



Karratha and Roebourne SOCIAL IMPACT ASSESSMENT SUMMARY

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Acknowledgement of Country



Umwelt would like to acknowledge the traditional custodians of the country on which we work and pay respect to their cultural heritage, beliefs, and continuing relationship with the land. We pay our respect to the Elders – past, present, and future.

1.0 Introduction

In 2022, Woodside Energy (Woodside) commissioned Umwelt (Australia) Pty Ltd (Umwelt) to prepare an updated and consolidated Social Impact Assessment (SIA) for its Karratha-based activities. The purpose of the SIA was to assess potential impacts and opportunities associated with two proposed future operating scenarios to inform future business strategies and decision making.

The assessment was structured to meet Woodside's Impact Assessment Procedure and supporting Social Impact Management Guideline and Social Impact Significance Tool. These documents outline minimum requirements for Woodside in undertaking impact assessments appropriate to the nature and scale of the activity, the regulatory context, the receiving environment, interests, concerns and rights of stakeholders and communities.

The SIA was prepared to inform future Woodside decision-making by analysing the potential negative and positive social impacts associated with two hypothetical business scenarios for Woodside's future activities over the next ten years – growth and decline.

A high-level summary of these scenarios is provided at **Figure 1.1**.

GROWTH



- Continuing operations at the Woodside Energy-operated Karratha Gas Plant and Pluto LNG Plant
- Operation of the Pluto and Karratha Gas Plant Interconnector pipeline
- Pluto Train 2 Project construction complete, operational and processing offshore Scarborough gas
- North West Shelf Project attracting and processing third-party gas at a modified Karratha Gas Plant
- Carbon capture and storage underway
- Completion of the Woodside Power Project (100MW solar facility)
- Development of additional new energy projects in the Pilbara e.g. hydrogen / ammonia at Maitland Industrial Estate
- At least 4 trains at KGP by 2030, potentially 5
- Potential for Angel offshore platform to be used for carbon capture and storage

DECLINE *



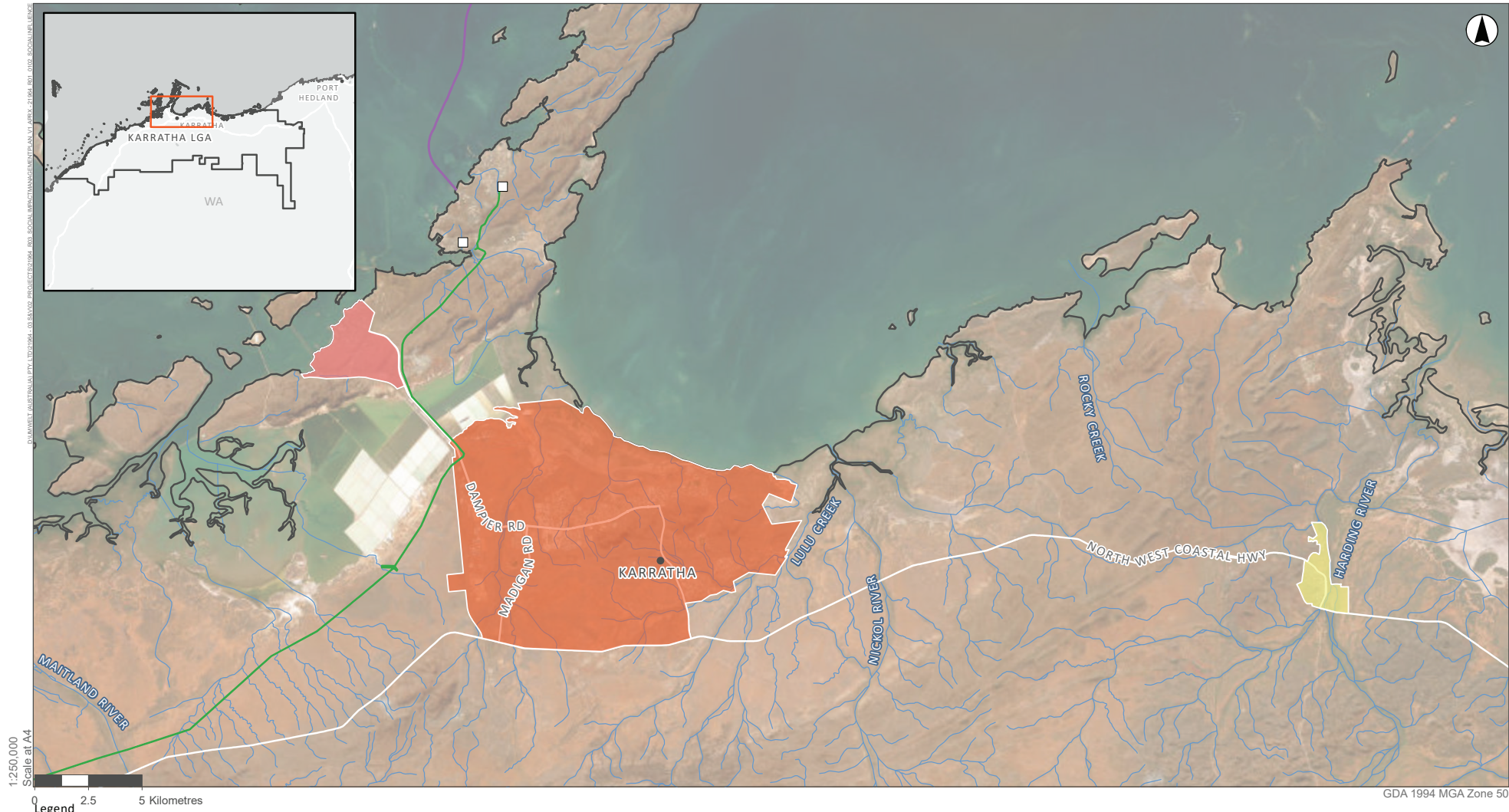
- Assumes Woodside has not secured long-term third-party gas for processing at Karratha Gas Plant during the next 10 years
- Significant reduction in utilisation of infrastructure at Karratha Gas Plant
- Only two trains at KGP
- Operations at Karratha Gas Plant and Pluto LNG Plant (including Pluto Train 2) expected to cease in the mid-2040s
- Decommissioning of North West Shelf Project offshore facilities has commenced
- No new energy projects have been developed
- Significant reduction of Woodside employees residing in Karratha.
- Bay Village Camp lease complete (currently a 15 year lease)

* Please note that the SIA is being informed by potential scenarios which have been defined for what Woodside's operations and projects may look like in the future. The 'Decline' scenario is not what is anticipated but has been defined to inform the SIA. The NWS Project Participants are actively pursuing opportunities from their own reserves and third-party gas to utilise ullage at the KGP.

Figure 1.1 Growth and decline scenarios

The study area for the SIA has incorporated the Karratha LGA, and more specifically the communities represented by the Karratha Statistical Area Level 2 (SA2), Roebourne Urban Centre and Locality

(UCL) and Dampier Suburb and Localities (SAL) as defined by the Australian Bureau of Statistics (ABS).



- Legend
- Town
 - Facility/Plants
 - Local Government Area
 - Roebourne Urban Centres and Localities (UCL)
 - Karratha Statistical Areas Level 2 (SA2)
 - Dampier Suburbs and Localities (SAL)
 - Dampier to Bunbury Natural Gas Pipeline
 - Pluto LNG Pipeline

**Figure 1.2
Social Locality**

Image Source: ESRI Basemap (2021) Data source: NSW DFSI (2021)

2.0 Methodology

SIA is an approach to predicting and assessing the likely consequences of a proposed action in social terms and developing options and opportunities to improve social outcomes. Best practice SIA is participatory and involves understanding impacts from the perspectives of those involved in a personal, community, social or cultural sense, to provide a complete picture of potential impacts, their context and meaning.

In line with Woodside guidance and SIA best practice, this SIA involved several key phases of work. These phases are outline in the figure.

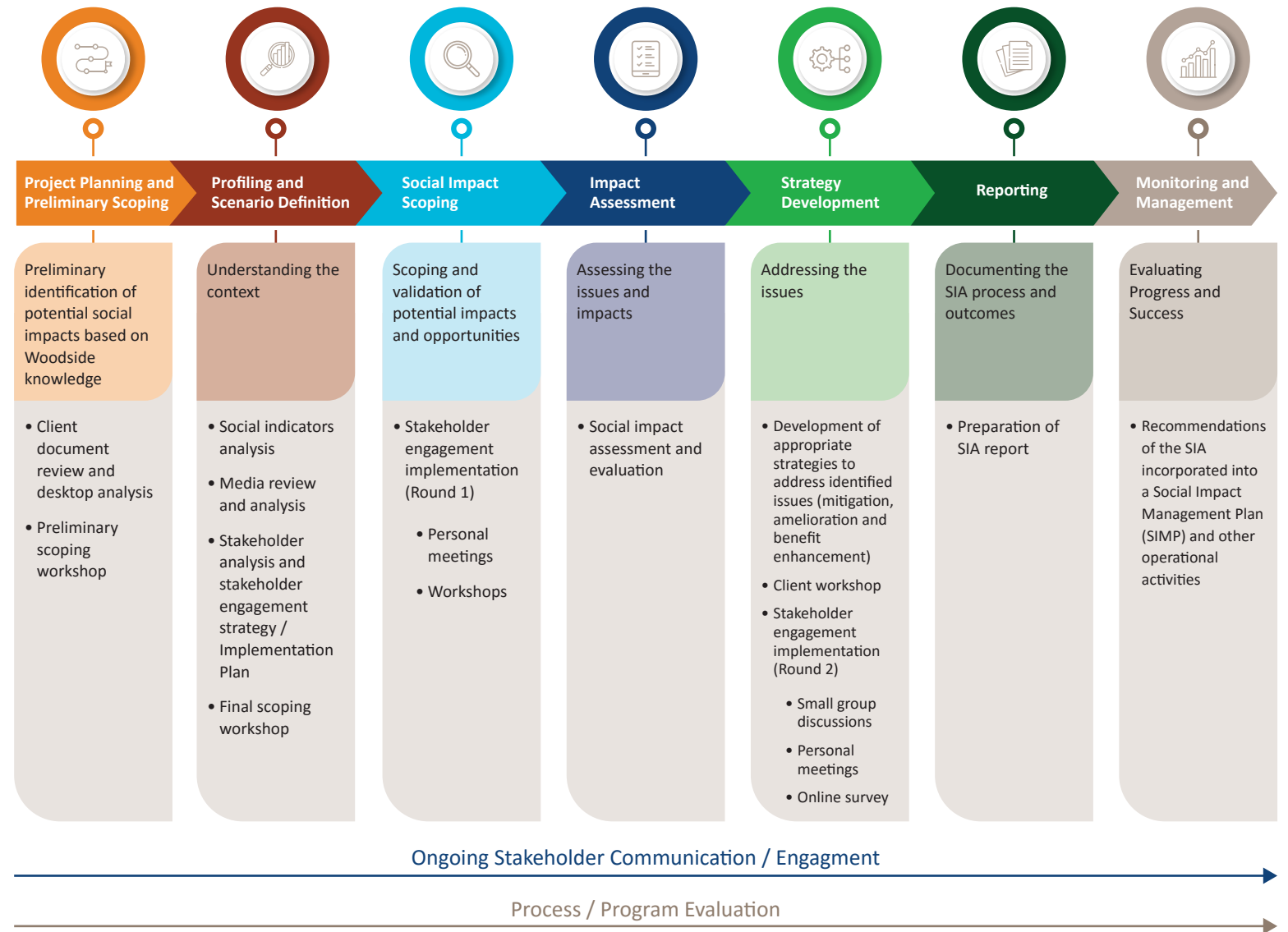


Figure 2.1 SIA Program Phases

3.0 Stakeholder Engagement



Engagement was undertaken at key phases of the SIA, to afford a participatory approach and to involve local and regional stakeholders in the scoping of issues and identification of strategies to address and enhance identified impacts and opportunities.

A stakeholder identification process was undertaken to support the planning and delivery of stakeholder consultation to inform the SIA. Stakeholder categories and stakeholders consulted within each of these is presented at **Figure 3.1**.

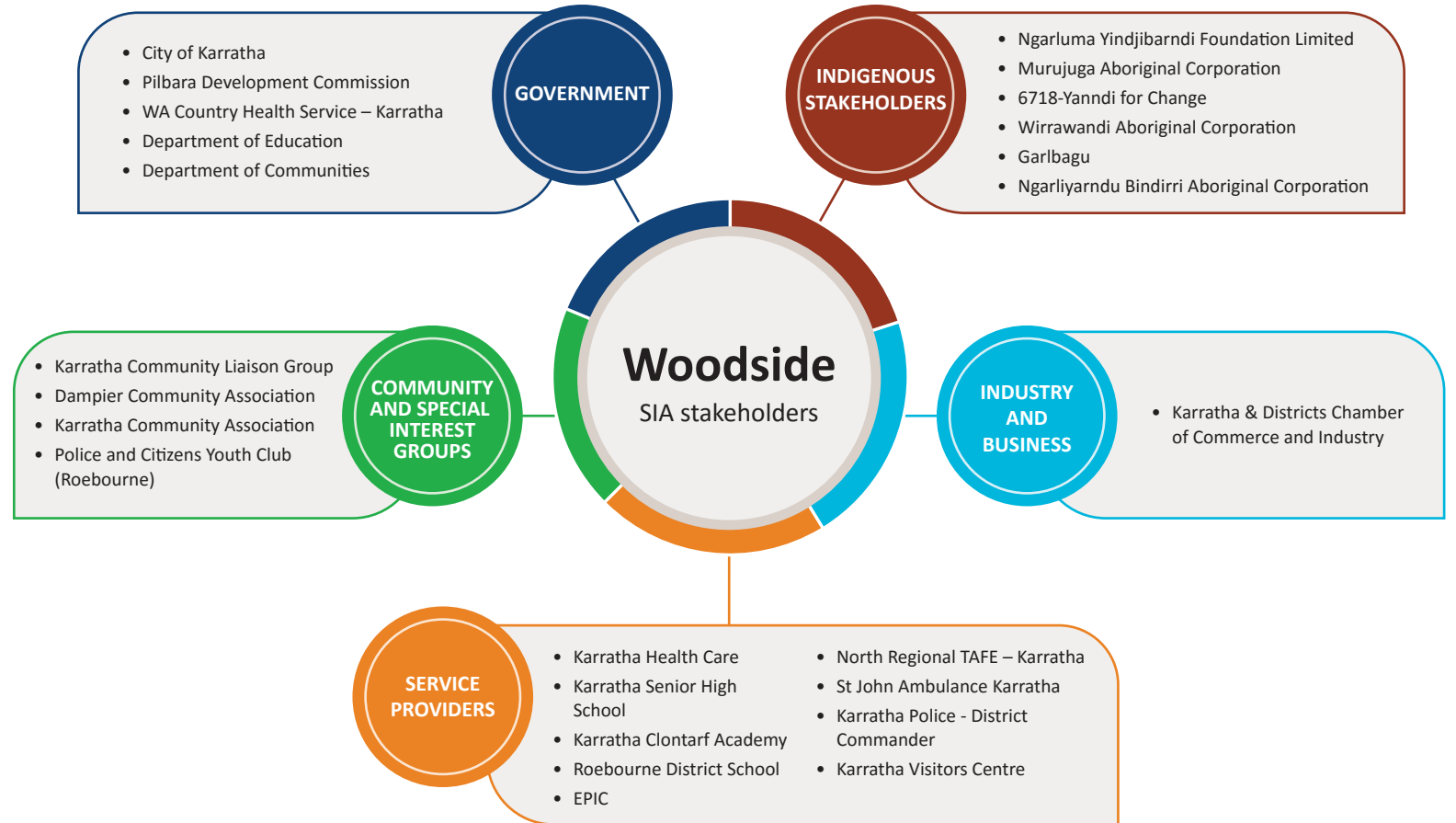


Figure 3.1 Consulted Stakeholders

Table 3.1

Table 3.1 provides a further breakdown of the number of stakeholders contacted and the number that participated in the consultation program by stakeholder grouping. All stakeholders consulted in the first round of engagement were invited to also participate in the second round. In a small number of instances, new stakeholders were identified for inclusion in the second round of consultation. A number of stakeholders who could not attend the first round of engagements were subsequently available for the second.

			No. Contacted (Round 1)	No. Contacted (Round 1)	No. Contacted (Round 2)	No. Contacted (Round 2)
	Indigenous stakeholders	Personal interview (Round 1) Workshop (Round 2)	7	5	5	3
	Industry and business	Personal interview (Round 1) Workshop (Round 2)	4	1	4	4
	Service providers	Personal interview (Round 1) Workshop (Round 2)	9	8	12	7
	Community and special interest groups	Personal interview (Round 1) Workshop (Round 2)	3	2	2	1
	Government Agencies	Personal interview (Round 1) Workshop (Round 2)	7 ¹	5	7	7
	Community Liaison Group (CLG)	Workshop (Round 1 and 2)	NA	7	NA	2
	City of Karratha	Executive meeting	NA	6 ²	NA	3
			Total	34	Total	27

¹ Does not include City of Karratha

² Refers to number of attendees at executive meeting.

4.0 Social Impacts and Management



During consultation activities, participating stakeholders were asked to identify impacts and opportunities associated with both the growth and decline of Woodside's activities in the future. In responding to these questions, typically stakeholders focused their discussions on particular impacts and concerns associated with Woodside's existing operations, and how such impacts may be further exacerbated under a growth scenario.

During the assessment, perceived opportunities and risks identified by stakeholders engaged for the SIA have been separated into growth and decline scenarios. Impacts have been categorised into social impact categories as defined by Woodside's Social Impact Management Guideline and have been assessed utilising the company's Social Impact Significance Assessment Tool (Woodside, 2021).

Given Woodside's approach in evaluating social risk and impacts, positive impacts have also been separated from negative impacts. While Woodside's approach does not require the ranking of positive social impacts, a significance rating has been undertaken to highlight the significant ways in which the company is currently contributing to the community and which result in shared value and community benefit.

Potential impacts and opportunities associated with the growth and decline scenarios are included in the following graphics under each impact theme:

Summary of Impacts and Opportunities – Growth Scenario



WAY OF LIFE AND COMMUNITY

- + Opportunity for ongoing and enhanced social investment activities and partnerships
- + Potential for increased investment in the provision of additional housing / accommodation
- + Increase in population associated with additional residential operational workforce influx
- Community conflict and division due to opposing community views regarding gas production
- Continued high economic dependence of the community on Woodside activities
- Continued difficulty recruiting essential workers due to housing stress, high cost of living and wage disparity within the community
- Increase in population associated with construction workforce influx without a commensurate increase in facilities and services to support
- Lack of economic and community contribution given potential increase in the proportion of Woodside's FIFO workforce



LIVELIHOODS

- + Potential for additional local employment and contracting opportunities
- + Potential for an increase in direct and indirect employment opportunities for Karratha LGA residents / wider Pilbara region in general
- + Potential for enhanced local procurement opportunities for local businesses
- + Potential for investment in addressing skills shortages / capacity building
- Increased cost of living due to presence of Project operations and high industry workforce wages
- Continued difficulty recruiting essential workers due to housing stress, high cost of living and wage disparity within the community



CULTURE

- + Opportunity to build more diverse community culture in Karratha through further investment in community cultural activities
- + Increased opportunities for enhanced Indigenous engagement
- Potential deterioration of cultural heritage sites at Burrup Peninsula due to environmental impacts associated with Woodside's operations
- Restricted access to cultural sites due to Woodside's operational activities
- Loss of key community members from Indigenous communities affecting continued cultural knowledge sharing and participation in cultural activities



HEALTH AND WELLBEING

- Health and wellbeing impacts experienced by Woodside FIFO workforces
- Concerns regarding potential health impacts associated with flaring and air emissions from Woodside's operations



ENVIRONMENT

- + General transition to renewable energy assisted by Woodside Power / renewables projects
- Potential deterioration of cultural heritage sites at Burrup Peninsula due to environmental impacts associated with Woodside's operations
- Continued perception of climate change impacts because of company activities
- Further industrialisation of the landscape and impact on social amenity
- Social amenity, accessibility and safety issues associated with workforce traffic movements



POLITICAL SYSTEMS

- + Increased opportunities for enhanced Indigenous engagement
- Perceived lack of meaningful input to company decision making:
 - Need for improved communication of Woodside's future plans
 - Need for more consistent and transparent engagement and communication
- Varying contractor commitments to social performance management

Summary of Impacts and Opportunities – Decline Scenario



WAY OF LIFE AND COMMUNITY

- + Potential for reduced pressure on housing due to Woodside selling/ releasing its existing housing stock
- + Reduced dependence on Woodside and other industry players
- Regional population decline and subsequent reduction to capacity of local infrastructure/services affecting accessibility for other users
- Reduced social investment funding channelled to community organisations causing reduction in capacity and resources to sustain operations/activities



LIVELIHOODS

- + Increased opportunities for diversification of the local and regional economy / growth of new industries
- + Potential for regional business opportunities
- + Potential for increased land availability for development
- Decline to regional economic activity causing regional economic downturn
- Loss of direct and indirect employment and contracting opportunities affecting individual/household economic capital and local economic downturn



CULTURE

- + Potential for reclamation of culturally important sites and opportunities associated with appropriate cultural remediation
- + Reduced impacts on culturally significant sites (i.e. petroglyphs)



HEALTH AND WELLBEING

- + Reduced health and wellbeing impacts of FIFO rosters on workforce



ENVIRONMENT

- + Decrease in pollution/ emissions from operations
- + Reclamation of natural environment via rehabilitation



POLITICAL SYSTEMS

- Socio-economic and cultural impacts of closure may be exacerbated by ineffective communication and engagement with community stakeholders and lead to a perceived lack of community participation in project planning and decision making



A number of management strategies (mitigation and enhancement strategies) are proposed to address, manage and / or enhance the social impacts and opportunities identified in the above graphics. These strategies have been developed through a review of Woodside's and its contractor's existing and proposed management plans and stakeholder identified strategies (as identified throughout the SIA engagement program; relevant projects and studies relevant to social impact management; and Umwelt's social team experience across other projects).

Recommendations are proposed to address the most significant of the social impacts and opportunities identified with key focus areas for Woodside moving forward including:



Stakeholder engagement



Social investment



Local participation
[employment and procurement]



Housing and accommodation.

The social impact management plan (SIMP) provides further detail of the indicators that may be used to monitor improvements or deterioration in the degree of social impact relating to Woodside's activities associated with specific impact management strategies and actions.