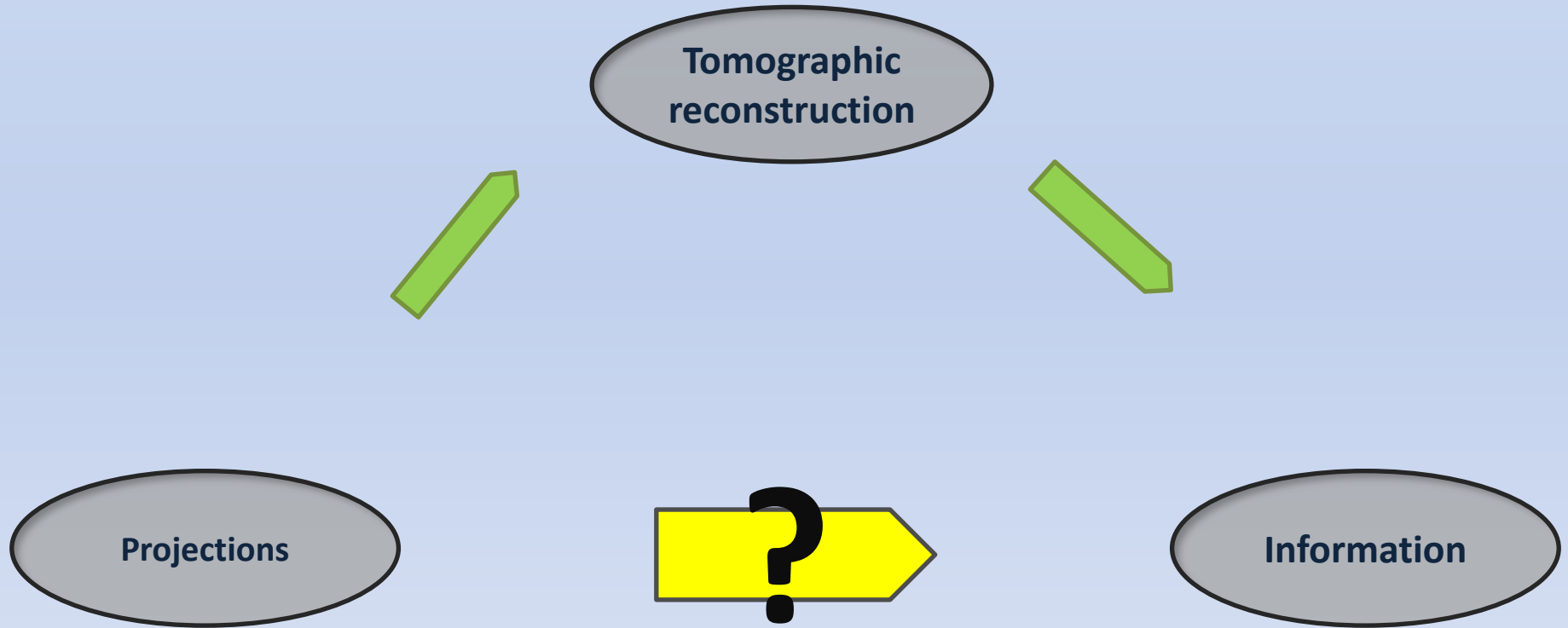


# Reconstruction of Quantitative properties from point X-rays

F. Abdmouleh & M. Tajine



# Reconstruct what and why ?



# Reconstruction of quantitative properties from point X-rays

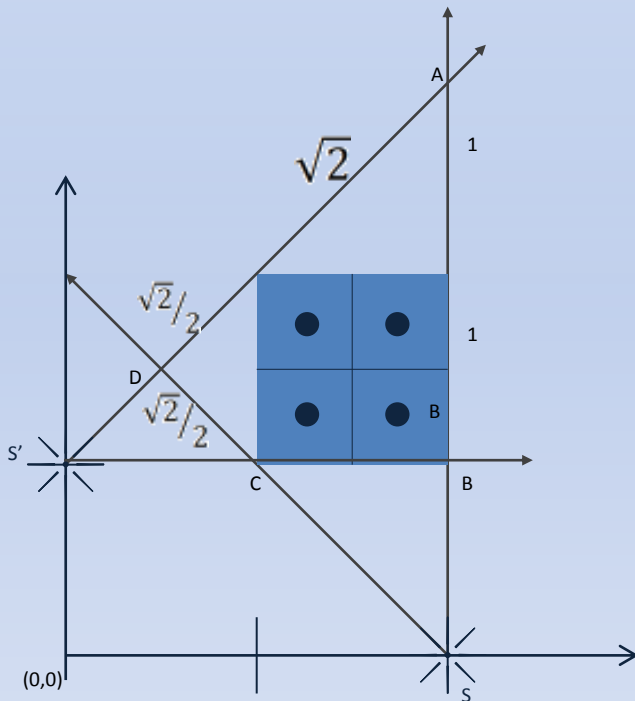
Surface area estimator

*1 projection*

Perimeter : upper and lower bounds

*2 projections*

# Example



$$|E_r| = \sum_{j=1}^{n_r} s_j^r = \left(\frac{1}{r} + 1\right)^2$$

$$\lim_{r \rightarrow 0} A(E_r) = A(E) = 1$$

$$3.54 \leq L(E) \leq 5.82$$