

Development of a Strategic Environmental Assessment for the Identification of Energy Corridors, as well as Assessment and Management of a Gas Pipeline Network for South Africa

Project Steering Committee and Expert Reference Group Meeting 3

04 July 2019

09H45 - 14H00



South African National Biodiversity Institute

our future through science

Meeting Agenda

TIME	ACTIVITY/PRESENTATION	PRESENTER
09:45 - 10:00	Tea and Registration	All
10:00 - 10:10	Welcome and Introductions	DEA
10:10 - 10:45	Background and Progress on the SEA Process	CSIR
10:45 – 11:45	Pinch Point Analysis and Final Corridors	SANBI
11:45 – 12:00	Break	All
12:00 – 12:30	Pinch Point Analysis and Final Corridors (Continued)	SANBI
12:30 - 13:00	Discussion	All
13:00 – 13:30	Way Forward and Closing	All
13.30 - 14.00	Lunch	All

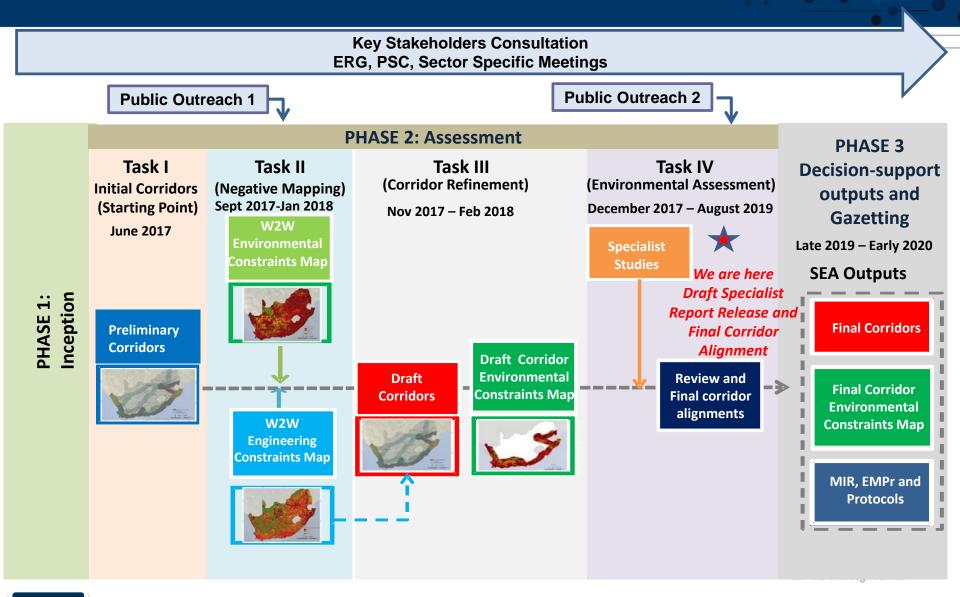


Background and Progress on the SEA Process

Gas Transmission Pipeline Network & EGI Expansion



SEA Process



Phase 1: Inception

Project Initiation Phase:

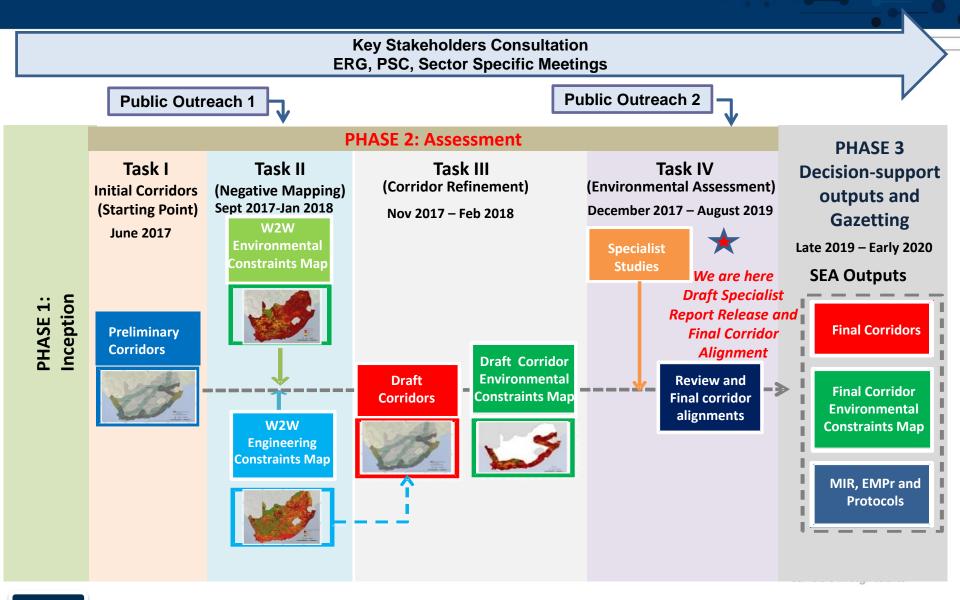
- April 2017 June 2017
- Convened ERG and PSC
- Dedicated Project Website: <u>https://gasnetwork.csir.co.za/</u>
- Dedicated Project Email Address: gasnetwork@csir.co.za
- <u>Consultation:</u>
 - July 2017 Adverts → inform stakeholders of the SEA: The Star; Cape Argus; Diamond Fields Advertiser; Daily News; Farmers Weekly; Engineering News
 - Emails to registered I&APs

Strategic Envi of a Go		etwork for Sc	outh Afri		
environmental affairs Dependent Republic of SouthAmeca	Sir	SANBI National Biodiversit	y institute	energy Department Department Republic or South Articca	
Public enterprises Parmer Pa	Eskom	Go			
Home SEA Process Project Summary	FAQs Resources St	akeholder registration	Contact us		
S S S	ener	gy gas	Cipexploratory ecosystems	ucture	
renewable	nenversions - iconaria nenversions - iconaria nenversions - iconaria	And		es t	
carbo					
Carbo	insorial ins			RCH	
You are here: Home The Needfor an SEA Objectives	internet in the social internet internet in the social internet int		SE /	ARCH	٩
You are here: Home The Needfor an SEA	sgic Environmental Ass		SE A		
You are here: Home The Needfor an SEA Opicitives Welcome to the official website for the Strate	sgic Environmental Ass outh Africa. the opportunity to regis for how stakeholders ca	essmert (SEA) for the star as stakeholders, ss for review and	SE A Se USE	EFUL INTERNET LINE DEA SANBI SIP 10: Electricitytrans attibution for all	KS
You are here: Home The Needfor an SEA Operative Welcome to the official website for the Stratt development of a Gas pipeline network for S The website provides the general public with convers the latest information and odptas of commerks; and describes the opportunities	sgic Environmental Ass outh Africa. the opportunity to regis for how stakeholders ca	essmert (SEA) for the star as stakeholders, ss for review and	SE A Se USE	erch EFUL INTERNET LINI DEA SANBI SIP 10: Electricitymans	KS
You are here: Home The Needfor an SEA Dojectives Welcome to the official website for the Stratt development of a Gas pipeline network for 5 The website provides the general public with conveys the latest information and outputs of comments; and describes the opportunities assessment over the 18 month SEA process	sgic Environmental Ass outh Africa. the opportunity to regis the assessment proce- for how stakeholders ca s. topment Plan (NDP), will elopment I no order to ad	essmert (SEA) for the der as stakeholders; ss for review and in engage futher in the hich provided South dress sentce delivery	SE A Se USE Se USE Se Se REC	BEA SAVEI SIP 10: Electricity trans SIP 10: Electricity trans DEA Environment GIS (KS

<



SEA Process: Phase 2



Vision of SEA: Development of a Strategic gas pipeline network and expansion of the gazetted EGI in an environmentally <u>responsible</u> and <u>efficient</u> manner that responds <u>effectively</u> to the country's economic and social development needs.

Effective

 Identify 100 km wide strategic energy corridors at a national scale based on future energy supply and demand requirements, environmental sensitivities as well as social and economic development priorities at a national, regional and localised level. <u>Routes are not being assessed as part of this</u> <u>SEA.</u>

Efficient

- Ensure streamlining of the Environmental Assessment Process by pre-assessing environmental sensitivities within the corridors to avoid fatal flaws and focus on the site specific level of assessment required. The tools to achieve this are currently under discussion.
 - E.g. Streamlining → Minimum Information Requirements / Protocols / BA Process
- Enable developers greater flexibility in terms of route options within the assessed corridors (i.e. avoid land negotiation concerns).
- Promote collaborative governance between authorising authorities.

Responsible

• Develop a generic EMPr, site specific development protocol, and standards or minimum information requirements.

Phakisa A1 Phased Gas Pipeline Network

Phasing

- Phase 1a: Saldanha to Ankerlig Phase 1b: Saldanha to Mossel Bay Phase 2: Mossel Bay to Coega Phase 3: **Richards Bay to Secunda** Phase 4: Mozambique Southern Border to Richards Bay Phase 5: Abrahamvilliersbaai to Ankerlig Take-off Phase 6: Phase 1 to Oranjemund (Namibia) Phase 7: Coega to Richards Bay
- Rompco: Komatiepoort to Secunda
- Shale Gas: Beaufort West to Phase 2

Phase 6

swane

Rompco Pipeline (Existing Infrastructure

Phase

Phase 4

Lesothor

South Attiba Shale Gas Lines (Not in Phakisa)

Phase 1b Phase 2

Phase 1a

Phase 5

Phase 7 or later: An expensive option

Gasnosu Line

(Not in Phakisa)

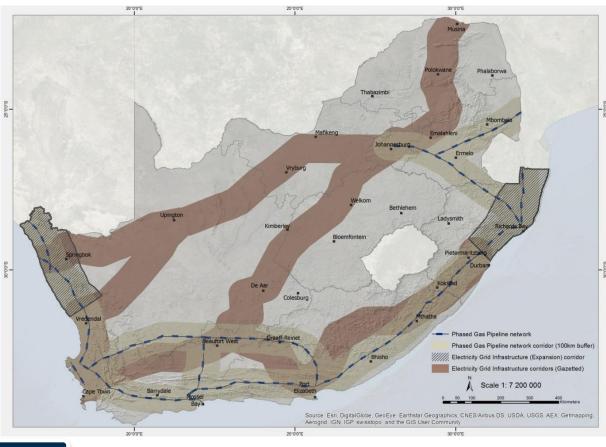
Swazilar

PetroSA Offshore Line (Existing Infrastructure)

Phase 2: Assessment – Task I

Draft Initial Corridors:

- 100 km wide
- Based on phased gas pipeline network identified in 2014 Operation Phakisa



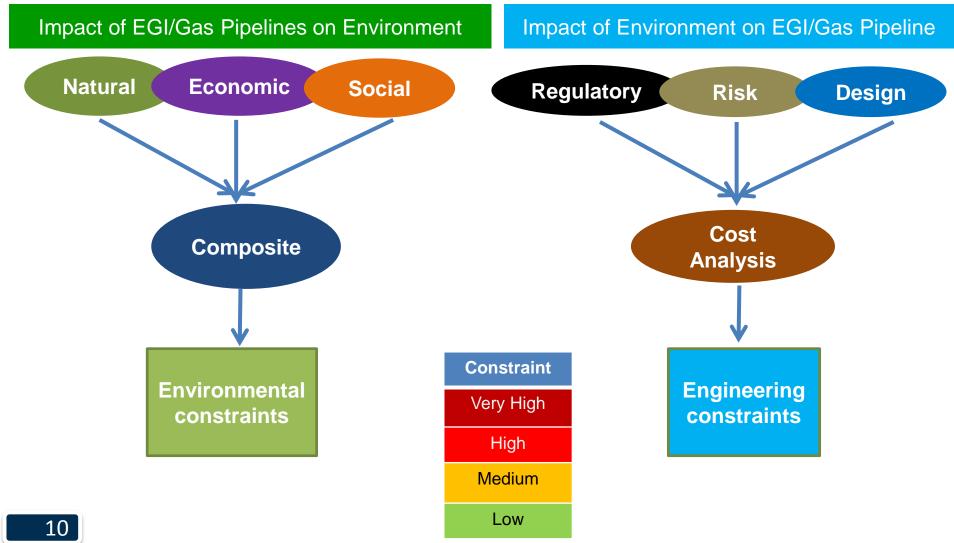
Consultation:

- September 2017: ERG and PSC Meeting 1
- Emails to registered • stakeholders



Phase 2: Assessment – Task II





Phase 2: Assessment – Task III

Corridor Refinement – Draft Pinch Point Analysis:

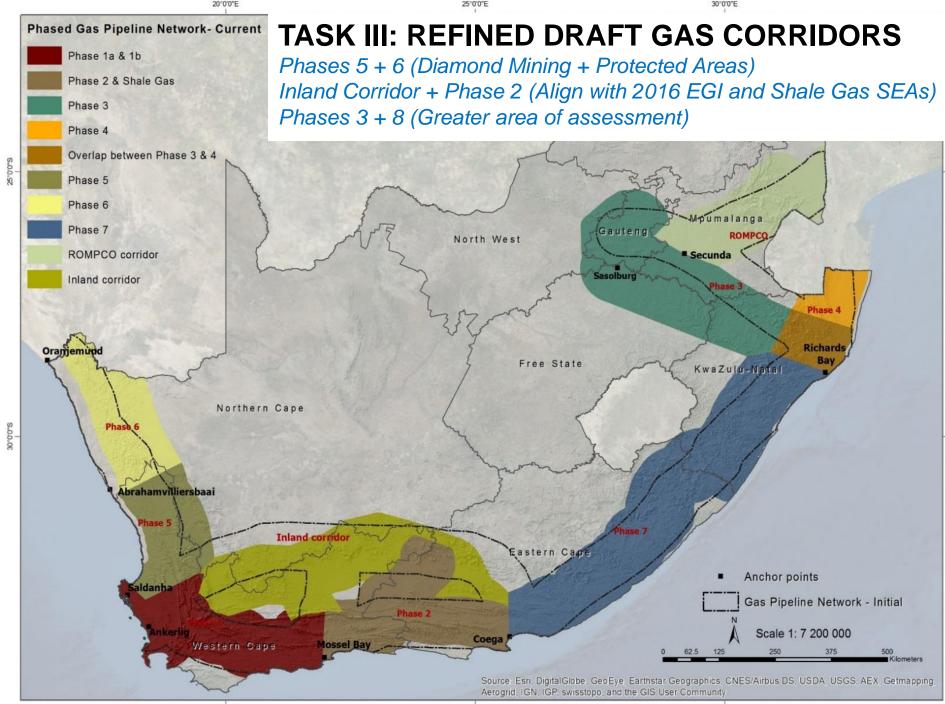
- Completed February 2018
- Consideration of Wall to Wall Negative Mapping → Environmental + Engineering Constraints → Shift corridors where possible to contain as many low sensitivity areas as possible.
- Identification of Draft Refined Corridors → 125 km wide → Assessed by Specialists

Consultation:

- October 2017: Adverts → notify stakeholders of Authority and Public Outreach Round 1: Business Day*; City Press*; Cape Argus; Daily Dispatch; Daily News; George Herald; The Gemsbok; The Star
- <u>1 8 Nov 2017</u>: Authority and Public Outreach Round 1: Cape Town; East London; Johannesburg; Durban; Springbok; George
- Emails to registered stakeholders

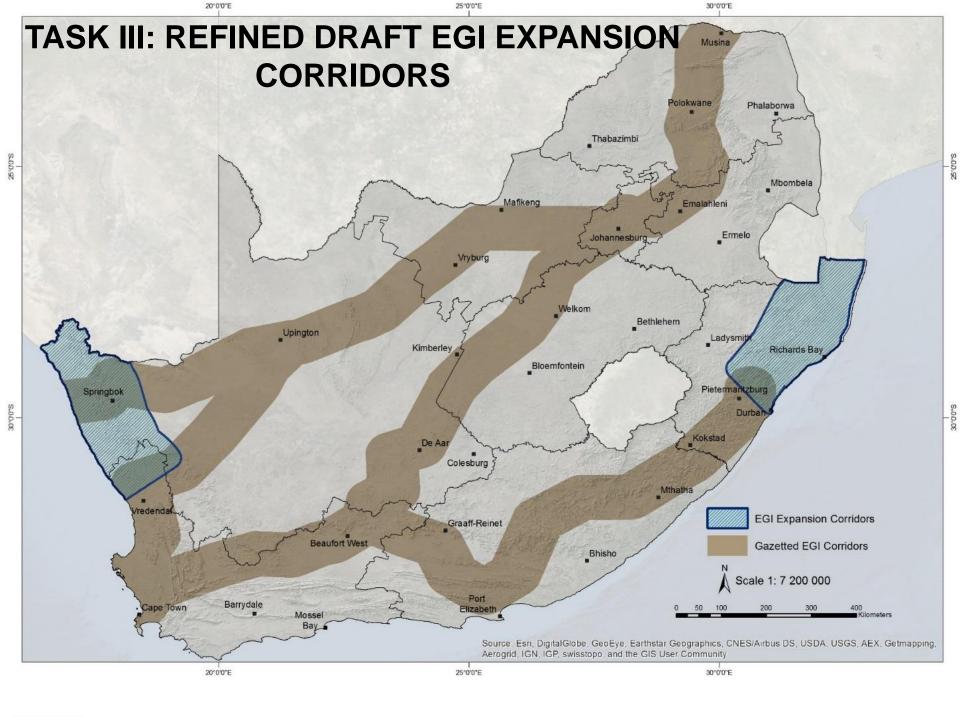


* = National Newspapers



20°0'0"E

25°0'0"E



Phase 2: Assessment – Task IV

Environmental Assessment:

- Draft Specialist Assessments completed July 2018
- Peer Review completed July 2018 February 2019
- Draft Specialist Assessments finalised for Stakeholder Review March 2019
- Draft Specialist Assessments and SEA Report Chapters released for stakeholder comment → 25 April 2019 – 24 June 2019

Biodiversity and Ecological Impacts (Terrestrial and Aquatic Ecosystems, Flora and Fauna)	Socio-Economic and Planning Assessment	Seismicity
 Terrestrial: Fynbos Biome Savannah and Grassland Biomes Indian Ocean Coastal Belt Biome Albany Thicket Biome (<i>Gas Pipeline only</i>) Succulent and Nama Karoo Biomes 	 <u>Gas Pipeline Network</u> Benefits and Opportunities of Gas Regional and Settlement Planning Governance and Disaster Management 	 Earthquakes and Faults
<u>Aquatic:</u>EstuariesRivers and Wetlands	 <u>EGI Expansion</u> Socio-Economic Impacts 	
Bats	Avifauna	Visual (EGI only)

Phase 2: Assessment – Task IV

Peer Review Outcomes

- Mainly queries on TOR (e.g. quantitative assessment for seismicity) and project description (e.g. additional background to be provided on project phases etc.).
- Clarifications on data sources used and recommendations (e.g. use of 2011 Gazette for Threatened Species).
- Clarifications on certain recommendations provided in the reports (e.g. provide alternative methods for dust control in water-stressed catchments (Fynbos)).
- Clarifications on sensitivity assignment to some features (e.g. KZN CBA Irreplaceable scored as "High" instead of "Very High" due to the level of transformation in the biome).
- Recommendations on additional literature sources (e.g. Karoo, IOCB, Seismicity)
- Provision of additional mitigation and management actions
- Layout and grammar changes

Phase 2: Assessment – Task IV

Comments Received during Stakeholder Review (Draft Specialist Assessments):

- Mainly queries on project scope and description
- Clarifications on certain recommendations provided in the reports
- Concerns regarding the exemption from an Environmental Authorisation (EA) within the corridors
- Climate change and greenhouse gas emissions
- Servitude agreements and recommendations
- Provision of management actions and recommendations for the EMPr
- Impacts on heritage features
- Grammar changes



Phase 2: Assessment – Task IV - Consultation

Date	Mechanism (*Including emails to registered stakeholders)
6 July 2018	Article published - Engineering News
31 July 2018	ERG and PSC Meeting 2 – Draft Specialist Studies
August 2018	Adverts \rightarrow update on SEA Process: Cape Argus; Daily News; Diamond Fields Advertiser; The Star
Sep - Oct 2018	Adverts → notify stakeholders of <u>Authority and Public Outreach Round 2</u> : Business Day*; City Press*; Cape Times; Daily Dispatch; Daily News; EP Herald; George Herald; The Gemsbok; The Star; Pretoria News; Diamond Fields Advertiser
8 Oct – 22 Nov 2018	Authority and Public Outreach Round 2: George; Port Elizabeth; East London; Durban; Johannesburg; Upington; Springbok; Cape Town
25 April - 24 June 2019	Stakeholder Consultation – Specialists Studies + Parts 1, 2 and 3 of SEA Report
21 May – 23 May 2019	Adverts → notify stakeholders of <u>Public Information Sharing Session in</u> <u>Durban</u> : Tongaat and Verulam Tabloid; Southern Star; Highway Mail; Springfield Weekly Gazette; Eyethu Umlazi (isiZulu); Isolezwe (isiZulu)
13 June 2019	Second Durban Public Information Sharing Session

Phase 2: Assessment – Task IV - Consultation

Additional Engagements		
ERG and PSC	Meeting 3 – 4 July 2019	
Sector Specific Meetings – 2017 - 2019	Ports of Richards Bay, Durban, Ngqura and Saldanha, PICC, WC DEADP, Ingonyama Trust, KZN COGTA, Chamber of Mines, BUSA, EIUG, DAFF, DoD, SAOGA, EWT, Birdlife, DPME, DBSA, WC MinMay Tech, etc.	
Municipality Feedback Exercise (Demand Mapping)	April 2018 – December 2018	
Industry Feedback Exercise (Demand Mapping)	May 2018 – July 2018	

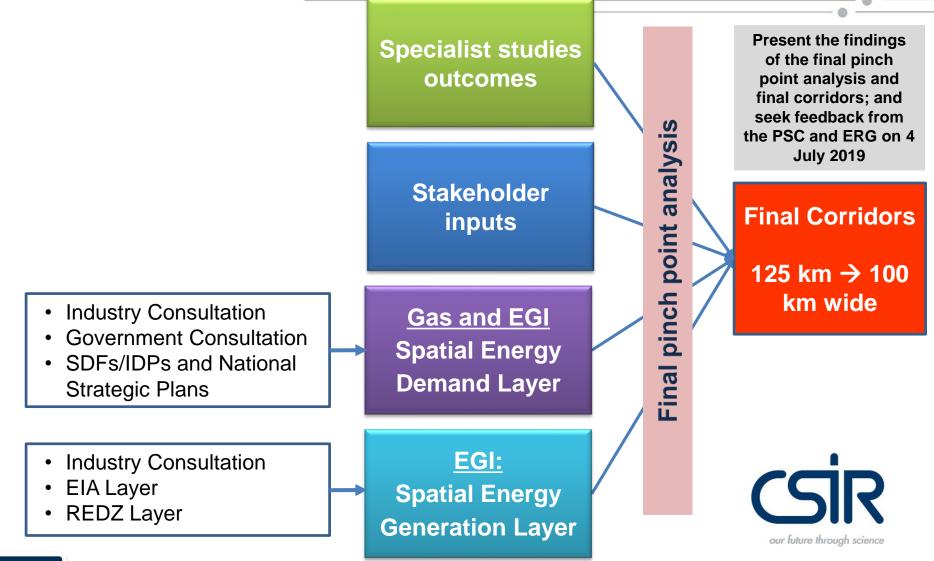


Phase 2: Assessment – Task IV Tasks to be Completed

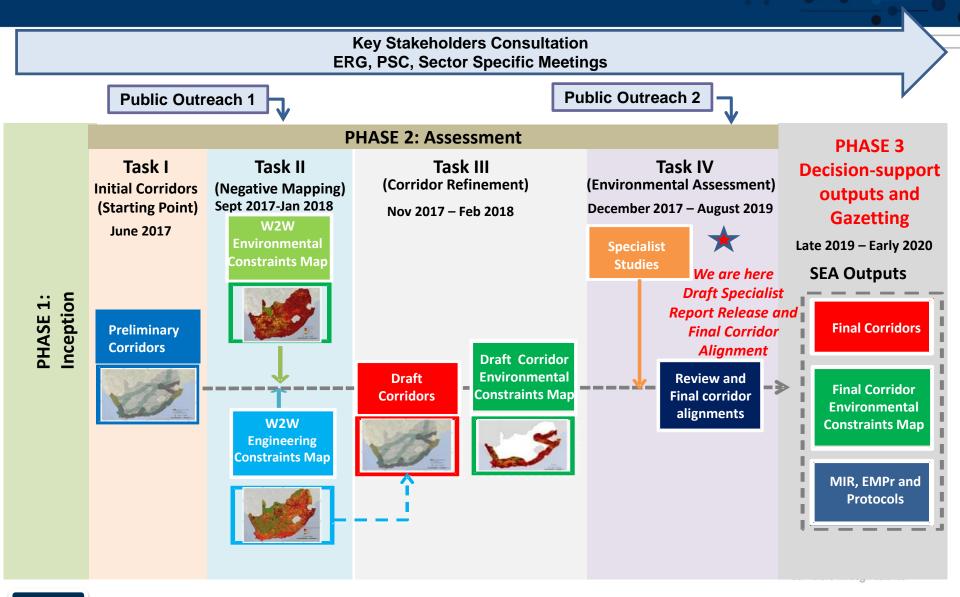
- Undertake Final Pinch Point Analysis → Identification of Final Corridors
- Compile Final SEA Report
 - Comments and Responses Trail (after comment closure period)
 - Update Specialist Studies, where required
 - Compile additional chapters Mining Impacts, Final Pinch Point Analysis, Demand Mapping, Public Consultation



Phase 2: Assessment – Task IV Tasks to be Completed - Final Pinch Point Analysis



SEA Process: Phase 3



Phase 3: Decision Support Outputs

Decision Support Outputs and Gazetting:

- Streamlining of Environmental Authorisation (EA) Process:
 - Revised approach no longer viable to allow exemption from EA in the corridors.
 - Way forward → Minimum Information Requirements → EA still required (BA Process)
- Protocols will need to be followed
- Generic EMPr \rightarrow Local and international researched examples
- Complete above by end 2019





our future through science