITY
DRIVER 2: SOCIAL EQUITY AND HUMAN WELFARE
HEALTH

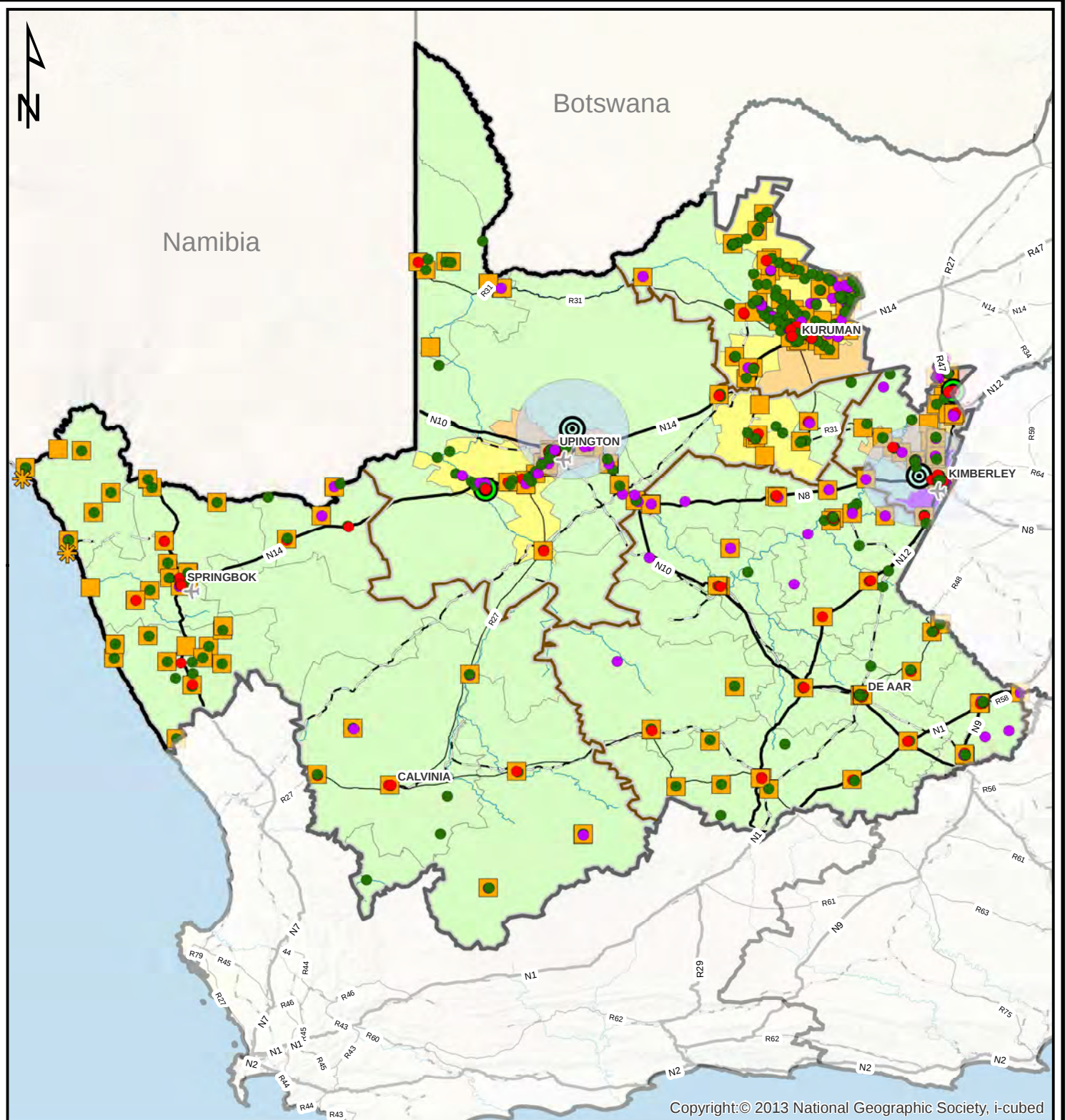
Legend

- | | | | |
|--|-------------------|--|-------------------------------|
| | Main Airports | | Railway Lines |
| | Harbour | | Main Rivers |
| | Private Hospital | | 100m Contours |
| | Clinic | | Main Roads |
| | District Hospital | | Major Roads |
| | Special Care | | Private Hospital 50km Buffer |
| | | | Special Care 50km Buffer |
| | | | District Hospital 50km Buffer |
| | | | Asbestos Mine |

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PATHS TO PROSPERITY
DRIVER 2: SOCIAL EQUITY AND HUMAN WELFARE
QUALITY EDUCATION

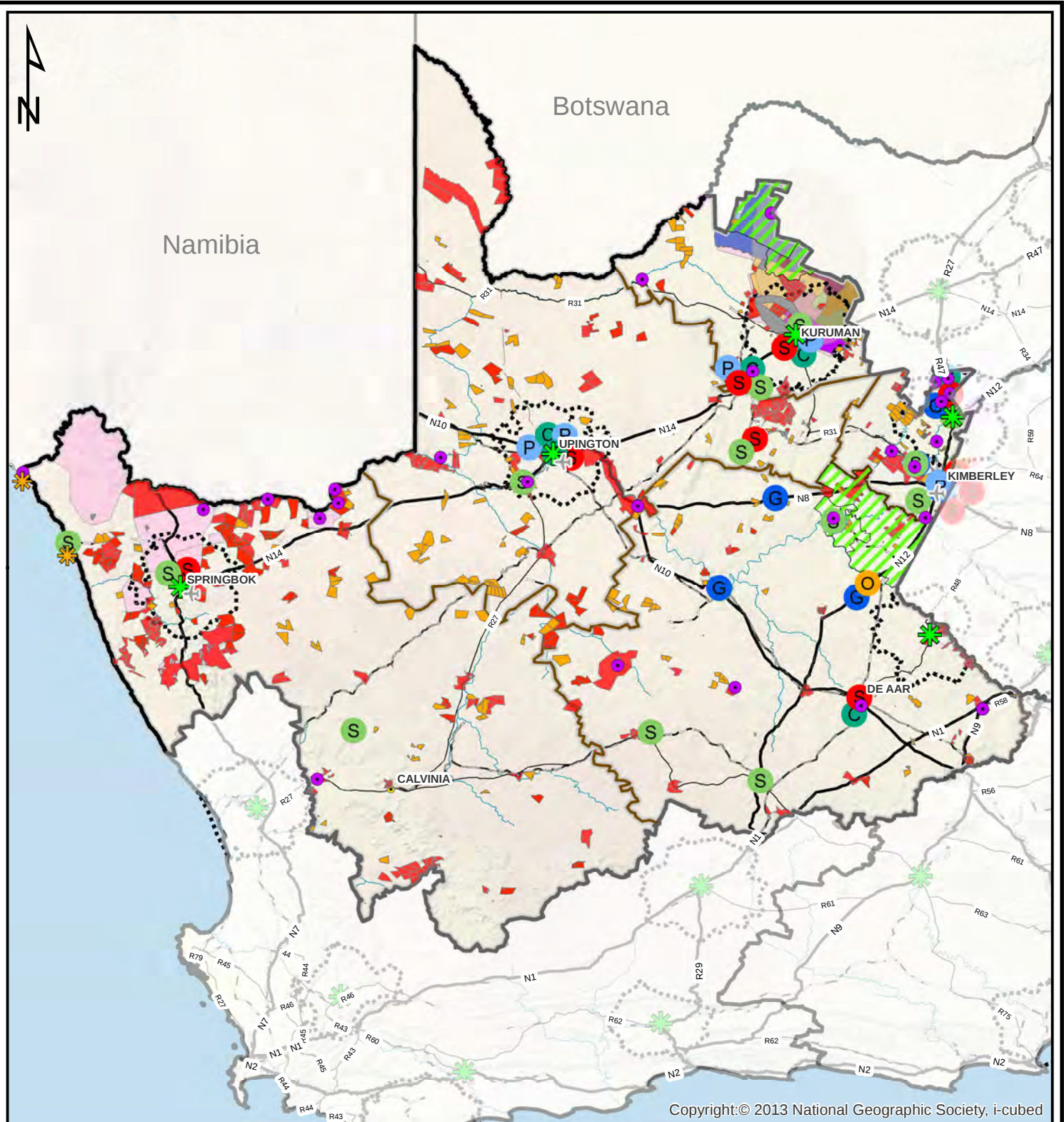
Legend

- | | | | |
|--|---------------------|--|--------------------------------|
| | Main Airports | | Railway Lines |
| | Harbour | | Major Roads |
| | Combined School | | Main Roads |
| | Intermediate School | | Main Rivers |
| | Primary School | | Tertiary Education 50km Buffer |
| | Secondary School | Population Density (Person Per Hectare) | |
| | Agricultural School | | <5 |
| | University | | 10-25 |
| | Library | | 25-50 |
| | | | 50-100 |
| | | | >100 |

NORTHERN CAPE PROVINCE



0 25 50 100 150 km



PATHS TO PROSPERITY DRIVER 2: SOCIAL EQUITY AND HUMAN WELFARE RURAL DEVELOPMENT

Legend

✈ Main Airports

✿ Harbour

✿ Agri Hubs

● Farmer Production Support Unit

Northern Cape Markets

● Checkers

● GWK

● OVK

● Pick n Pay

● Shoprite

● Spar

— Railway Lines

— Major Roads

— Main Roads

— Main Rivers

⬜ 60km Agrihub Buffer

▨ CRDP Site

▨ State Owned Land

▨ Land Reform Farm

▨ REID Projects

▨ RID Projects

▨ Rural Regeneration Zone

▨ Trancraa Area

Traditional Authorities

Chief's Names:

▨ Diako S

▨ Jantjie K E

▨ Kemokotile S

▨ Leburu E W

▨ Mahuru B V

▨ Motswarakgole M

▨ Phethlu P E

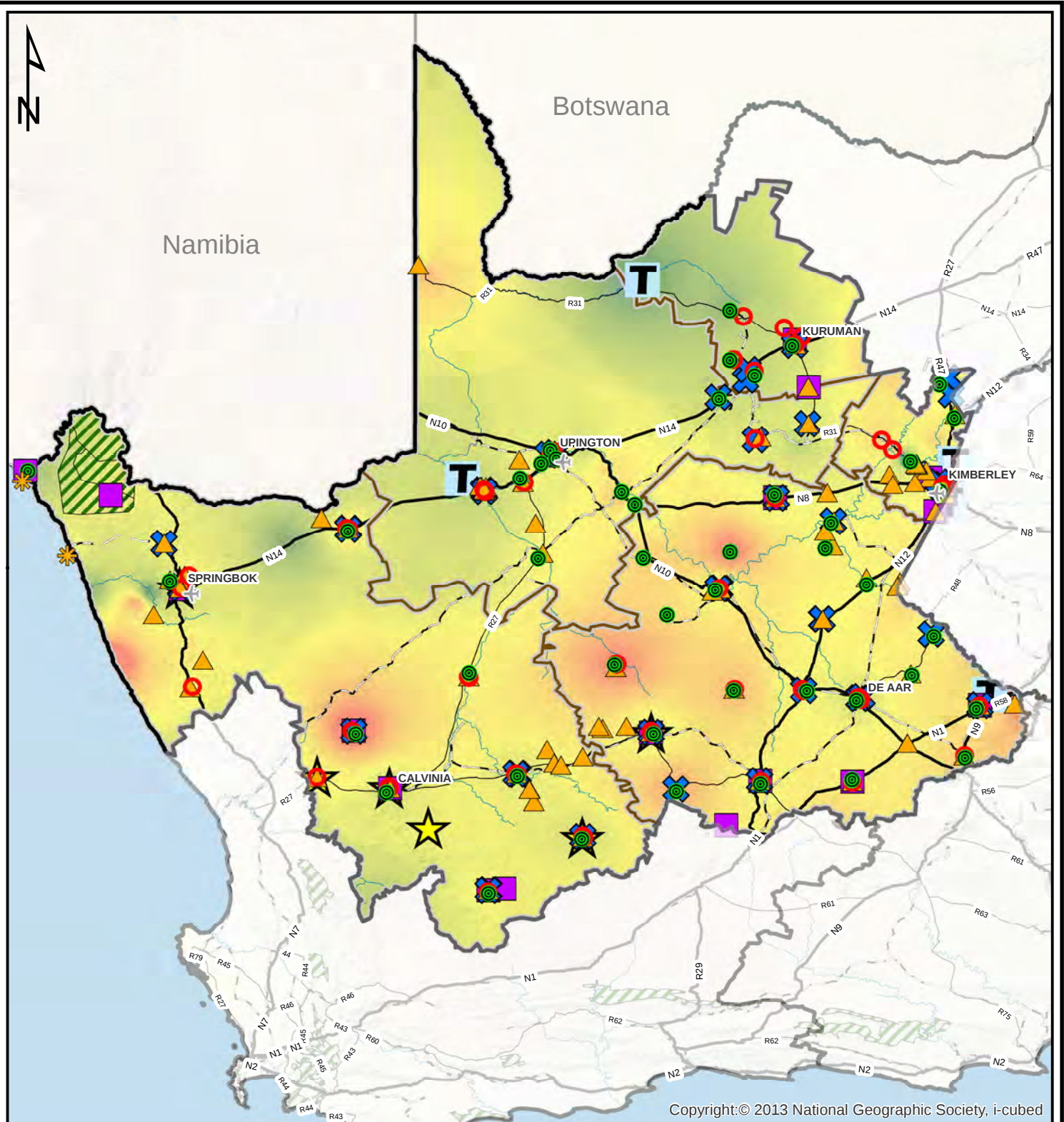
▨ Taganyane M G

▨ Toto K P

NORTHERN CAPE PROVINCE



0 25 50 100 150 km



PATHS TO PROSPERITY
DRIVER 2: SOCIAL EQUITY AND HUMAN WELFARE
 SOCIAL COHESION AND COMMUNITY PARTICIPATION

Legend

- | | | | | | |
|--|-------------------|--|-----------------|--|----------------------|
| | Main Airports | | Thusong Centres | | World Heritage Sites |
| | Harbour | | Festival | | Poverty Levels |
| | Rifle Ranges | | Major Roads | | High |
| | Sports Facilities | | Main Roads | | Low |
| | Heritage Sites | | Railway Lines | | |
| | Old Age Homes | | Main Rivers | | |
| | Museums | | | | |

NORTHERN CAPE PROVINCE



0 25 50 100 150 km

NORTHERN CAPE DEVELOPMENT DRIVERS

DRIVER 3: ENVIRONMENTAL SUSTAINABILITY AND RESILIENCE

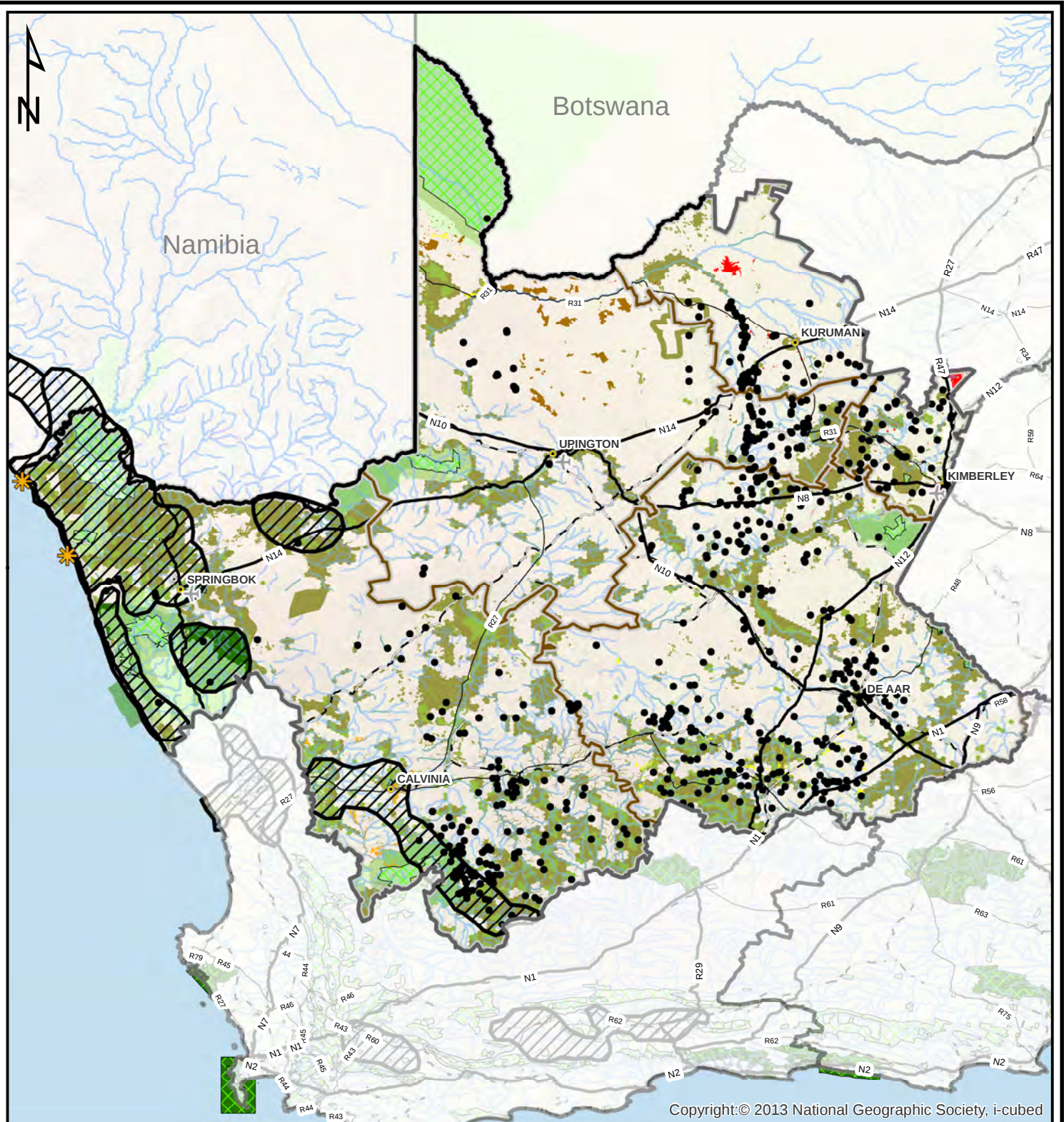
1. Improve Environmental Sustainability
2. Sustainable Human Settlements (incl. small towns)



NORTHERN CAPE

PROVINCIAL SPATIAL DEVELOPMENT FRAMEWORK





PATHS TO PROSPERITY
DRIVER 3: ENVIRONMENTAL SUSTAINABILITY AND RESILIENCE
 ENVIRONMENTAL SUSTAINABILITY

Legend

- Licensed Boreholes
- ✈ Main Airports
- ☀ Harbour
- Railway Lines
- River Corridors
- Main Roads
- Major Roads
- ▨ SKEP Geographic Priorities
- ▧ National Protected Areas
- ▦ Nature Reserve Buffers
- ▥ National Parks
- ▤ Expansion Areas

Degraded Land

- Bare Rock & Eroded Land
- Degraded Shrubland & Fynbos
- Degraded Thicket & Bushveld
- Degraded Grassland

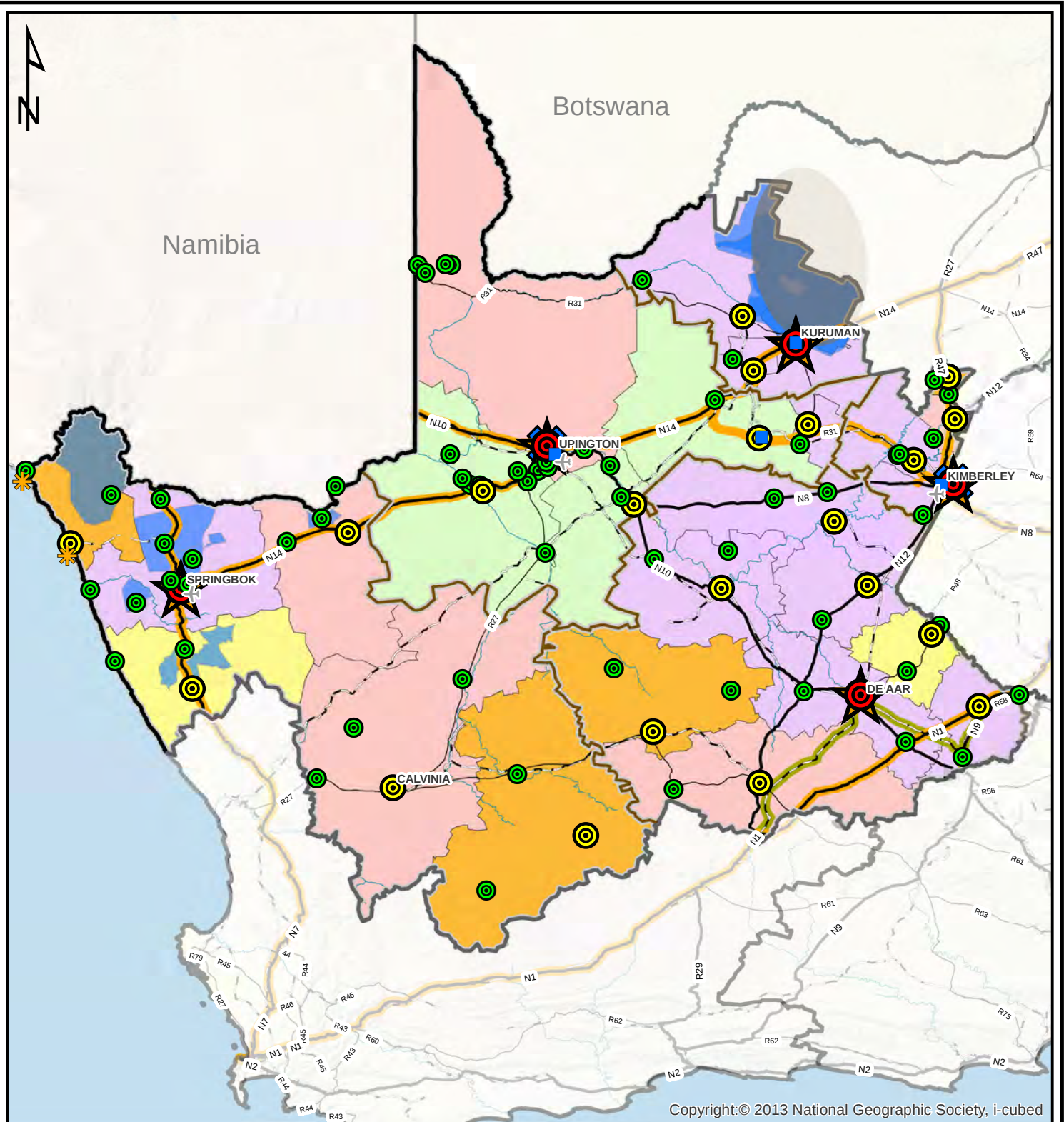
Critical Biodiversity Areas

- Critical Biodiversity Area One
- Critical Biodiversity Area Two

NORTHERN CAPE PROVINCE



0 25 50 100 150 km



NORTHERN CAPE PROVINCE



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NORTHERN CAPE DEVELOPMENT DRIVERS

DRIVER 4: ACCOUNTABLE & EFFECTIVE GOVERNANC

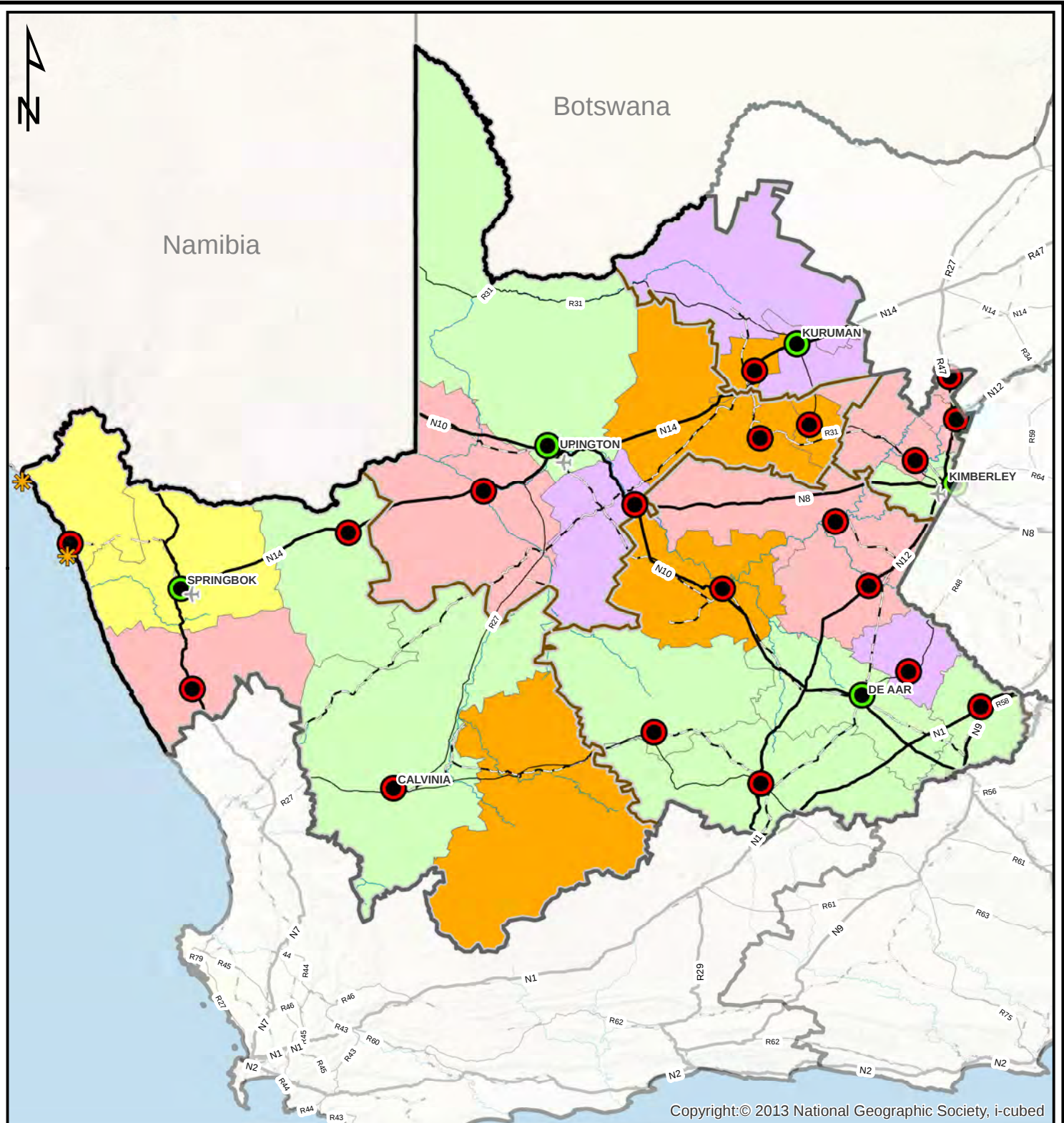
1. **Accountable Local Government**
2. **Development Orientated Public Services**
3. **Inter-Government Relations**
4. **Human Resource Development**



NORTHERN CAPE

PROVINCIAL SPATIAL DEVELOPMENT FRAMEWORK





PATHS TO PROSPERITY
DRIVER 4: THE NORTHERN CAPE GOVERNANCE MODEL
 ACCOUNTABLE LOCAL GOVERNMENT

NORTHERN CAPE PROVINCE

Legend

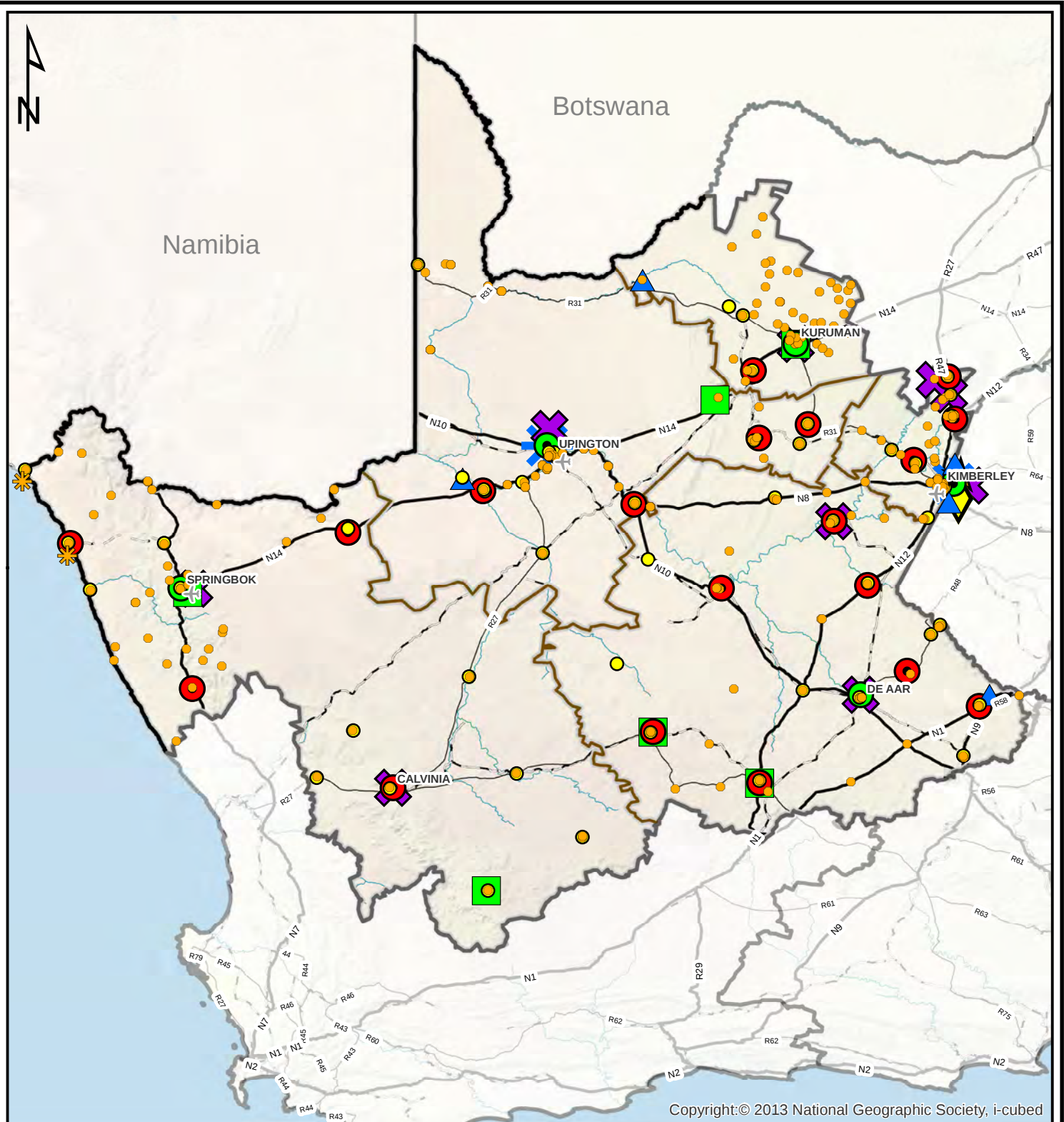
- Main Airports
- Harbour
- Local Municipal Seat
- Local Municipal Seat/ District Municipal Seat
- Major Roads
- Main Roads
- Railway Lines
- Main Rivers

Municipal Compliance Score

- 12 - 5
- 5.1 - 10
- 10.1 - 15
- 15.1 - 20
- > 20



0 25 50 100 150 km



PATHS TO PROSPERITY
DRIVER 4: THE NORTHERN CAPE GOVERNANCE MODEL
 DEVELOPMENT ORIENTATED PUBLIC SERVICES

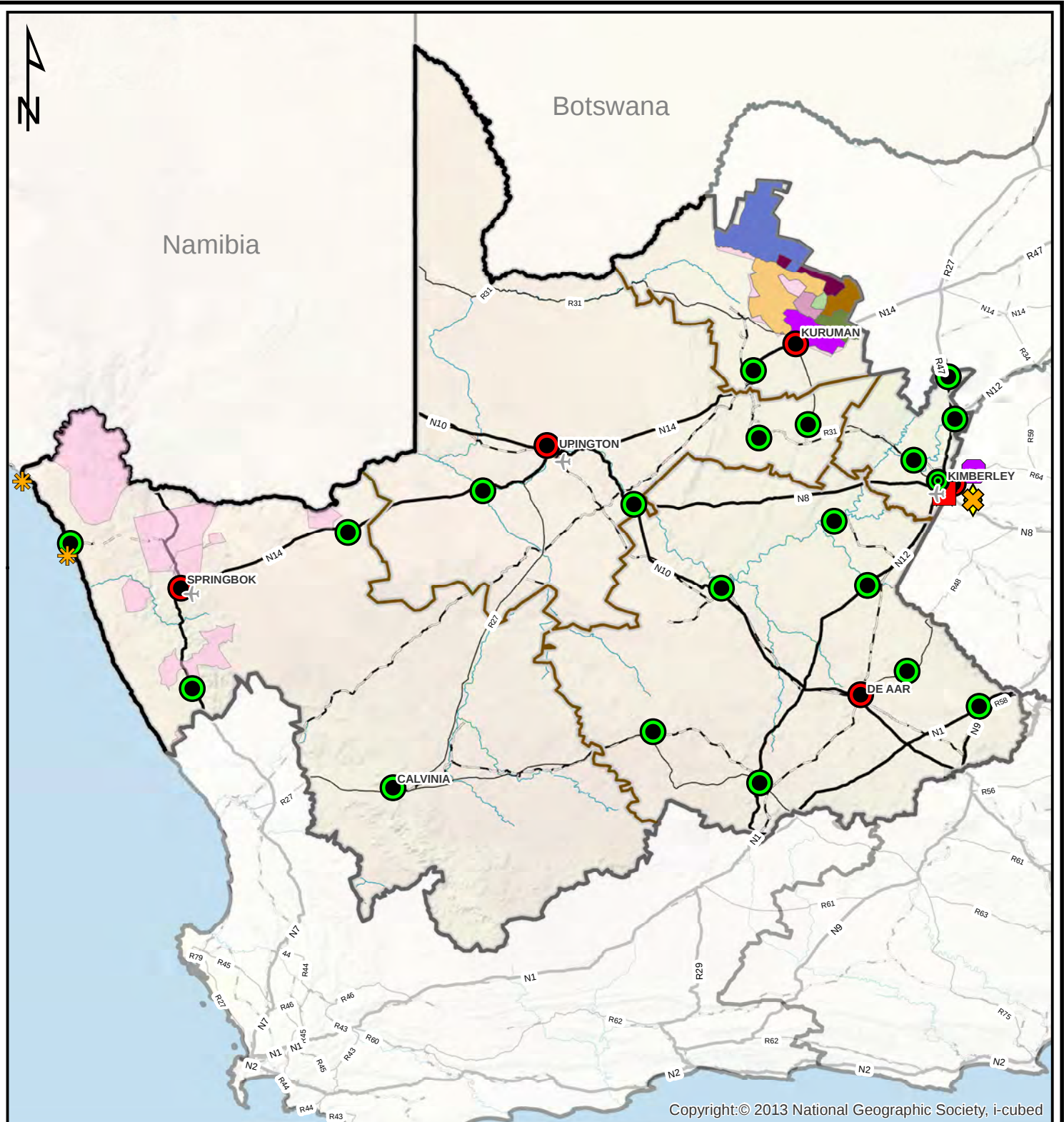
NORTHERN CAPE PROVINCE

Legend

- | | | |
|-------------------|--------------------------|---|
| ✈ Main Airports | ◆ Provincial Legislature | ● Local Municipal Seat |
| ✴ Harbour | ★ High Court | ● Local Municipal Seat/ District Municipal Seat |
| ● Libraries | ✕ Home Affairs | — Major Roads |
| ● Post Office | ✱ SARS | — Main Roads |
| ▲ Thusong Centres | ■ Magistrate Court | — Railway Lines |
| | | — Main Rivers |



0 25 50 100 150 km



PATHS TO PROSPERITY DRIVER 4: THE NORTHERN CAPE GOVERNANCE MODEL INTERGOVERNMENTAL RELATIONS

Legend

✈ Main Airports

☀ Harbour

🌐 COGHSTA

🏠 Office of the Premier

🌐 Local Municipal Seat

🌐 Local Municipal Seat/ District Municipal Seat



Department of Education



Department of Environmental Affairs



Department of Health



Department of Roads & Public Works



Department of Social Development



Department of Sports, Arts & Culture

— Railway Lines

— Main Roads

— Major Roads

— Main Rivers

— Transcraa Area

Traditional Authorities

Chief's Names:

Diako S

Jantjie K E

Kemokotile S

Leburu E W

Mahuru B V

Motswarakgole M

Phethlu P E

Taganyane M G

Toto K P

NORTHERN CAPE PROVINCE



0 25 50 100 150 km

SPATIAL CHALLENGES AND OPPORTUNITIES

HUMAN SETTLEMENTS
INFRASTRUCTURE DEVELOPMENT
CONNECTIVITY AND MOBILITY
RESOURCES

1. Poverty and Vulnerability;
 2. Population concentrations;
 3. Settlement and Housing;
 4. Economic concentrations.
 5. Basic Services;
 6. Energy;
 7. Technology.
 8. Public transportation.
 9. Environmental Resources
 10. Tourism resources;
 11. Agricultural resources; and
 12. Competing resources.
- Mining resources;

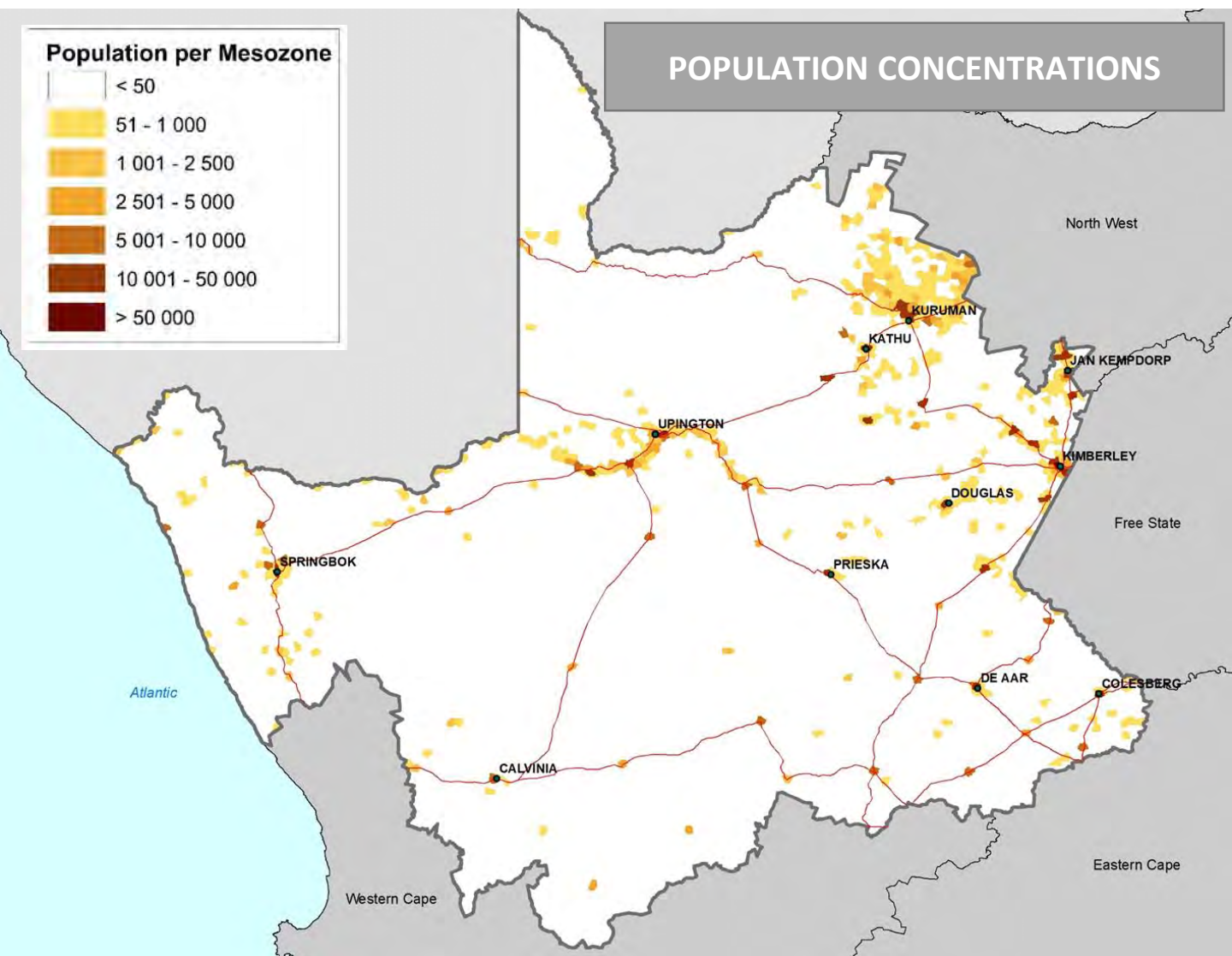
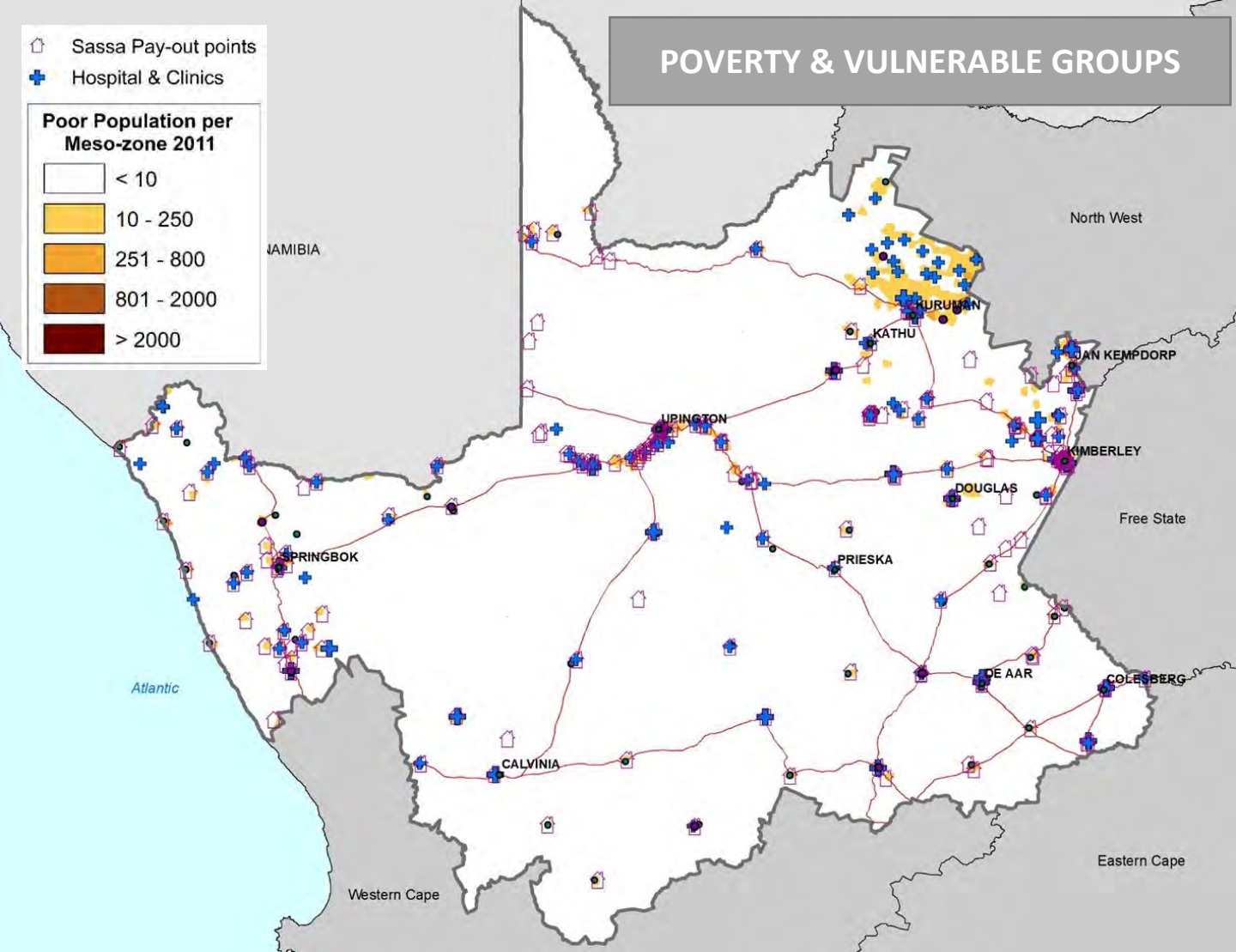


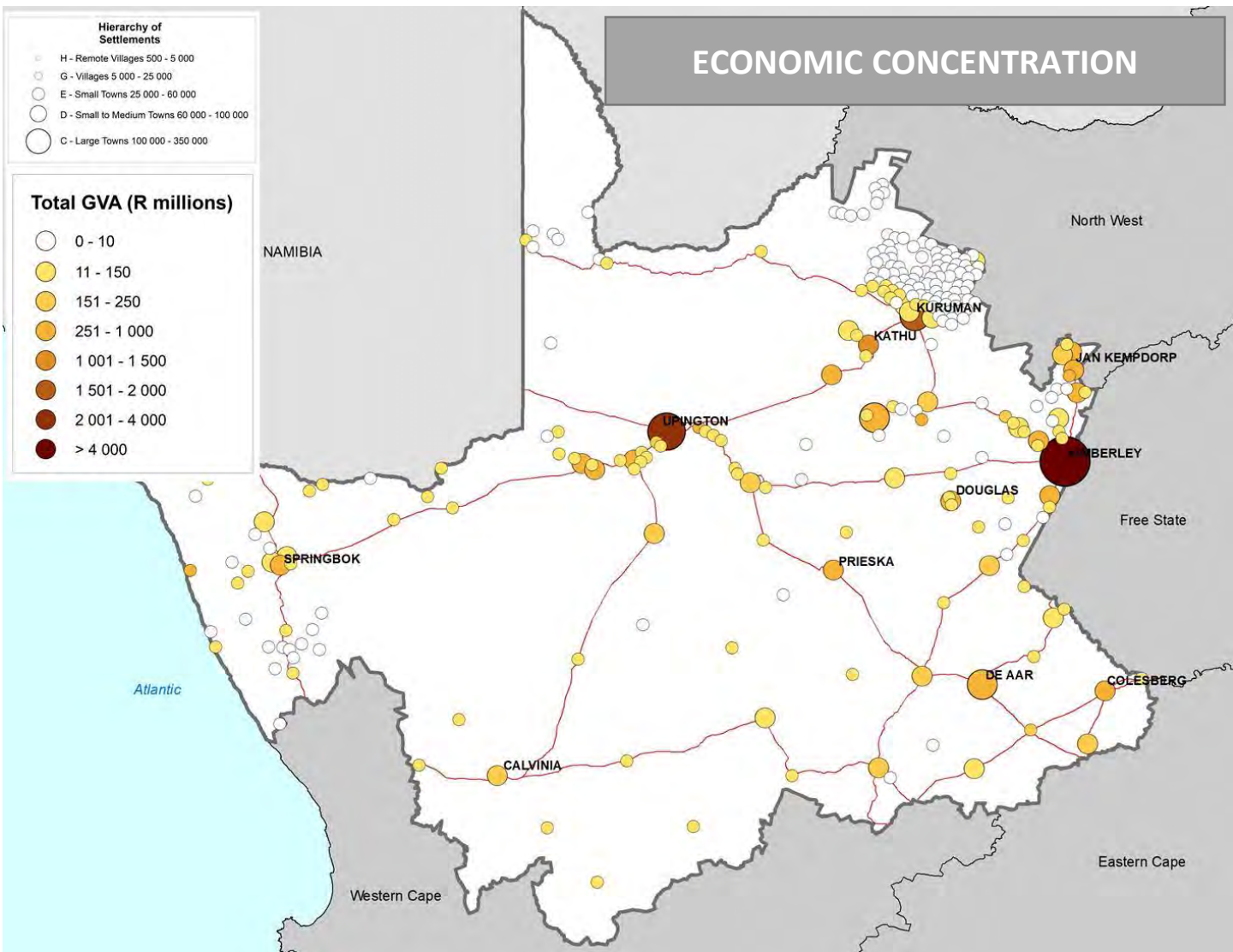
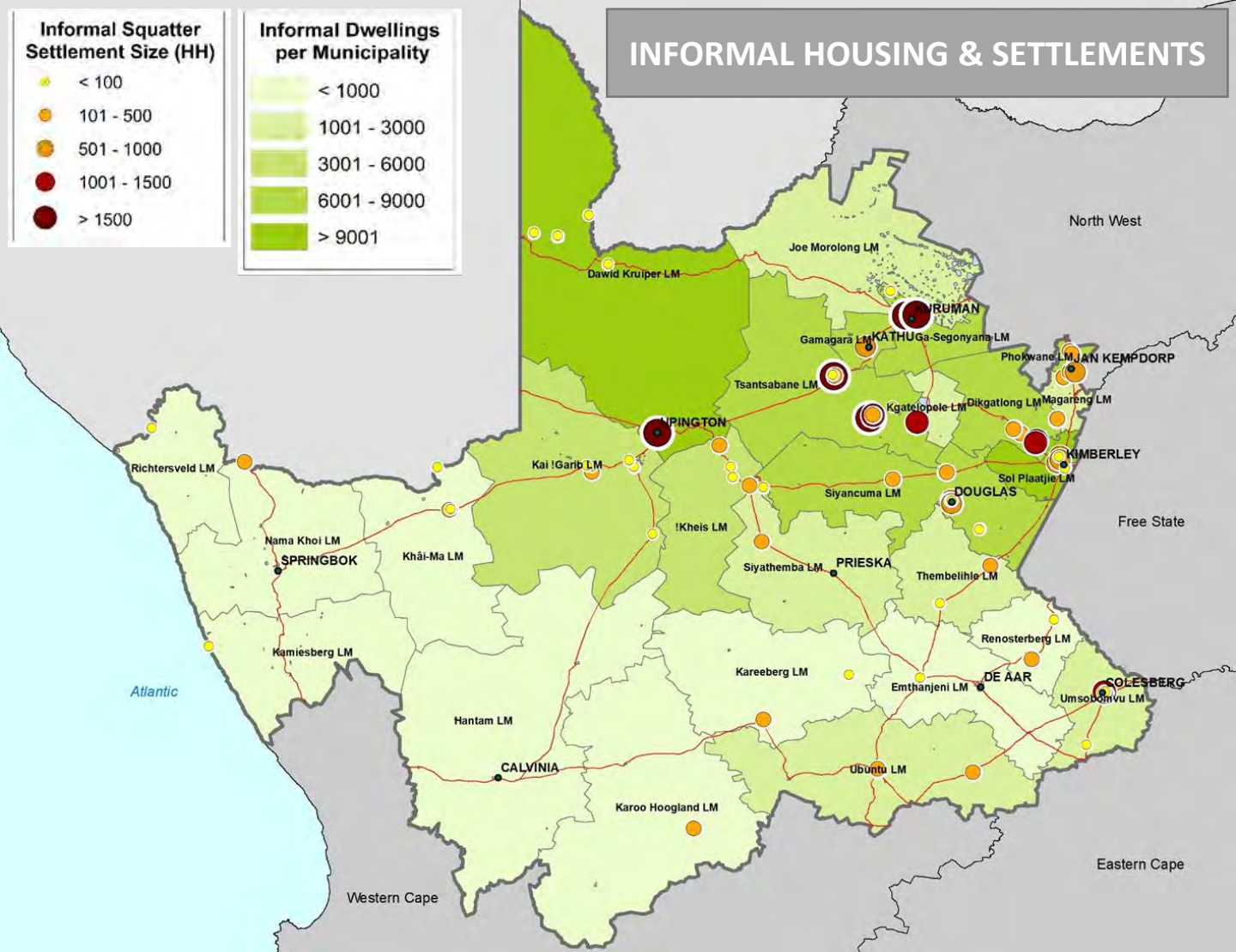
NORTHERN CAPE
**PROVINCIAL SPATIAL
DEVELOPMENT FRAMEWORK**

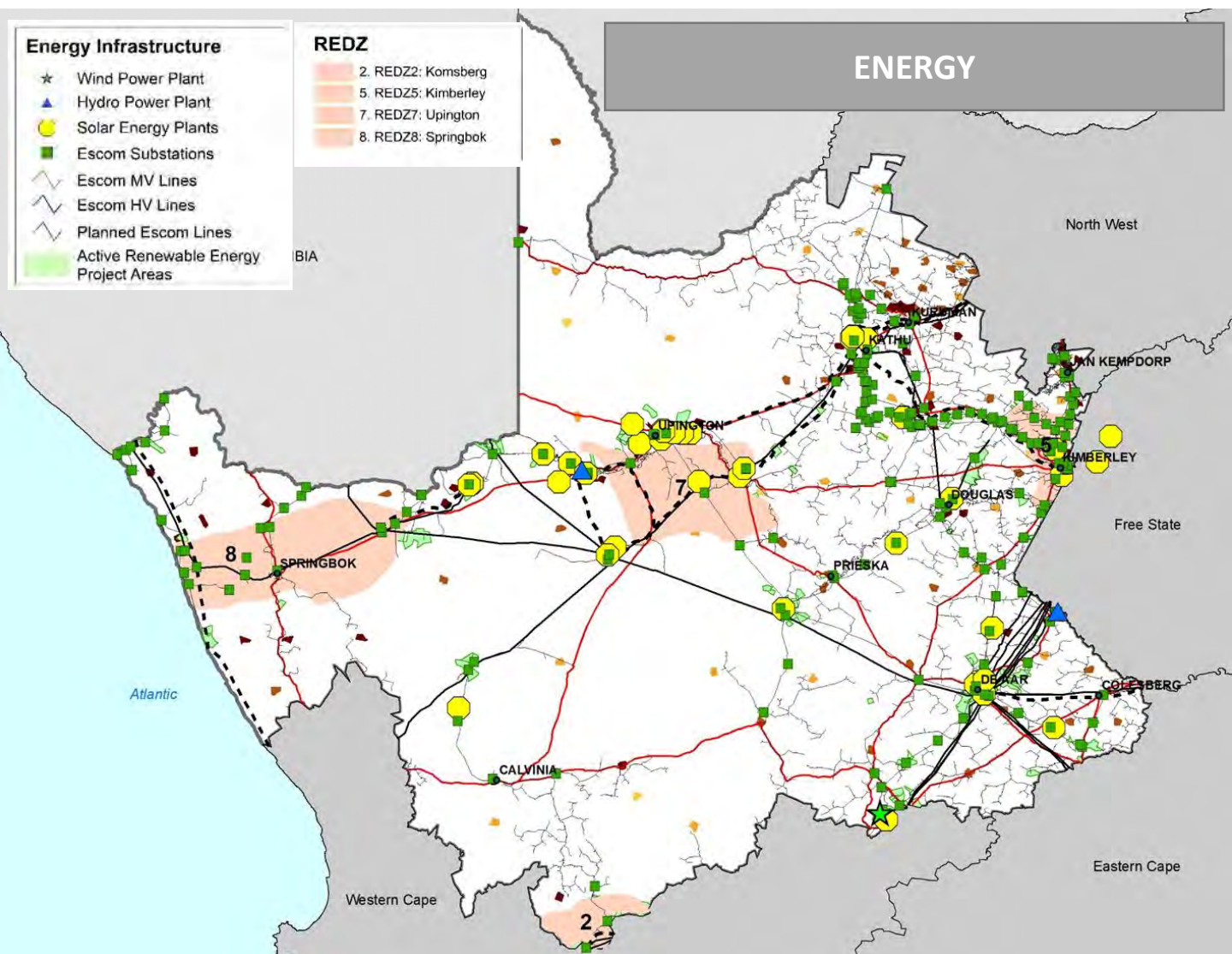
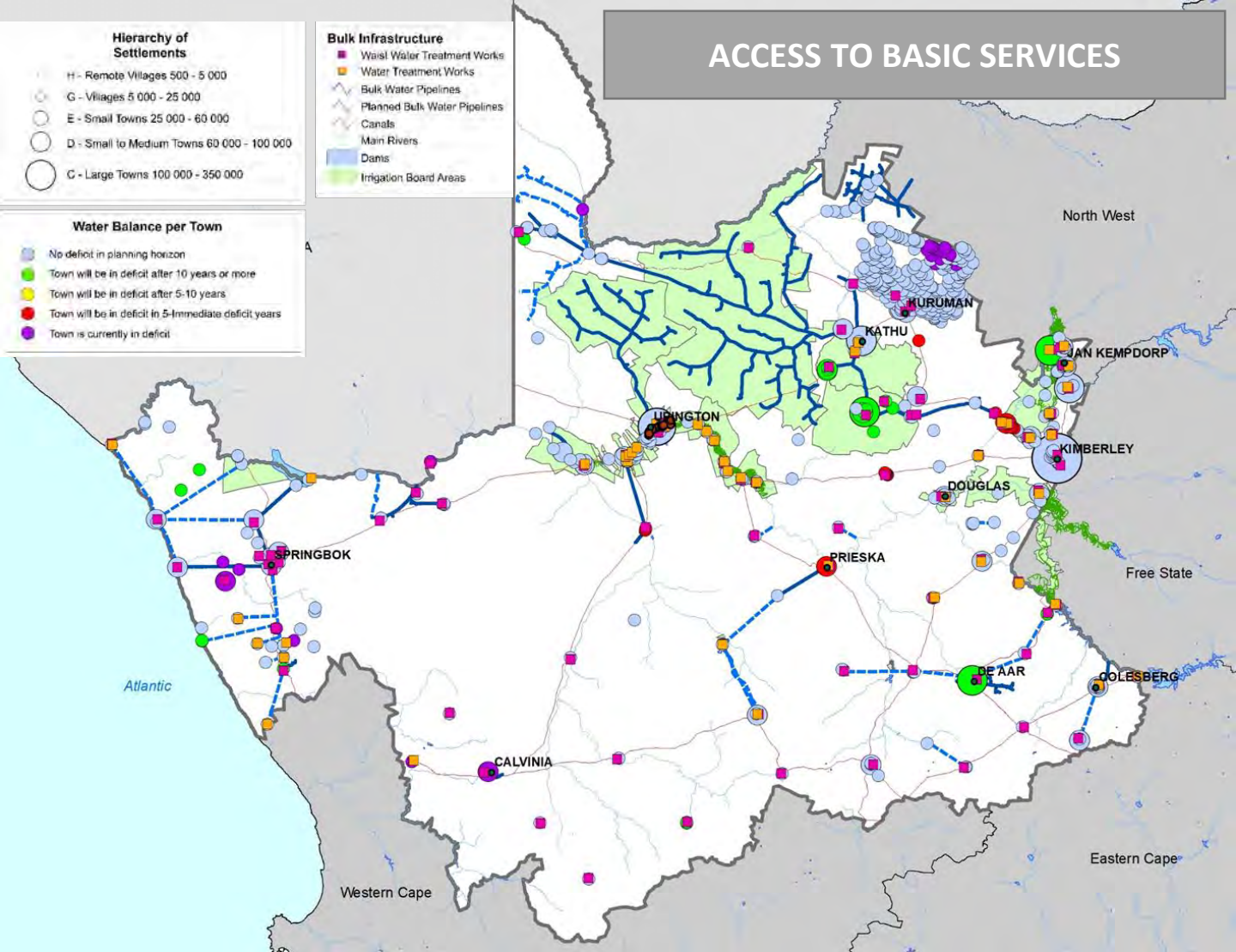


| MAP BOOK |









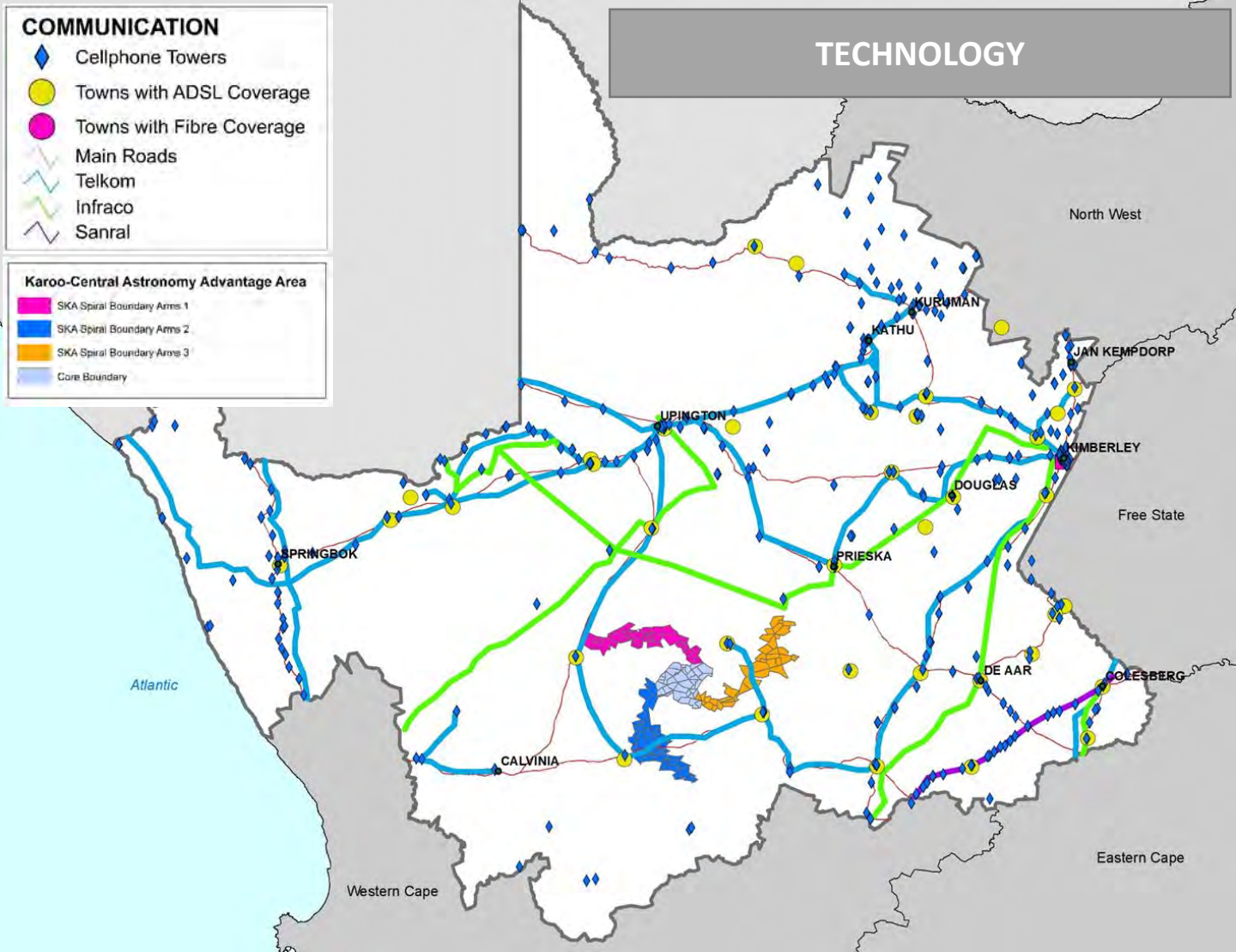
COMMUNICATION

- Cellphone Towers
- Towns with ADSL Coverage
- Towns with Fibre Coverage
- Main Roads
- Telkom
- Infraco
- Sanral

Karoo-Central Astronomy Advantage Area

- SKA Spiral Boundary Arms 1
- SKA Spiral Boundary Arms 2
- SKA Spiral Boundary Arms 3
- Core Boundary

TECHNOLOGY



Transport Infrastructure

- Main Roads
- Airports
- Train Stations
- Small harbours
- Border Posts
- Terminals
- Saldanha iron ore rail
- PE manganese rail

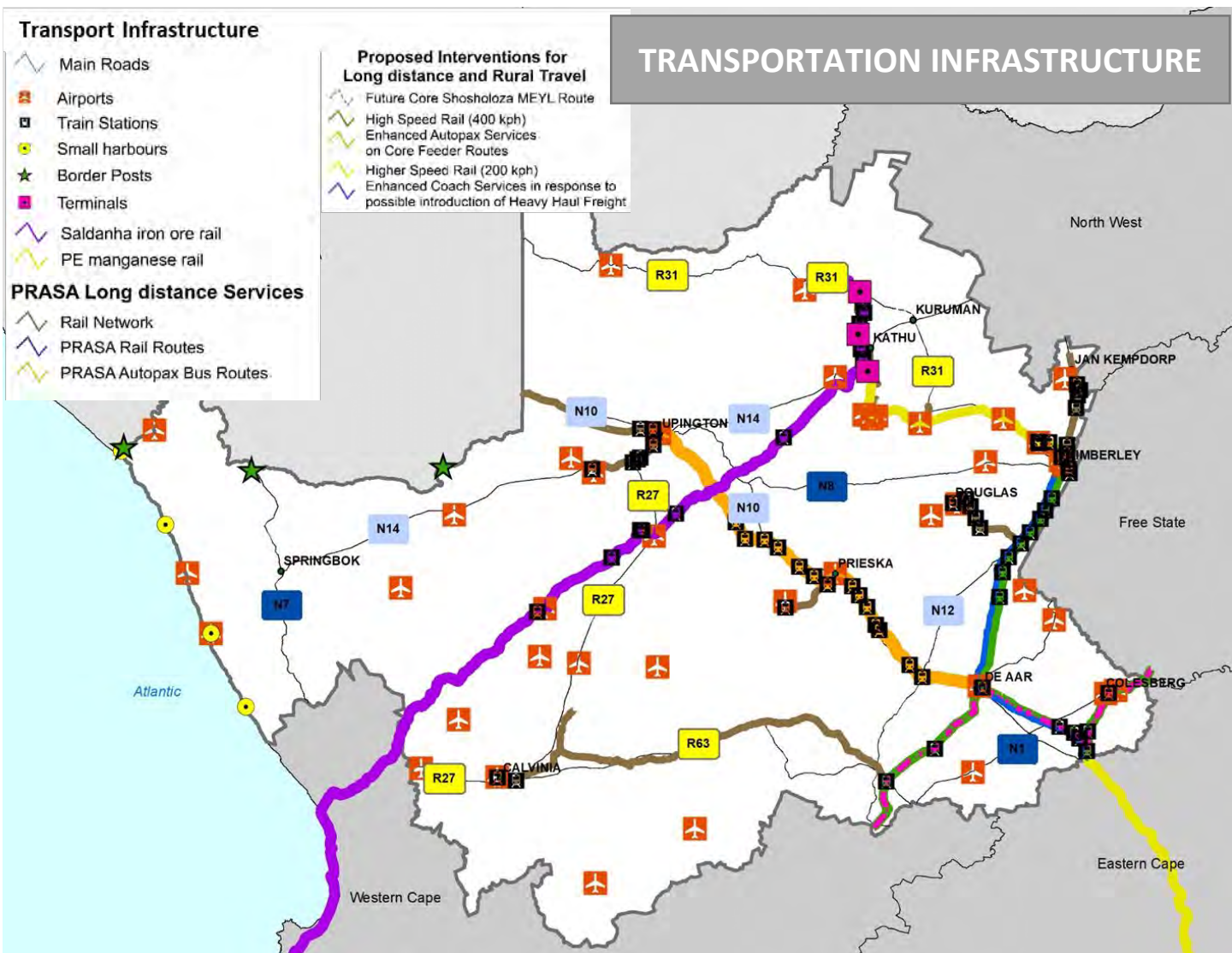
PRASA Long distance Services

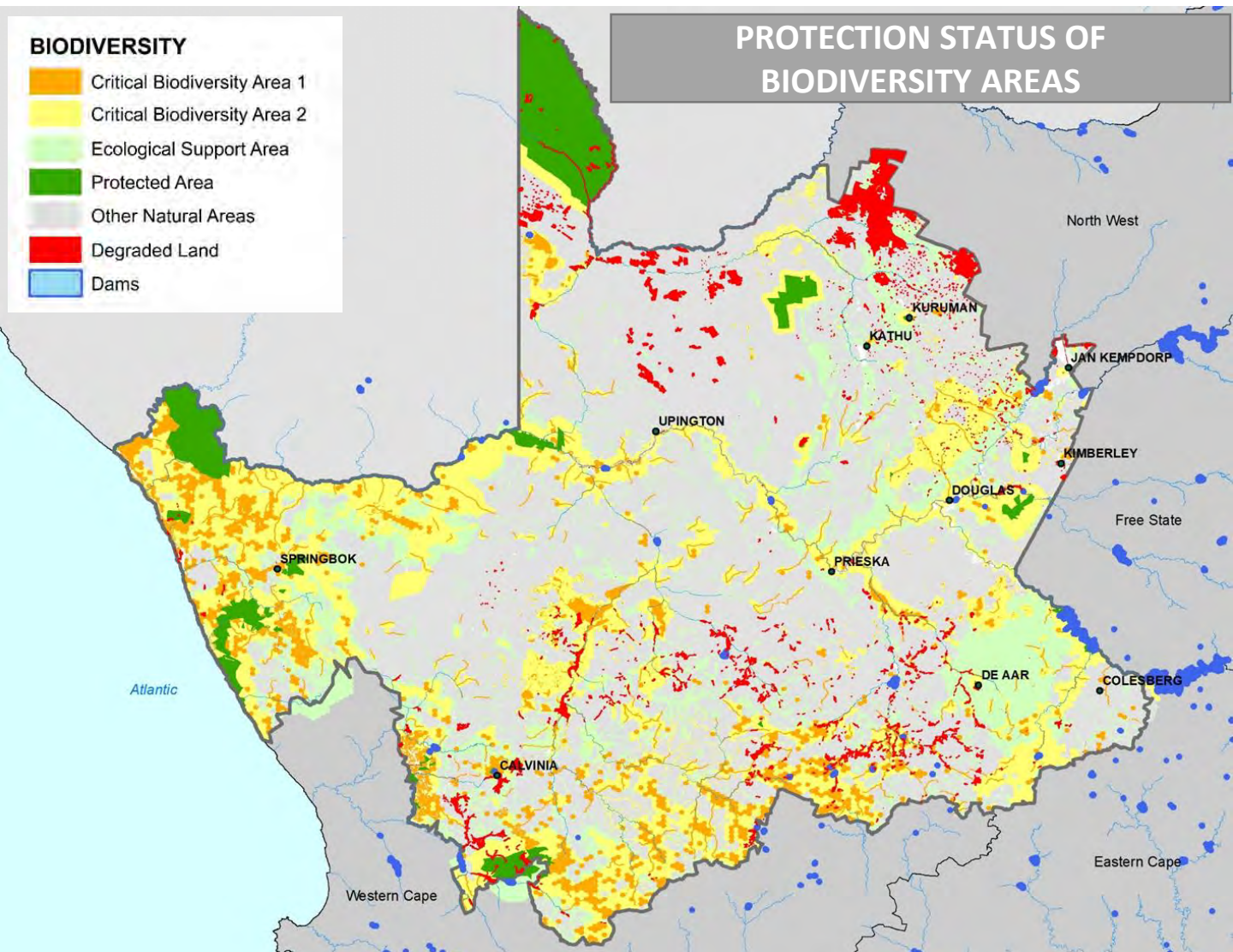
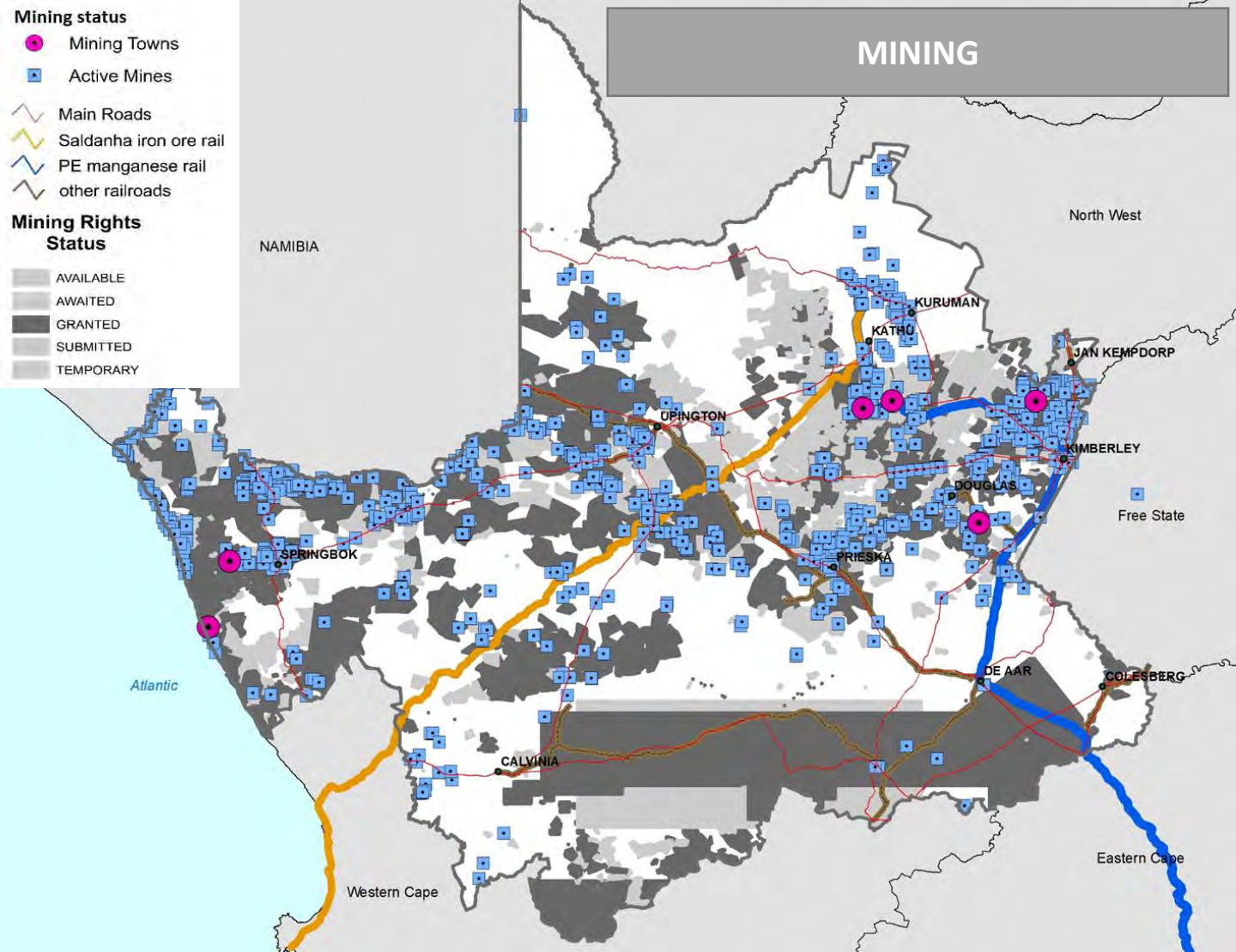
- Rail Network
- PRASA Rail Routes
- PRASA Autopax Bus Routes

Proposed Interventions for Long distance and Rural Travel

- Future Core Shosholozza MEYL Route
- High Speed Rail (400 kph)
- Enhanced Autopax Services on Core Feeder Routes
- Higher Speed Rail (200 kph)
- Enhanced Coach Services in response to possible introduction of Heavy Haul Freight

TRANSPORTATION INFRASTRUCTURE

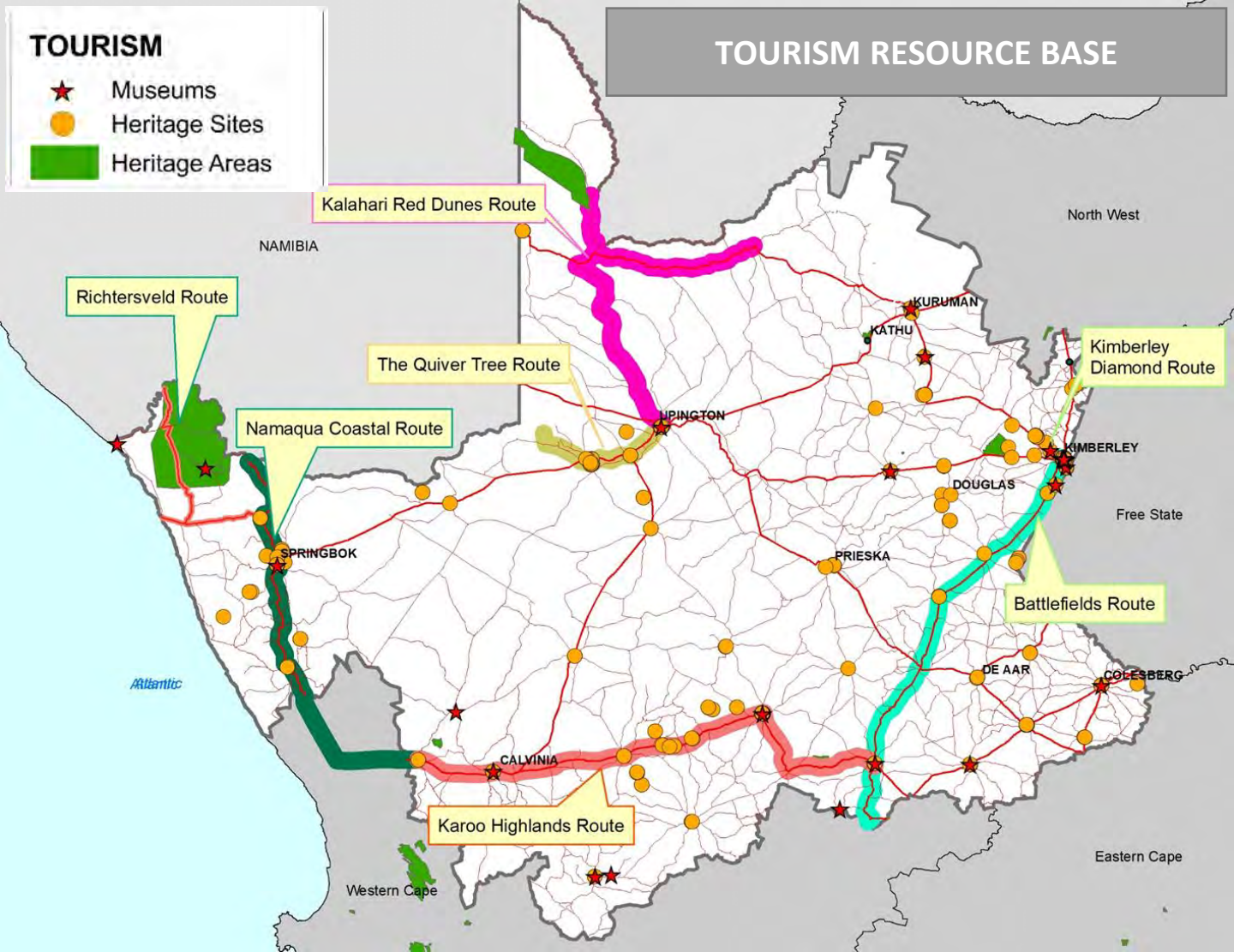




TOURISM

- ★ Museums
- Heritage Sites
- Heritage Areas

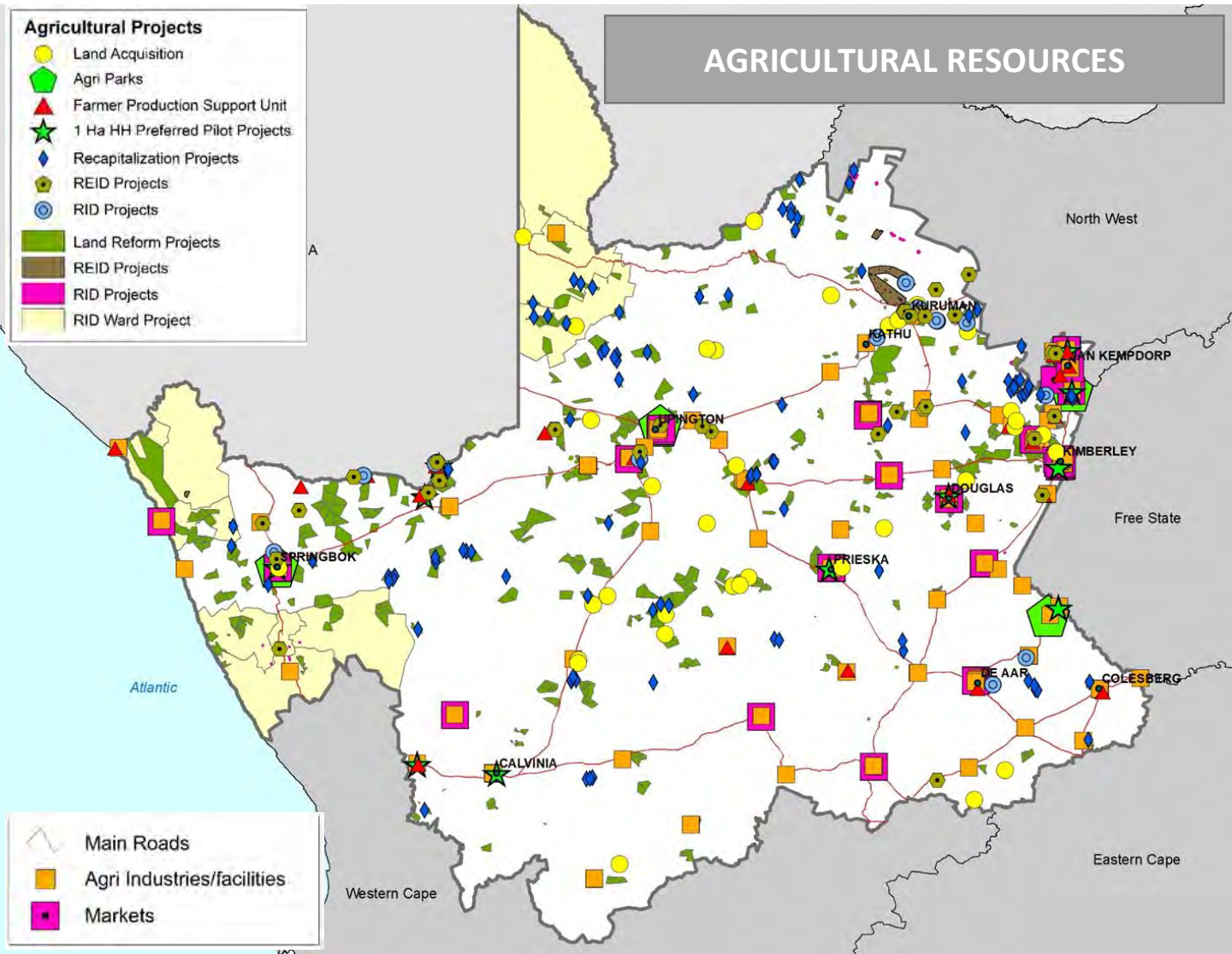
TOURISM RESOURCE BASE



Agricultural Projects

- Land Acquisition
- Agri Parks
- ▲ Farmer Production Support Unit
- ★ 1 Ha HH Preferred Pilot Projects
- ◆ Recapitalization Projects
- REID Projects
- RID Projects
- Land Reform Projects
- REID Projects
- RID Projects
- RID Ward Project

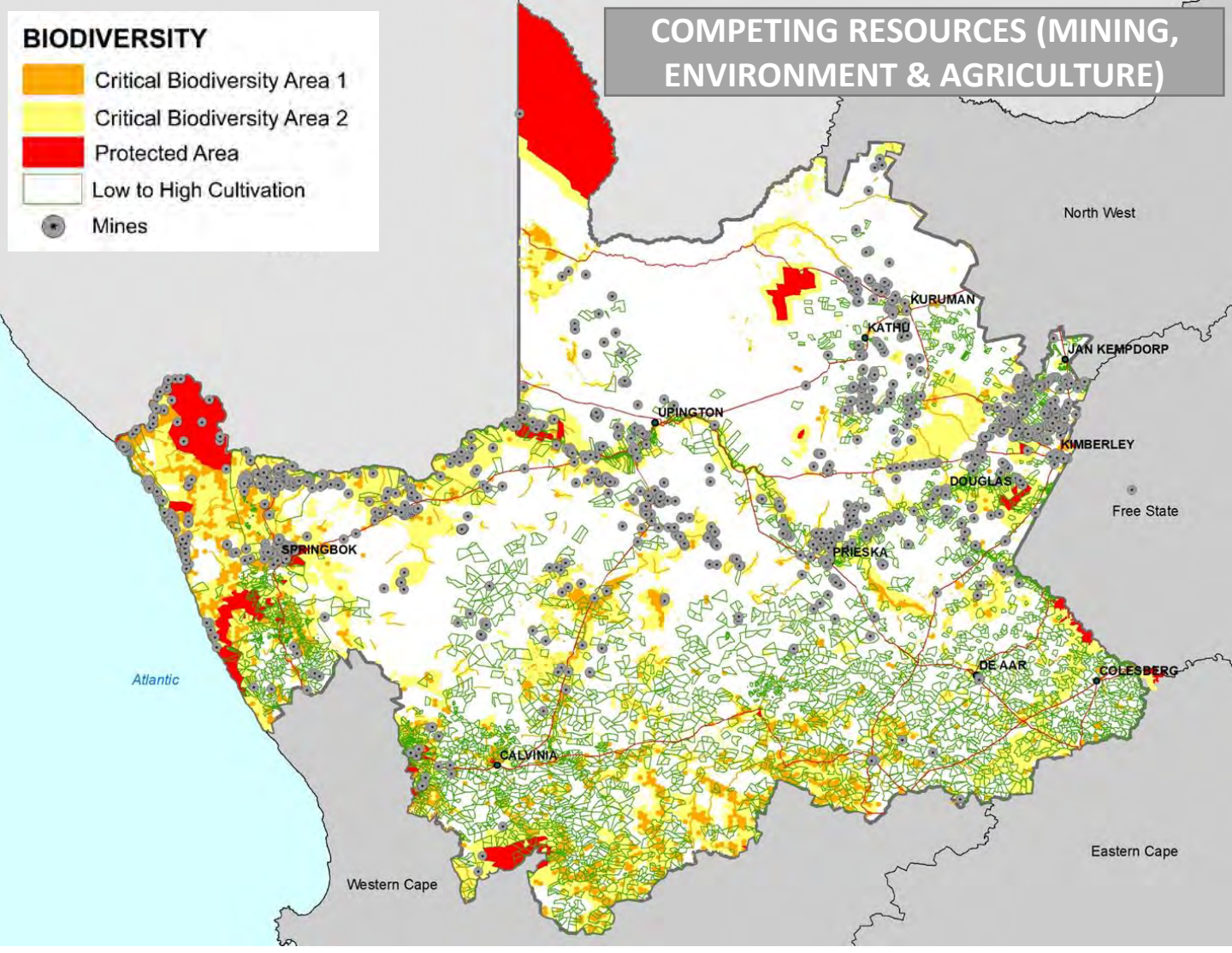
AGRICULTURAL RESOURCES



BIODIVERSITY

- Critical Biodiversity Area 1
- Critical Biodiversity Area 2
- Protected Area
- Low to High Cultivation
- Mines

COMPETING RESOURCES (MINING, ENVIRONMENT & AGRICULTURE)



FUNCTIONAL REGIONS

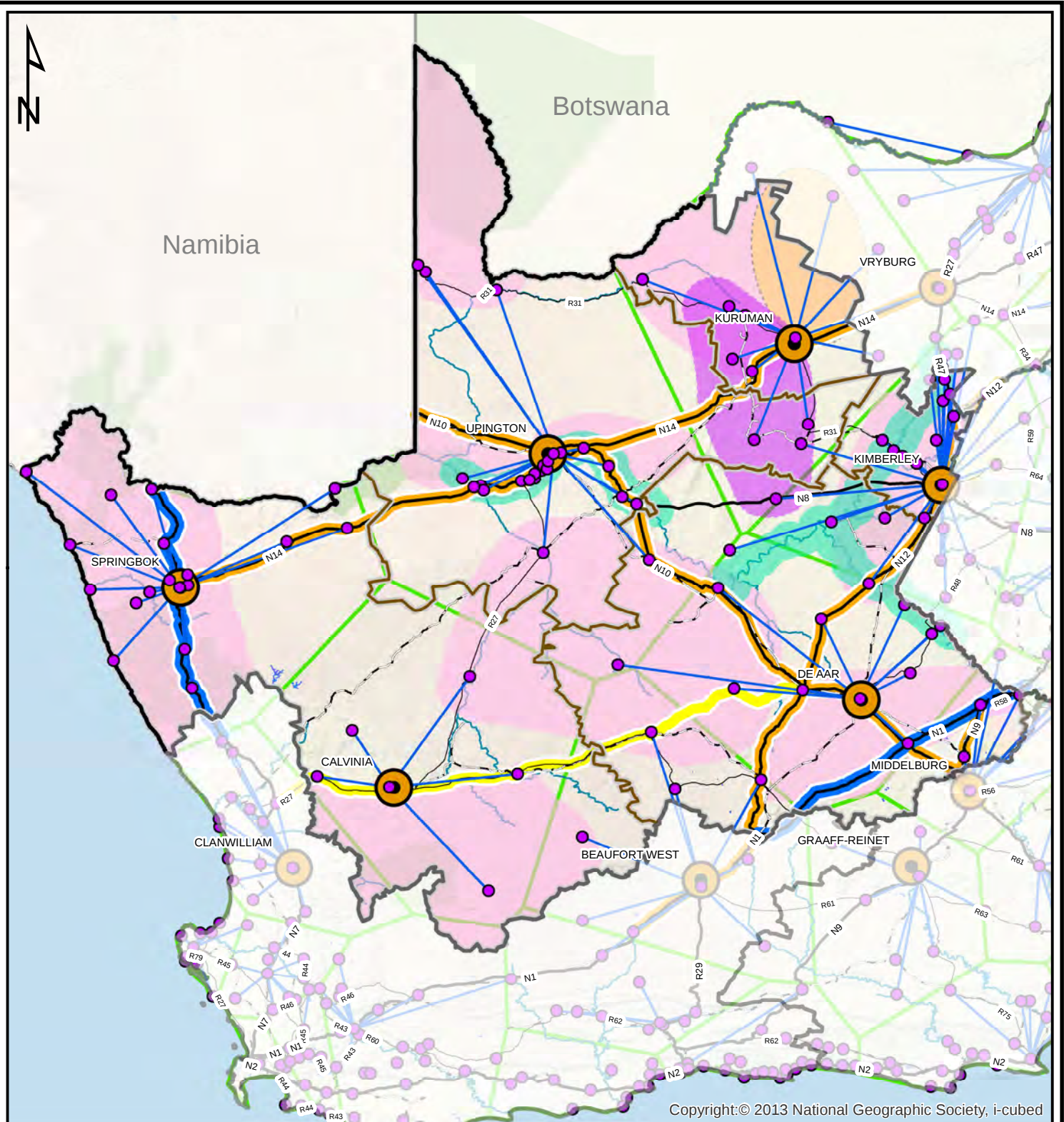


NORTHERN CAPE **PROVINCIAL SPATIAL** **DEVELOPMENT FRAMEWORK**



| MAP BOOK |





FUNCTIONAL REGIONS

Legend

- Functional Towns
- Growth Centre
- Railway Lines
- Main Rivers
- Main Roads
- Major Roads
- Functional Access
- Secondary Connectivity Route
- National Connectivity Route
- Provincial Route
- Functional Region
- Agricultural Corridor Zone
- Gamagara Corridor Review
- Rural Regeneration Zone
- Tourism Corridors
- Dams
- Nature Reserve Zones

NORTHERN CAPE PROVINCE



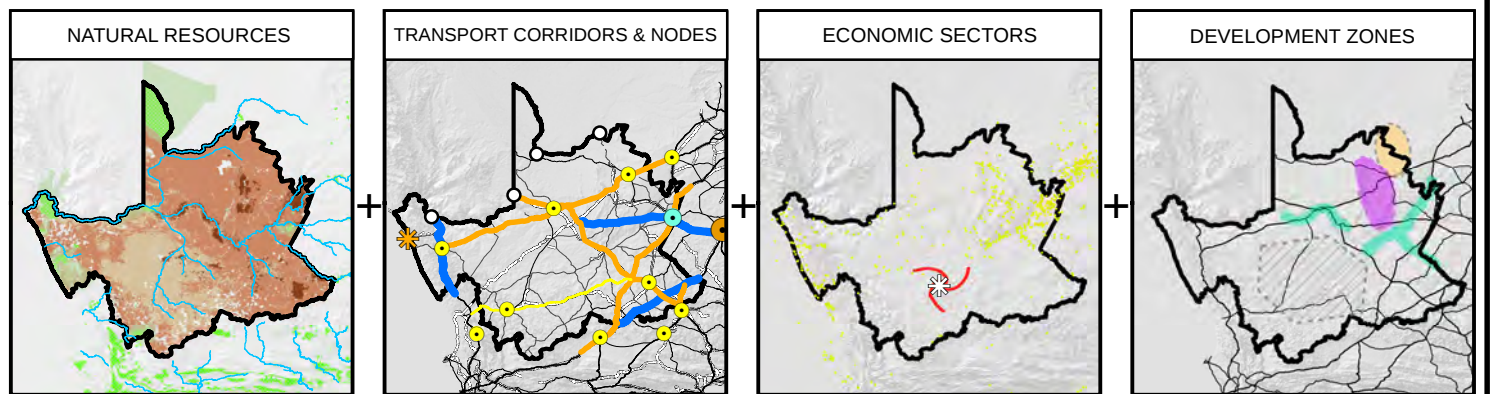
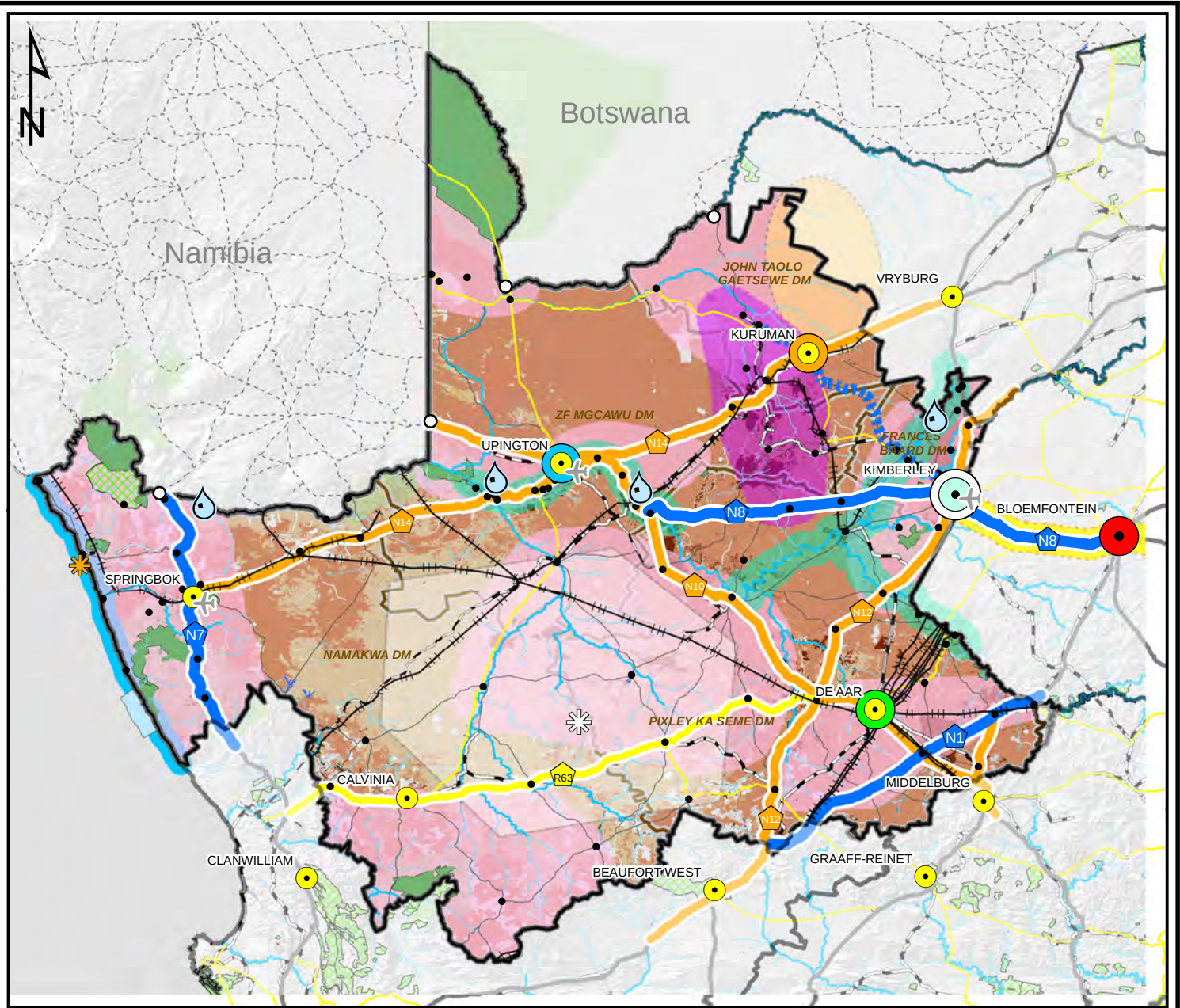
0 25 50 100 150 km



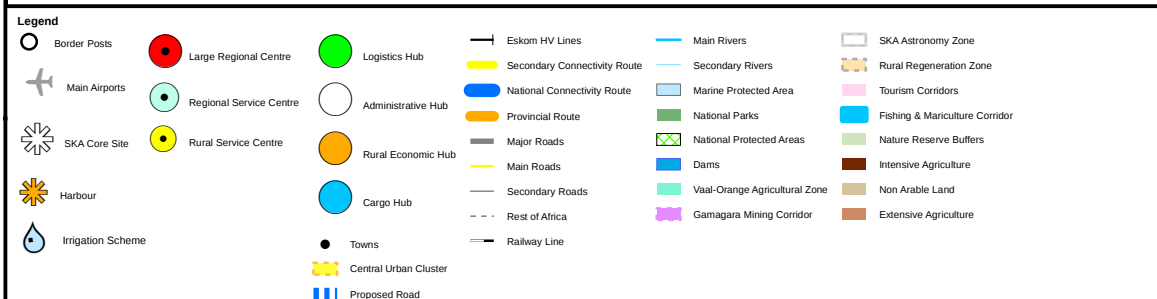
NORTHERN CAPE
PROVINCIAL SPATIAL
DEVELOPMENT FRAMEWORK



| MAP BOOK |



MAP 3.1.1 NORTHERN CAPE SPATIAL DEVELOPMENT FRAMEWORK



NORTHERN CAPE PROVINCE



0 25 50 100 150 km

SPATIAL STRATEGIES

ENHANCE REGIONAL CONNECTIVITY
PROTECT AND MANAGE BIODIVERSITY, WATER AND AGRICULTURAL
RESOURCES
INFRASTRUCTURE INVESTMENT
URBAN AND RURAL DEVELOPMENT



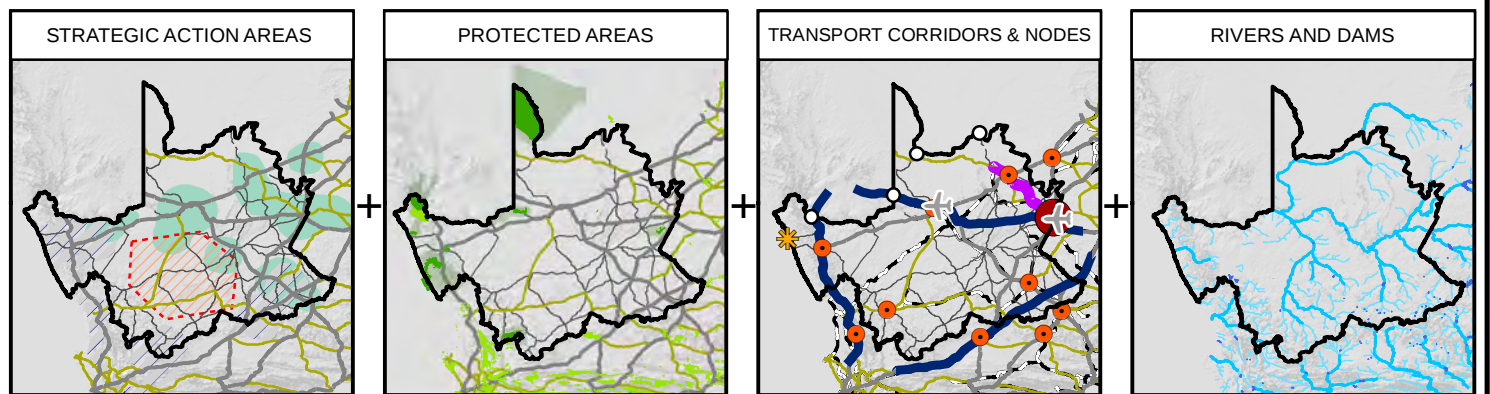
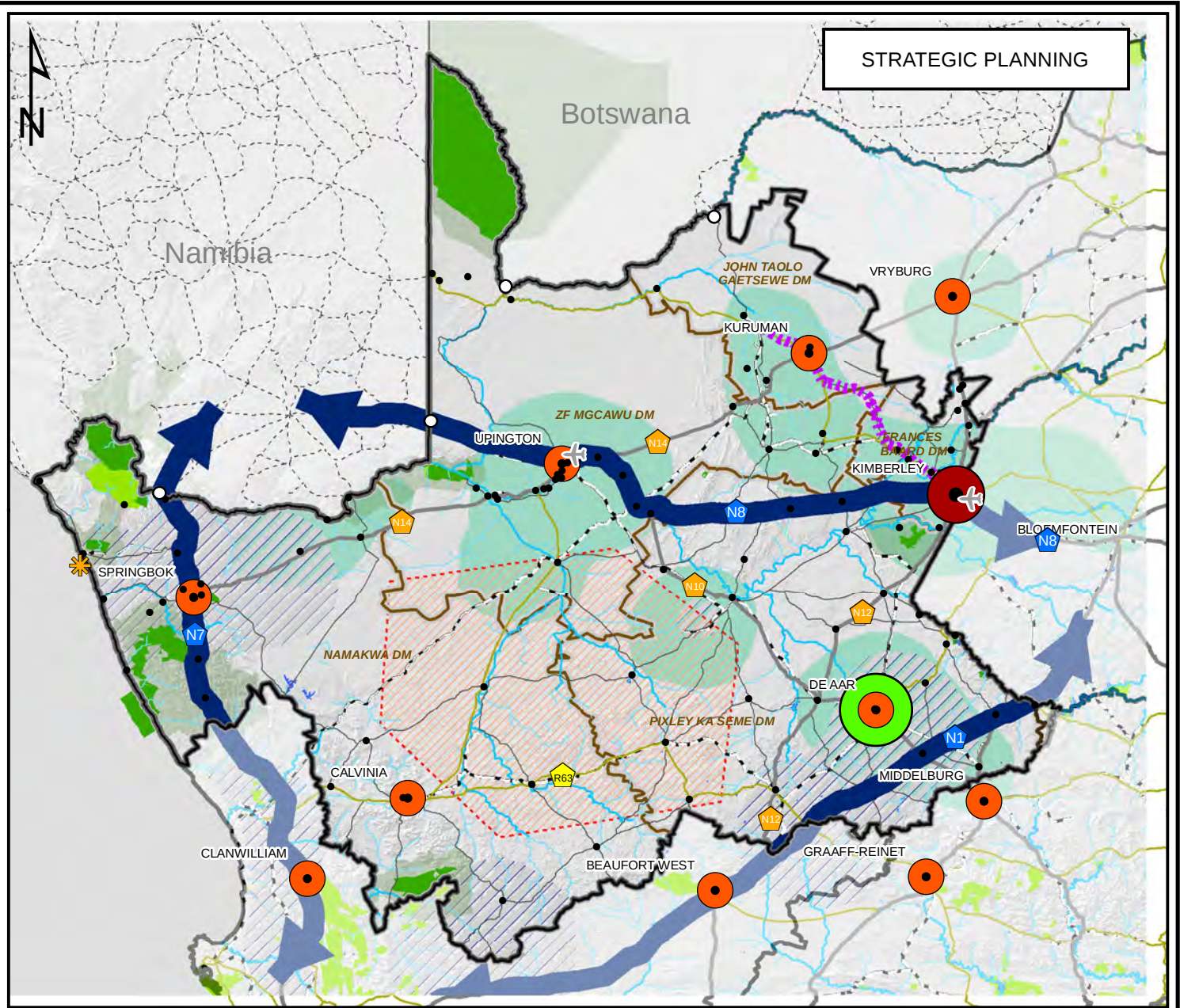
NORTHERN CAPE

PROVINCIAL SPATIAL DEVELOPMENT FRAMEWORK



| MAP BOOK |





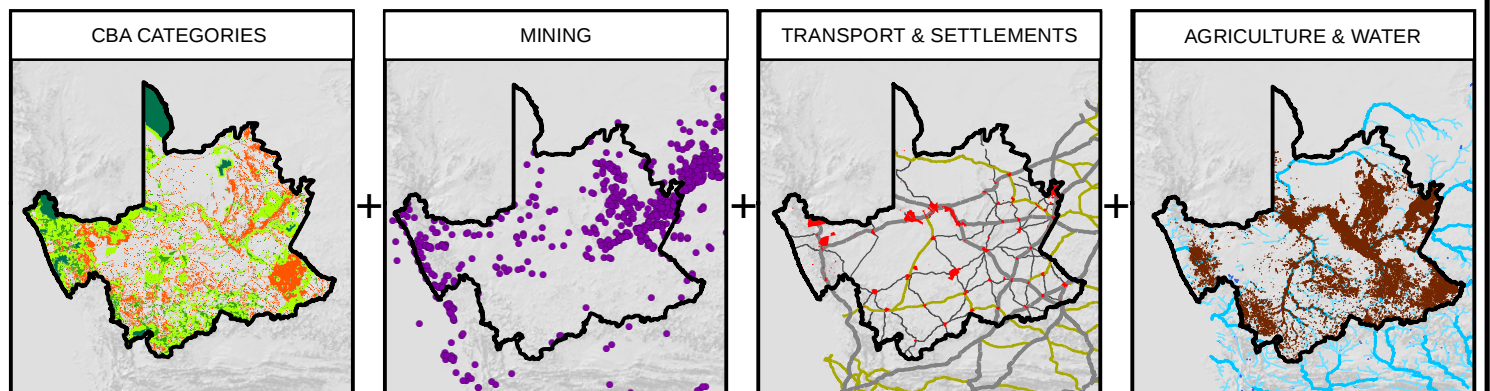
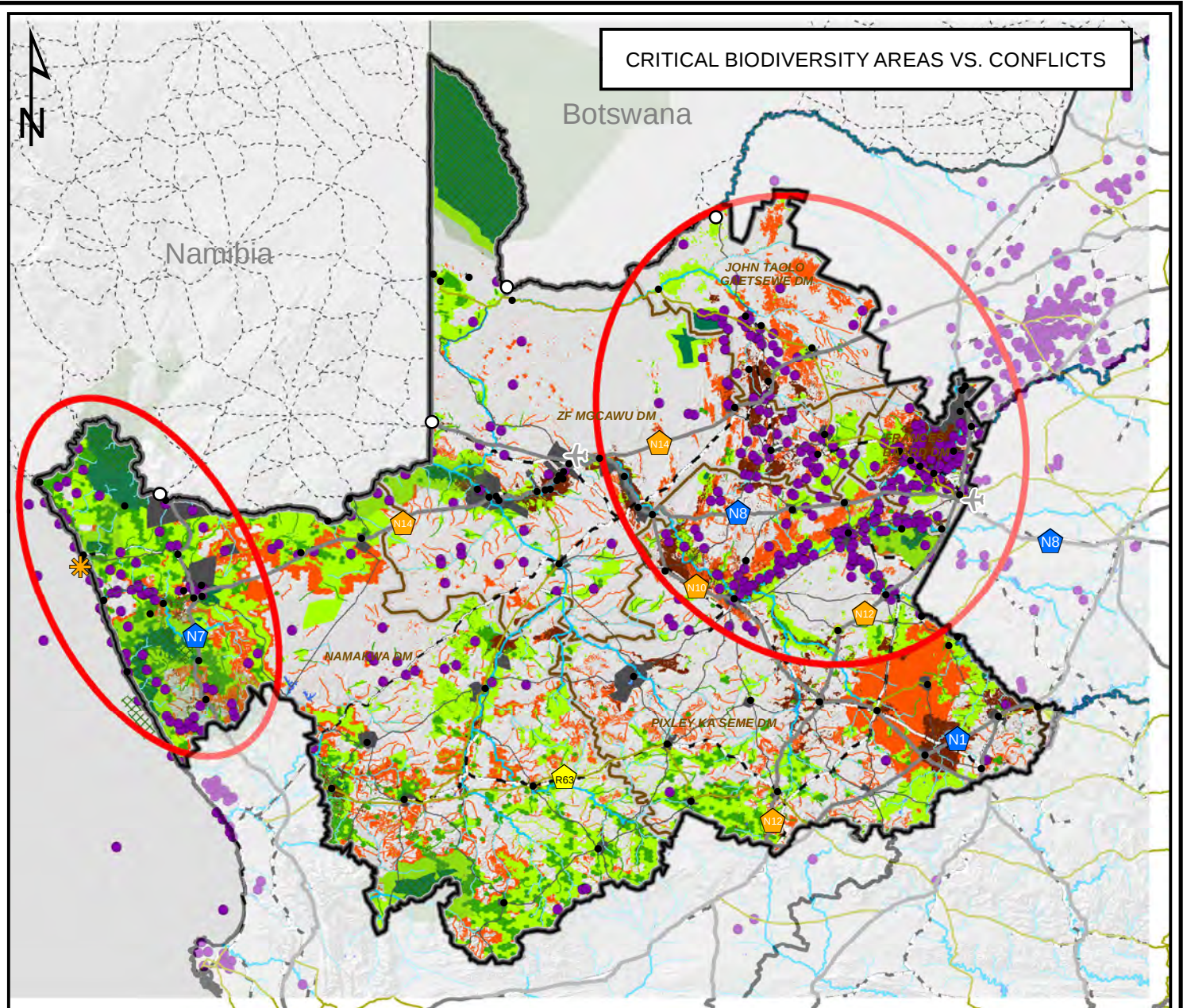
Legend

- Towns
- Border Posts
- ✈ Main Airports
- ✴ Harbour
- Urban Region
- Regional Growth Centre
- Logistics Hub
- ▬ Proposed Road
- ▬ Connections
- ▬ Major Roads
- ▬ Main Roads
- ▬ Secondary Roads
- ▬ Rest of Africa
- ▬ Railway Line
- ▬ Main Rivers
- ▬ Secondary Rivers
- ▬ Dams
- ▬ National Parks
- ▬ National Protected Areas
- ▬ Nature Reserve Buffers
- ▬ SKA Astronomy Zone
- ▬ Solar Energy Focus Areas
- ▬ Wind Energy Focus Areas

NORTHERN CAPE PROVINCE



0 25 50 100 150 km



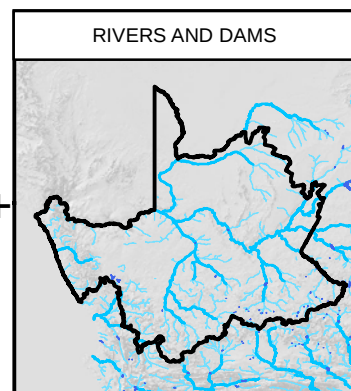
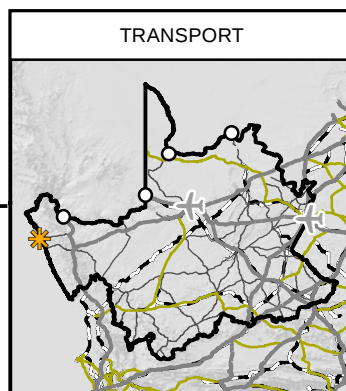
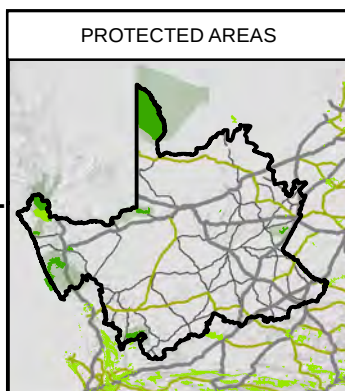
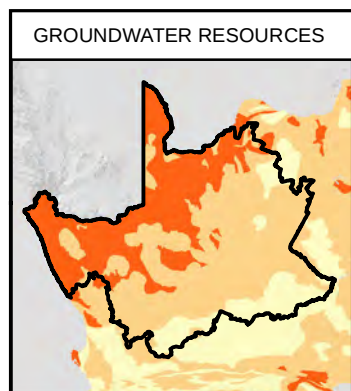
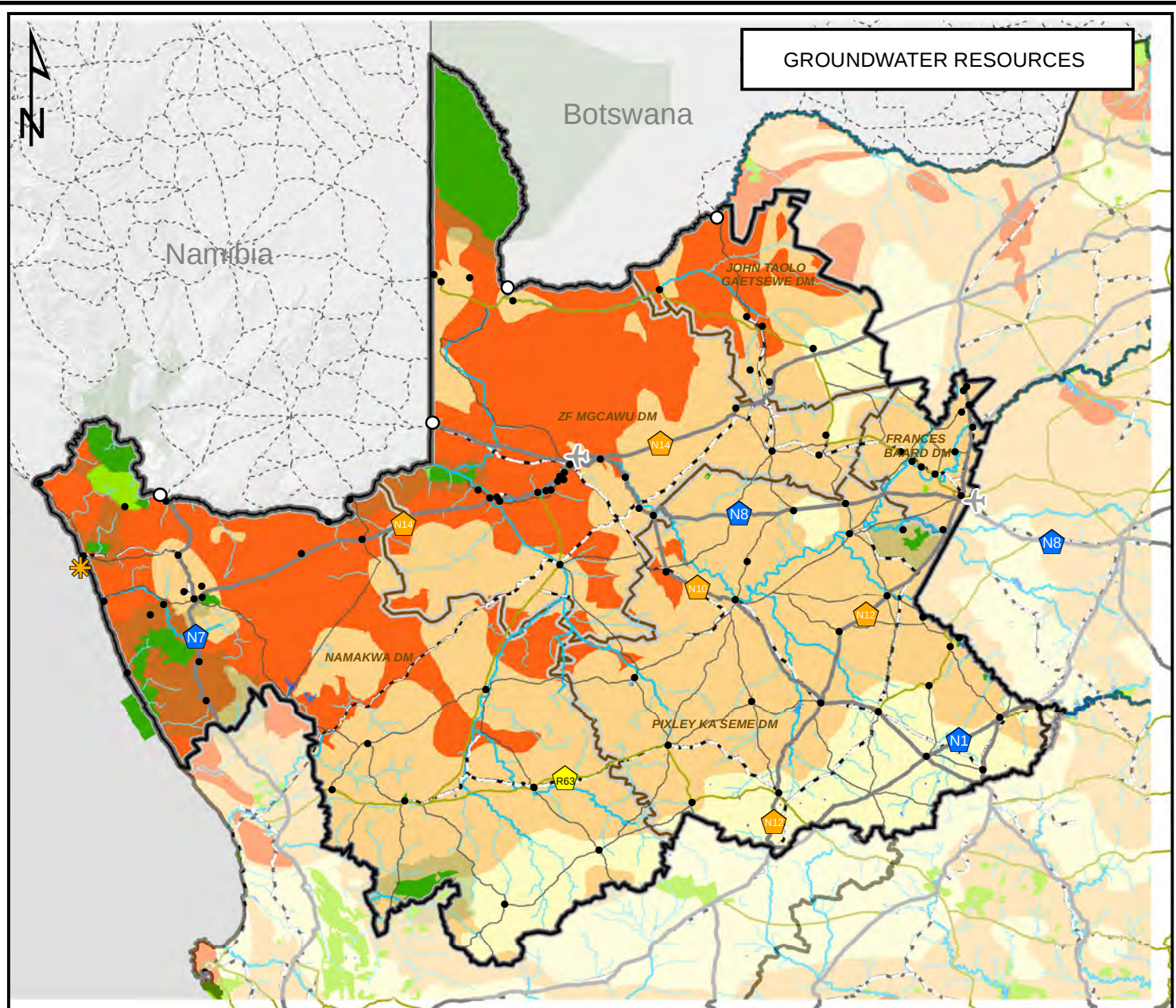
Legend

- | | | |
|-------------------|--------------------------|----------------------------------|
| • Towns | ----- Rest of Africa | ■ Intensive Agriculture |
| ○ Border Posts | — Railway Line | □ Major Conflict Zones |
| + Main Airports | — Main Rivers | CBA CATEGORIES |
| ★ Harbour | — Secondary Rivers | ■ Protected Area |
| ● Mining Granted | ■ Dams | ■ Critical Biodiversity Area One |
| — Major Roads | ■ National Parks | ■ Critical Biodiversity Area Two |
| — Main Roads | ■ Nature Reserve Buffers | ■ Ecological Support Area |
| — Secondary Roads | ■ Towns / Settlements | |

NORTHERN CAPE PROVINCE



0 25 50 100 150 km



Legend

- Towns
- Border Posts
- ✈ Main Airports
- ✴ Harbour
- Major Roads
- Main Roads
- Secondary Roads
- Rest of Africa
- Railway Line
- Main Rivers
- Secondary Rivers
- Dams
- National Parks
- National Protected Areas
- Nature Reserve Buffers

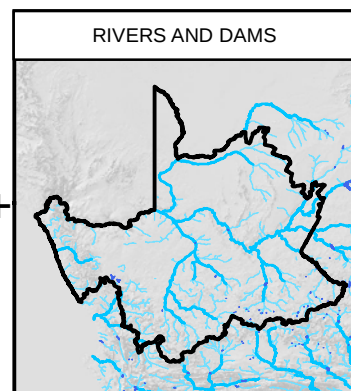
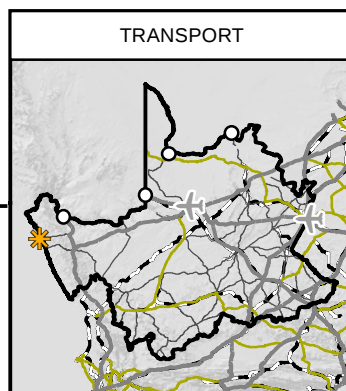
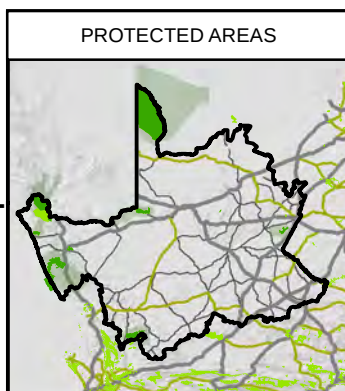
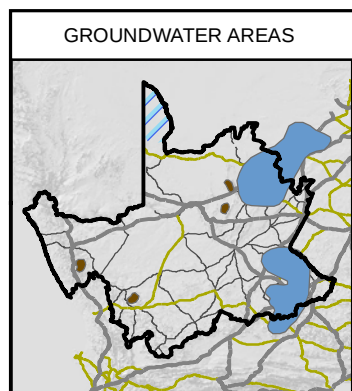
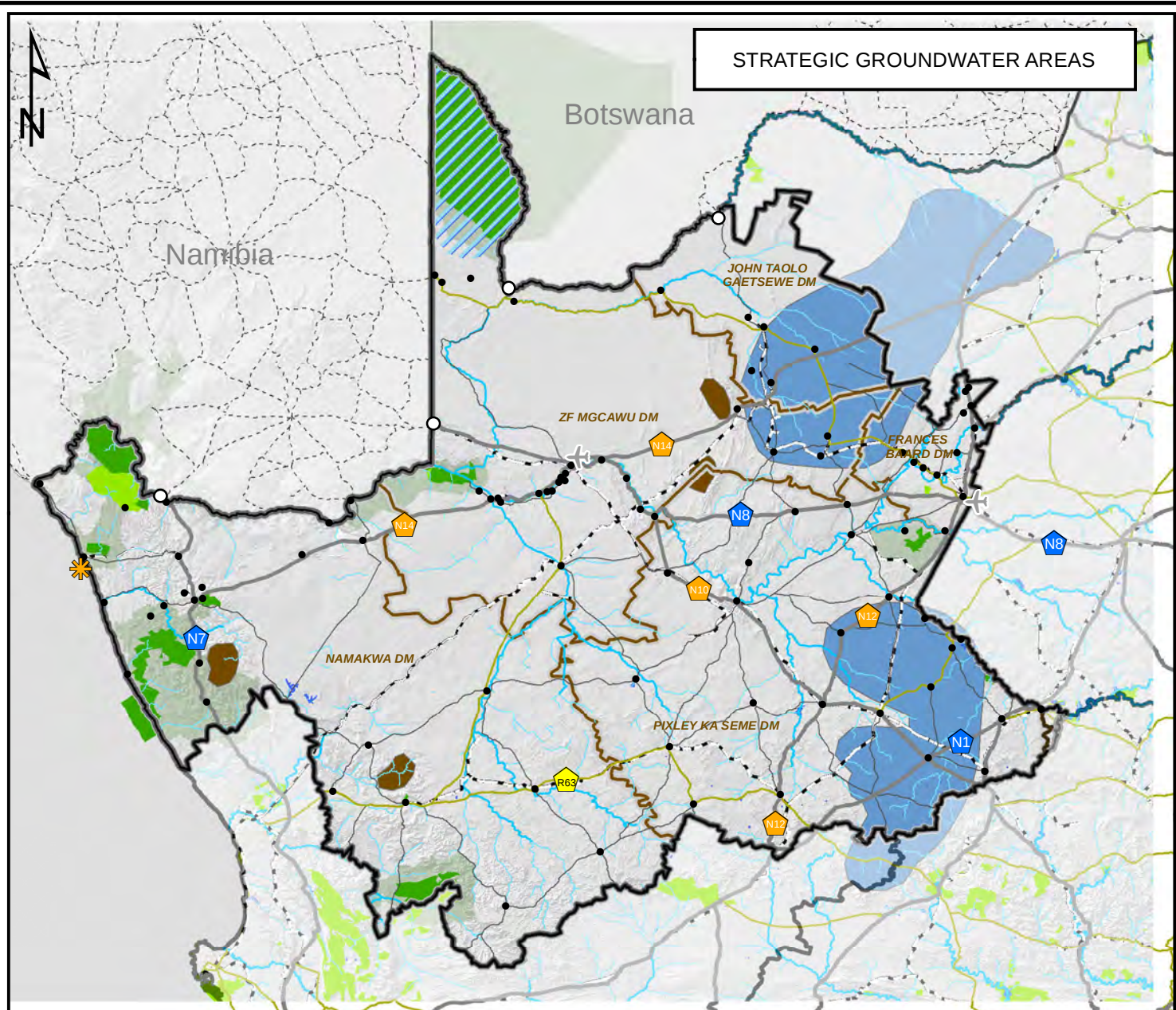
GROUNDWATER AQUIFER CLASSIFICATIONS

- Major
- Minor
- Poor

NORTHERN CAPE PROVINCE



0 25 50 100 150 km



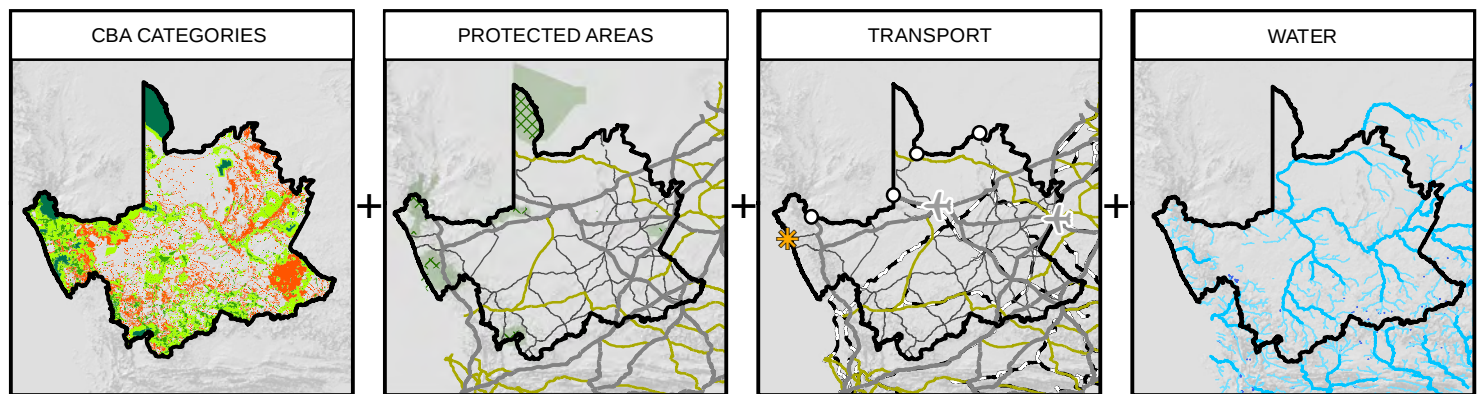
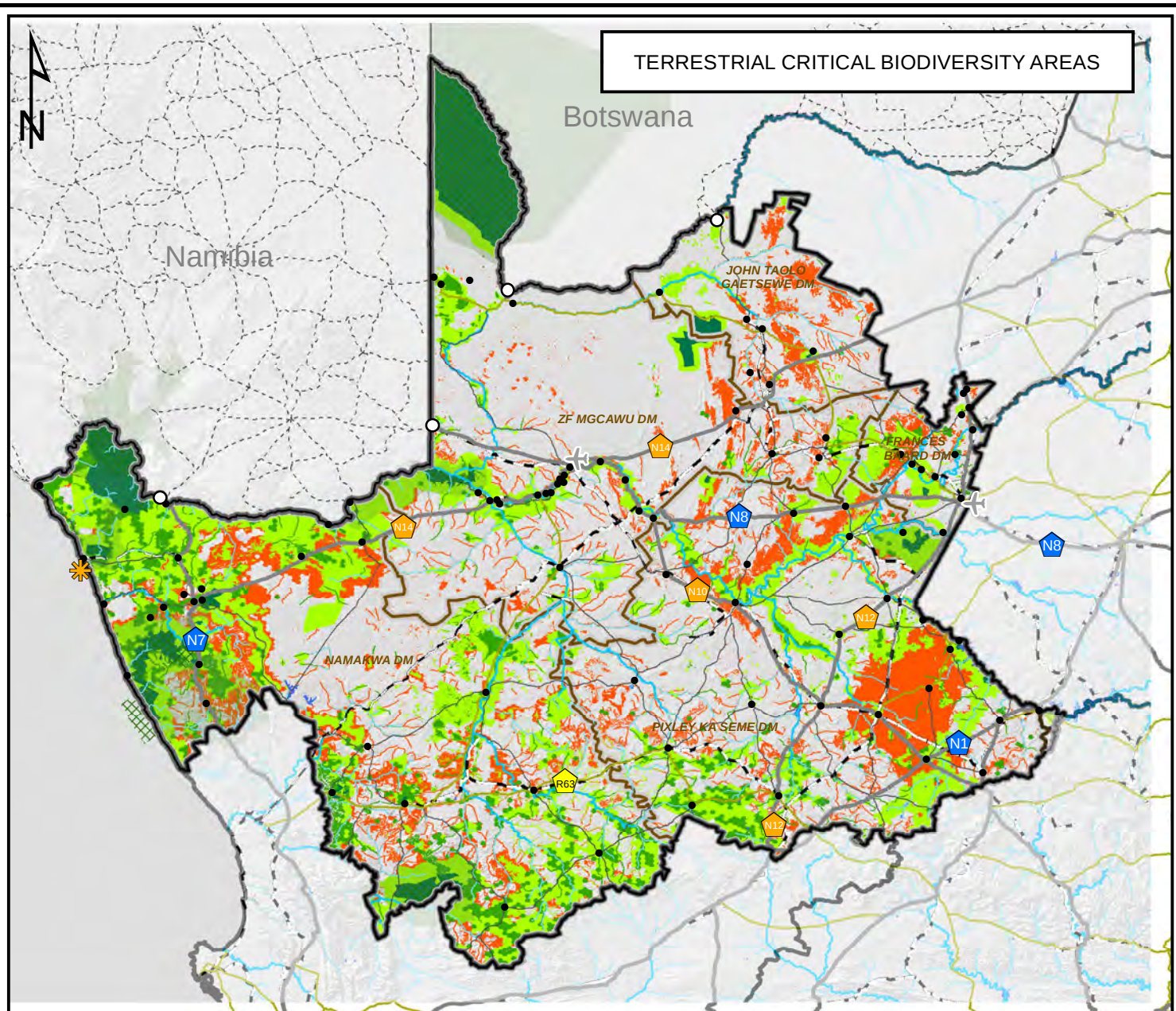
Legend

- | | | |
|-------------------|----------------------|-----------------------------|
| ○ Border Posts | ----- Rest of Africa | Intense Use Resource Region |
| + Main Airports | —+— Railway Line | Ridge Systems |
| ✴ Harbour | — Main Rivers | National Parks |
| • Towns | — Secondary Rivers | National Protected Areas |
| — Major Roads | Dams | Nature Reserve Buffers |
| — Main Roads | Agri-Arid Region | |
| — Secondary Roads | | |

NORTHERN CAPE PROVINCE



0 25 50 100 150 km



Legend

- Towns
- Border Posts
- ✈ Main Airports
- ✴ Harbour
- Major Roads
- Main Roads
- Secondary Roads
- Rest of Africa
- Railway Line
- Main Rivers
- Secondary Rivers
- Dams
- ▨ National Parks
- ▨ Nature Reserve Buffers

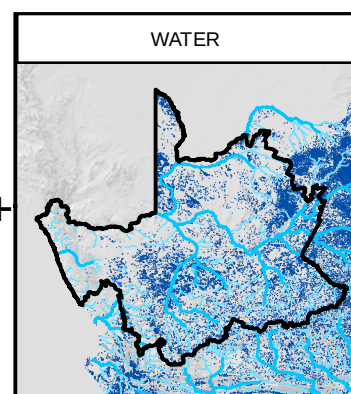
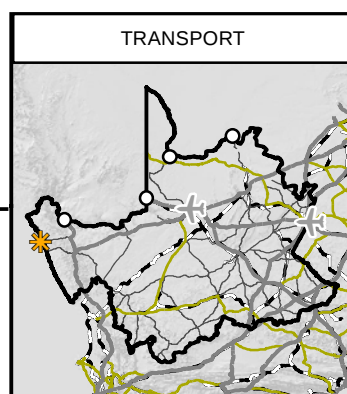
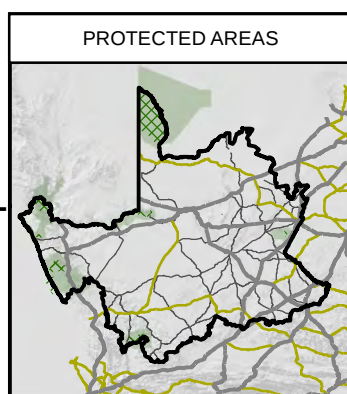
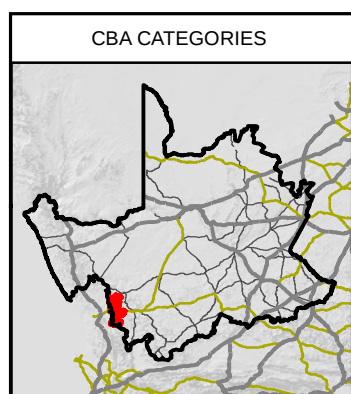
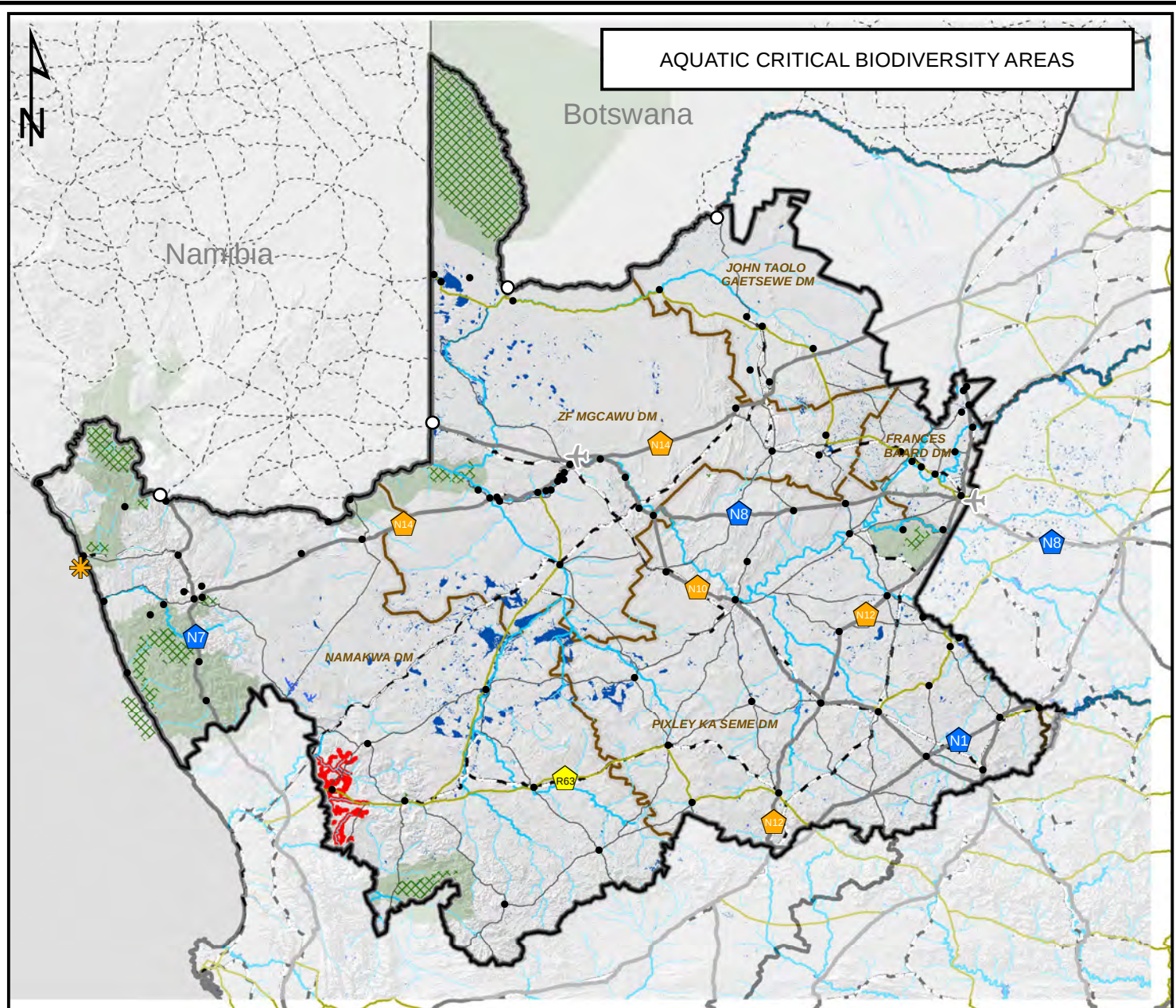
CBA CATEGORIES

- ▨ Protected Area
- ▨ Critical Biodiversity Area One
- ▨ Critical Biodiversity Area Two
- ▨ Ecological Support Area

NORTHERN CAPE PROVINCE



0 25 50 100 150 km



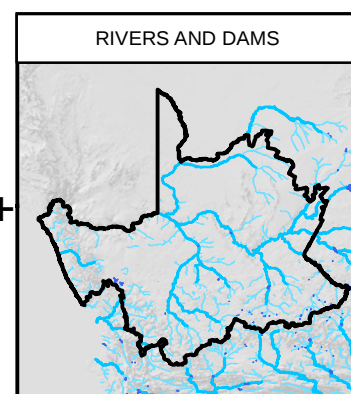
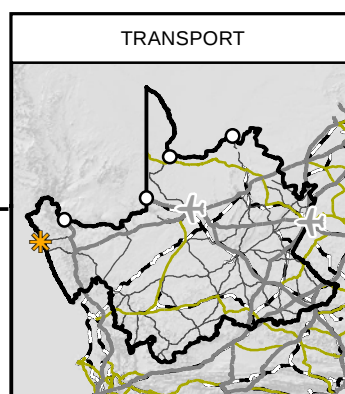
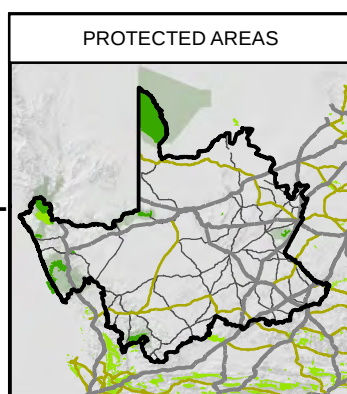
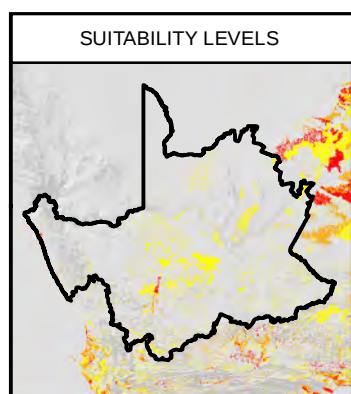
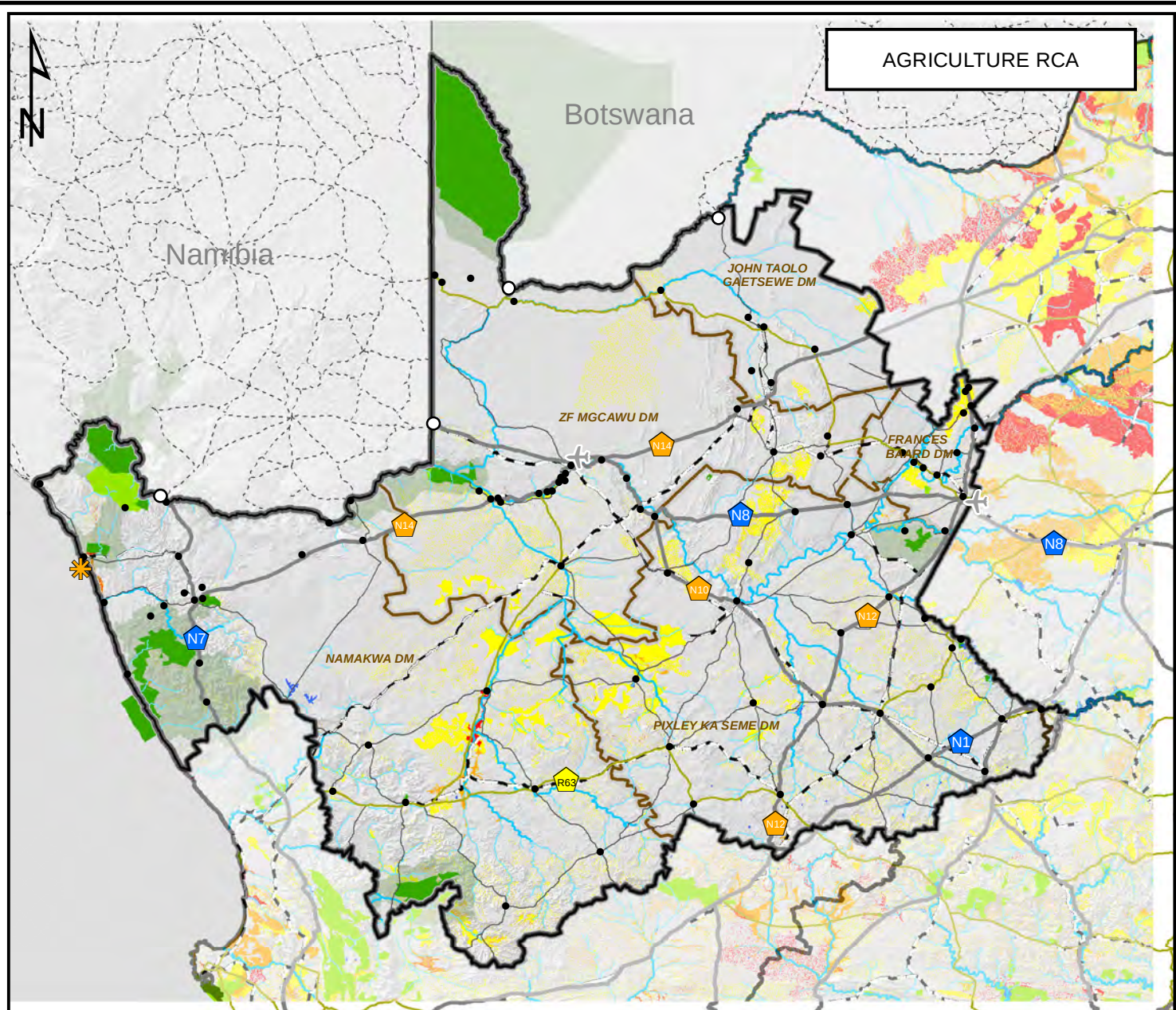
Legend

- | | |
|--------------------|-------------------------------|
| ○ Border Posts | — Railway Line |
| + Main Airports | — Main Rivers |
| ✱ Harbour | — Secondary Rivers |
| • Towns | ■ Dams |
| — Major Roads | ■ Wetlands |
| — Main Roads | ▨ National Parks |
| — Secondary Roads | ■ Nature Reserve Buffers |
| --- Rest of Africa | ■ Critical Biodiversity Areas |

NORTHERN CAPE PROVINCE



0 25 50 100 150 km



Legend

- Towns
- Border Posts
- ✈ Main Airports
- ✴ Harbour
- Major Roads
- Main Roads
- Secondary Roads
- Rest of Africa
- Railway Line
- Main Rivers
- Secondary Rivers
- Dams
- National Parks
- National Protected Areas

Nature Reserve Buffers

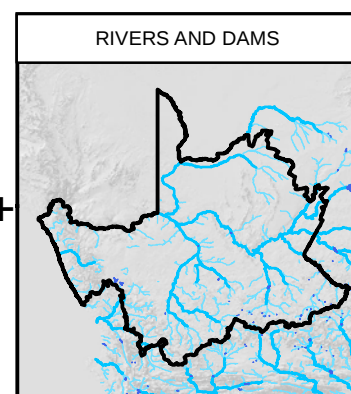
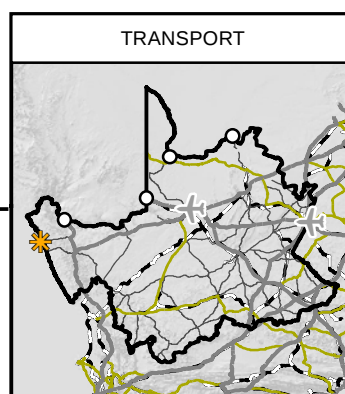
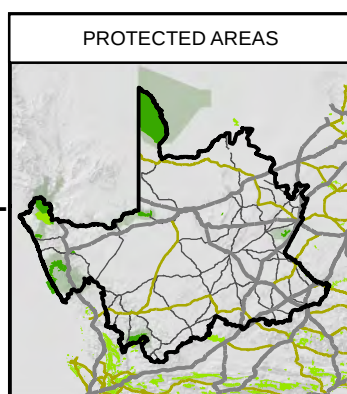
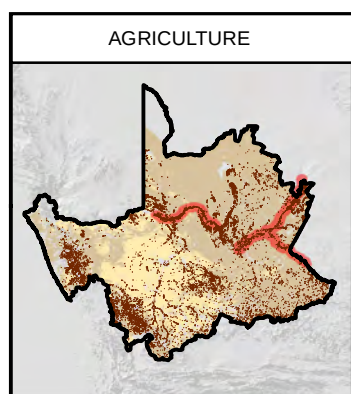
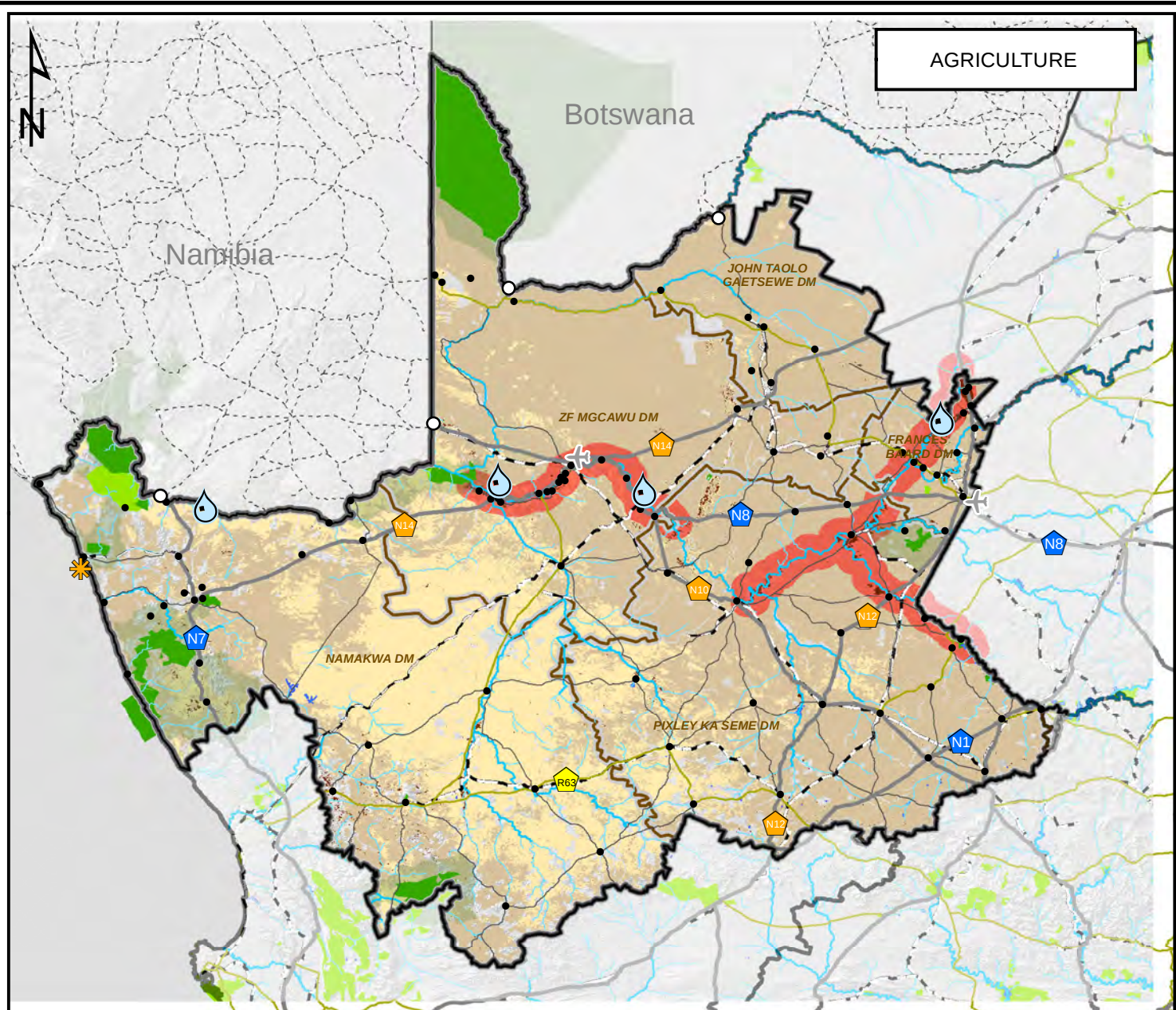
AGRI SUITABILITY

- Moderate
- Moderate-High
- High

NORTHERN CAPE PROVINCE



0 25 50 100 150 km



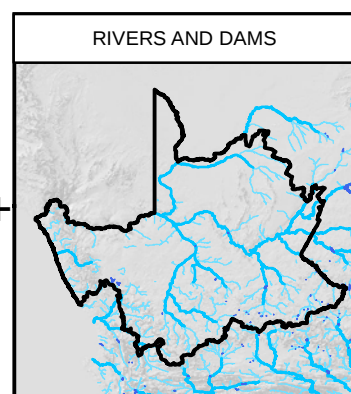
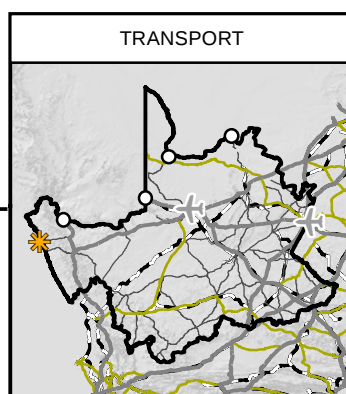
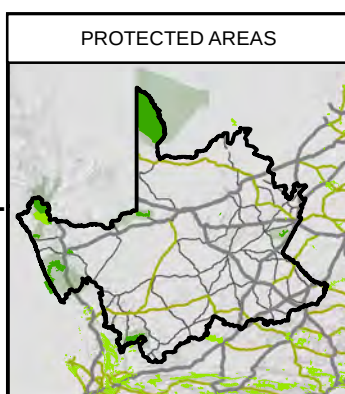
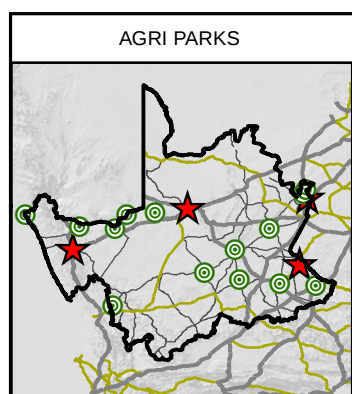
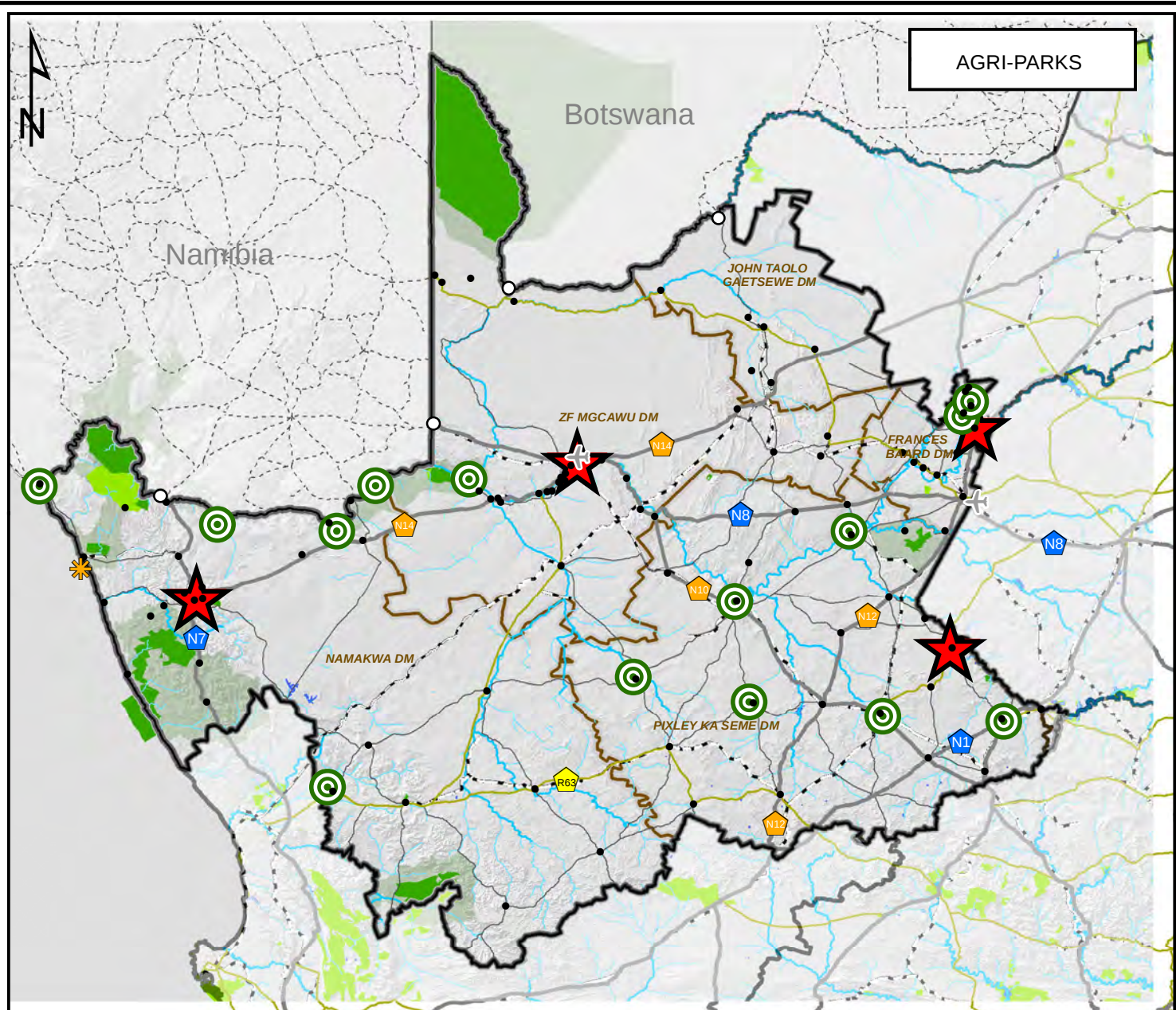
Legend

- | | | |
|--------------------|----------------------------|---------------------------------|
| • Towns | — Railway Line | ■ Vaal-Orange Agricultural Zone |
| ○ Border Posts | — Main Rivers | ■ Non Arable Land |
| + Main Airports | — Secondary Rivers | ■ Extensive Agriculture |
| * Harbour | ■ Dams | ■ Irrigation Scheme |
| — Major Roads | ■ National Parks | |
| — Main Roads | ■ National Protected Areas | |
| — Secondary Roads | ■ Nature Reserve Buffers | |
| --- Rest of Africa | ■ Intensive Agriculture | |

NORTHERN CAPE PROVINCE



0 25 50 100 150 km



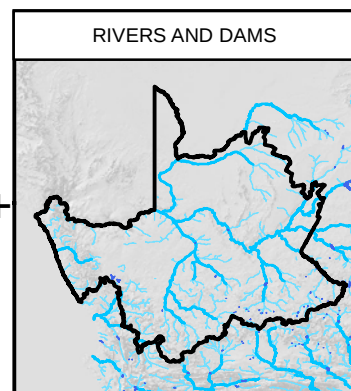
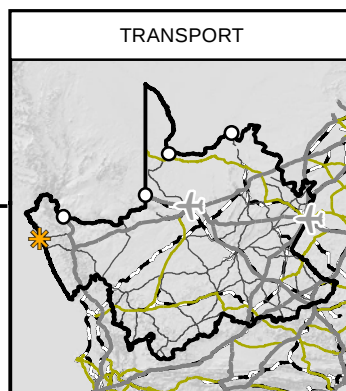
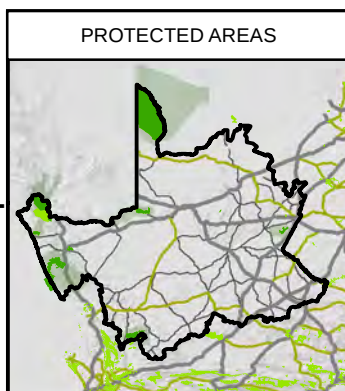
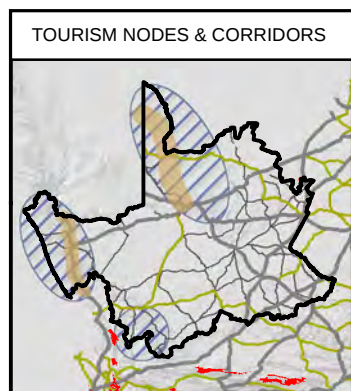
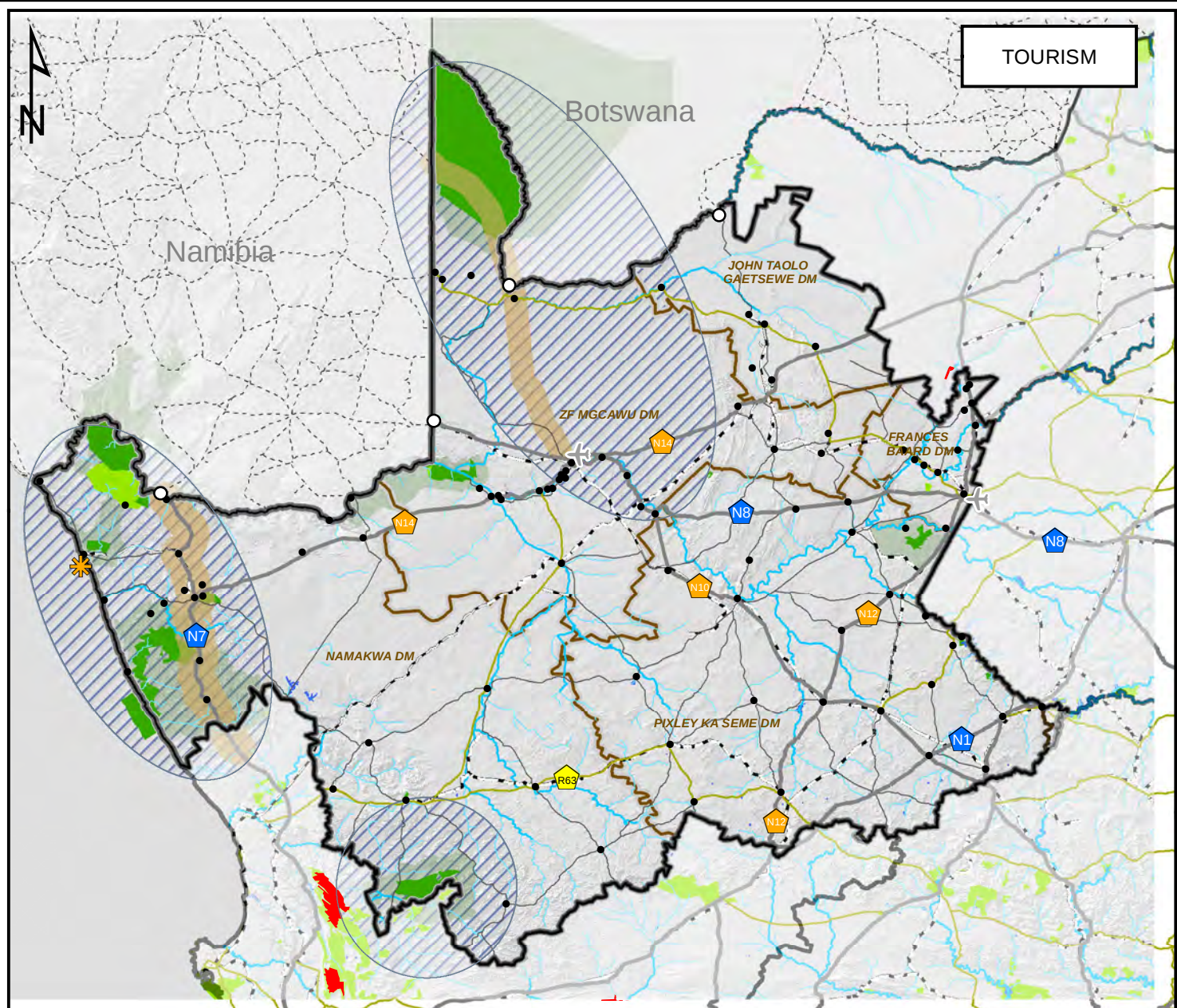
Legend

- Towns
- Border Posts
- ✈ Main Airports
- ✴ Harbour
- ★ Agri-Hubs (AH)
- ⊙ Farmer Production Support Units
- Major Roads
- Main Roads
- Secondary Roads
- Rest of Africa
- Railway Line
- Main Rivers
- Secondary Rivers
- Dams
- National Parks
- National Protected Areas
- Nature Reserve Buffers

NORTHERN CAPE PROVINCE



0 25 50 100 150 km



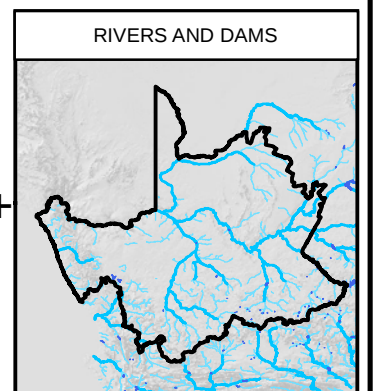
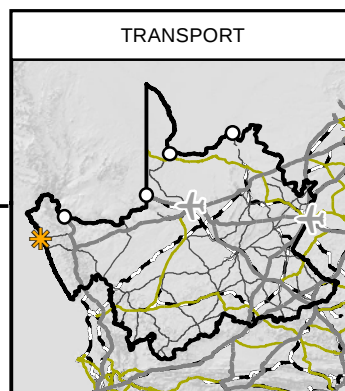
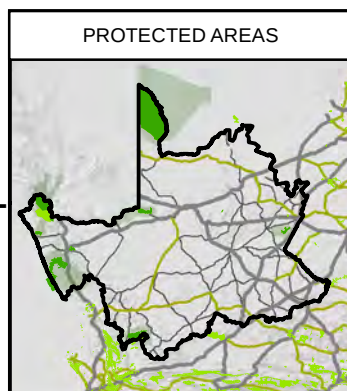
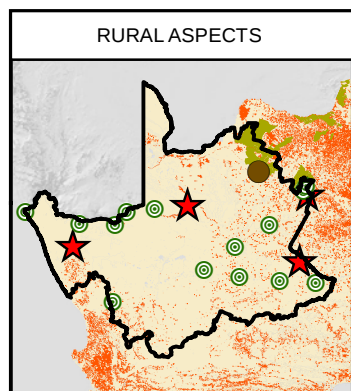
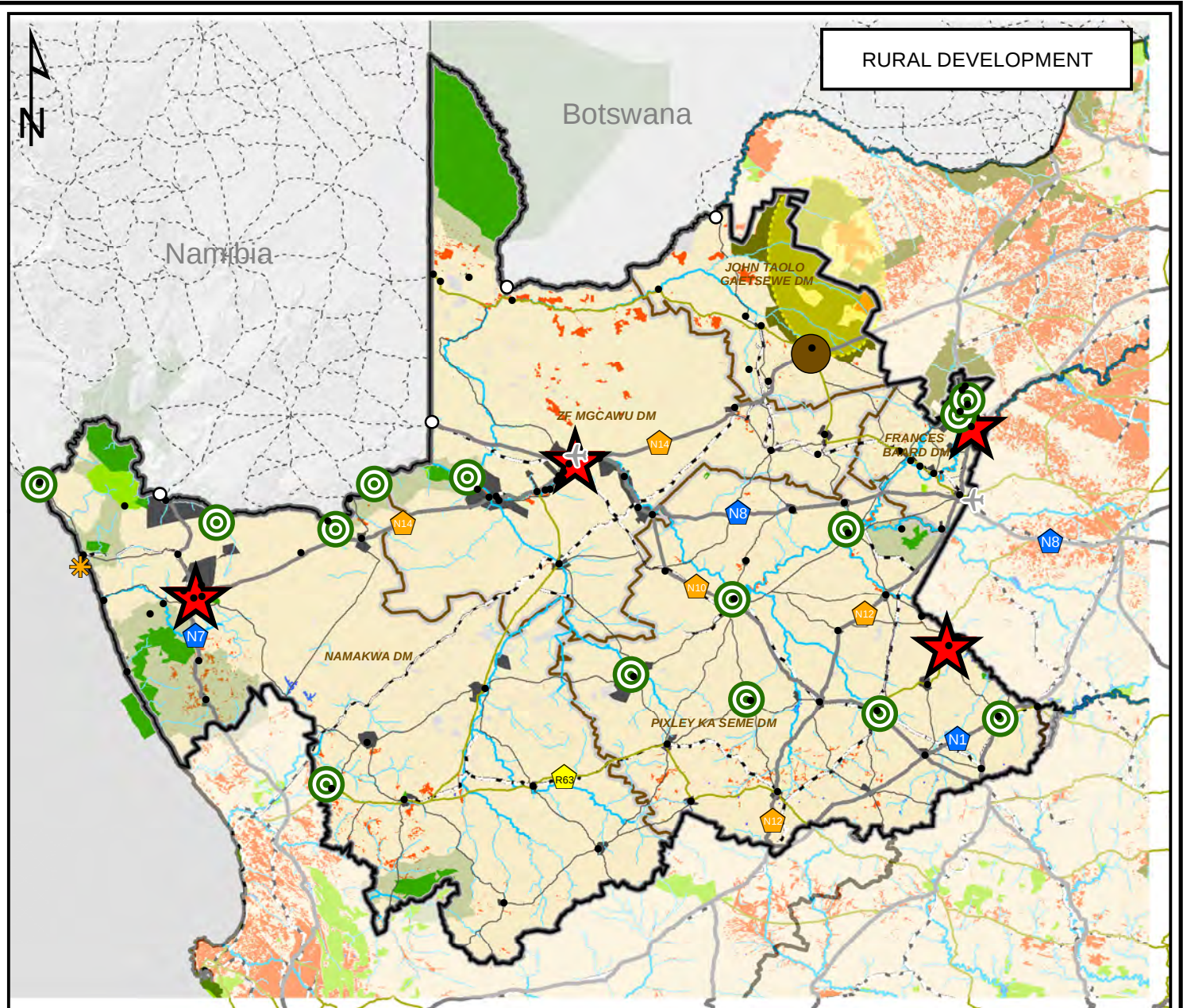
Legend

- | | | |
|--------------------|----------------------------|-----------------------------|
| ○ Border Posts | --- Railway Line | ▨ Tourism Zones |
| + Main Airports | — Main Rivers | ■ World Heritage Convention |
| ✳ Harbour | — Secondary Rivers | |
| • Towns | ■ Dams | |
| — Major Roads | ■ Tourism Corridor | |
| — Main Roads | ■ National Parks | |
| — Secondary Roads | ■ National Protected Areas | |
| --- Rest of Africa | ■ Nature Reserve Buffers | |

NORTHERN CAPE PROVINCE



0 25 50 100 150 km



Legend

- | | | |
|-----------------------------------|---------------------------|-------------------------------|
| • Towns | — Main Roads | ■ National Parks |
| ○ Border Posts | — Secondary Roads | ■ National Protected Areas |
| ✈ Main Airports | --- Rest of Africa | ■ Nature Reserve Buffers |
| ✴ Harbour | — Railway Line | ■ Towns / Settlements |
| ★ Agri-Hubs (AH) | — Main Rivers | ■ Rural Regeneration Zone |
| ◎ Farmer Production Support Units | — Secondary Rivers | ■ Tribal Areas |
| ● Rural Economic Hub | ■ Dams | ■ Rural Areas (Agriculture) |
| — Major Roads | ■ Rural Regeneration Zone | ■ Rural Areas (Natural Areas) |

NORTHERN CAPE PROVINCE



0 25 50 100 150 km

SPATIAL PLANNING CATEGORIES

SPC A AND B : NATURAL AREAS

SPC C: AGRICULTURAL AREAS

SPC: URBAN AREAS

SPC E: INDUSTRIAL AREAS

SPC F: URBAN AND RURAL DEVELOPMENT



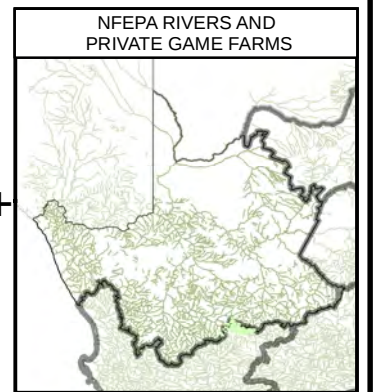
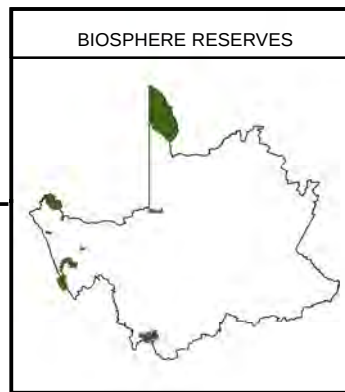
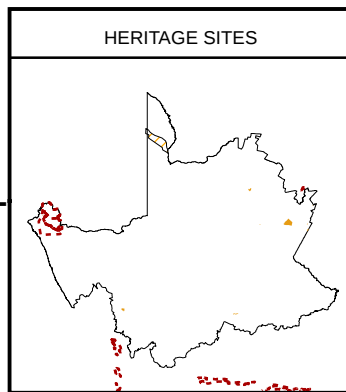
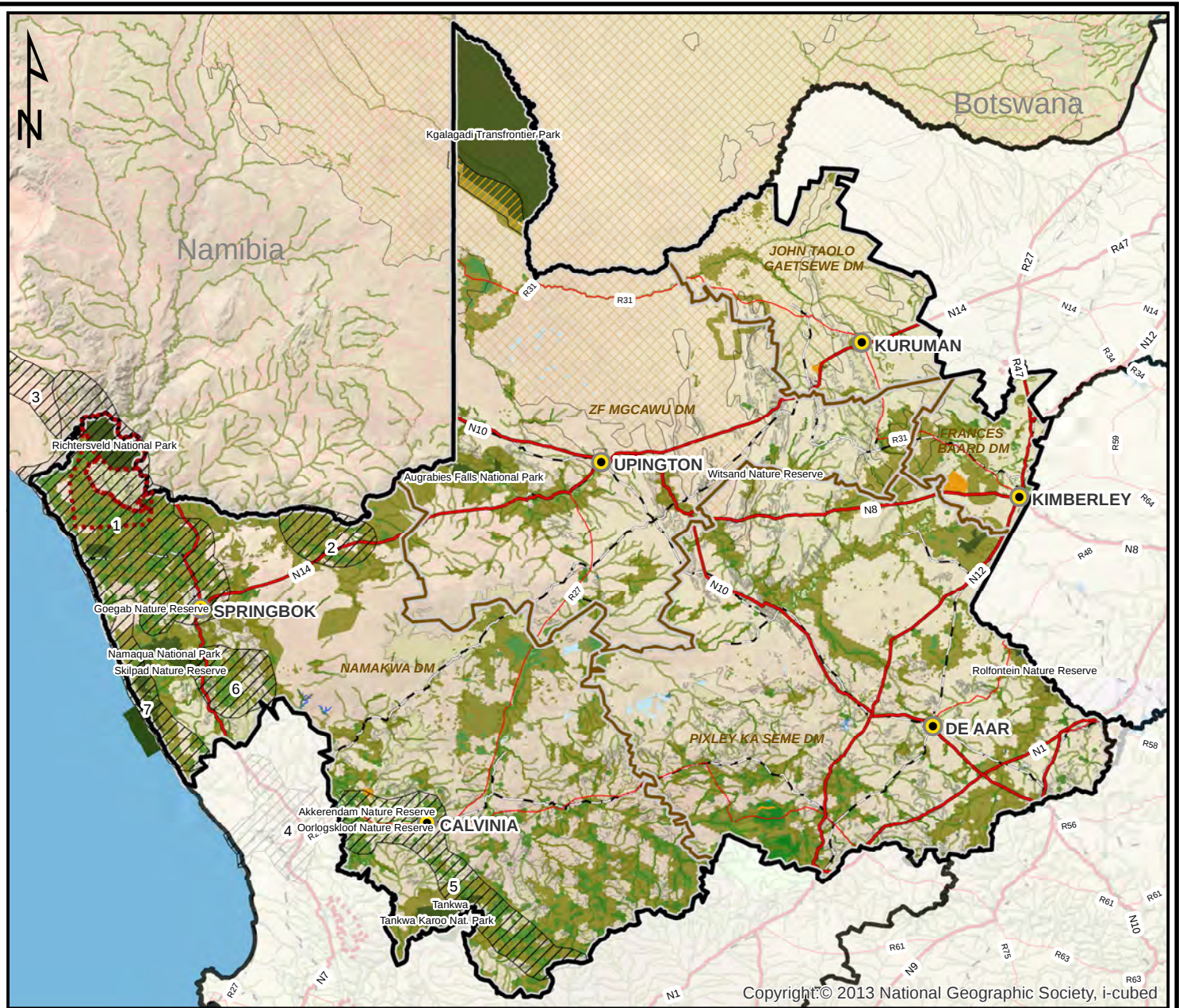
NORTHERN CAPE

PROVINCIAL SPATIAL DEVELOPMENT FRAMEWORK



| MAP BOOK |





MAP 4.1 NATURAL ENVIRONMENT: SPATIAL PLANNING CATEGORY A & B

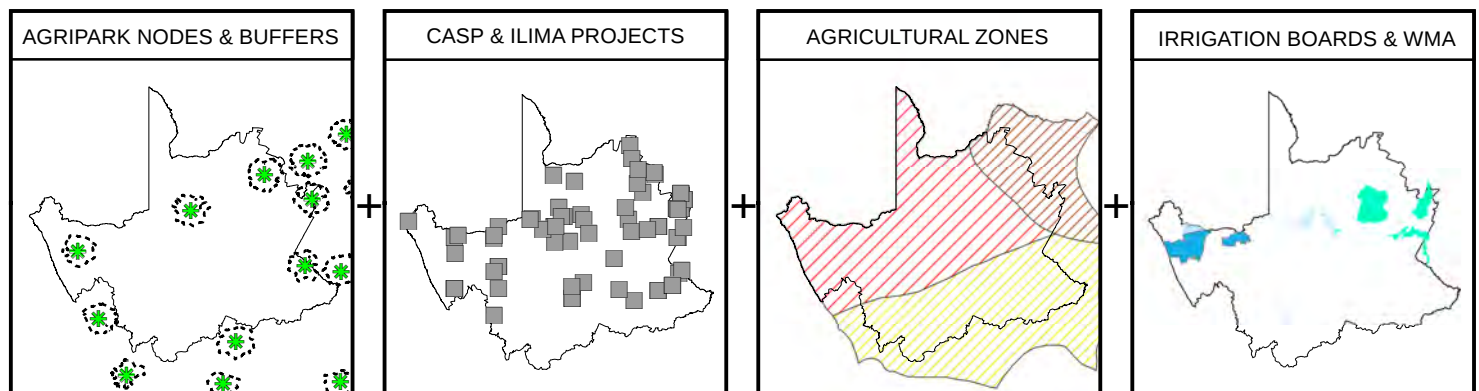
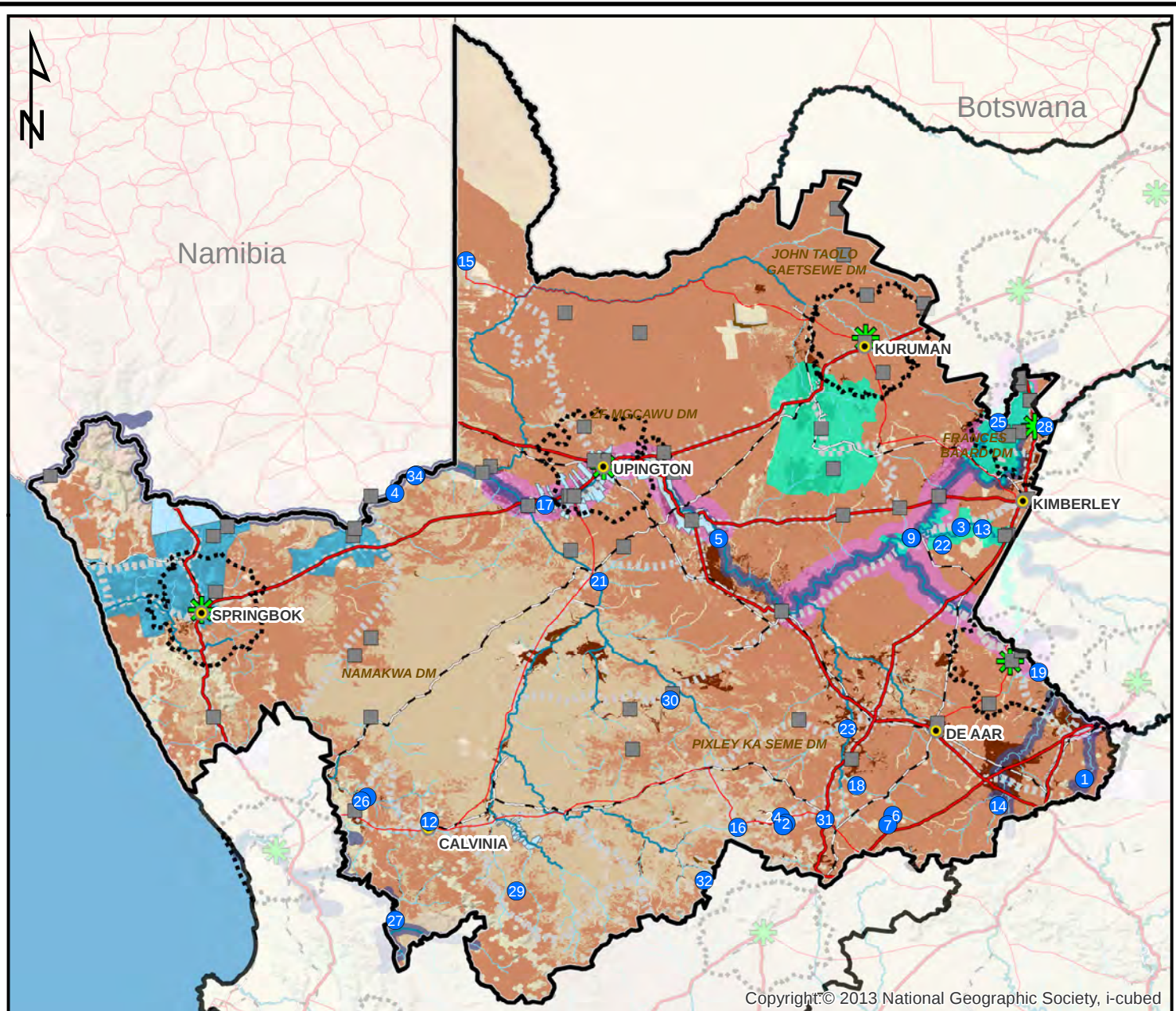
Legend

- | | | |
|---|--|--|
| <ul style="list-style-type: none"> Place Names Major Roads Main Roads Rest of Africa Railway Lines River Corridors World Heritage Site Heritage Sites Komani Heritage Site | SKEP Geographic Priorities <ul style="list-style-type: none"> 1 Greater Richtersveld 2 Bushmanland Inselbergs 3 Sperrgebiet 4 Knersvlakte 5 Bokkeveld-Hantam-Roggeveld 6 Namaqualand Uplands 7 Central Namaqualand Coast | <ul style="list-style-type: none"> Kalahari Basin Formally Protected Areas Private Nature Reserves Critical Biodiversity Area One Critical Biodiversity Area Two Wetlands Conservancies Dams Not suitable for agriculture or commercial forestry; suitable for conservation, recreation or water catchments |
|---|--|--|

NORTHERN CAPE PROVINCE



0 25 50 100 150 km



MAP 5.1 AGRICULTURAL AREAS: SPATIAL PLANNING CATEGORY C

Legend

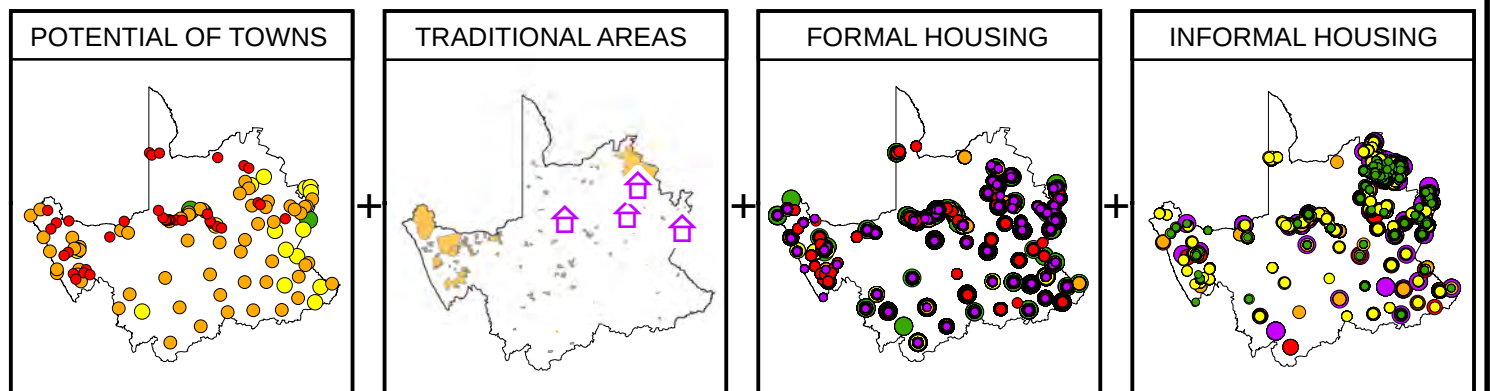
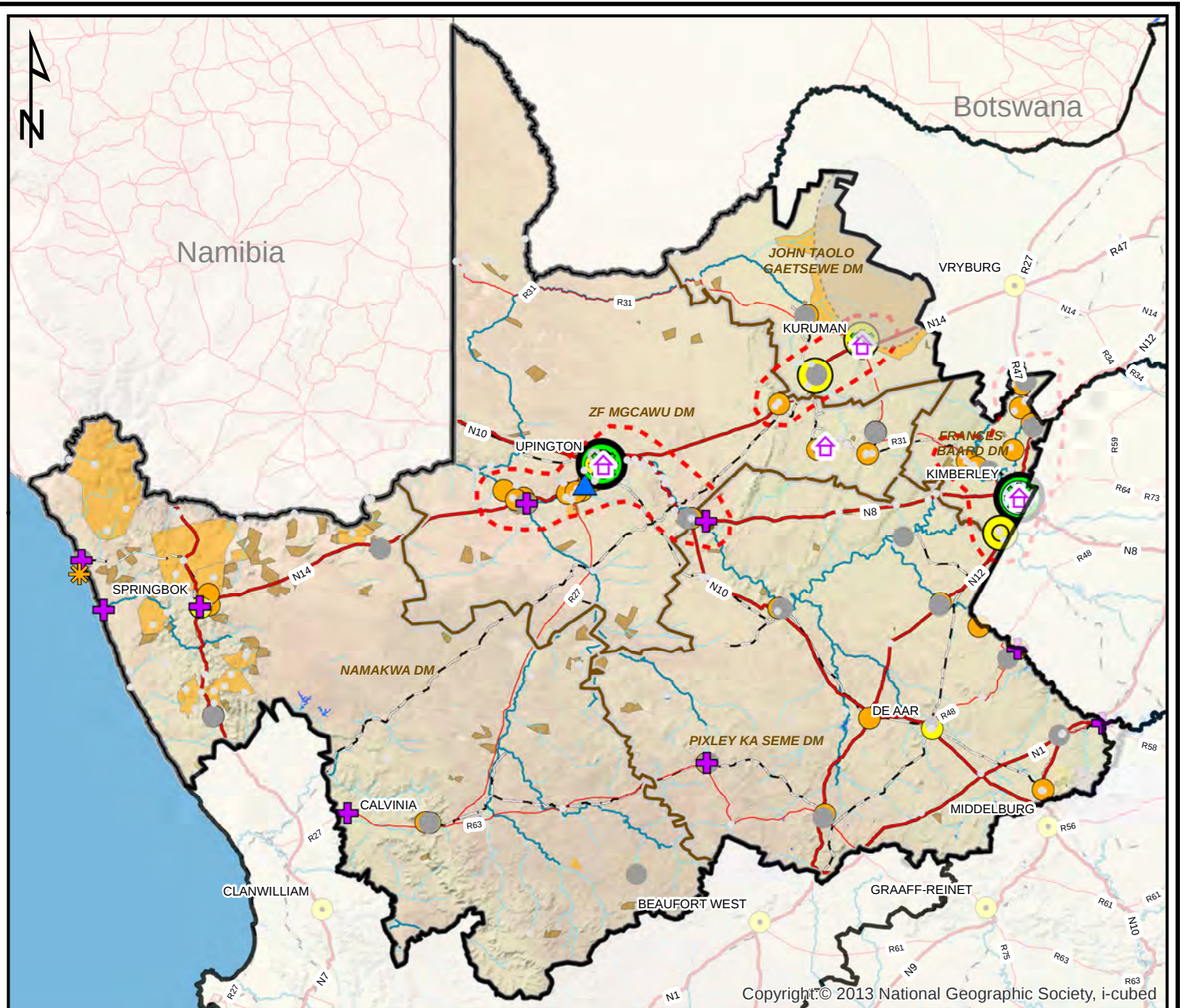
- Place Names
- Agricultural Projects
- AgriHubs
- Major Roads
- Main Roads
- Rest of Africa
- Railway Lines
- Main Rivers
- Secondary Rivers
- Distribution & Collection Routes
- 60km Agrihub Buffer
- Irrigation Boards
- Water Boards
- Water Management Areas
- Potential Intensive Irrigated Agriculture
- Vaal-Orange Agricultural Zone
- Intensive Agriculture
- Non Arable Land
- Extensive Agriculture

- | | | | |
|-------------------------|------------------------------|------------------------|----------------------|
| 1 Alarstfontein Dam | 10 Douglas-Atherton Weir/Stu | 18 Niekerkspoor Dam | 26 Stofkraal Dam |
| 2 Aspelling Dam | 11 Driekop Dam | 19 P.K. Le Roux Dam | 27 Twee Damme |
| 3 Aucampshoop Weir/Stuw | 12 Karee Dam | 20 Paley Dam | 28 Vaalharts-Studam |
| 4 Beenbreek Weir | 13 Koedoesbergdrif Weir/Stuw | 21 Rooiberg Dam | 29 Van Der Merwe Dam |
| 6 Boegoeborg Dam | 14 Kriegerspoort Dam | 22 Scholtzdam | 30 Vanwyksvlei Dam |
| 7 Brak Dam | 15 Leeubos Dam | 23 Smartt Syndrate Dam | 31 Victoria West Dam |
| 8 Dampas Dam | 16 Lepellanedam | 24 Soutpoort Dam | 32 Vonkfontein Dam |
| 9 Douglas-Atherton Weir | 17 Neusberg weir | 25 Spitskop Dam | 33 Yas Dam |

NORTHERN CAPE PROVINCE

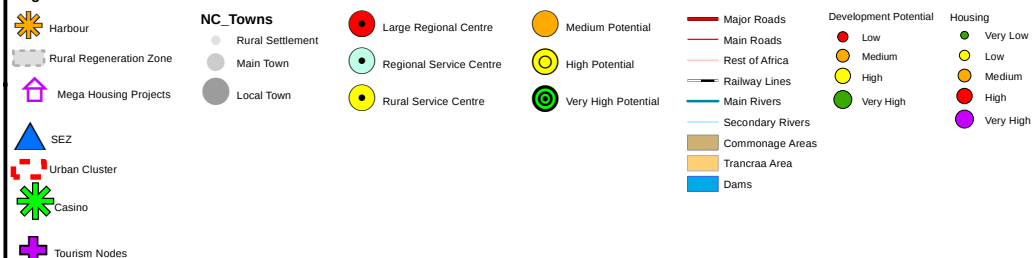


0 25 50 100 150 km

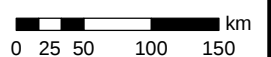


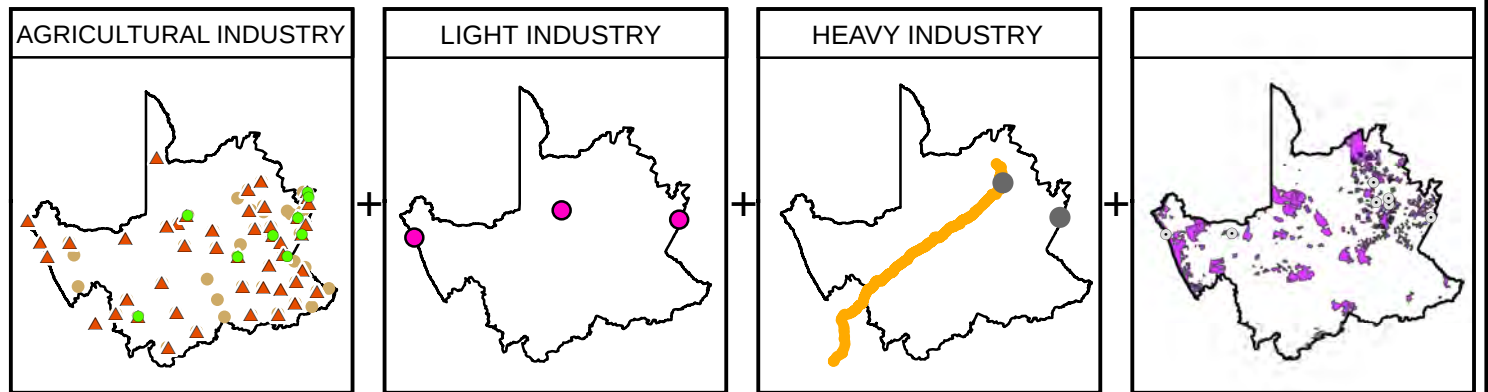
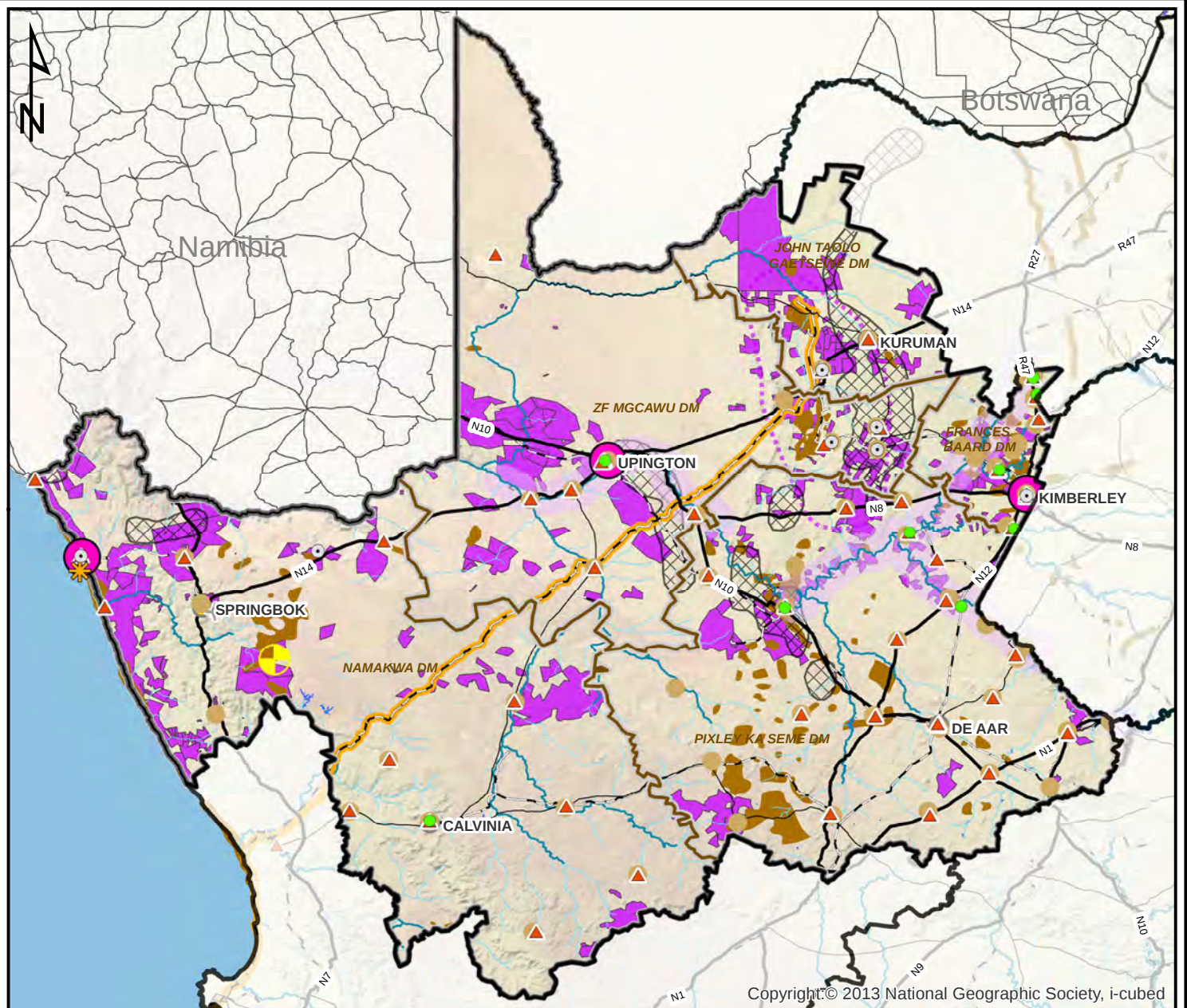
MAP 6.1 URBAN RELATED AREAS: SPATIAL PLANNING CATEGORY D

Legend



NORTHERN CAPE PROVINCE





MAP 7.1 INDUSTRIAL AREAS: SPATIAL PLANNING CATEGORY E

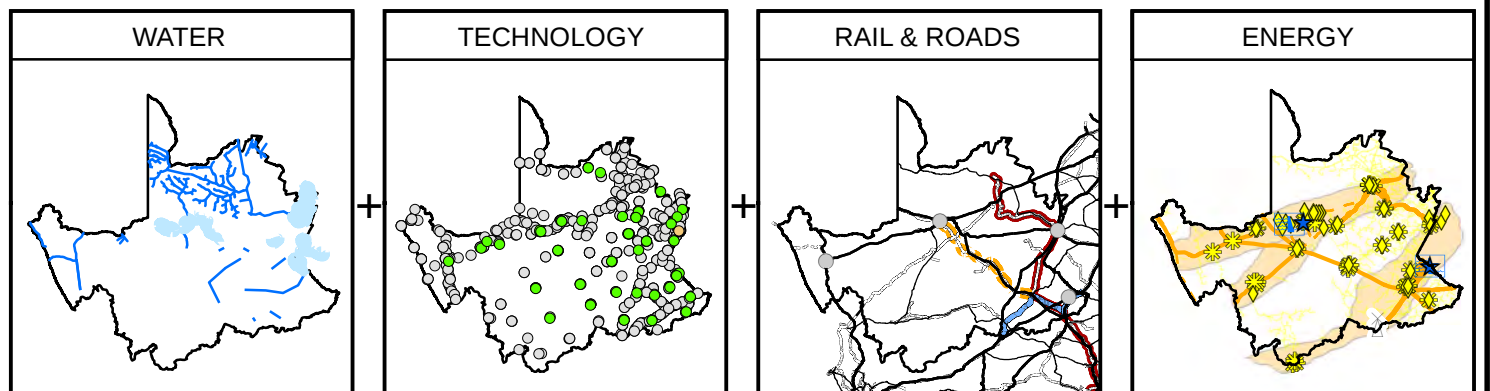
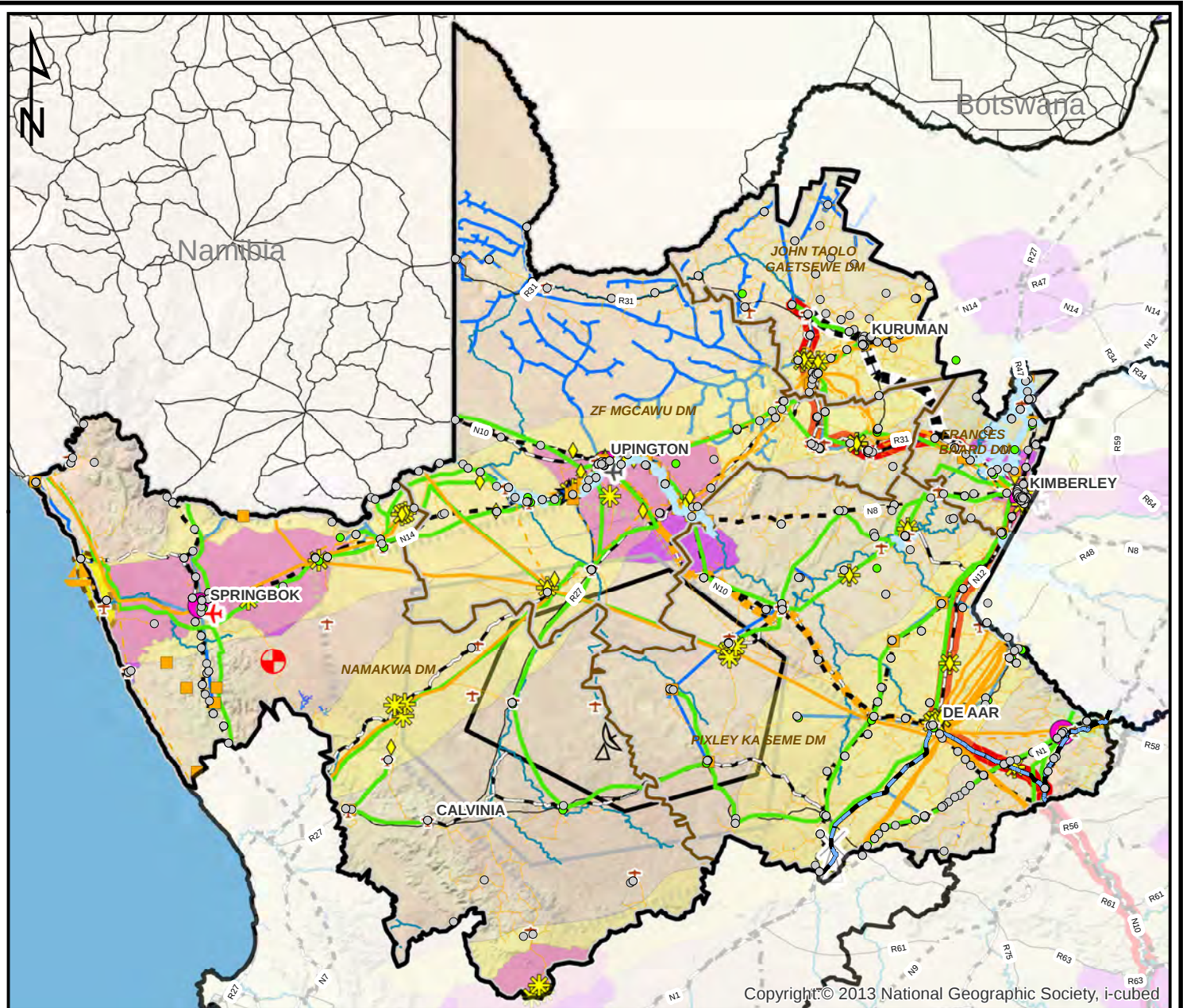
Legend

- | | | | |
|-------------------|-------------------------|----------------------------|---------------------------------|
| ▲ Abattoirs | ● Agricultural Industry | — Major Roads | ■ Gamagara Mining Corridor |
| ● Silos | ● Light Industry | — Main Roads | ■ Vaal-Orange Agricultural Zone |
| ⊙ Mining Towns | | — Rest of Africa | ■ Dams |
| ✈ Main Airports | | — Railway Lines | ■ Asbestos Mine |
| ☀ Harbour | | — Main Rivers | ■ Mining Focus Areas |
| ☀ NC Nuclear Site | | — Secondary Rivers | ■ Granted Mining License |
| | | — Saldanha Ironore Railway | |

NORTHERN CAPE PROVINCE



0 25 50 100 150 km



MAP 8.1 SURFACE INFRASTRUCTURE: SPATIAL PLANNING CATEGORY F

Legend

- | | | | |
|-------------------------------|------------------|----------------------|--|
| Solar Energy Plant | Wind Power Plant | Hydropower Plant | Bus_routes |
| Cellphone Towers | NC Nuclear Site | Eskom MV Lines | PRASA Railroutes |
| Fibre Optic Coverage | SKA Core Site | Proposed HV Line | Proposed Road |
| ADSL Coverage | WTW | Existing HV Line | Eskom Solar Corridors |
| Weighbridges | Airport | NC Broadband Lines | Windenergy Generation |
| WTW | Harbour | Major Roads | Karoo Central Astronomy Advantage Area 1 |
| Airport | Harbour | Main Roads | Karoo Central Astronomy Advantage Area 2 |
| Planned Airport | Harbour | Rest of Africa | Karoo Central Astronomy Advantage Area 3 |
| Airfields | Harbour | Railway Lines | Renewable Energy Development Zones |
| Eskom Existing Power Stations | Harbour | Main Rivers | Dams |
| | | Bulk Water Pipelines | Manganese Route |
| | | Canal | |

NORTHERN CAPE PROVINCE



0 25 50 100 150 km

**PROVINCIAL SPATIAL DEVELOPMENT FRAMEWORK (PSDF)
FOR THE NORTHERN CAPE PROVINCE**
HIGH QUALITY MAP PRINTS



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NORTHERN CAPE
**PROVINCIAL SPATIAL
DEVELOPMENT FRAMEWORK**

