

Mapeamento das áreas afetadas por inundação em Mimoso do Sul

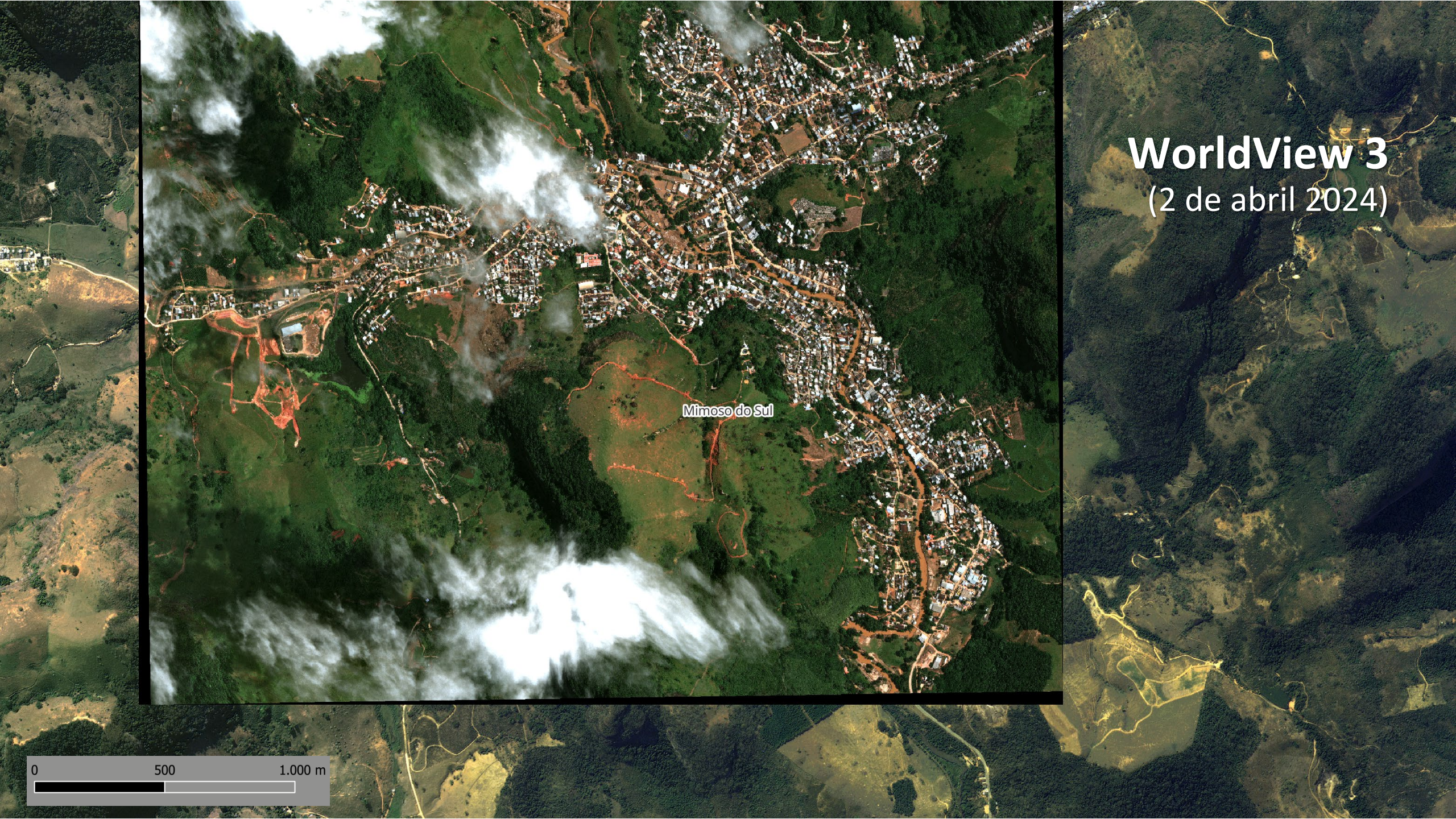
Metodologia aplicada

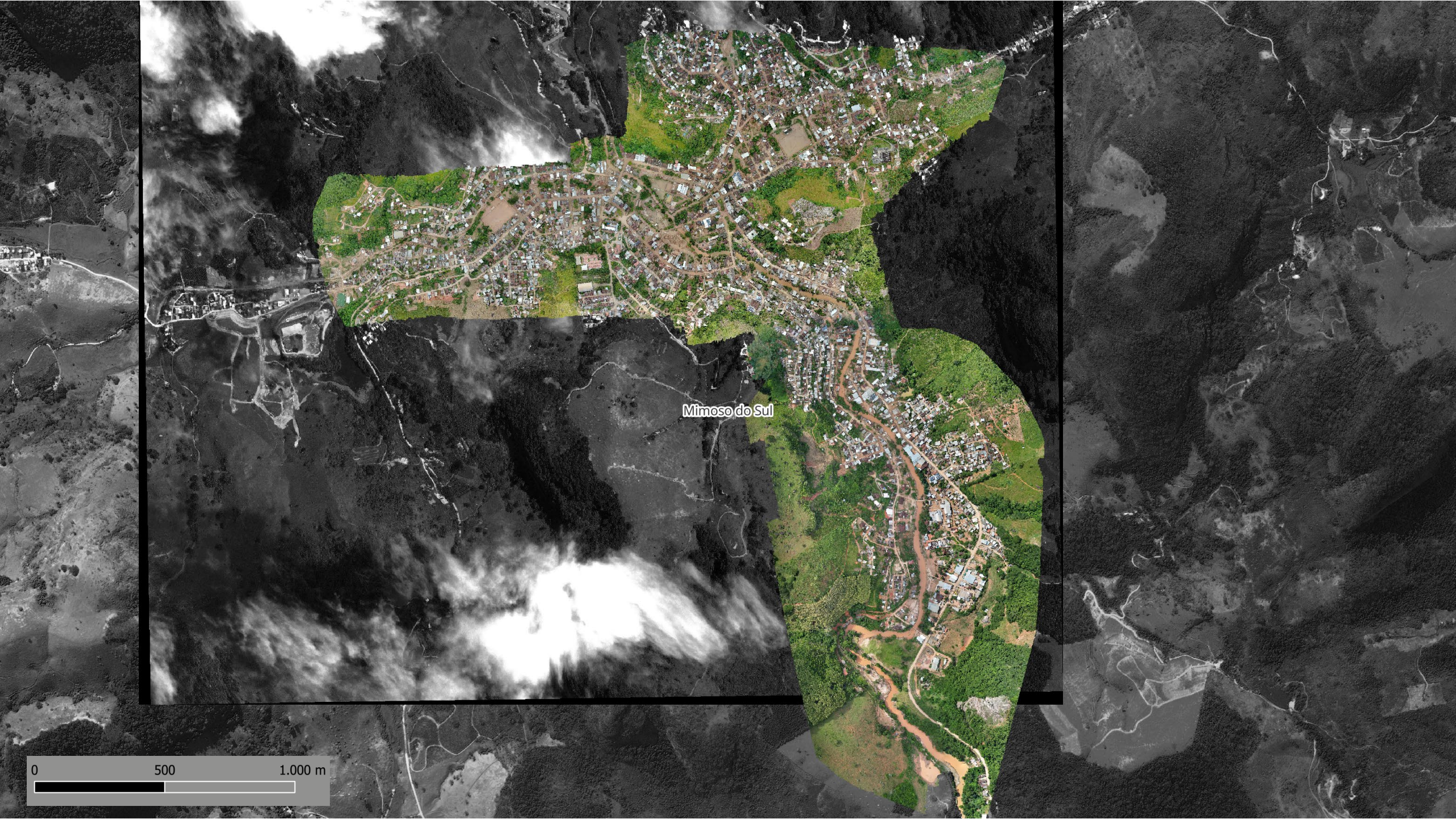
Instituto Jones dos Santos Neves

GOVERNO DO ESTADO DO ESPÍRITO SANTO

Secretaria de Economia e Planejamento

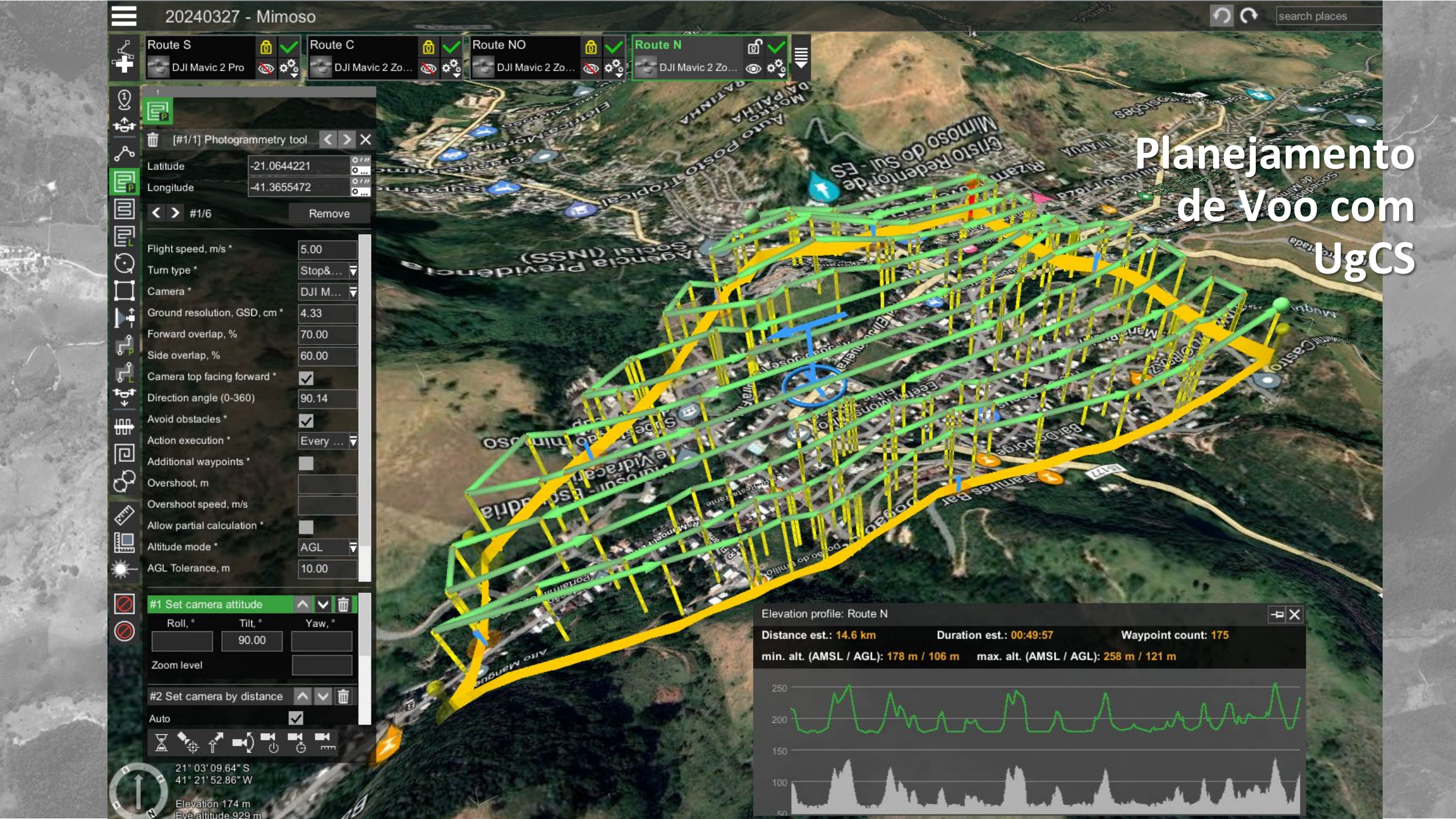

Kompsat 2020
Mimoso do Sul
0
500
1.000 m


Mimoso do Sul
WorldView 3
(2 de abril 2024)
0
500
1.000 m

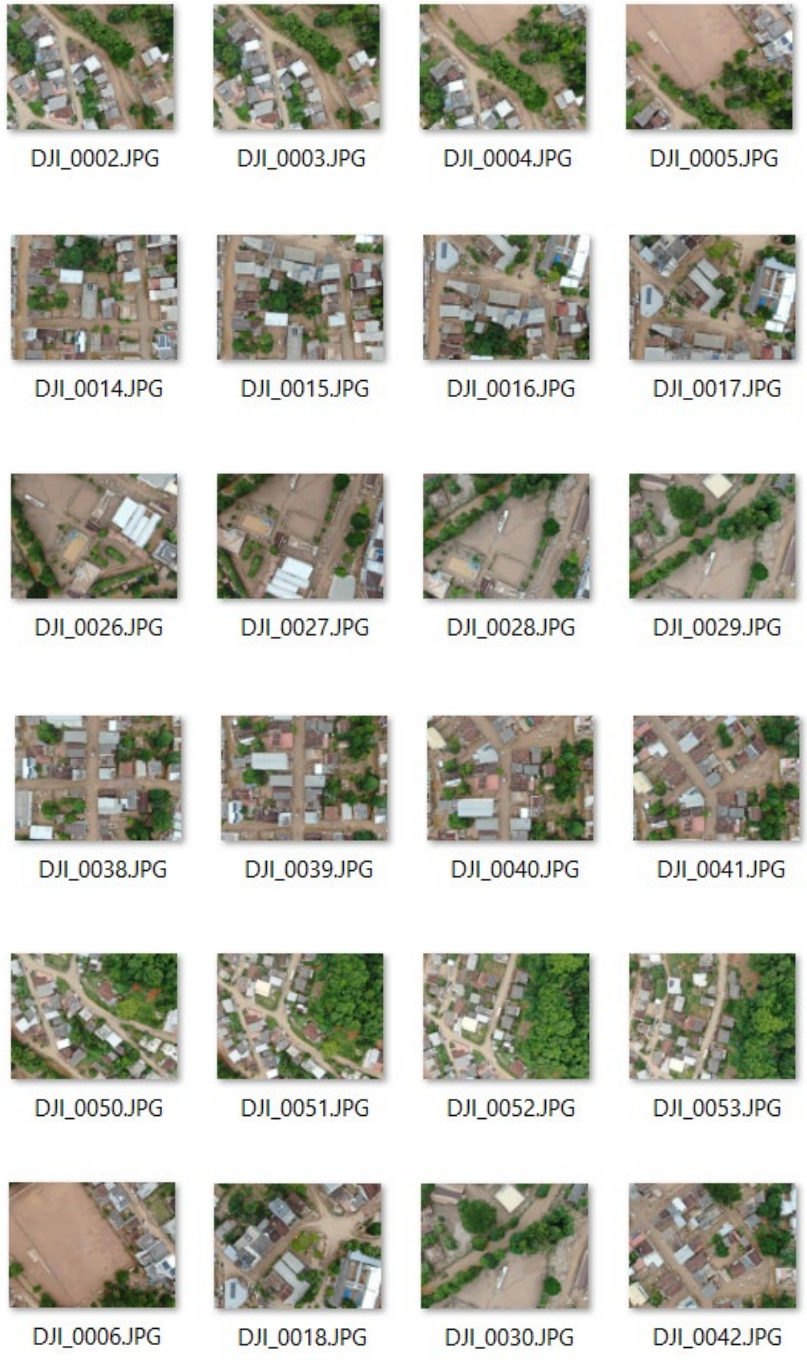

Mimoso do Sul
0
500
1.000 m

Planejamento de Voo com UgCS




20240327 - Mimoso
search places
Route S
DJI Mavic 2 Pro
Route C
DJI Mavic 2 Zo...
Route NO
DJI Mavic 2 Zo...
Route N
DJI Mavic 2 Zo...
[#1/1] Photogrammetry tool
Latitude -21.0644221
Longitude -41.3655472
#1/6
Remove
Flight speed, m/s * 5.00
Turn type * Stop&...
Camera * DJI M...
Ground resolution, GSD, cm * 4.33
Forward overlap, % 70.00
Side overlap, % 60.00
Camera top facing forward *
Direction angle (0-360) 90.14
Avoid obstacles *
Action execution * Every ...
Additional waypoints *
Overshoot, m
Overshoot speed, m/s
Allow partial calculation *
Altitude mode * AGL
AGL Tolerance, m 10.00
#1 Set camera attitude
Roll, ° Tilt, ° Yaw, °
90.00
Zoom level
#2 Set camera by distance
Auto
21° 03' 09.64" S
41° 21' 52.86" W
Elevation 174 m
Eye altitude 929 m
Elevation profile: Route N
Distance est.: 14.6 km
Duration est.: 00:49:57
Waypoint count: 175
min. alt. (AMSL / AGL): 178 m / 106 m
max. alt. (AMSL / AGL): 258 m / 121 m
250
200
150
100
Planejamento de Voo com UgCS

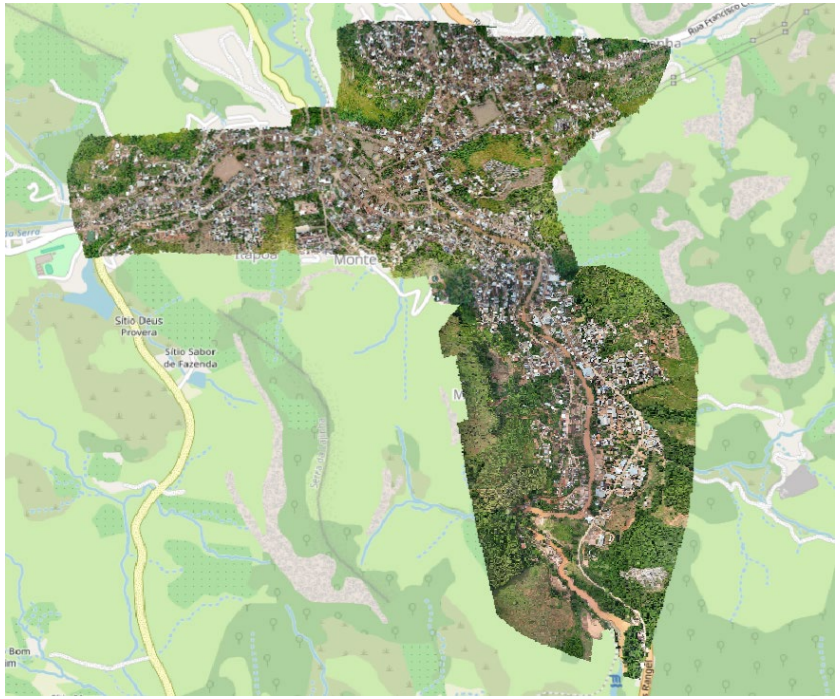






1200 imagens de alta resolução

4 horas de processamento – Workstation IJSN com 20 núcleos



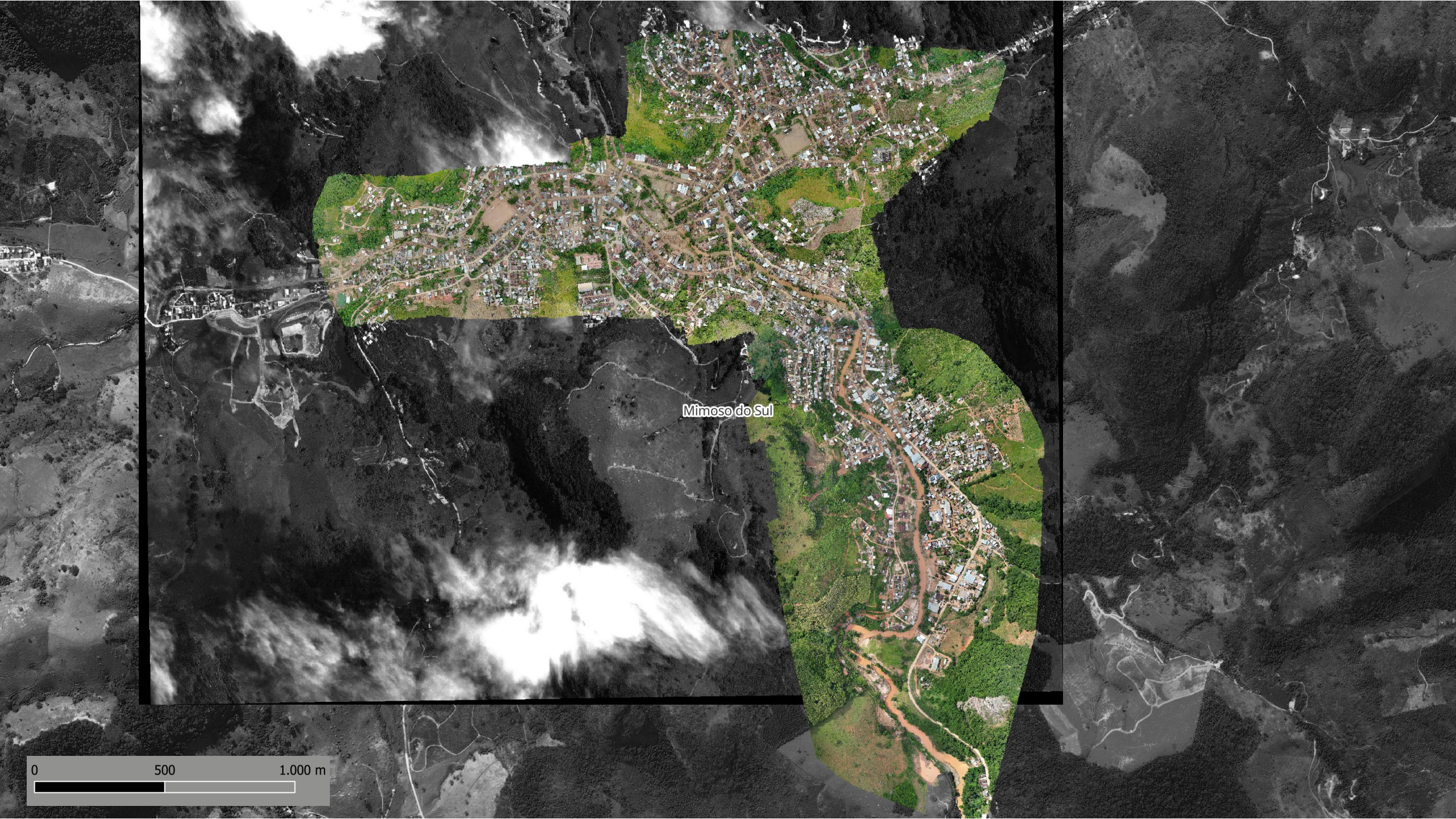


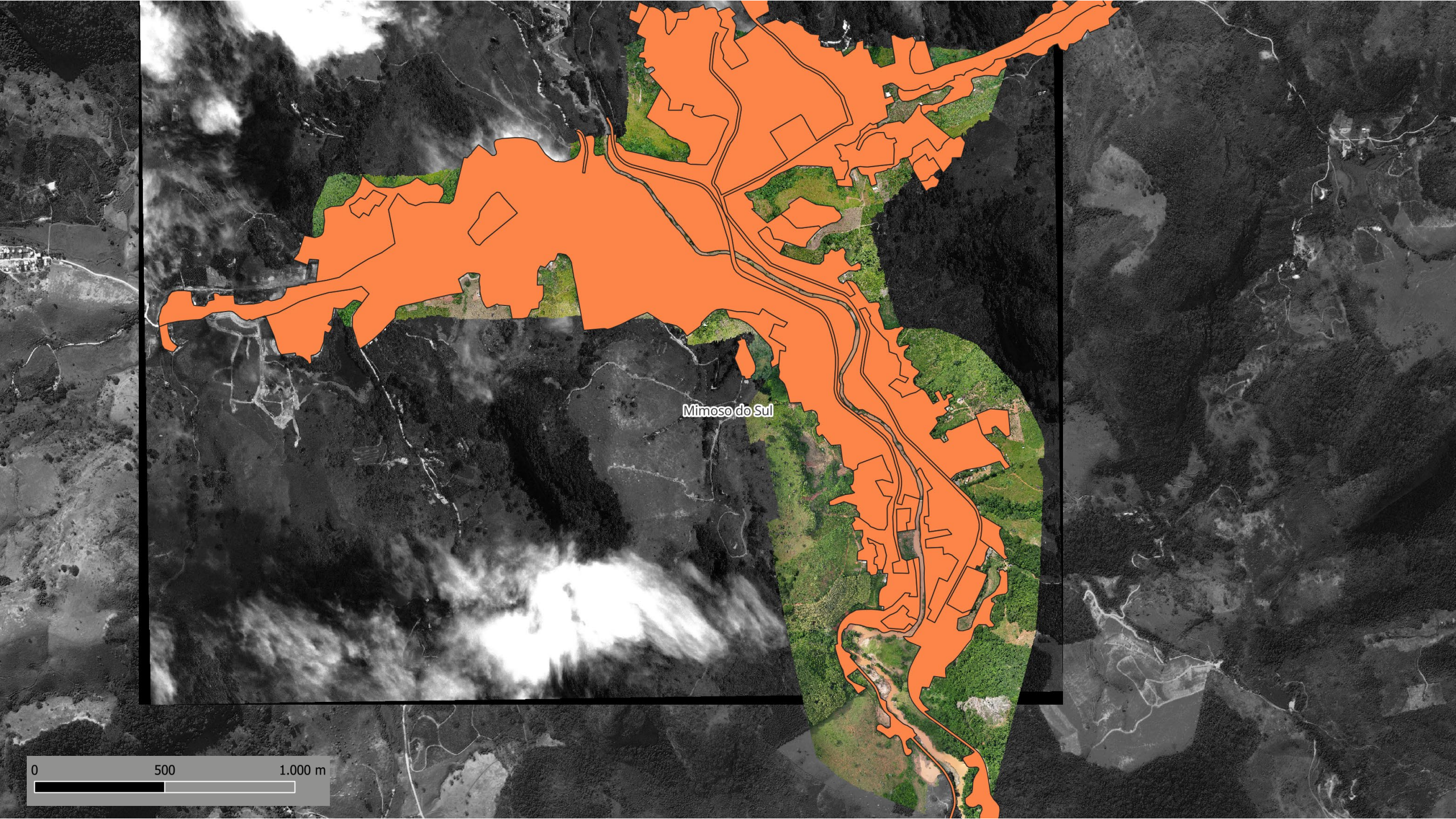
Avaliação de impacto

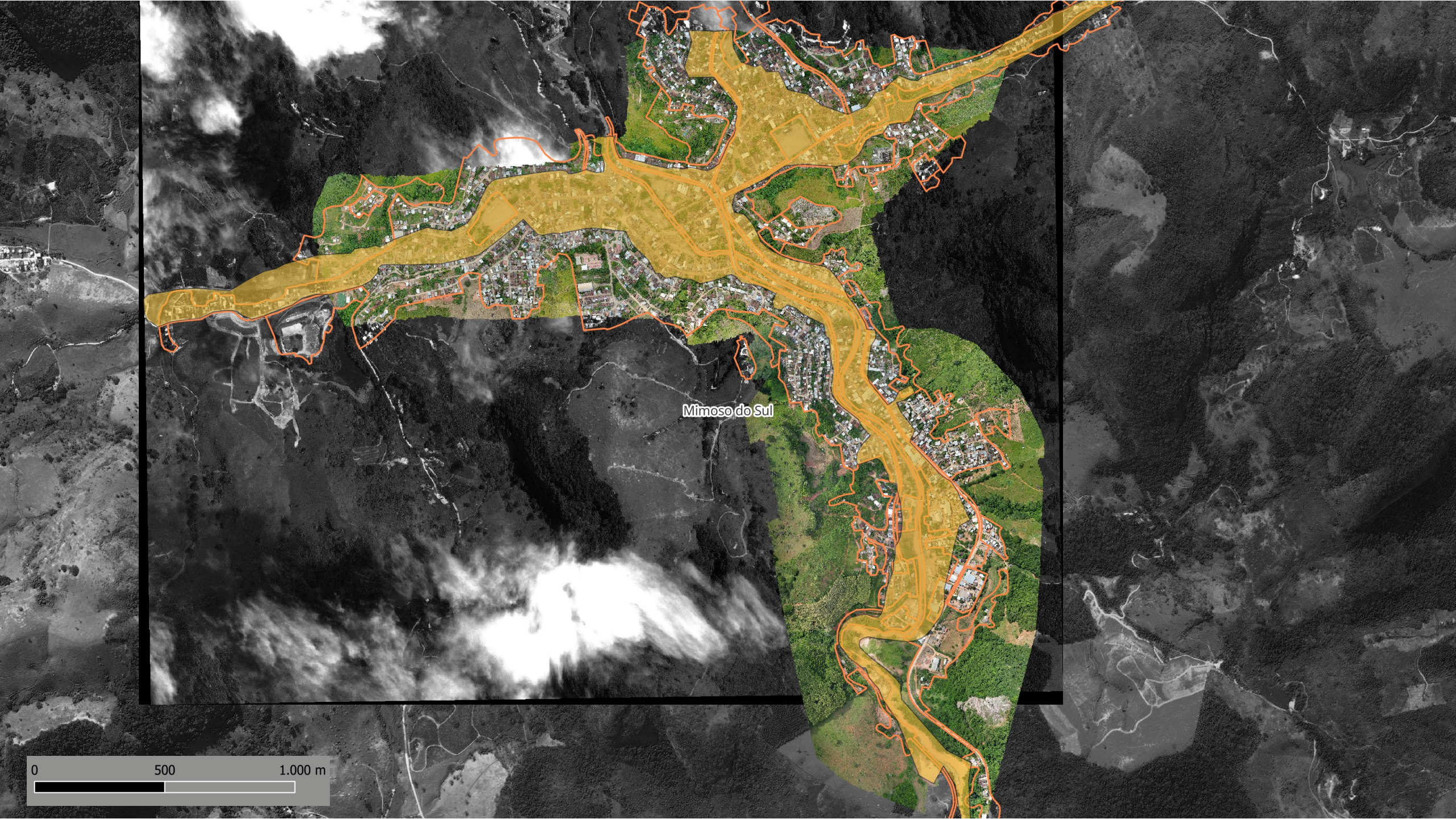
Ortofoto e Modelo 3D

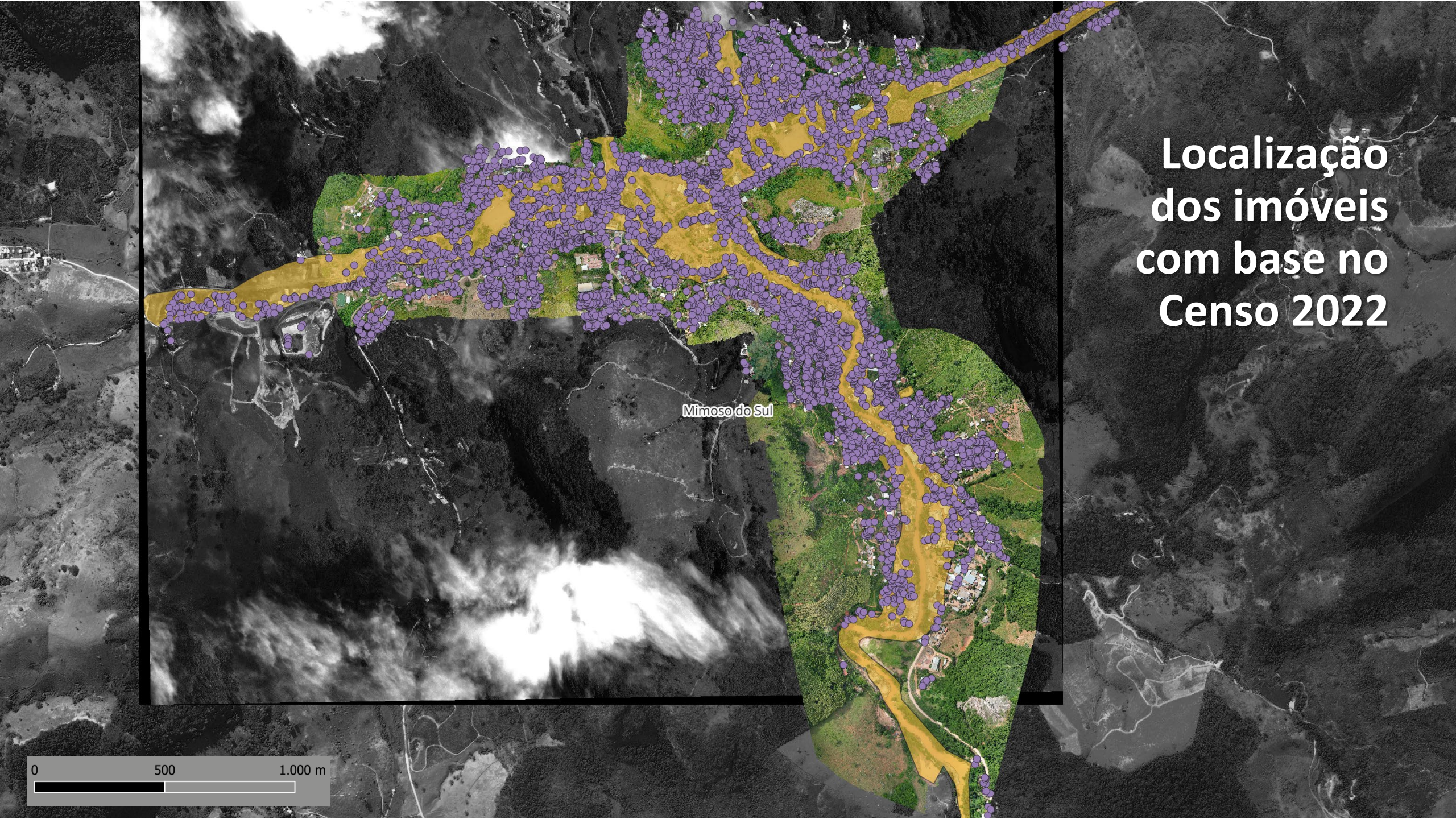




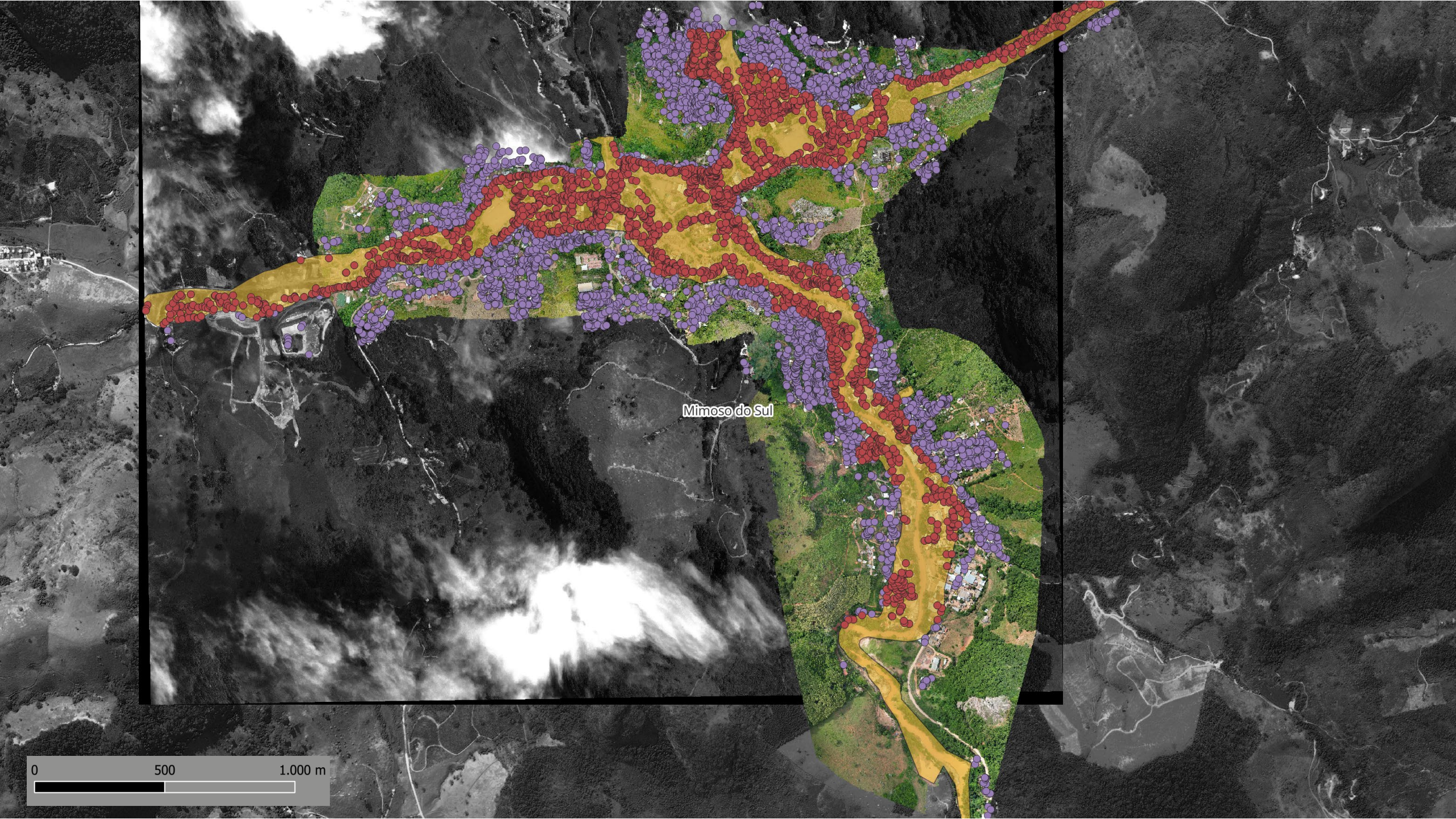

Mimoso do Sul
0
500
1.000 m

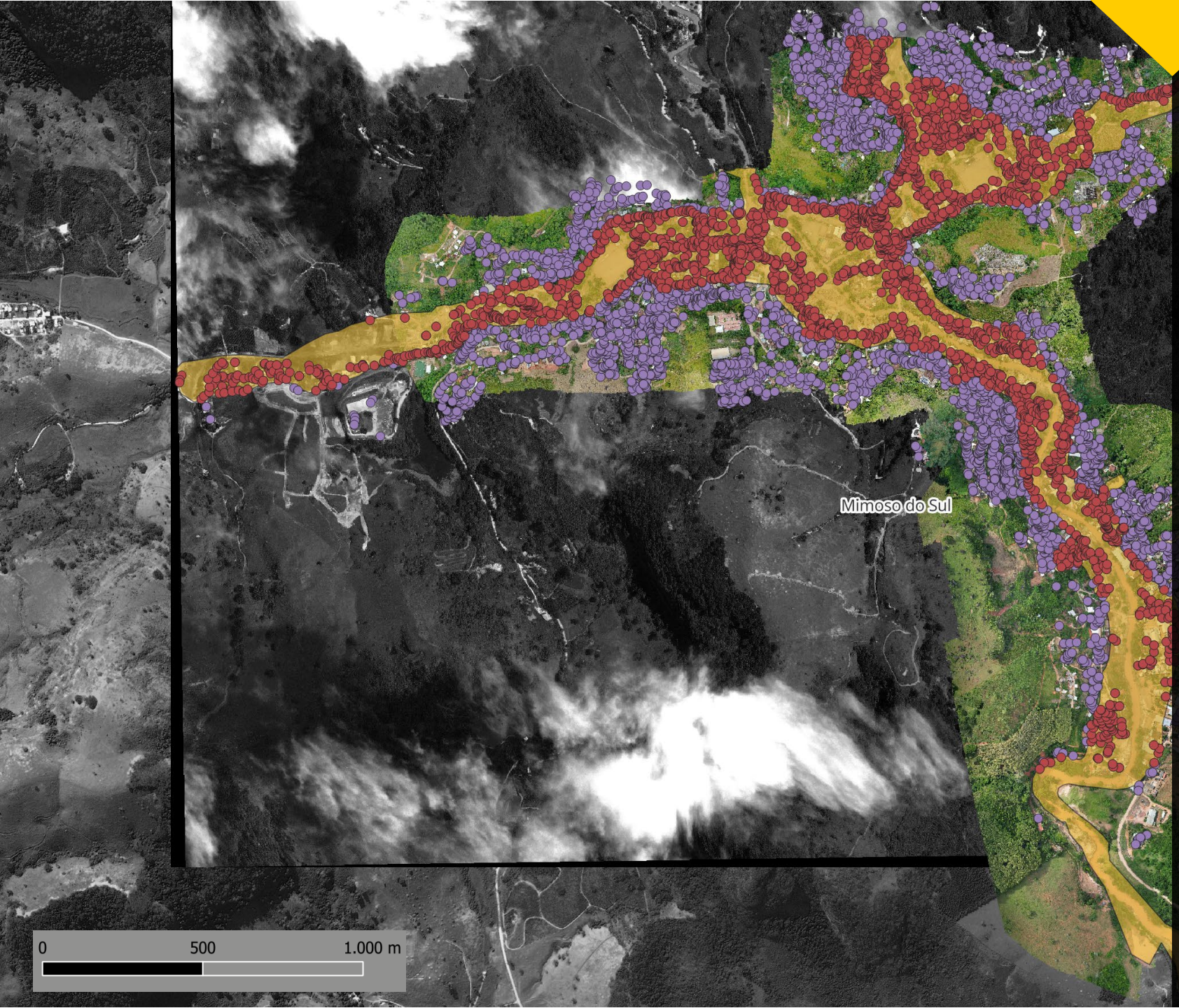

Mimoso do Sul
0
500
1.000 m


Mimoso do Sul
0
500
1.000 m



Localização dos imóveis com base no Censo 2022


Mimoso do Sul
0
500
1.000 m



3.989 (51%)
imóveis atingidos

2.996 casas

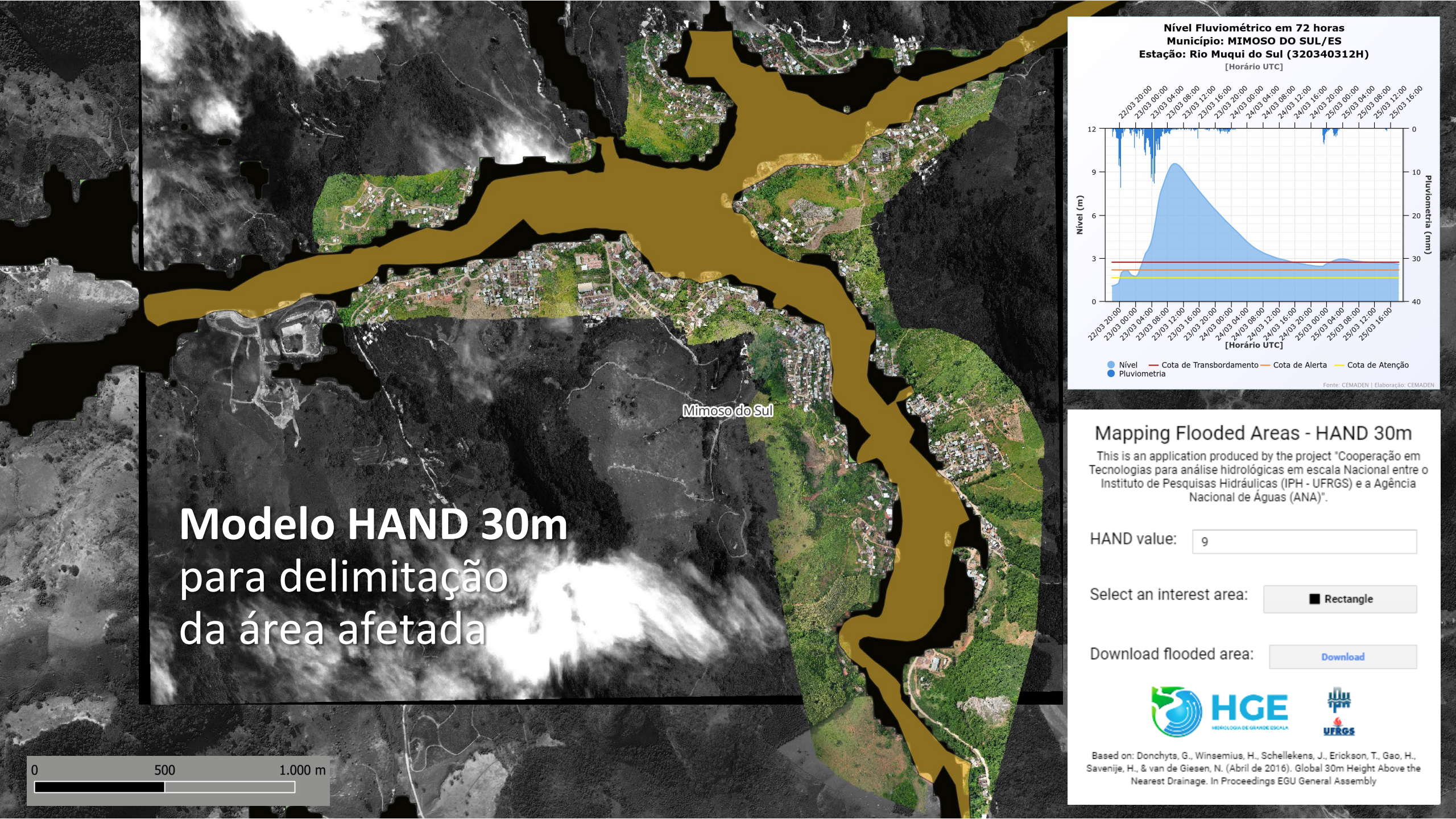
Dos 51% de imóveis atingidos, **75% eram residências.**

12 escolas (71%)

29 estab. saúde (73%)

806 comércios (73%)

29 igrejas (61%)



Modelo HAND 30m
para delimitação
da área afetada

Mapping Flooded Areas - HAND 30m

This is an application produced by the project "Cooperação em Tecnologias para análise hidrológicas em escala Nacional entre o Instituto de Pesquisas Hidráulicas (IPH - UFRGS) e a Agência Nacional de Águas (ANA)".

HAND value: 9

Select an interest area: Rectangle

Download flooded area: Download

HGE
HIDROLOGIA DE GRANDE ESCALA

IPH
UFRGS

Based on: Donchyts, G., Winsemius, H., Schellekens, J., Erickson, T., Gao, H., Savenije, H., & van de Giesen, N. (Abril de 2016). Global 30m Height Above the Nearest Drainage. In Proceedings EGU General Assembly


Conceiçao do Muqui
Santo Antônio do Muqui
Mimoso do Sul
Sao Pedro de Itabapoana
Ponte de Itabapoana
Dona América
Sao José das Torres
0
10
20 km


Ponte de Itabapoana
Ponte de Itabapoana
0
350
700 m

Ponte de Itabapoana

376 (91%)
imóveis atingidos

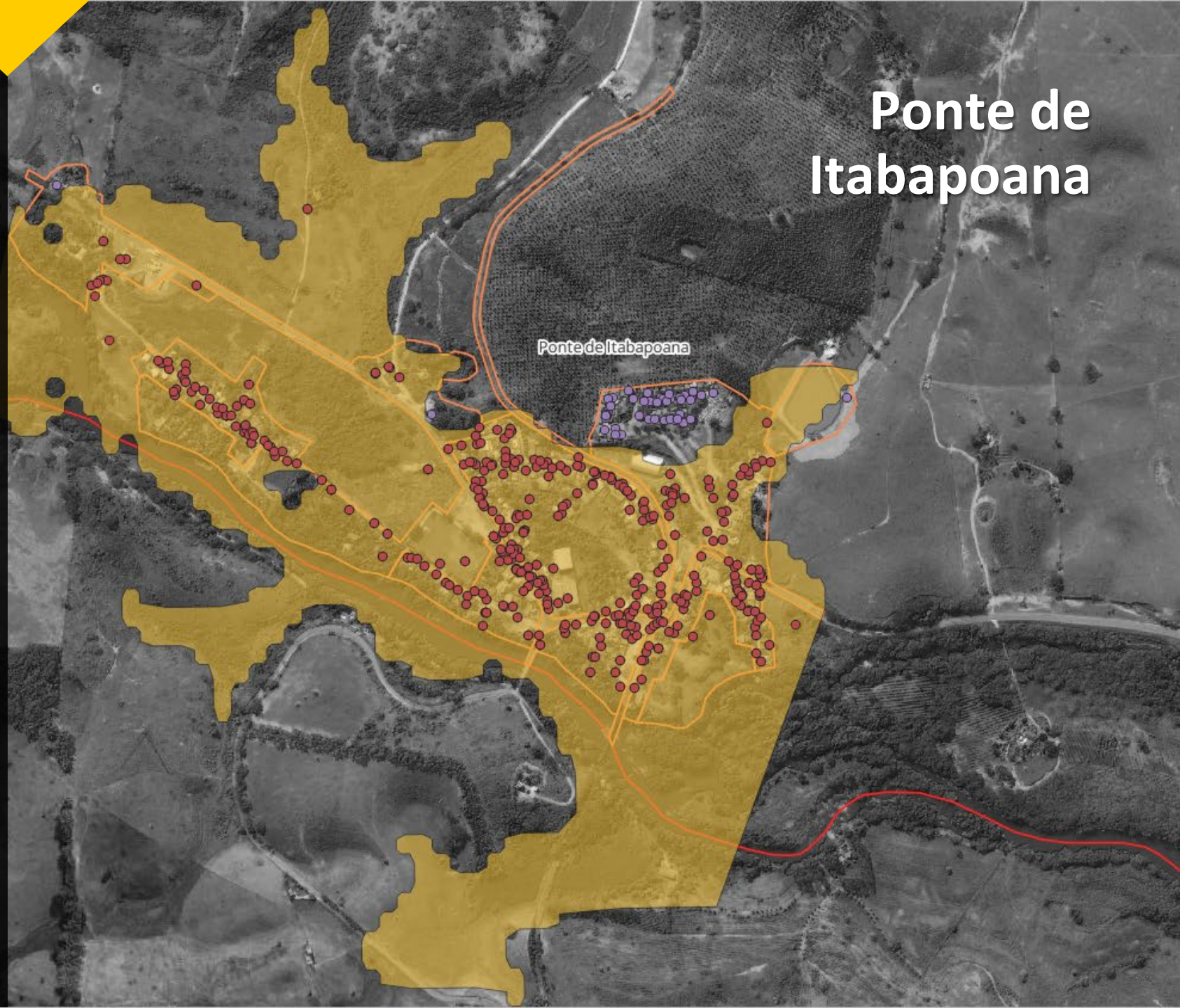
304 residências (90%)

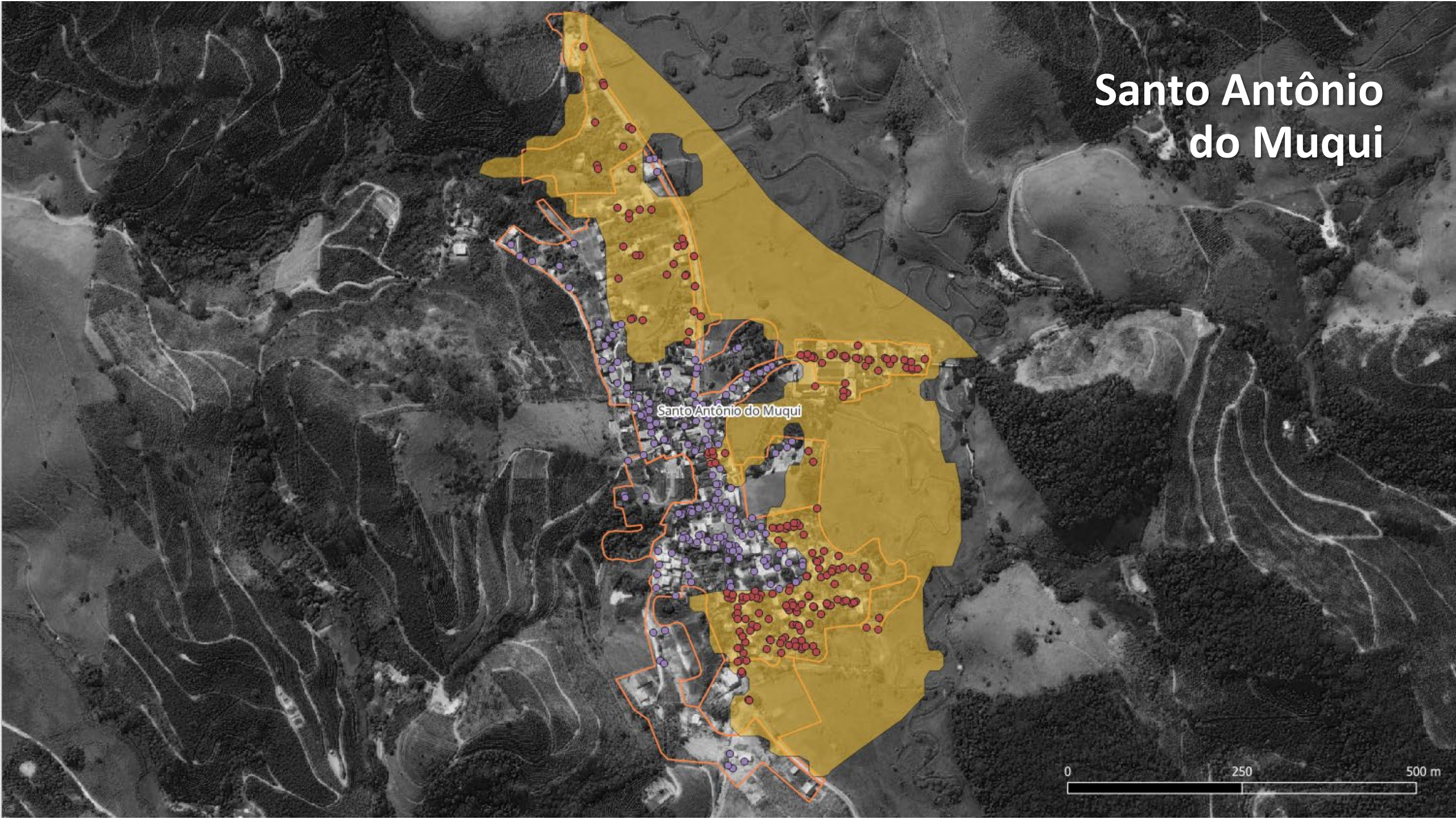
1 escola (100%)

1 estab. saúde (100%)

49 comércios (93%)

4 igrejas (80%)




Santo Antônio do Muqui
Santo Antônio do Muqui
0
250
500 m

Santo Antônio do Muqui

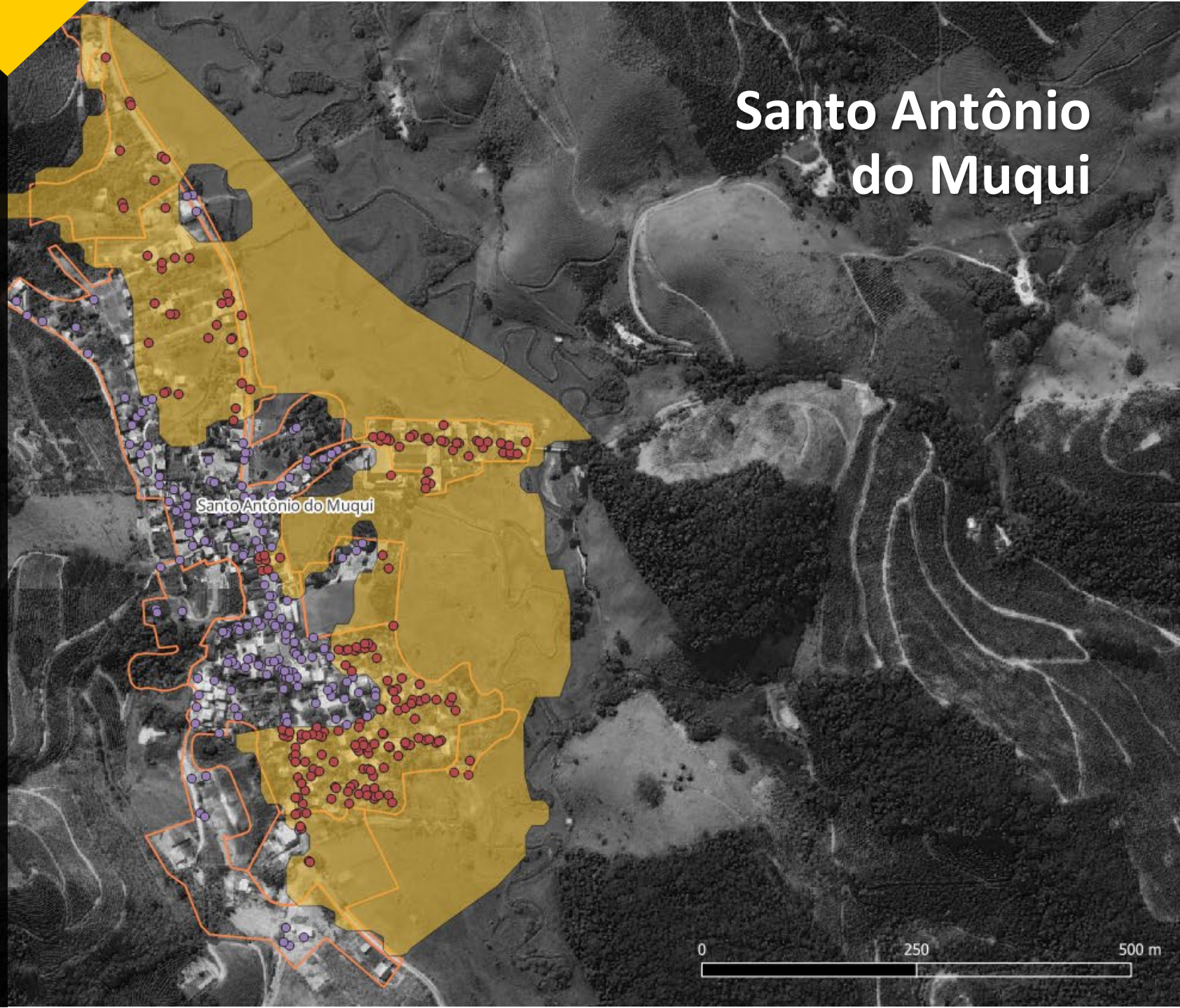
207 (54%)
imóveis atingidos

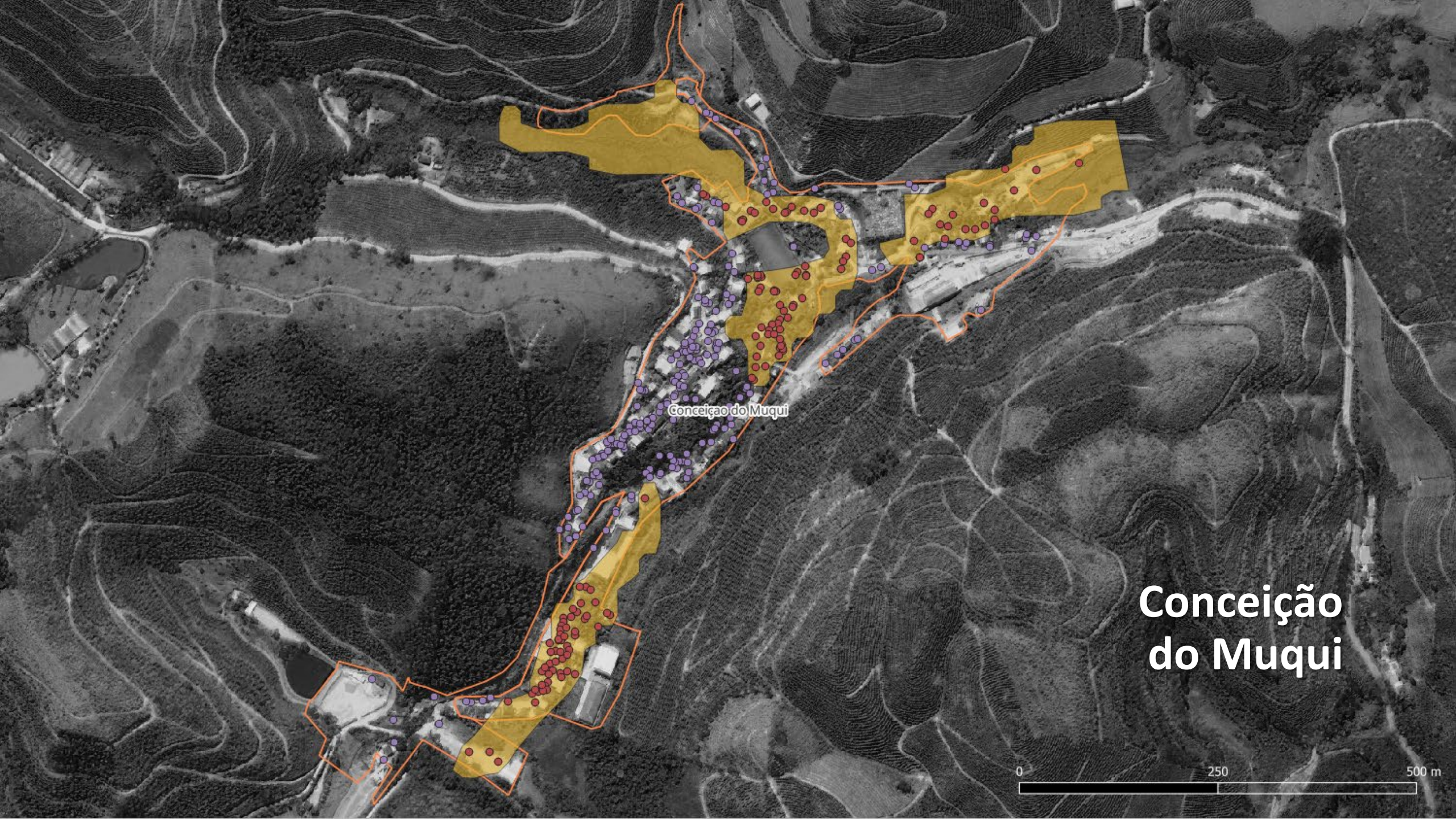
167 residências (56%)

1 escola (100%)

24 comércios (46%)

3 igrejas (60%)



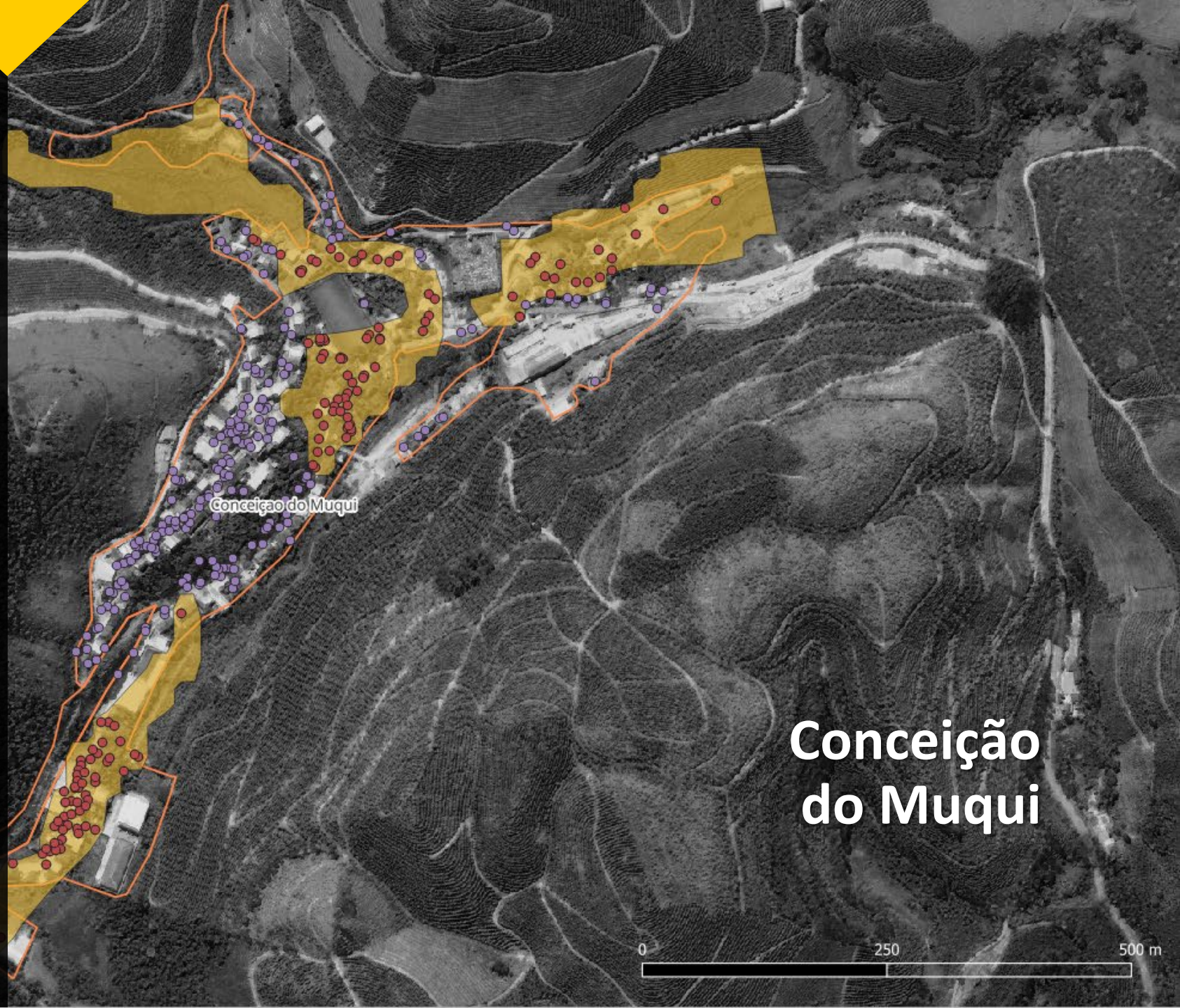

Conceiçao do Muqui
Conceição do Muqui
0
250
500 m

143 (41%)
imóveis atingidos

95 residências (42%)

1 escola (50%)

40 comércios (40%)



Conceição do Muqui

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