

?



drought





The future of Bourzakan Qashqai

Transition to sustainable medicinal plant
cultivation in Bourzakan region



Content

- Introduction
- Methods
- Results
- Discussion
- Conclusion
- Advice and recommendations

Background Information

- Qashqai settled down
- Early agricultural activities successful
- Recent activities challenged due to climate change



Project problem

Broad: Landscape degradation in the Fars province

Specific: Decline in agricultural performance by the Qashqai tribe due to constant droughts in the Bourzakan region

Aim

- Improve the livelihood
- Minimize environmental impact of the Qashqai people in Bourzakan by introducing **sustainable medicinal plant cultivation**



Main research question

What **agricultural** and **business** strategies are needed to create a local sustainable **medicinal plant** producing business, with the aim of both securing the **livelihoods** of the Qashqai and **protecting** the local natural **environment**?

Methods

Selection of medicinal plants

Selection of cultivation methods

Processing possibilities

Long-term business ideas



Selection of medicinal plants

Literature research and experts opinion:

- Environmental situation
- Selection criteria

Selection of medicinal plants

The plant should ...

- be present in the specific area;
- grow in the specific environmental conditions;
- be able to cope with climate change;
- be known by the Qashqai people of Bourzakan;
- have medicinal properties;
- have a demand on local and regional markets.

Selection of cultivation methods

Literature research and experts opinion:

- Landscape morphology
- Plant categorization
- Soil quality improvement
- Spatial planning

Processing possibilities and Business ideas

Literature research and field trip to an Iranian shop:

- Processing methods to create secondary products
- Feasibility for long-term business ideas

Results

Selection of medicinal plants

Selection of cultivation methods

Processing possibilities

Long-term business ideas



Selection of medicinal plants



Introduction

Methods

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Advice

Selection of medicinal plants



Qashqai tribe:

List including Persian
names and pictures
Familiarity

Shop-owner:

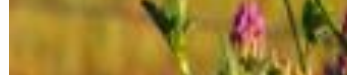
Products
Insights



Selection of medicinal plants

Final list:
19 medicinal plants

<i>Herbs</i>	<i>Shrubs</i>	<i>Trees</i>
<i>Crocus sativus</i>	<i>Alhagi maurorum</i>	<i>Amygdalus communis</i>
<i>Glycyrrhiza glabra</i>	<i>Myrtus communis</i>	<i>Ficus carica</i>
<i>Medicago sativa</i>	<i>Rhus Coriaria</i>	<i>Olea europaea</i>
<i>Melilotus officinalis</i>	<i>Vitex negundo</i>	<i>Punica granatum</i>
<i>Nigella sativa</i>	<i>Vitis vinifera</i>	
<i>Origanum vulgare</i>		
<i>Papaver rhoeas</i>		
<i>Peganum harmala</i>		
<i>Rumex acetosa</i>		
<i>Trigonella foenum gracum</i>		



Introduction

Methods

Discussion

Conclusion

Cultivation methods



Agroforestry



Manure application



Natural hedging



Compost



Herb cropping

Spatial planning

Cultivation areas northwest of Iran

Advice on placement of plants



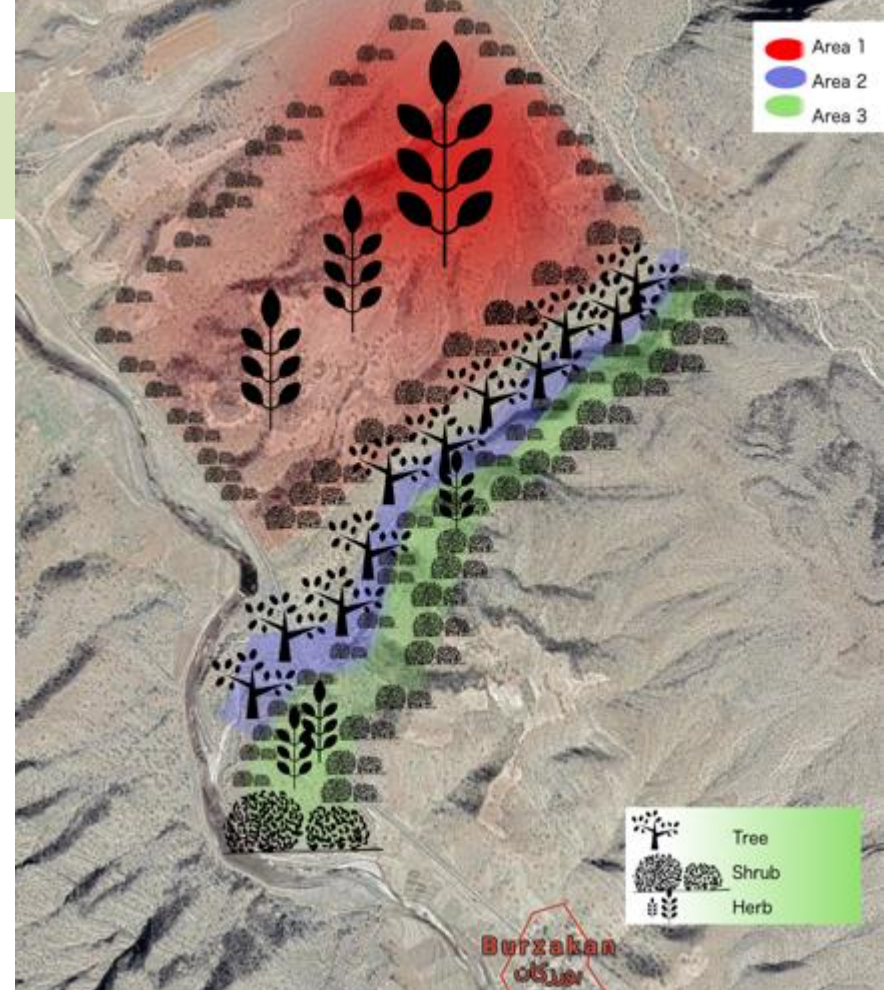
Agroforestry



Natural hedging



Herb cropping



Processing possibilities

5	Common myrtle, مورد (<i>Myrtus communis</i>)	Essential Oil Syrup Jam	Leaves, Flowers Fruit Fruit
6	Common poppy خشخاش زراعی (<i>Papaver rhoeas</i>)	Powder Oil	Seeds Seeds
11	Oregano, مرزنگوش (<i>Origanum vulgare</i>)	Essential Oil Tea Spice	Leaves Whole plant Leaves
12	Pomegranate, انار (<i>Punica granatum</i>)	Fresh and dried fruit Juice Jam Essential oil	Fruits Fruits Fruits Seeds, Bark

Long-term business ideas

- Dried Foods
- Tea
- Jam
- Essential oil
- Herbal water
- Honey

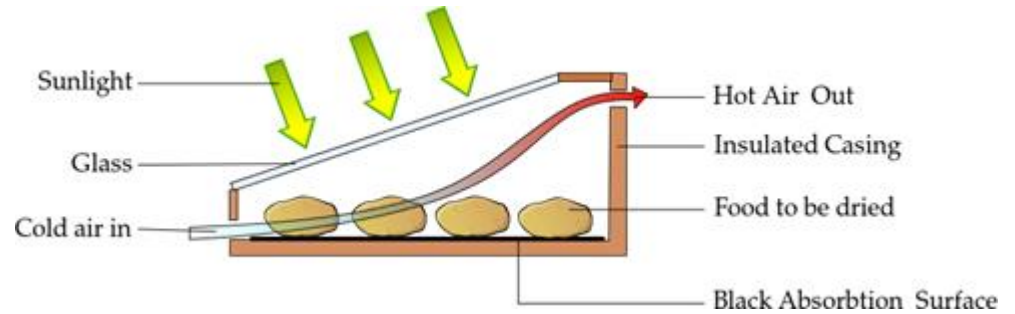
Long-term business ideas

Dried Foods

- Open sun drying
- Solar drying

Tea

Jam



Long-term business ideas

Dried Foods

- Open sun drying
- Solar drying

Tea

Jam



Long-term business ideas

Dried Foods

- Open sun drying
- Solar drying

Tea

Jam



Long-term business ideas

Essential oil

- Steam distillation
- Water distillation

Herbal water

Honey



Long-term business ideas

Essential oil

- Steam distillation
- Water distillation

Herbal water

Honey



Long-term business ideas

Essential oil

- Steam distillation
- Water distillation

Herbal water

Honey



Discussion

✓ Strengths

- Multi-disciplinary background
- Expert opinions
- Bottom-up approach



⊗ Limitations

- Scientific knowledge and measurements
- Local insights
- Time
- Distance

“Seems so close, yet so Fars, that’s why I ran.”

Conclusion

Our consultancy report suggests **multiple possibilities** regarding suitable **medicinal plants, cultivation methods** and **processing methods** to combine the ideals of NGO Simba and of the Qashqai people of Bourzakan for harmony and prosperity between nature and mankind.

Advice

1. Deepen scientific knowledge
2. Gain more local insights into the practical feasibility
3. We provide a **roadmap** showing necessary future steps

Roadmap

- Step 1:** Obtain information on the soil in the specific area.
- Step 2:** Choose medicinal plants for cultivation.
- Step 3:** Choose area for medicinal plant cultivation.
- Step 4:** Determine the spatial planning of the medicinal plant cultivation.
- Step 5:** Looking for subsidy and support from the government.
- Step 6:** Obtain the required resources for plant cultivation.
- Step 7:** Planting, further treatment and harvesting.
- Step 8:** Deepen knowledge of suitable processing methods.
- Step 9:** Sell the secondary products on local markets.
- Step 10:** Reflection.



Thank you for your attention

And best of luck, NGO Simba, and Bourzakan!



Drawings by Michel Hamakers. Insta: @michel_dessiner

Be kind!
with the questions,
please

