

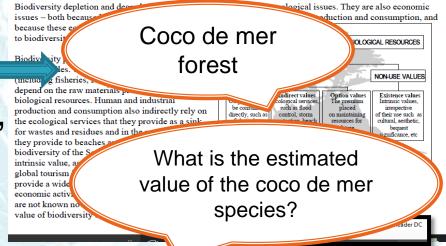
Coco de mer - the true value BSC environmental science thesis SIF Symposium Mariette Dine 14/05/2019

Introduction and Rationale

WHY CHOOSE THIS TOPIC

- Forests are an important socio-economic contributor, providing;
- Employment
- Genetic resources
- Ecosystem services (water shed management..e.t.c)
- Why the coco de mer species?
- Poaching and over exploitation

Biodiversity and economic activity in the Seychelles



USE VALUES: What can be consumed directly or directly?

NON-USE VALUES: What are the identified aesthetic values attached to it i.e.

- -> beauty
- -> part of our Sey ID





Aims of thesis

Aim → Valuation at a species level, and to assess if that value is reflected in the opinion of the Seychellois people.

Objectives

- I. Identify values and place a monetary value to it
- II. Estimate total economic value (TEV) of the species
- III. To estimate the cost of poaching

Hypothesis

- Seychellois are unaware of the various benefits gained from coco de mer except the direct finances from the fruit
- 2.Seychellois value coco de mer more for its' direct use than its' aesthetic value
- 3. Poaching has an impact on the market value of coco de mer



Data collection

Interviews

USE

VALUE

INDIRECT

USE

Market

analysis

Cost methods

Hedonic

pricina

Contingent valuation

VALUE

Survey

CONCEPTUAL

DUNTING

VALUATION

STOOLS

DIRECT

USE

Market

analysis

Cost

methods

Production

function

- Secondary data
- **Price observations**

Output value

OPTION

OR QUASI

OPTION

Replacement

cost method

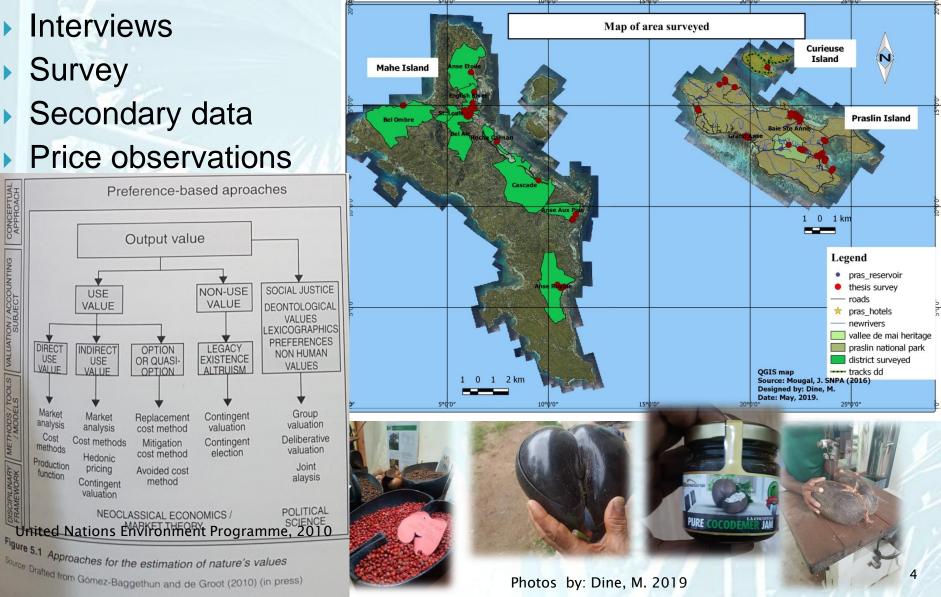
Mitigation

cost method

Avoided cost

method

Methodology





Data analysis

Primary data: Summarized all survey data

 Compiled all secondary data from different sources and made averages

Value \rightarrow 1 nut + hidden costs \rightarrow 6 nuts/tree

Non-use value= Bequest value + Existence value

Total economic value (TEV) = use value (UV) + non use value (NUV)



Yes

No

Not Sure

Rejected

Preliminary results

Rejected

Total surveyed

Respondents awareness of coco de mer products

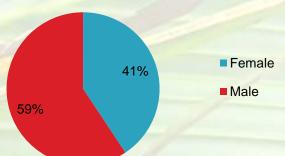
Rejected

Not Sure

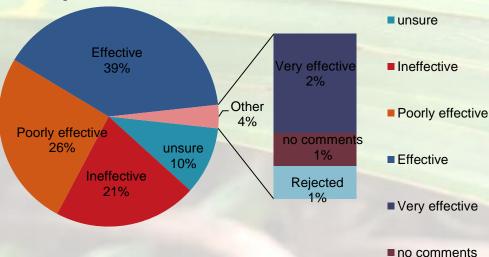
No

4%_

7%_



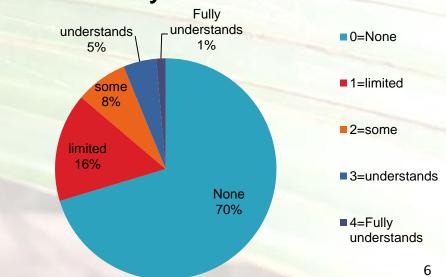
Respondents opinion on the effectiveness of the laws and policies on coco de mer

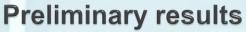


Respondents understanding of ecosystem services

Yes

88%

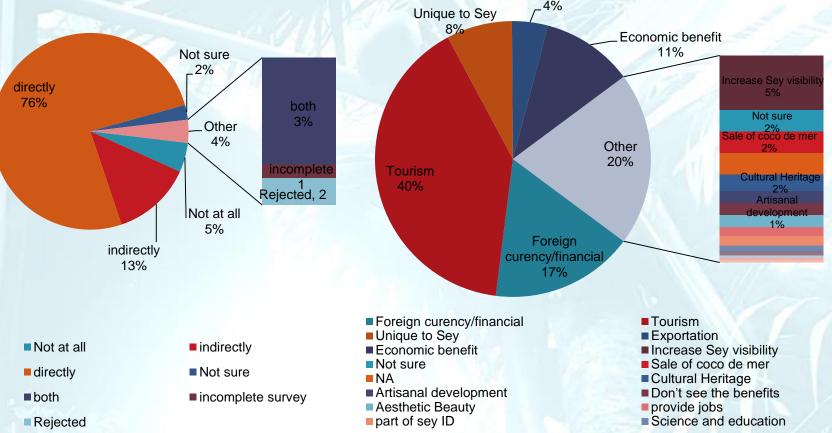




Identified benefits gained from the



Respondents opinion on how the species benefits the country Not sure





Which has more monetary value palm/nut

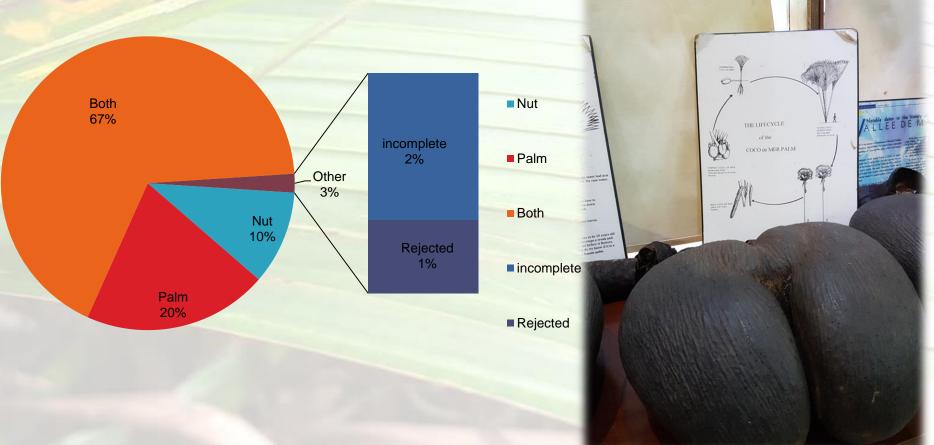
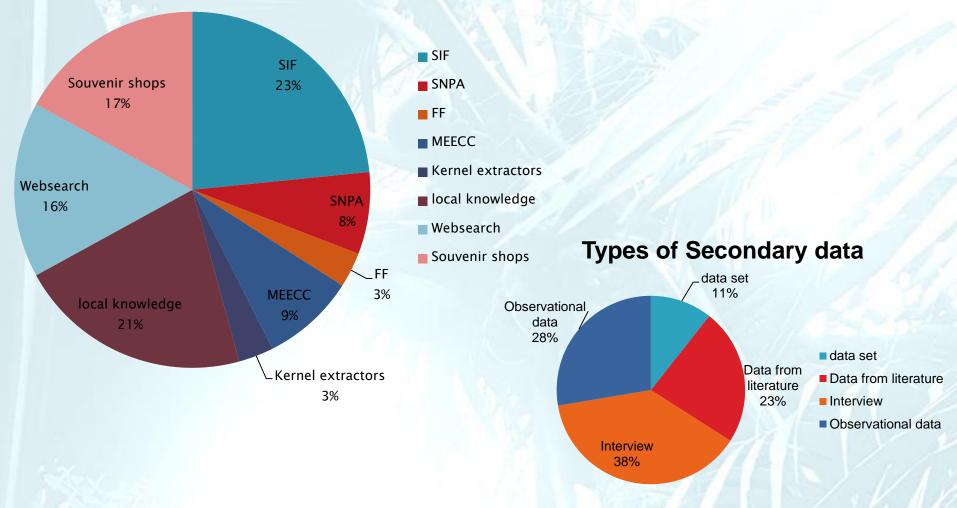


Photo by: Dine, M. 2019



Secondary data

Secondary data Sources





Estimated total economic value (TEV)?



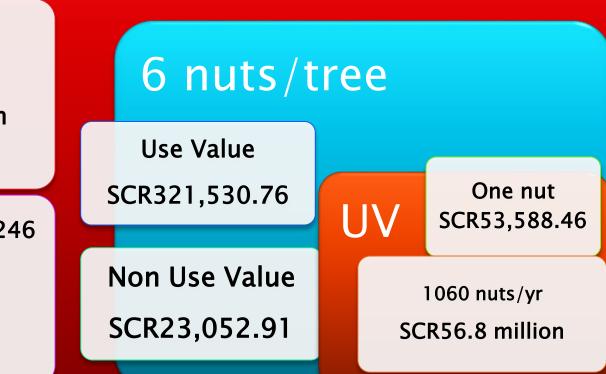


Estimated total economic value (TEV)?

Species->1060 nuts/yr+ NUV*6 yrs

Use Value SCR56.8 million

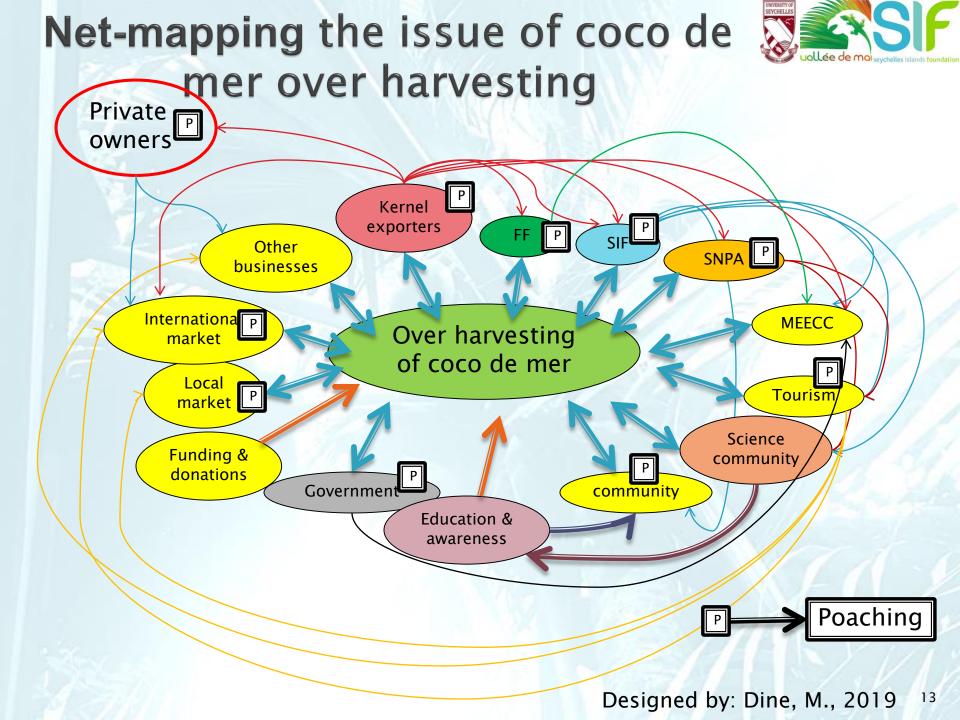
(Non Use Value *2246 trees)*6 SCR 51 million





Economic contribution of coco de mer







bv: Dine

conclusion

- Hypothesis
- 1. Seychellois are unaware of the various benefits gained from coco de

mer except the direct finances from the fruit . FALSE

- 2. Seychellois value coco de mer more for its' direct use than its' aesthetic value. FALSE
- 3. Poaching has an impact on the market value of the coco de mer (NEED MORE RESEARCH) Legal market

99% Legal market SCR31,515.41 (\$2313.92) Black market: SCR 190 (\$13.95) Calculations based on average prices





THANK YOU



