The climate emergency on Small Islands, July 5, 2023

A webinar hosted by the Water Adaptation Community, presented by IPDC, GCA, and Deltares



Coastal Protection in Sao Tomé & Principe Irene Seemann, Rebel



Project Location





Task & Team

Task:

Vulnerability Analysis, Feasibility Study and Preliminary ESIA Água Grande Coastal Protection project

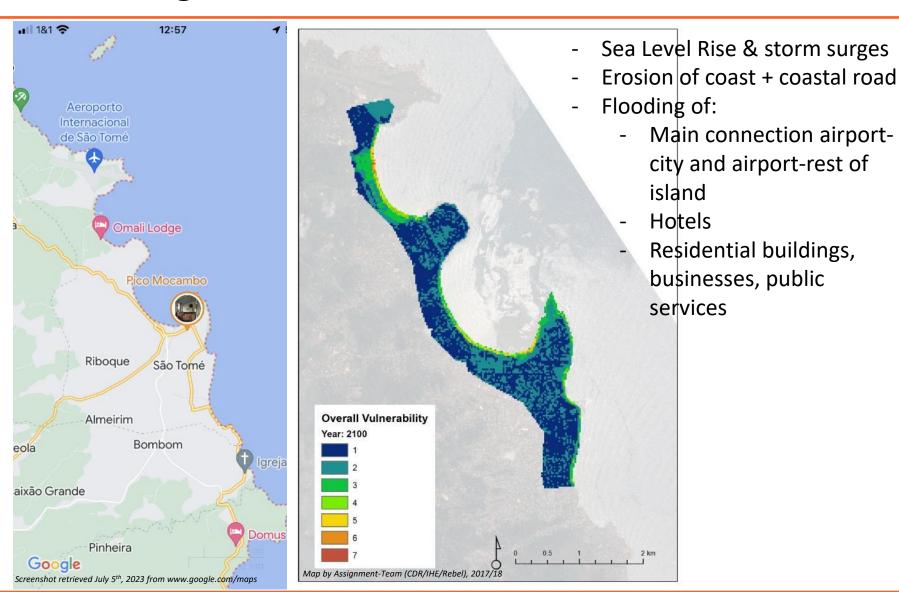








Challenges





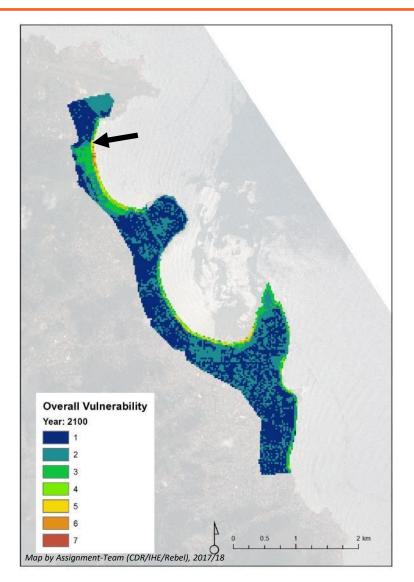




Photo by Assignment-Team (CDR/IHE/Rebel) 2018



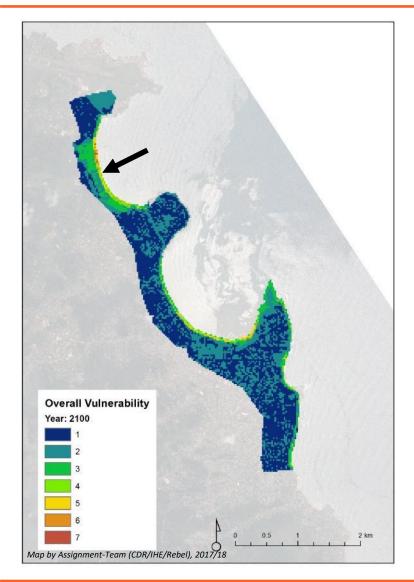




Photo by Assignment-Team (CDR/IHE/Rebel) 2018

11:00 AM



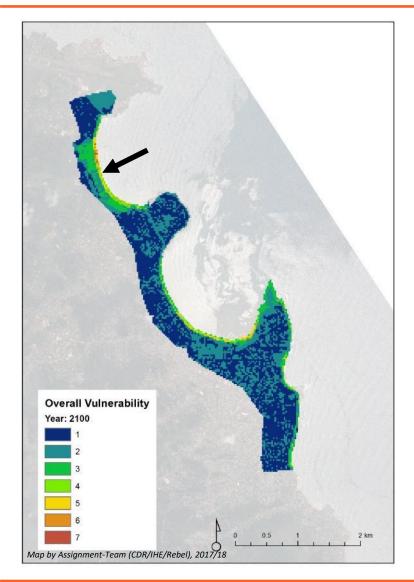




Photo by Assignment-Team (CDR/IHE/Rebel) 2018

03:00 PM



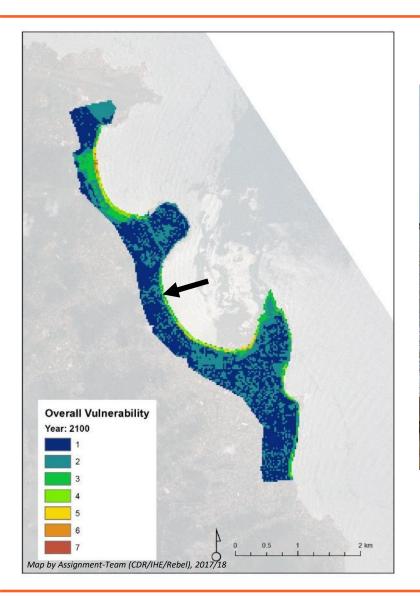




Photo by Assignment-Team (CDR/IHE/Rebel) 2018



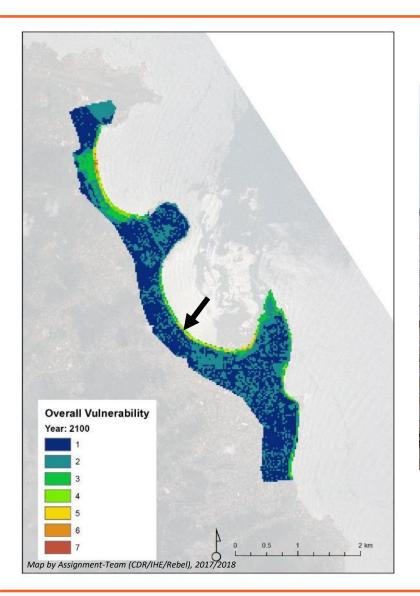




Photo by Assignment-Team (CDR/IHE/Rebel) 2018

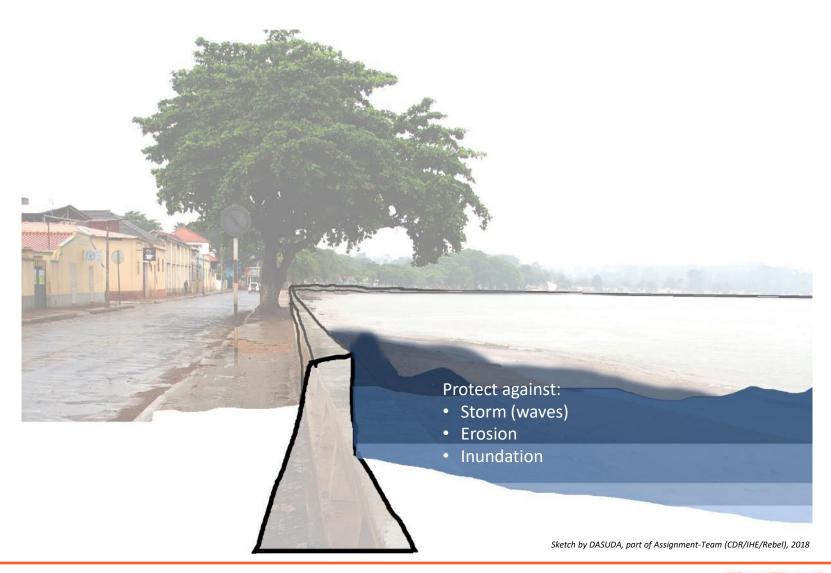


Coastal Protection measures assessed

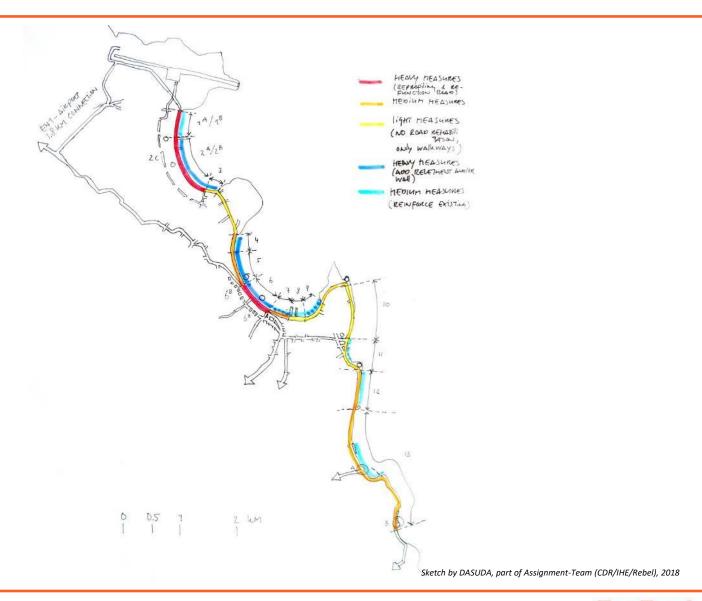
| | Panthufo | Ana Chaves | Lagartho |
|--------------------------|-------------------------|-------------------------|----------------------|
| Detached Breakwaters | (except "landing site") | | |
| Groynes with beach | | - (maybe small groynes) | |
| Beach Nourishment | | - / + (wall is needed) | -/+ (in combination) |
| Rock Revetment | + (parts) | (urban / existing wall) | ++ |
| Concrete steps | | | + |
| Gabions | | | + |
| Seawall | + (parts) | ++ (rehab) | - |
| Seawall / rock revetment | + option | - | + |



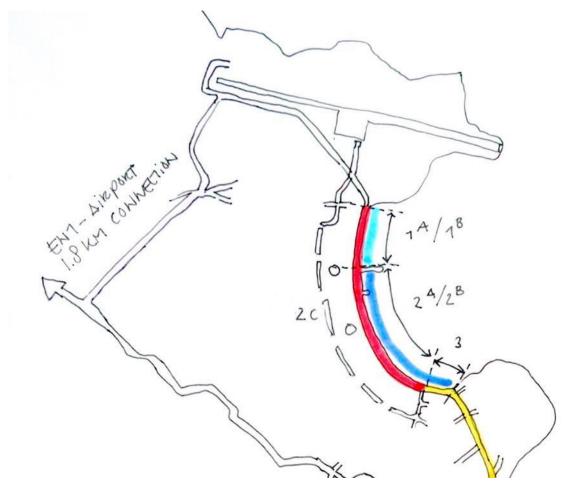
Coastal Protection measures proposed







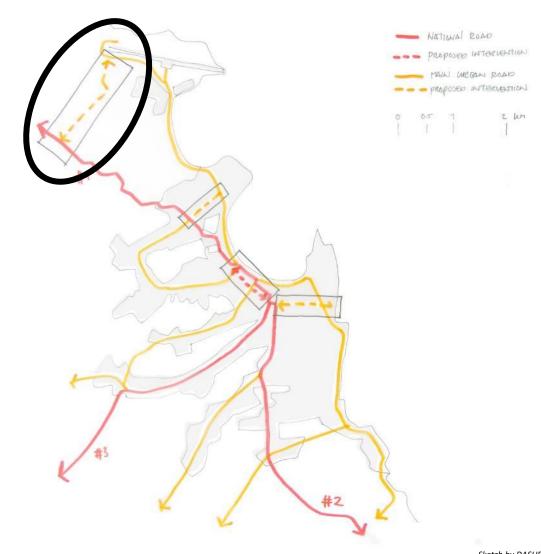




Lagarto Bay

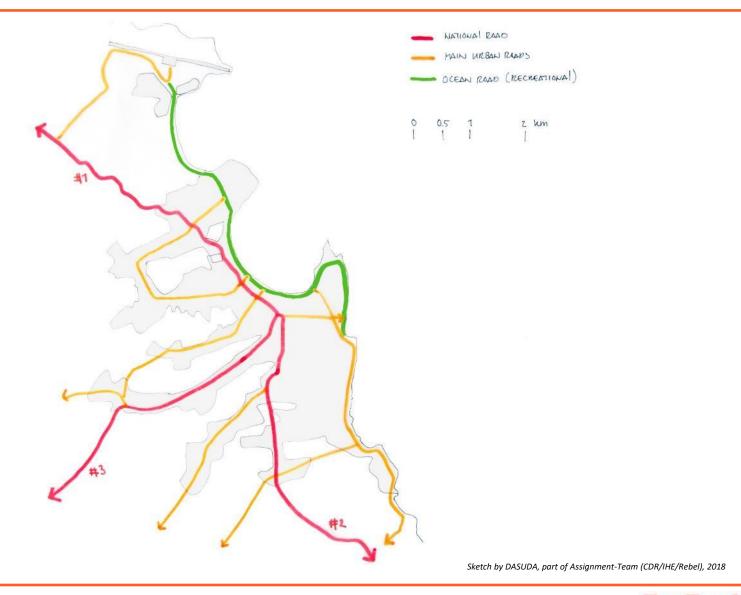
Sketch by DASUDA, part of Assignment-Team (CDR/IHE/Rebel), 2018



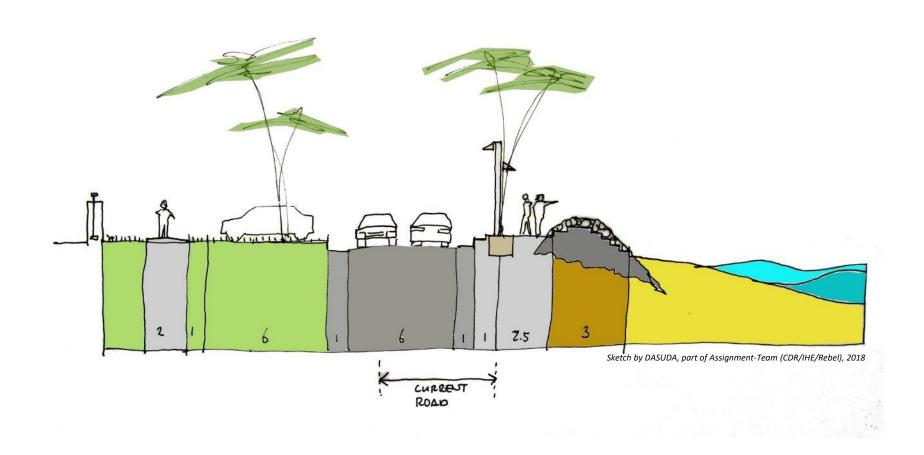


Sketch by DASUDA, part of Assignment-Team (CDR/IHE/Rebel), 2018

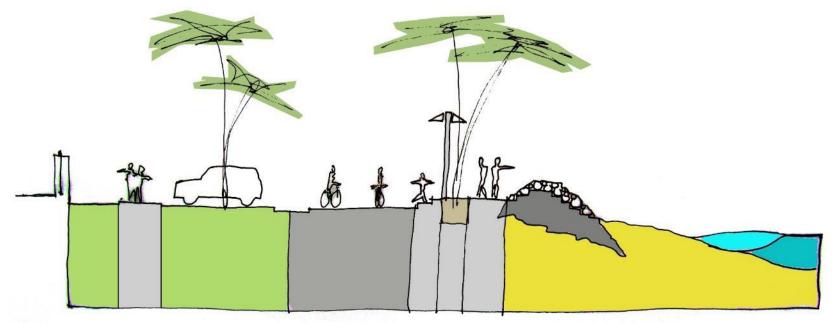












Sketch by DASUDA, part of Assignment-Team (CDR/IHE/Rebel), 2018





Photo by Assignment-Team (CDR/IHE/Rebel) 2018





Photo by Assignment-Team (CDR/IHE/Rebel) 2018



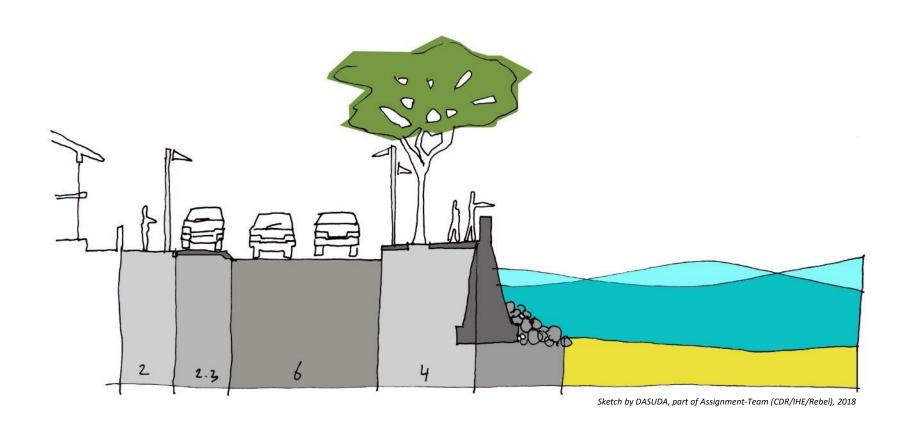












Photo by Assignment-Team (CDR/IHE/Rebel) 2018





Photo by Assignment-Team (CDR/IHE/Rebel) 2018





Photo by Assignment-Team (CDR/IHE/Rebel) 2018

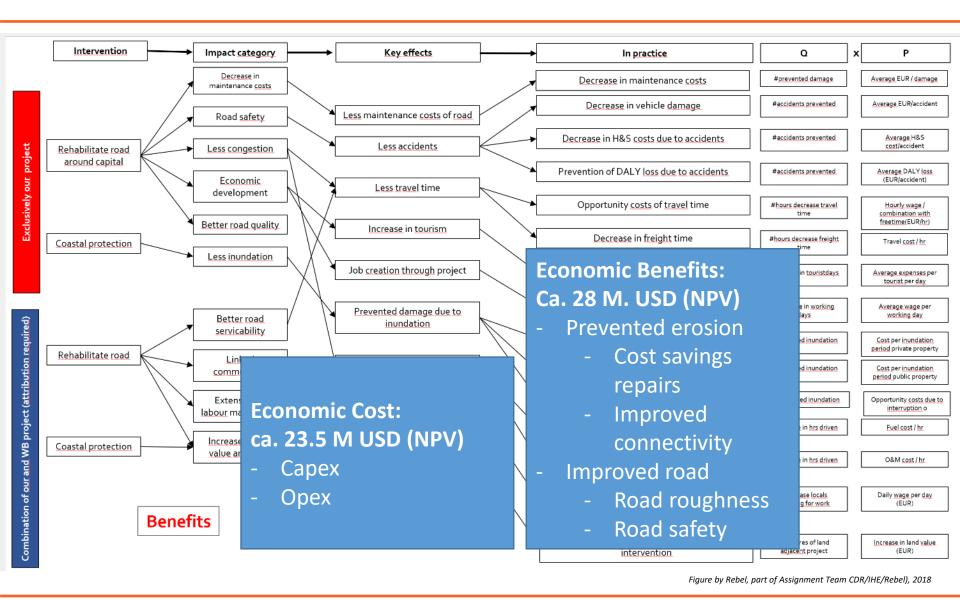




Sketch by DASUDA, part of Assignment-Team (CDR/IHE/Rebel), 2018



Costs and Benefits





Financial structure

- Combination with an ongoing World Bank project (rehabilitation of national road): 60 Million USD
- Non-revenue project
- Financing/ funding from three sources:
 - Dutch bilateral Grant
 - World Bank Grant
 - European Investment Bank Loan



Contact:

Irene Seemann

Rebel Deutschland GmbH, part of RebelGroup

+49 176 21 42 24 06

Irene.Seemann@RebelGroup.com

