

# From plant to essential oils: the THEO project for the cultural heritage conservation

## Step 1. Plant collection

Thyme is an aromatic plant spontaneously growing in the area of the Pistoia Apennines. Plants from different areas display different morphological traits and fragrances

Doganaccia (PT)



Roncacce (PT)



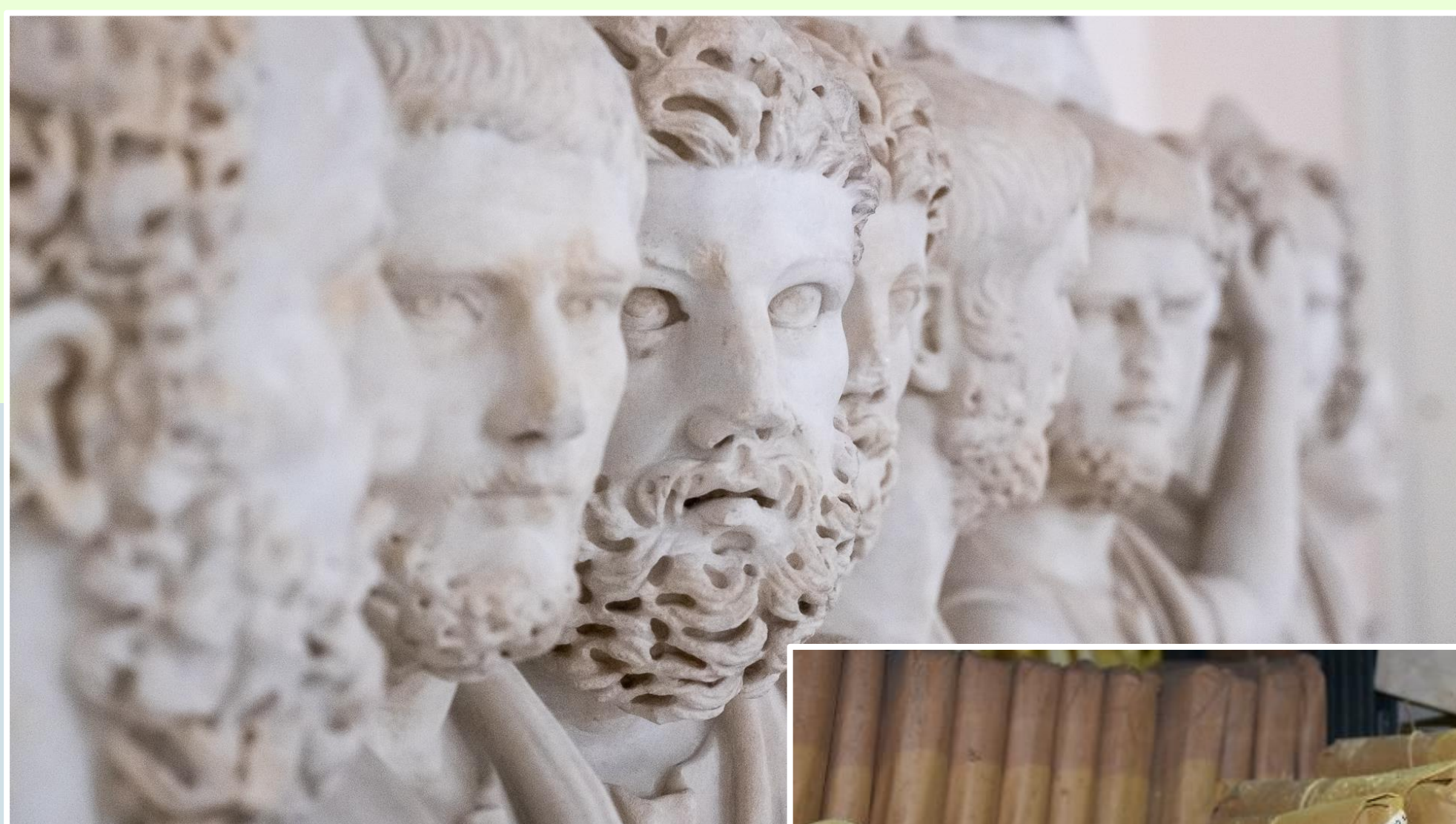
Pracchia (PT)



The essential oil extracted from thyme displays plenty of properties (antiseptic, anti-inflammatory, pesticide) making this product extremely attractive for industries

## Step 2. Plant propagation

Propagation by cuttings allows multiplying thyme plants at laboratory scale. The terpenes in plant tissues can be identified by gas chromatography-mass spectrometry



The essential oil extracted by thyme can be used for conservation purposes within the field of cultural heritage

## Step 3. The application

