

The Mounds of Marble Waste: between refuse and reuse

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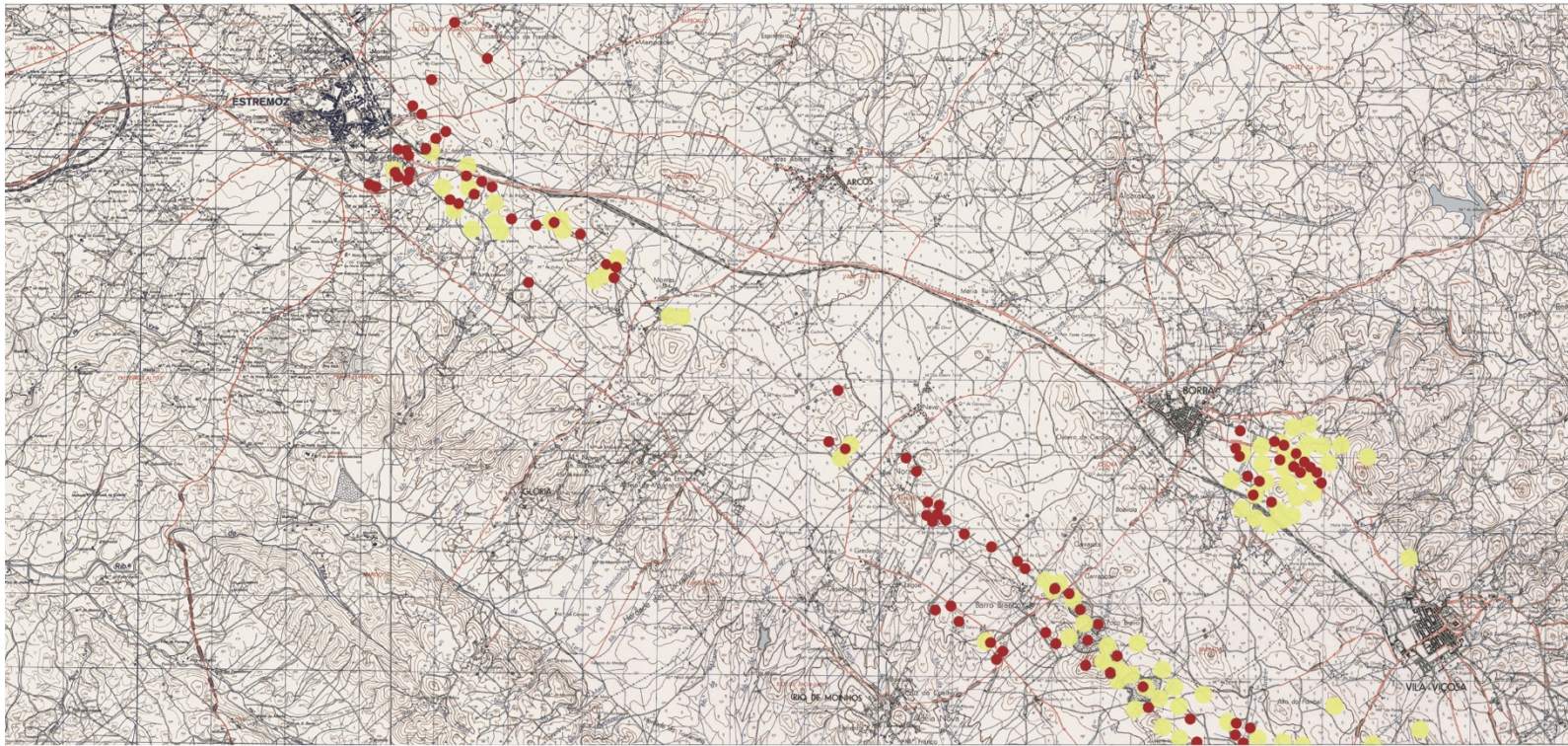
University of Minho, Portugal

Wastes 2015, 3rd International Conference, Viana do Castelo

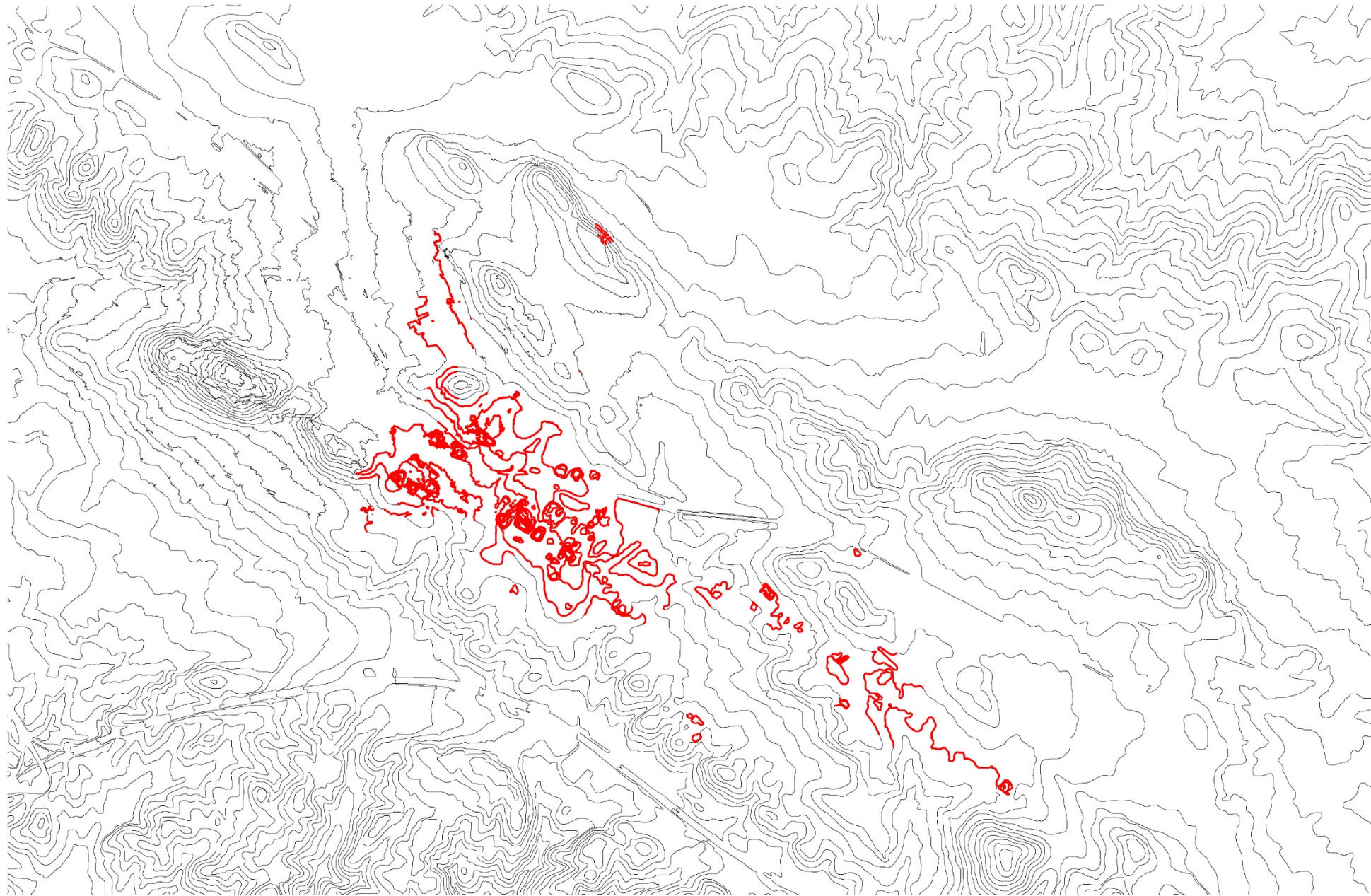
14.09.15

- a) Marble waste: between refuse and use
- b) Marble waste: between dis-use and reuse
- c) Waste in transit

a) Marble waste: between refuse and use

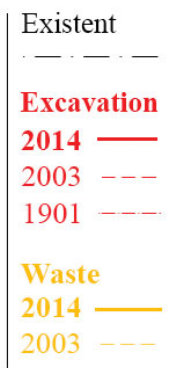
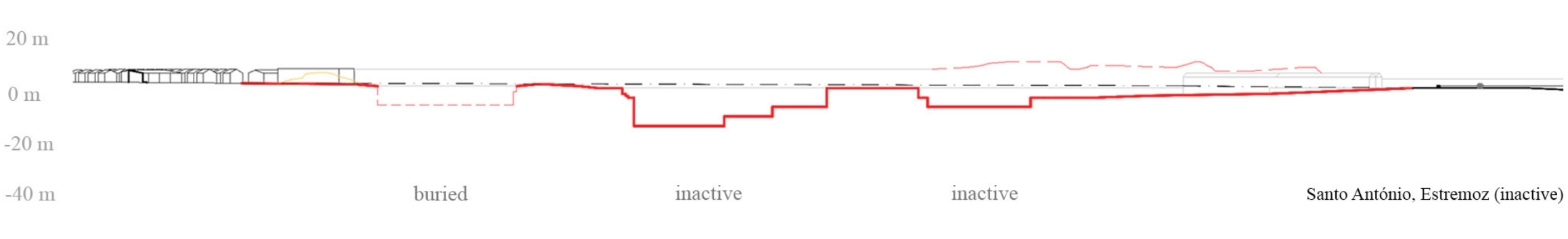
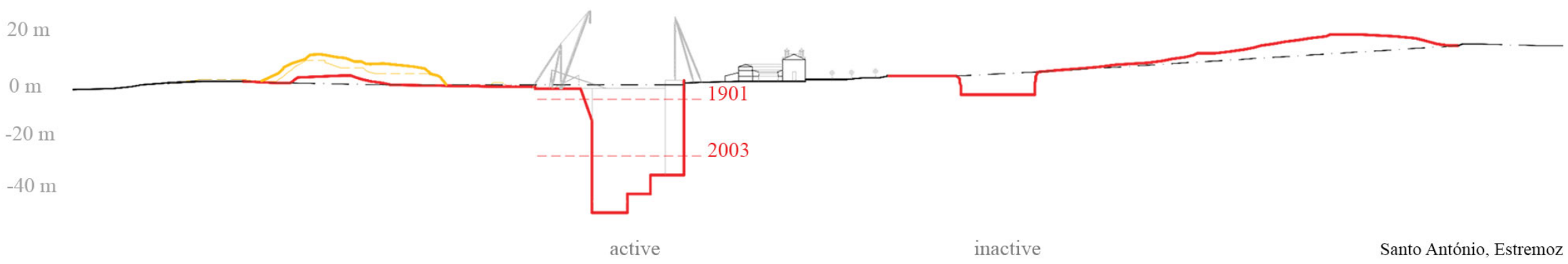
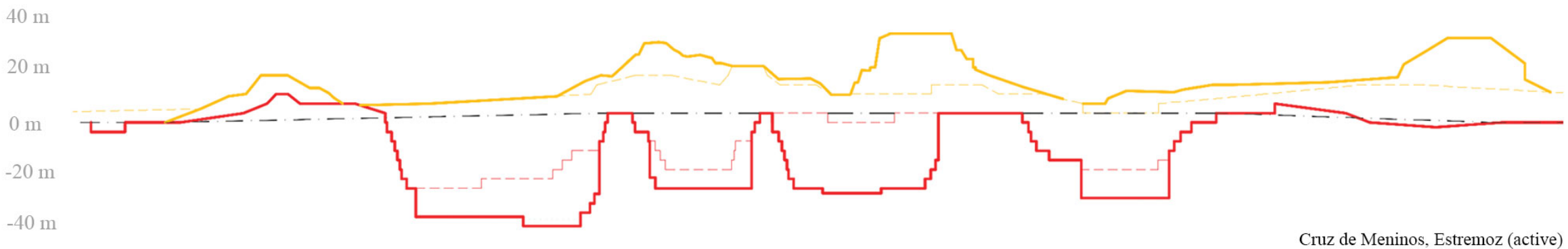


● Pedreiras ● Escombeiras 0 _____ 1000 m



— Alterações Topográficas decorrentes da atividade extrativa no concelho de Estremoz

N





178

Marble
Waste
Mounds

80-90
%

of the total
matter
extracted

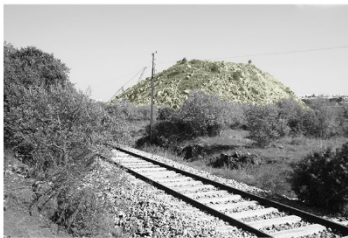
≈50

million tons
accumulated

99%

CaCO₃





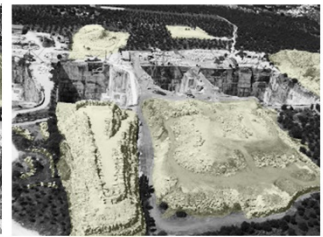
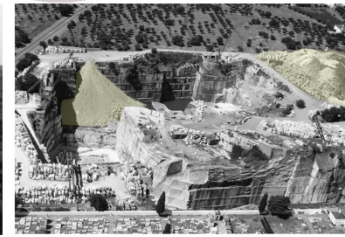
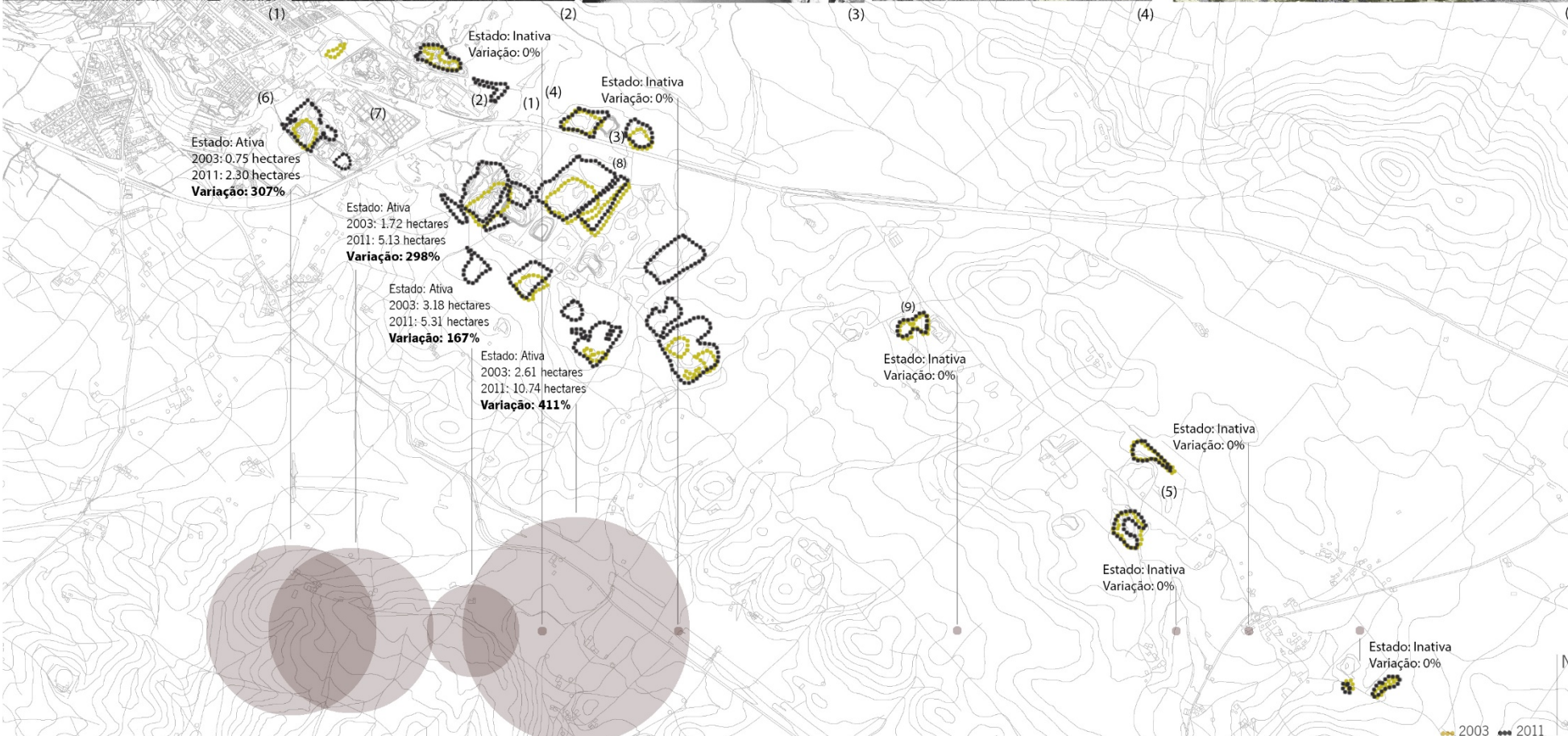
(1)

(2)

(3)

(4)

(5)



(6)

(7)

(8)

(9)

(10)



Mármore

Área Extrativa

Infraestrutura Viária

Aglomerado Habitacional

Olival

Montado

Cereal

Vinha

Horta

Exploração Pecuária e Agro-pecuária



b) Marble waste: between dis-use and reuse



Seleção Granulométrica dos Agregados



Preparação da Argamassa



Moldagem

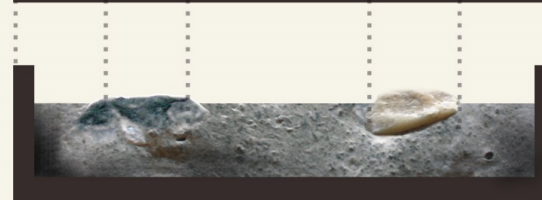


MARCRETE

Testes efetuados em Laboratório



20
cm

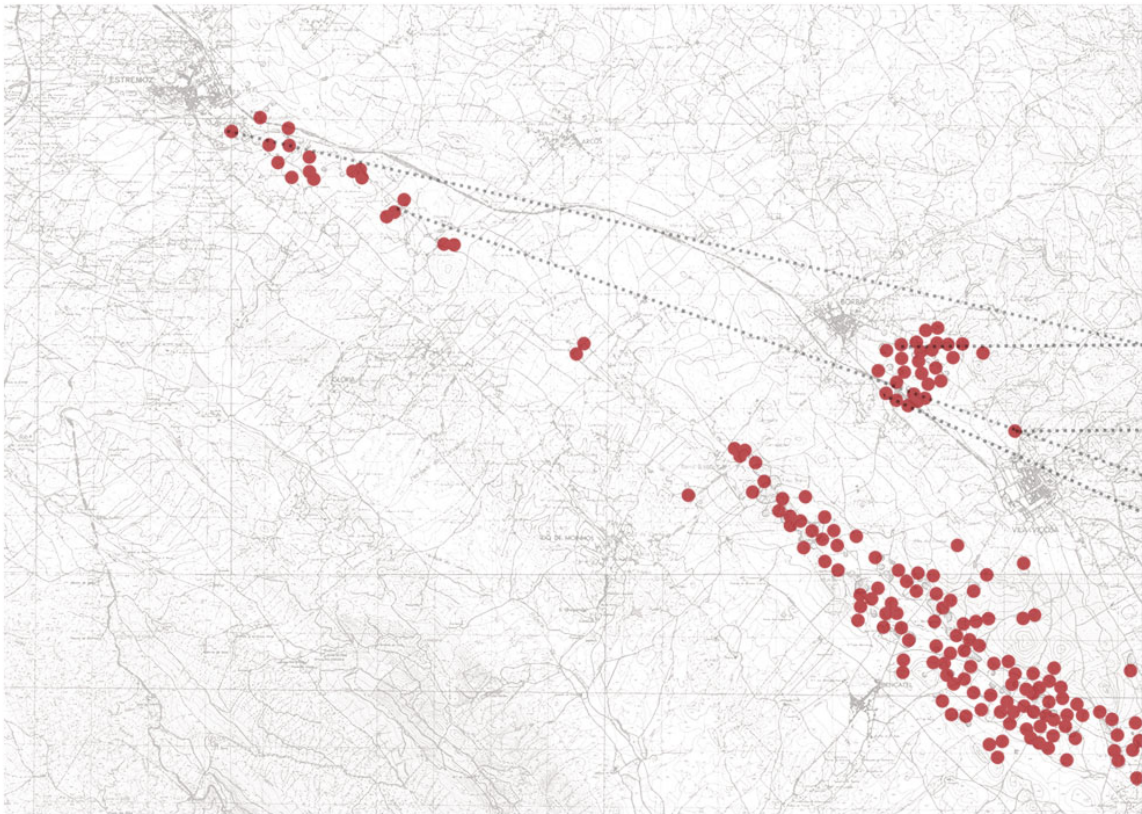


3.5
cm

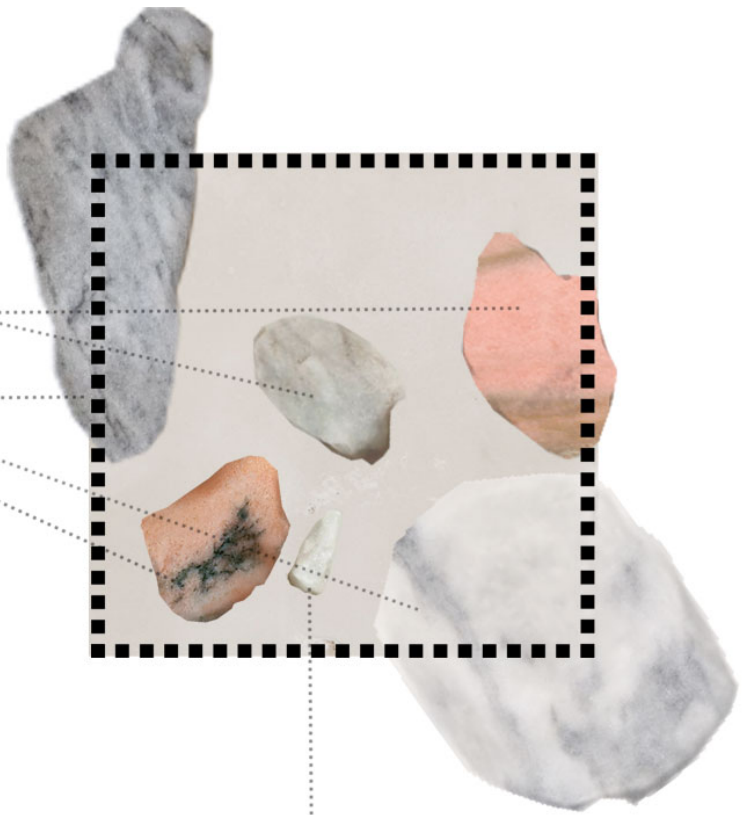
Cronograma das Actividades para fabrico de Marcrete



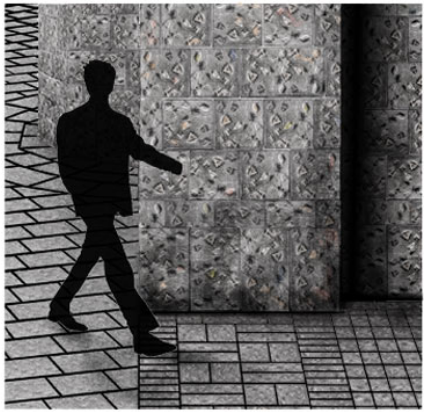
- Recolha matérias-primas
- Avaliação dos resíduos
- Trituração
- Fabrico da argamassa
- Moldagem da argamassa
- Integração dos agregados
- Desmoldagem
- Endurecimento da argamassa (secagem à temperatura ambiente)
- Ensaio Final (testes qualidade)
- Embalamento



● Marble waste mounds located in Estremoz Anticline



Marcrete application:



exterior



interior

c) Waste in transit



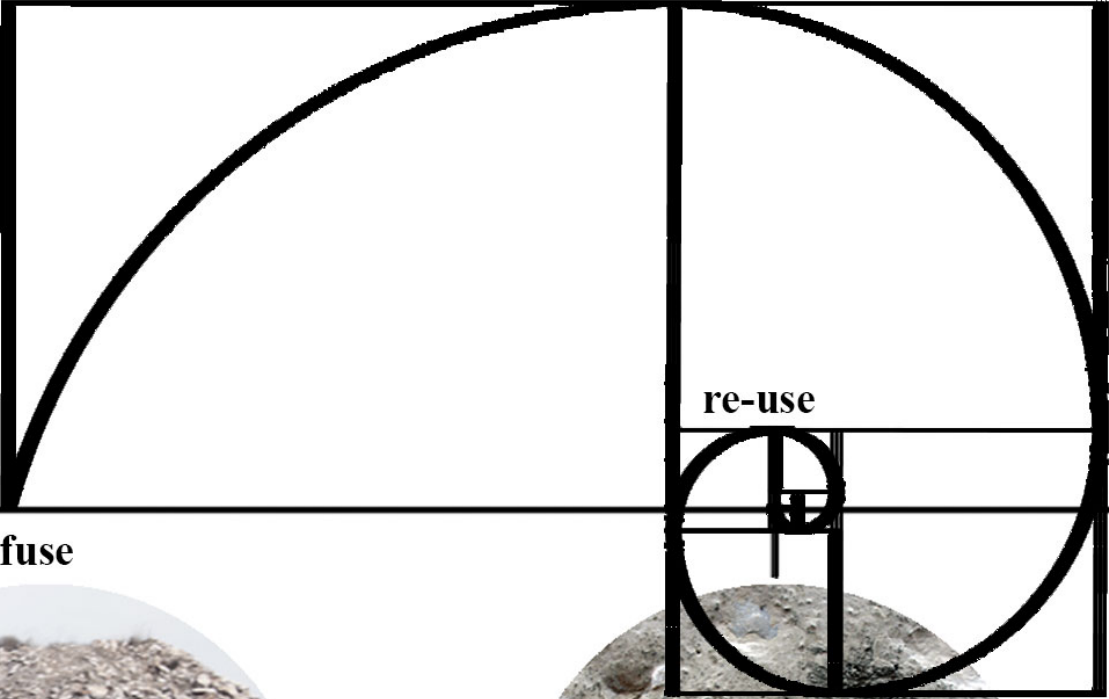
WASTE IN TRANSIT

EXTRACTION

USE

refuse

re-use



Thank you

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