Area & Perimeter

Load contour data
[2D points on image space - $\mathbf{P}^i(x_i, y_i)$]

Calculate pixel dimensions in meters
px_w, pw_h

Area or Perimeter?

Area

Perimeter

Calculate Area, A^i
(cv::contourArea)

Calculate Perimeter, P^i
(cv::arcLength)

Calculate conversion factor
$k = px_w * pw_h$

Convert Perimeter to m
$P = P^i * px_{w/h}$

Convert Area to m^2
$A = A^i * k$