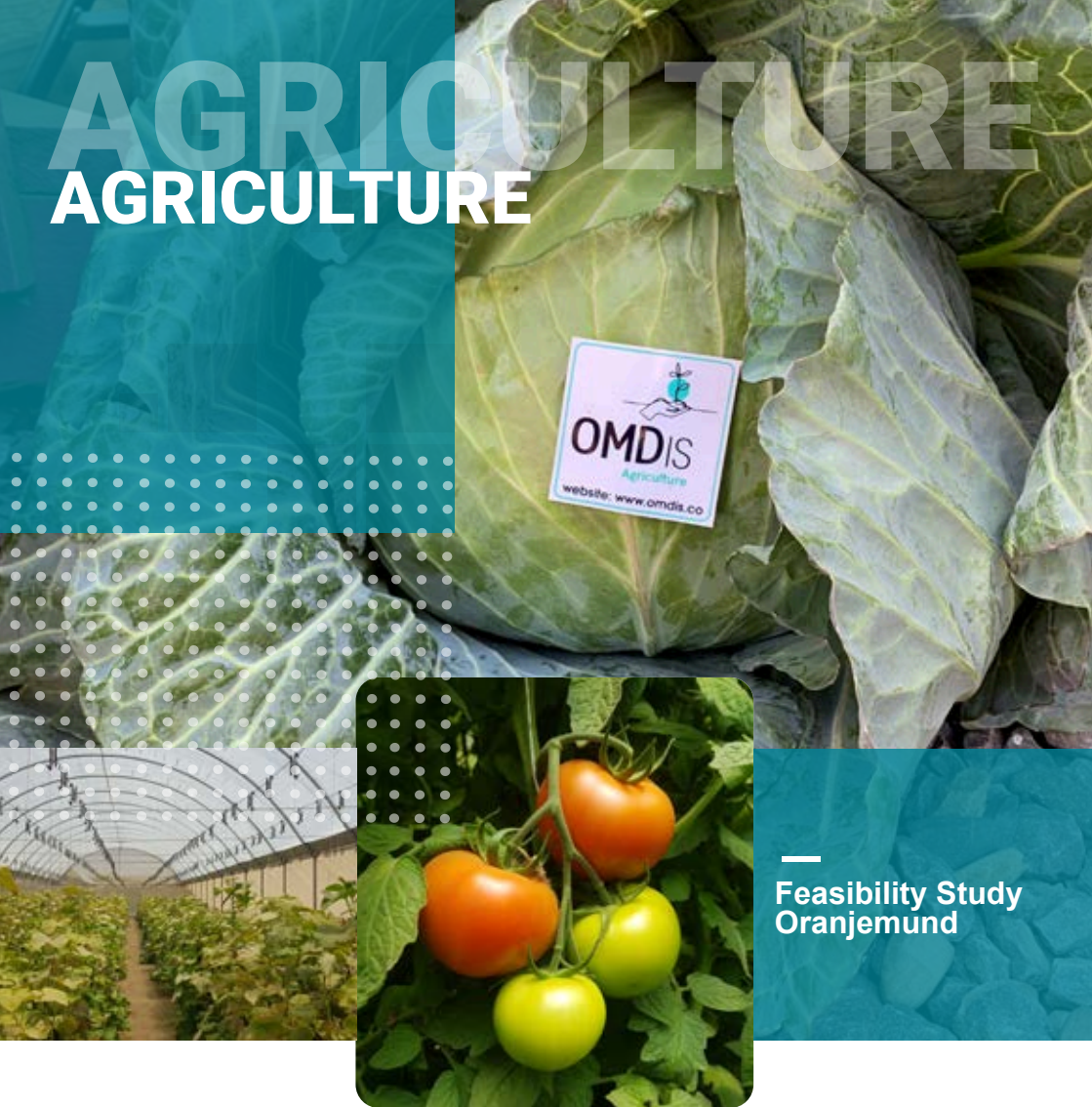


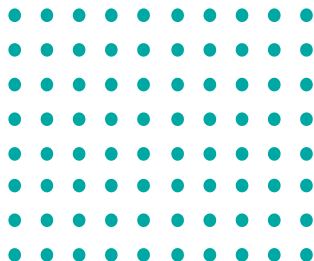
# AGRICULTURE

## AGRICULTURE



—  
Feasibility Study  
Oranjemund

OMDiS  
Building Futures





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# Introduction

Oranjemund is a diamond mining town situated in the //Kharas Region on the extreme southwest of Namibia and on the northern bank of the mouth of the Orange River.

The objectives of OMDIS Town Transform Agency are to:

- ☐ Support existing businesses to become more sustainable.
- ☐ Develop new SMEs and a culture of entrepreneurship.
- ☐ Create large new industry platforms that can support the economy alongside or instead of mining.

OMDIS identified projects that would enable a sustainable economic transformation, including Tourism, Healthcare, Agriculture, SME Development, Education, Renewable Energy and Property Development.

The Oranjemund Agriculture project will evaluate the viability of a **medium to large scale agriculture industry on approximately 500ha** of land along the lower Orange River that specifically supports the overarching town transformation journey with a specific focus on the **creation of sustainable jobs, SMEs, food security for Namibia** as well as the regional role for agriculture against the other planned economic drivers. This project determines the economic and technical feasibility of such an industry to a pre-feasibility level of detail.



# Project Phases

## — and activities

The methodology is based on our understanding to achieve the expected project outcome. To date phase 1 and phase 2 have been completed as well as a site visit. Phase 3 of the project is currently underway with a focus on identifying a list of viable crop options that can be investigated in more detail.



### Task 1

*Project initiation & desktop review*

### Task 2

*Contextualisation study*

### Task 3

*Agriculture & market study*

### Task 4

*Feasibility study*



# Agricultural

## Aspiration

What can the agricultural industry do for Oranjemund?

Must not change  
OMD lifestyle

Sustainable  
livelihoods by  
2042

Big role player  
in regional food  
security

Circular  
Agri

Maximise the  
whole supply  
chain.

Experience  
built-in

SME's  
Feeding in

Extensive Farming  
is an option

Skills development  
hub

There is an  
existing veg  
demand

Education

Decent scale

Maximise organic  
branding

Must leverage  
Agri-Tourism

Open-minded to NAM-  
Specific Community  
Farming - "CT Oranjezicht  
Farm Market"



# Risks

## to achieving success

During the project inception the following risks have been identified that have to be considered to ensure the success of this Agriculture project. Things that can derail the project:

- ☐ Access to land.
- ☐ Human wildlife conflict.
- ☐ Stakeholders not working together.
- ☐ Water abstraction licences Quantity – not enough Quality – salty.
- ☐ Non-viable agriculture proposals.
- ☐ Competing ideas of land use / visions some stakeholders pushing for community subsistence farming.





# Identifying

possible synergies and stakeholders

## Oranjemund Stakeholders

- ☐ Trans Boundary Stakeholders
- ☐ ORASECOM (*Orange-Senqu River Commission*)
- ☐ OMD 2030
- ☐ Oranjemund Community
- ☐ NAMDEB Employees & Contractors
- ☐ Oranjemund SMEs
- ☐ Competing ideas of land use / visions some stakeholders pushing for community subsistence farming.

## Government Stakeholders

- ☐ Oranjemund Town Council (*critical*)
- ☐ Oranjemund Constituency Office (*subsistence farming*)
- ☐ Kharas Regional Council
- ☐ Governor's Office – Keetmanshoop
- ☐ MEFT – *Ministry of Environment, Forestry and Tourism*
- ☐ MME – Ministry of Mines & Energy
- ☐ NCCI – Chamber of Commerce (*Oranjemund*)
- ☐ Ministry of Agriculture, Water & Land Reform
- ☐ Ministry of Fisheries & Marine resources
- ☐ Ministry of Urban & Rural Development



# Feasibility Matrix

Work in Progress

	Climate & Environmental Resilience	Technical Viability & Complexity	Funding / Affordability	Scalability
<b>Vegetables</b>	Suitable for the regions climate.		Netting will be required with associated establishment cost impact.	Processing potential
<b>Raisins</b>	Highly suitable for the regions climate		Netting of orchards might be required with associated establishment cost impact.	
<b>Olives</b>	Highly suitable for the regions climate	Relatively low water requirement.		Processing options - bottled olives and olive oil.
<b>Pomegranates</b>	Suitable for the regions climate.		Netting will be required with associated establishment cost impact.	Processing options - (high value juices.
<b>Figs</b>	Suitable for the regions climate.	Relatively low water requirement.	Netting will be required with associated establishment cost impact.	Processing options - (dried/ canned/jam).
<b>Prickly pears</b>	Suitable for the regions climate.	Relatively low water requirement.		Processing options - (canned/ jam).
<b>Blueberries</b>	Possibly suitable for the regions climate suitable for the regions climate.	Hi-tech inputs required	Netting of (and possible climate control) orchards will be required with associated establishment cost impact	Processing options





A feasibility matrix was developed to assess different crop options in order to identify the most viable crop options. These crops we assessed based on Oranjemund transformation objectives.

Commercially viable (cost - competitive)	Socially & Economically equitable (the town)	Integration opportunities (Links to the region and the wider area)	Legal & Contractual viability	Overall Assessment
Local export market potential	High employment potential.			Viable Option
Global export market potential	High employment potential.			Viable Option
	Moderate employment potential.			Viable Option
Regional export market potential.	High employment potential.			Viable Option
	Moderate employment potential. Regional export market potential.			Viable Option
Regional export market potential.	Relatively low employment potential			Viable Option
Regional and Global export market potential.	High employment potential.	Due to recent exponential expansion of RSA industry the markets may become under pressure.	Bi-lateral export protocols with importing countries required.	Viable Option

# Feasibility Matrix

Work in Progress



	Climate & Environmental Resilience	Technical Viability & Complexity	Funding / Affordability	Scalability
Table grapes	Highly suitable for the regions climate		Netting of orchards might be required with associated establishment cost impact.	
Almonds	Moderately suitable for the regions climate.	Relatively low water requirement.		Processing options
Almonds	Moderately suitable for the regions climate.	Relatively low water requirement.		Processing options
Citrus	Highly suitable for the regions climate		Netting of orchards might be required with associated establishment cost impact.	
Grain crops	The hot, dry, and windy climate of the area is not suitable for dryland production	Irrigated production will not be financially competitive with (dry land) production in the more temperate regions of Namibia.		
Stone and Pome fruit	The area has insufficient cold units to induce the required winter dormancy			
Pecan Nuts		The deep and extensive rooting system of Pecan requires soil with a higher water holding capacity and grows best in areas with a relatively high natural water table		



Commercially viable ( <i>cost - competitive</i> )	Socially & Economically equitable ( <i>the town</i> )	Integration opportunities ( <i>Links to the region and the wider area</i> )	Legal & Contractual viability	Overall Assessment
Other southern hemisphere countries have become competitive in the early export market window.	High employment potential.			Viable Option
Regional export market potential.	Relatively low employment potential			Viable Option
Regional export market potential.	Relatively low employment potential			Viable Option
Other southern hemisphere countries have become competitive in the early export market window.	High employment potential.		Legal structures not in place to export Citrus from Namibia	Viable Option
Irrigated production will not be financially competitive				Exclude Option
				Exclude Option
				Exclude Option



	Climate & Environmental Resilience	Technical Viability & Complexity	Funding / Affordability	Scalability
Subtropical crops (banana, mango, macadamia)	The hot, dry, and windy climate of the area and the low waterholding-capacity of the soils is not suitable for competitive subtropical fruit production			

## Next Steps

May 2022

The next phase of the project will be aimed at conducting a detailed feasibility analysis on the identified viable crop options.

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Furthermore the feasibility study will not only consider the technical viability and affordability but will investigate which options will have the biggest impact on unlocking socio-economic development and opportunities for the town of Oranjemund. Furthermore the scalability of the options will also be assessed to ensure that the recommended ideal options will be able to grow into large scale commercial farming.

The deliverable shall be packaged (as far as possible) to position the preferred options so that they appeal to potential funders towards implementation





Commercially viable (cost - competitive)	Socially & Economically equitable (the town)	Integration opportunities (Links to the region and the wider area)	Legal & Contractual viability	Overall Assessment
				Exclude Option

# Contacts

Tony Bessinger

General Manager

tony.bessinger@omdis.co

081 122 9461

Aunie Gideon

Business Development Manager

aunie@omdis.co

081 127 1988

Ronel van der Merwe

Sustainability Manager

ronel@omdis.co

081 317 8349





[illegible]



+264 63 234344

info@omdis.co

www.omdis.co

19-7th Street, Oranjemund  
P.O. Box 903, Oranjemund  
Namibia