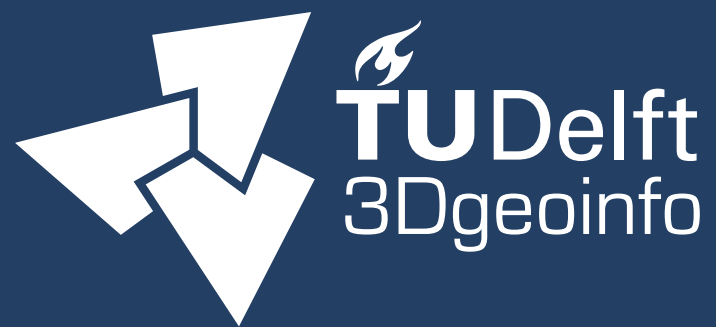


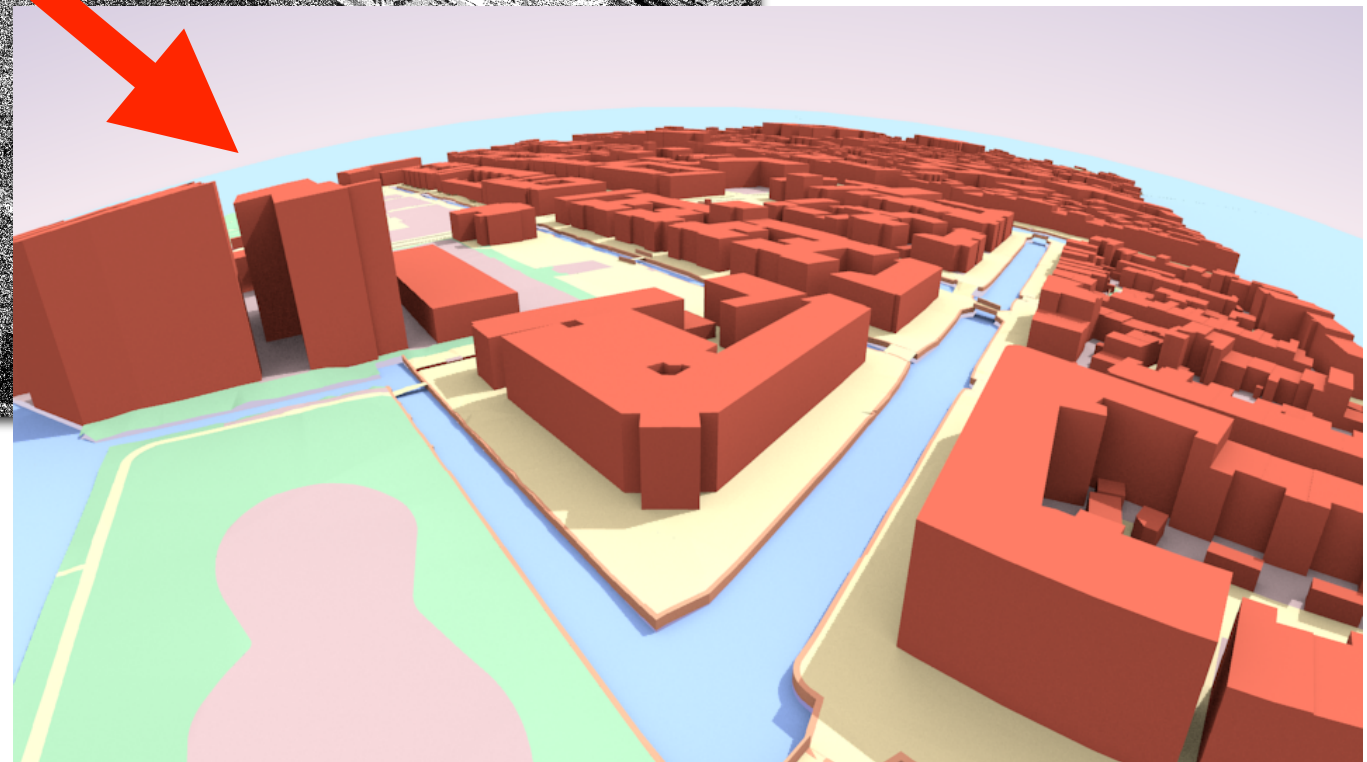
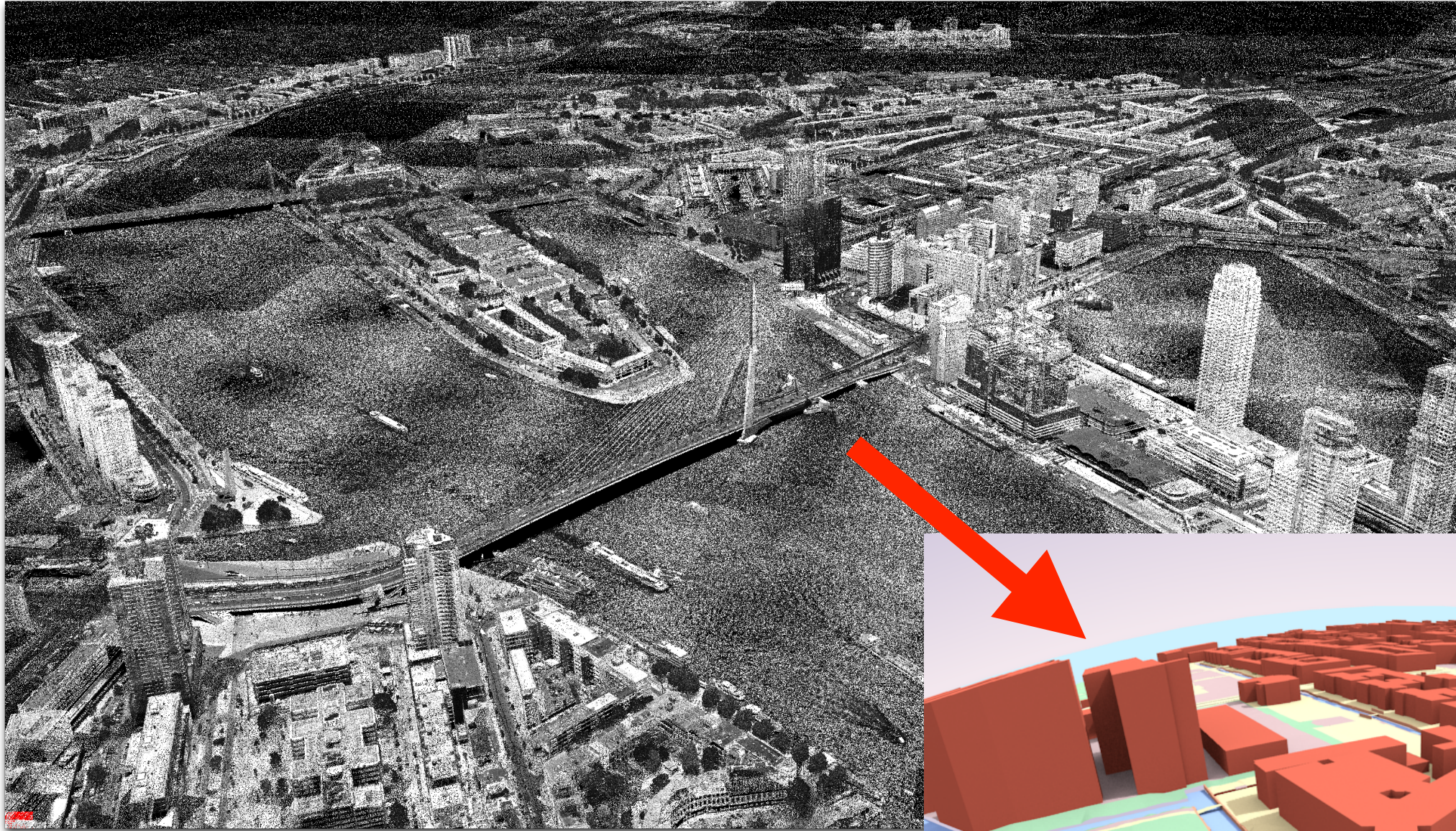
Building detection with the 3D medial axis transform

Ravi Peters

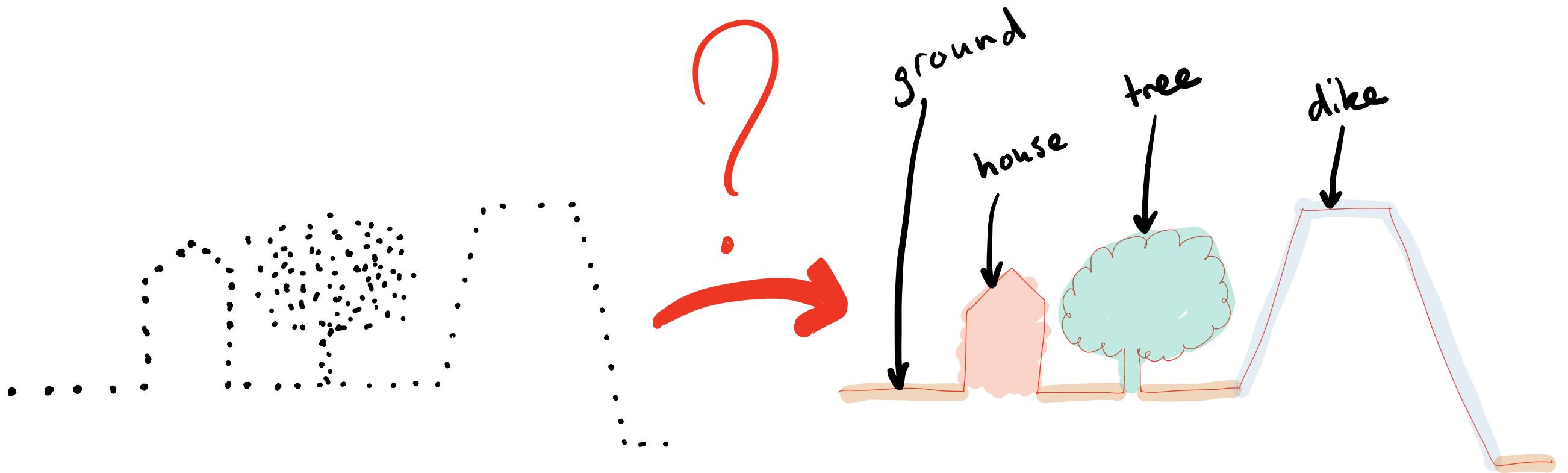
Delft, 13 March 2018



How?



How?



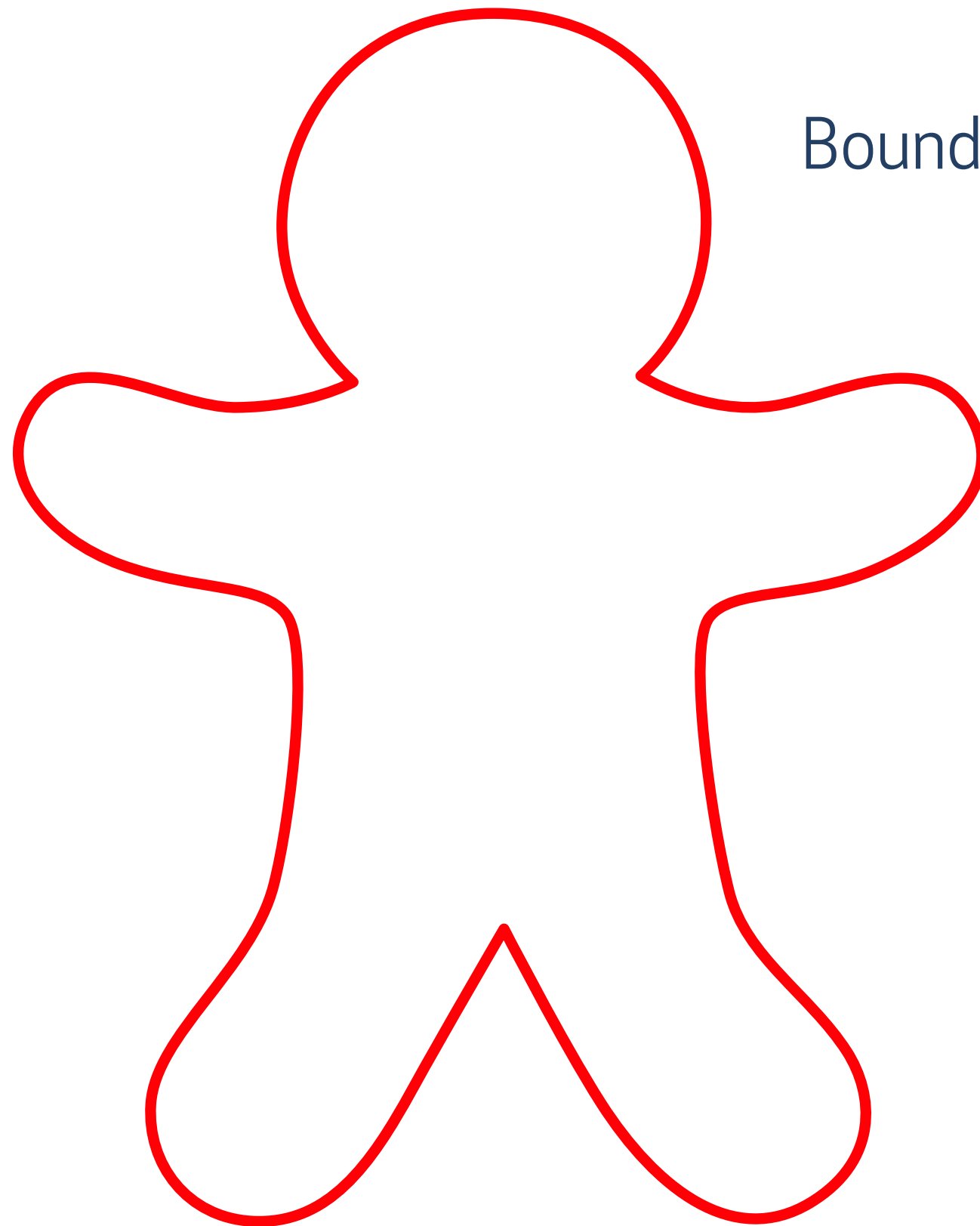
How do to detect these objects?

How to structure shape?

How to structure shape?



How to structure shape?

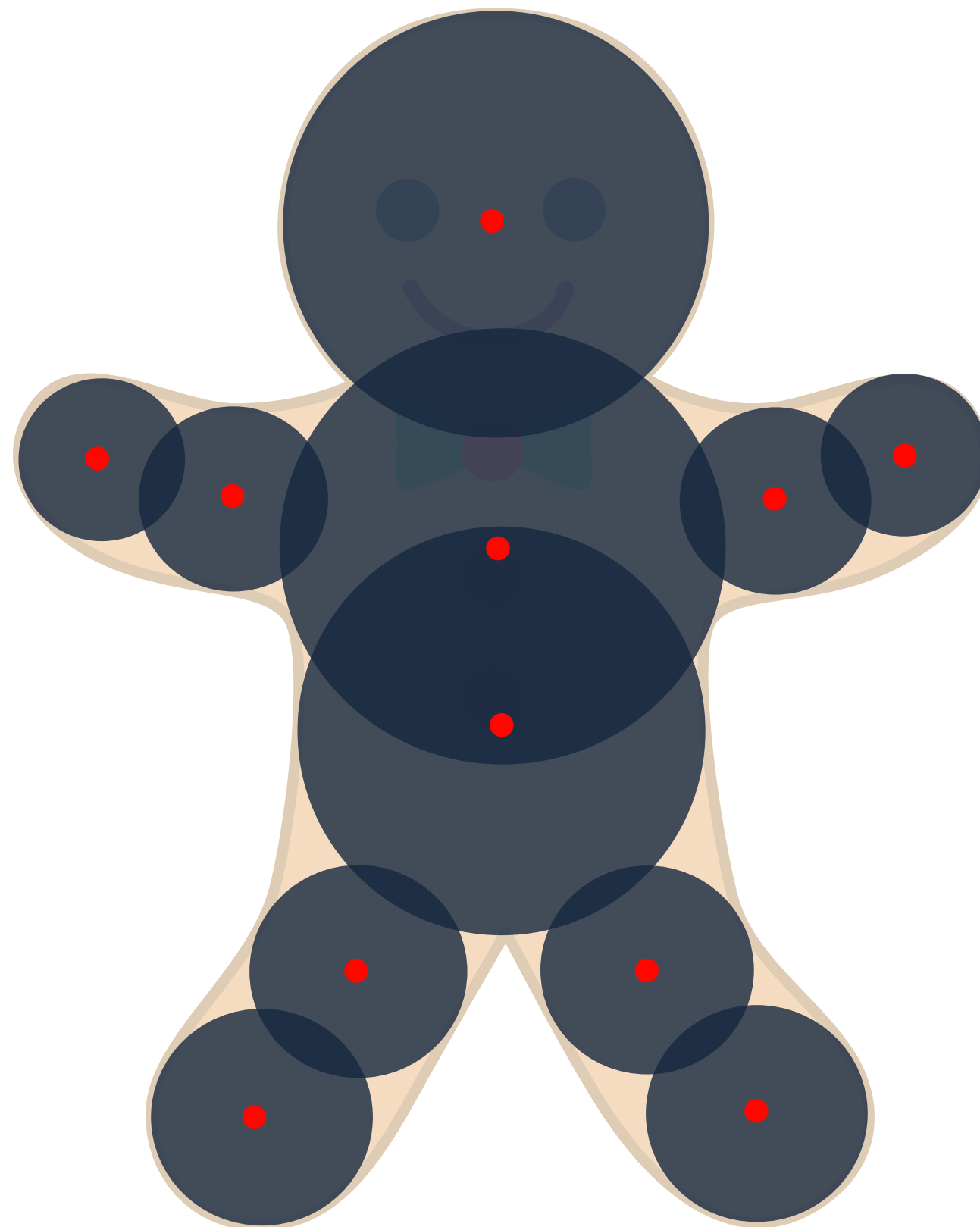


Boundary representation

How to structure shape?

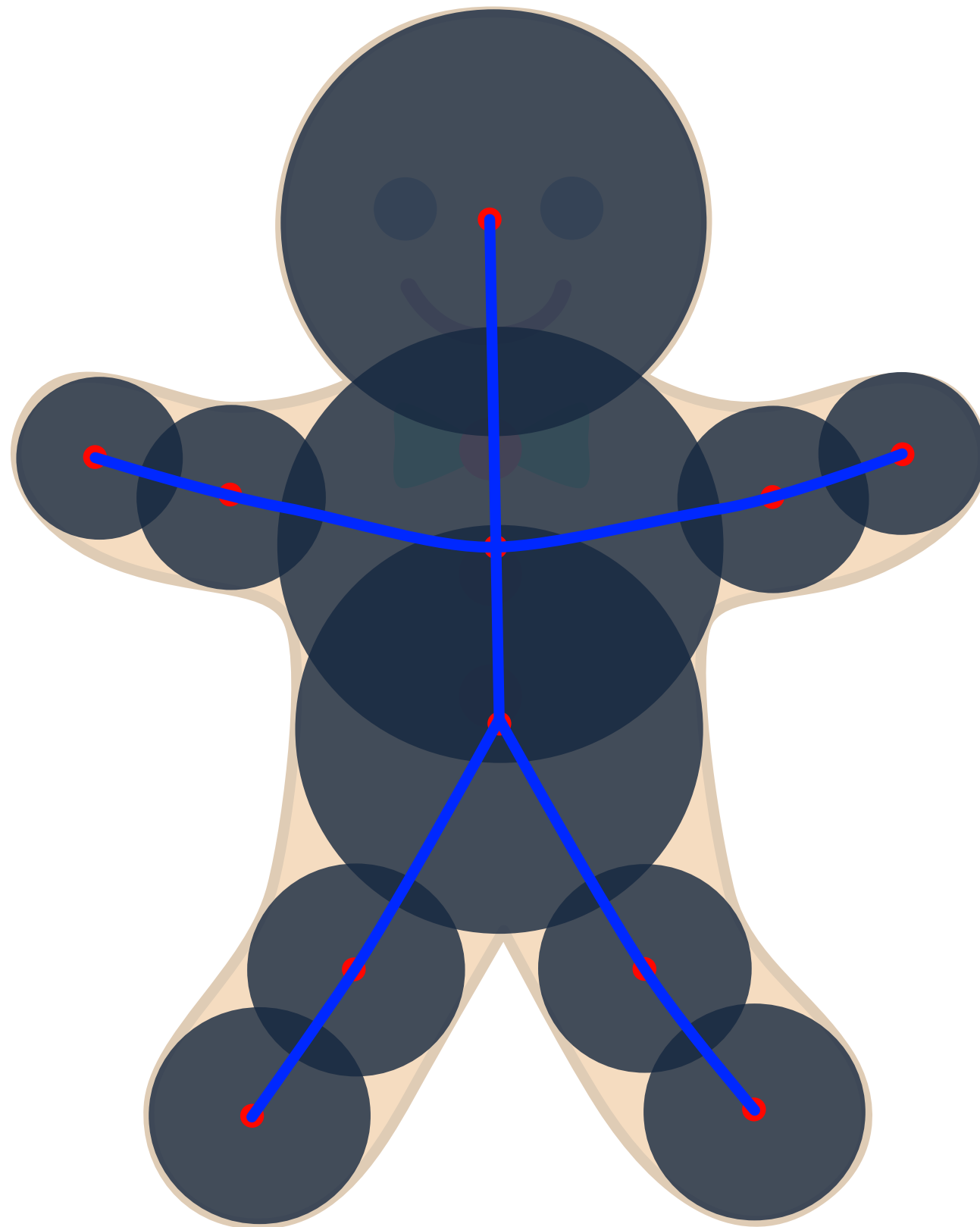


How to structure shape?

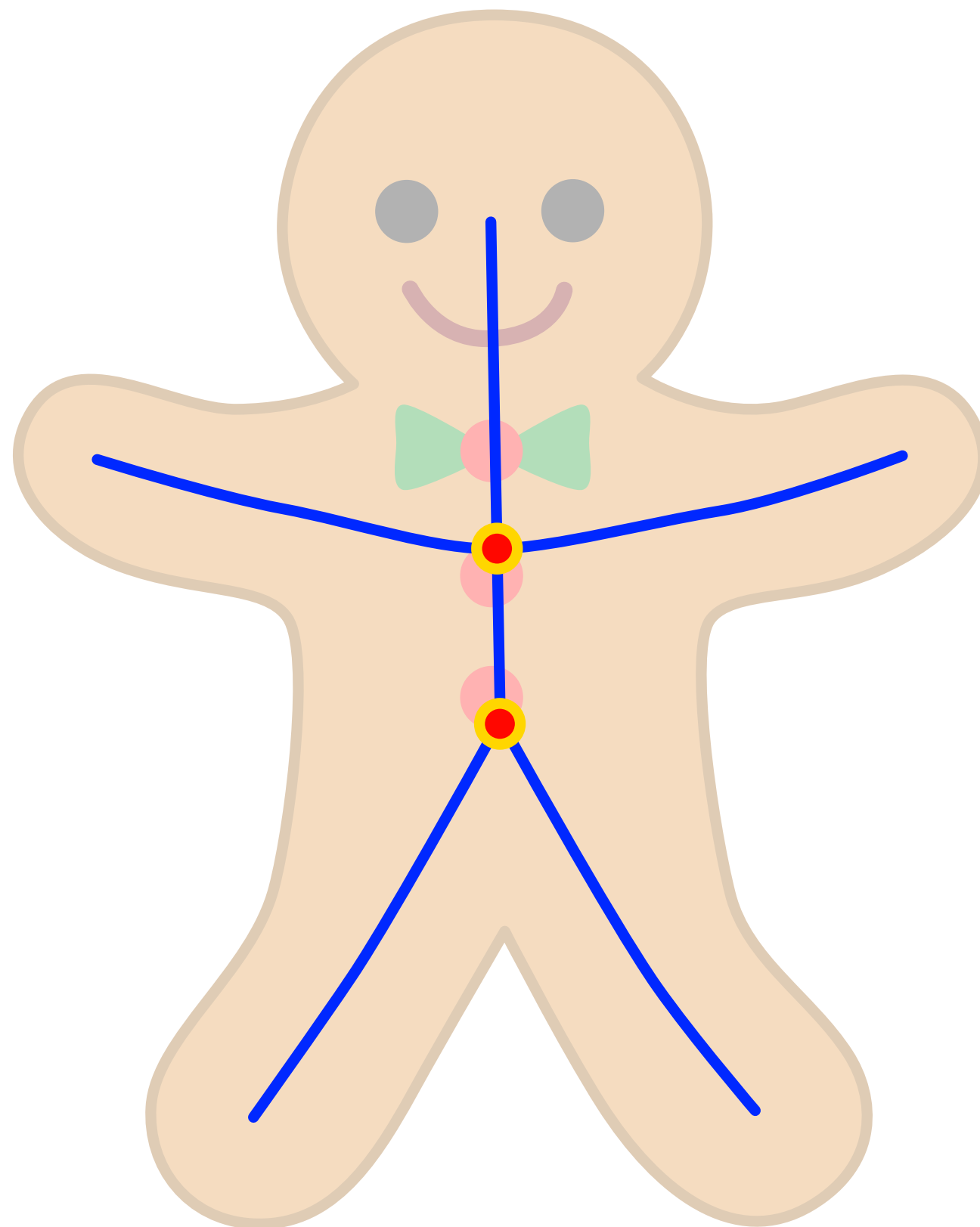


Medial balls

How to structure shape?

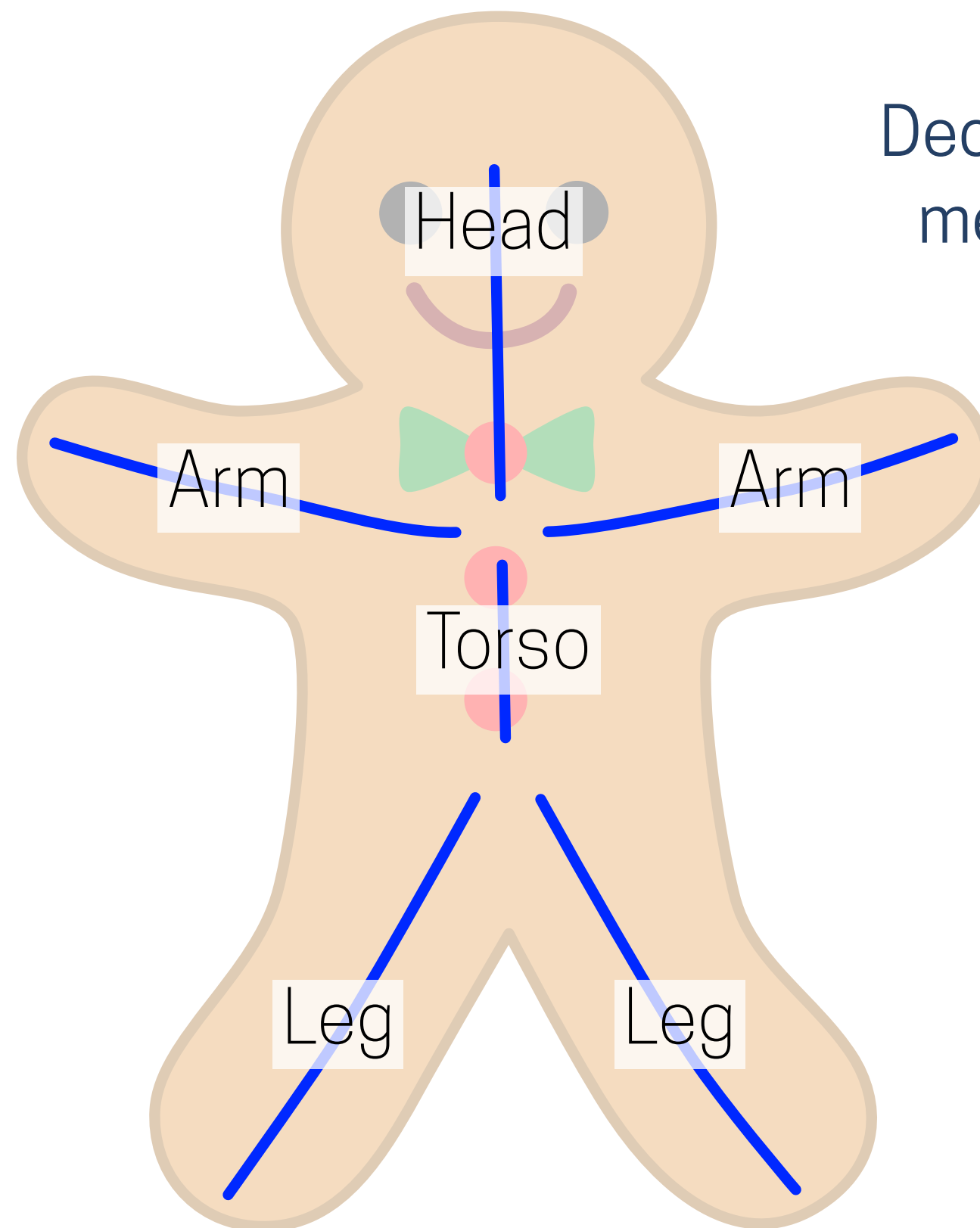


How to structure shape?



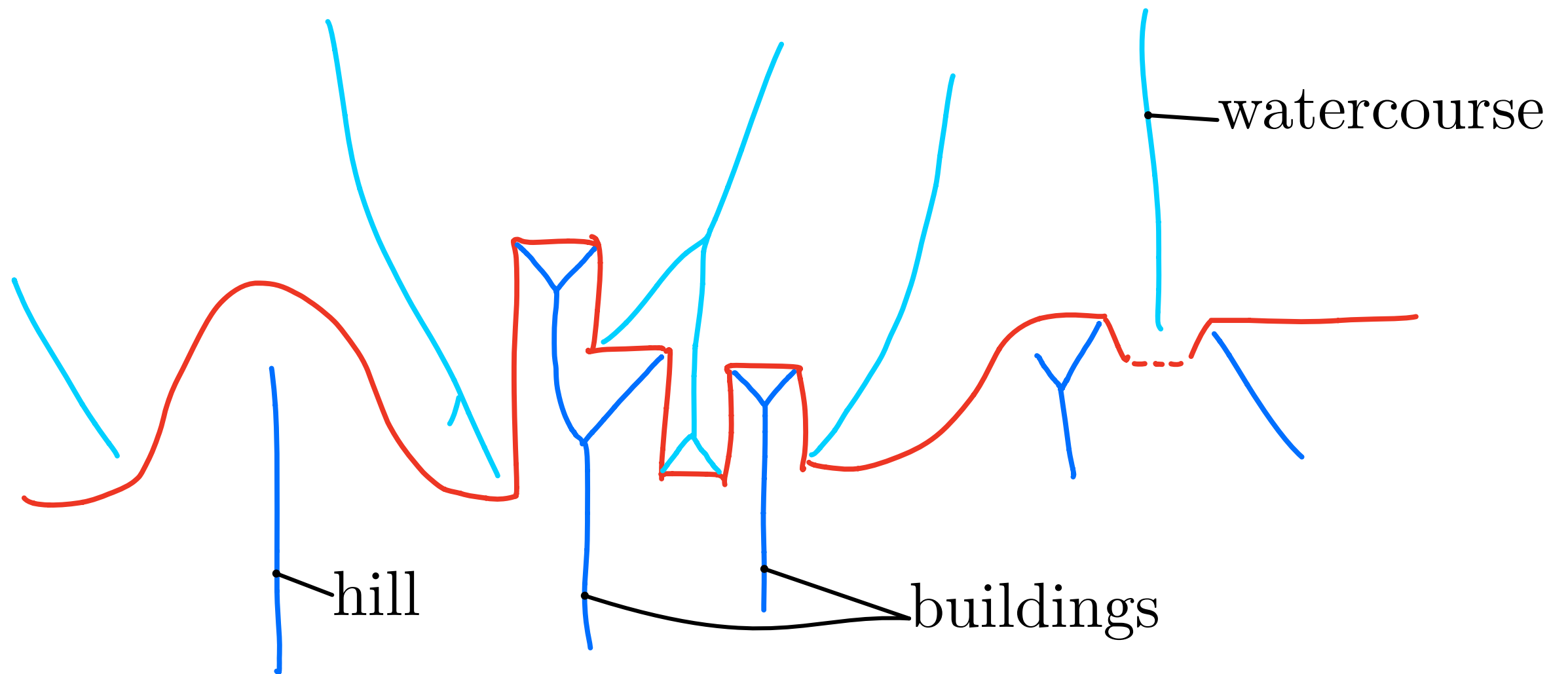
Medial axis

How to structure shape?



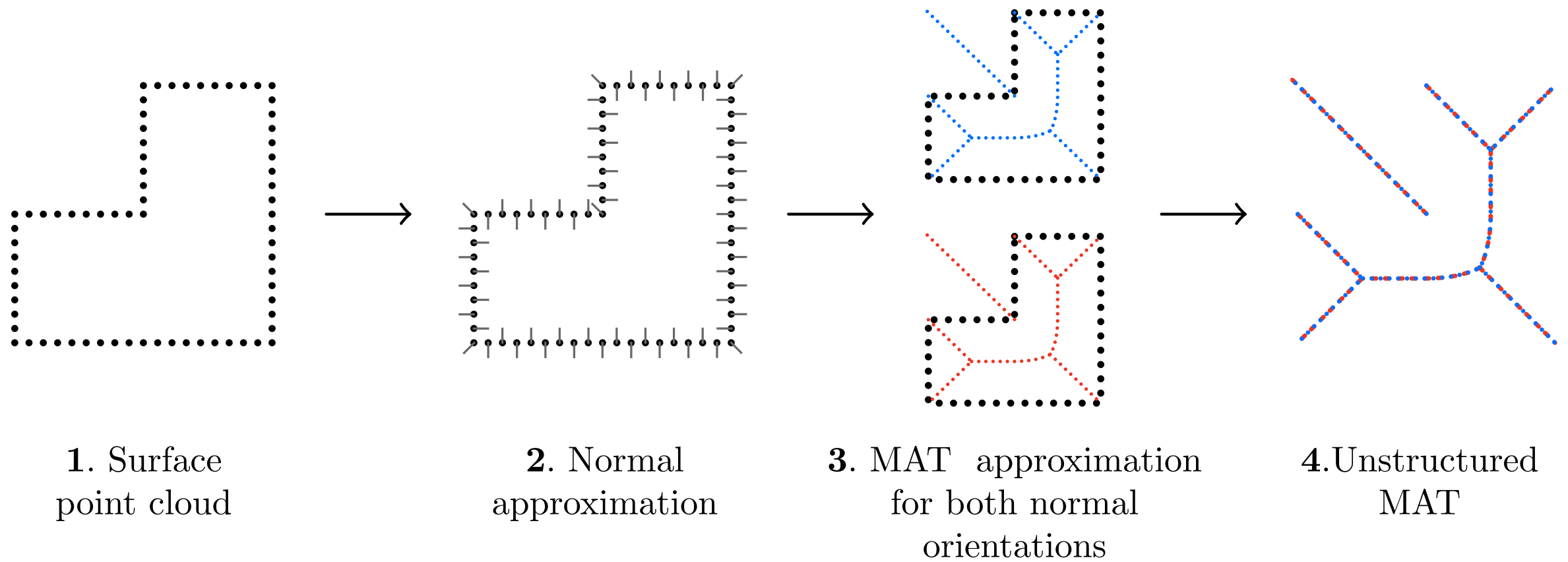
Decomposition into
meaningful parts

How to structure shape?

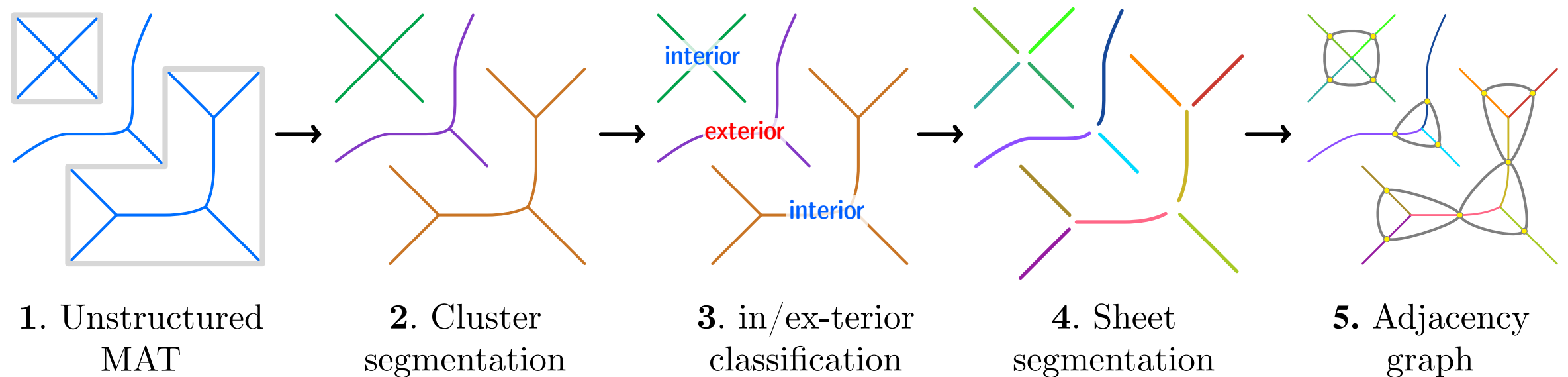


Computing the 3D MAT

Unstructured MAT

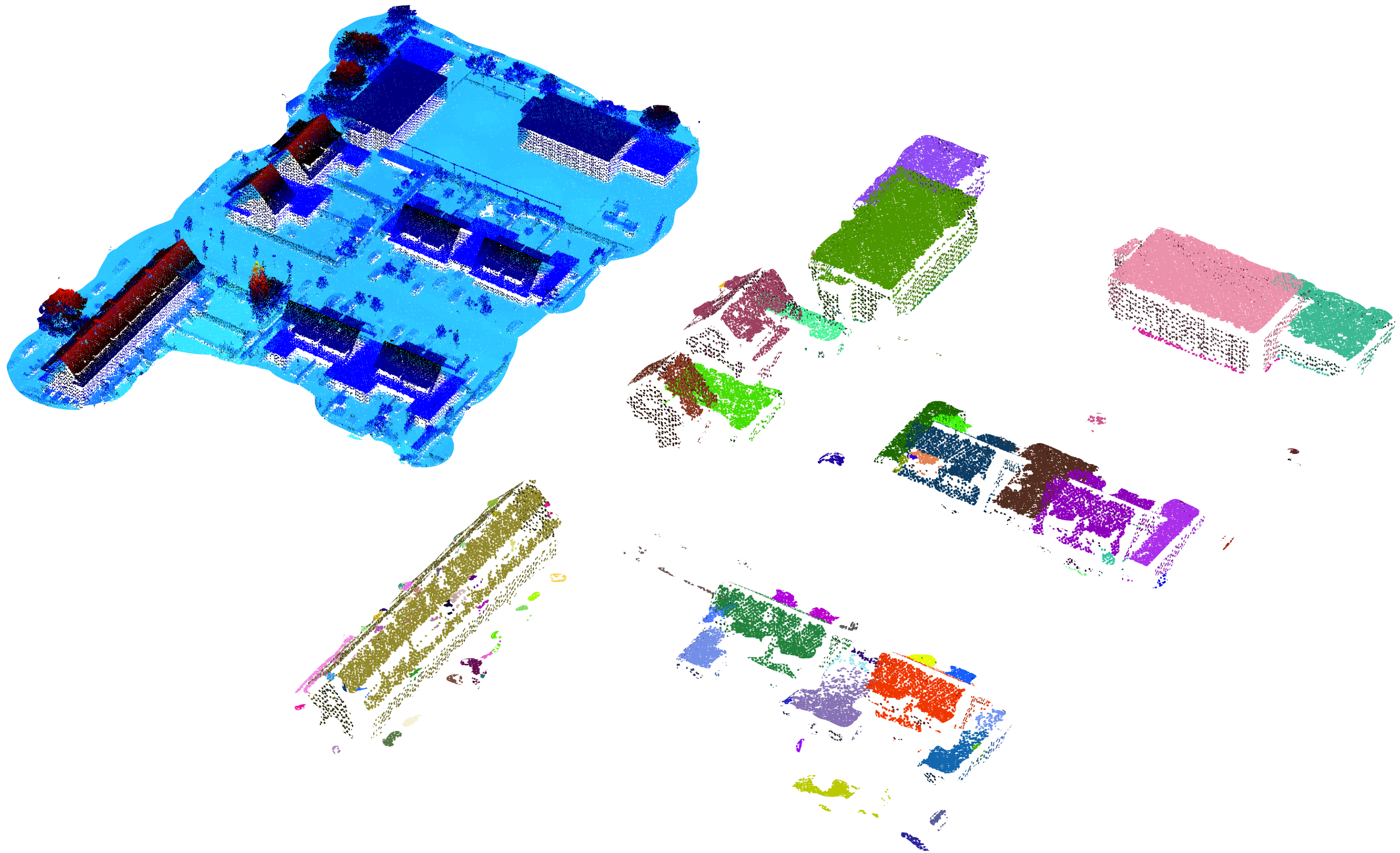


Structured MAT

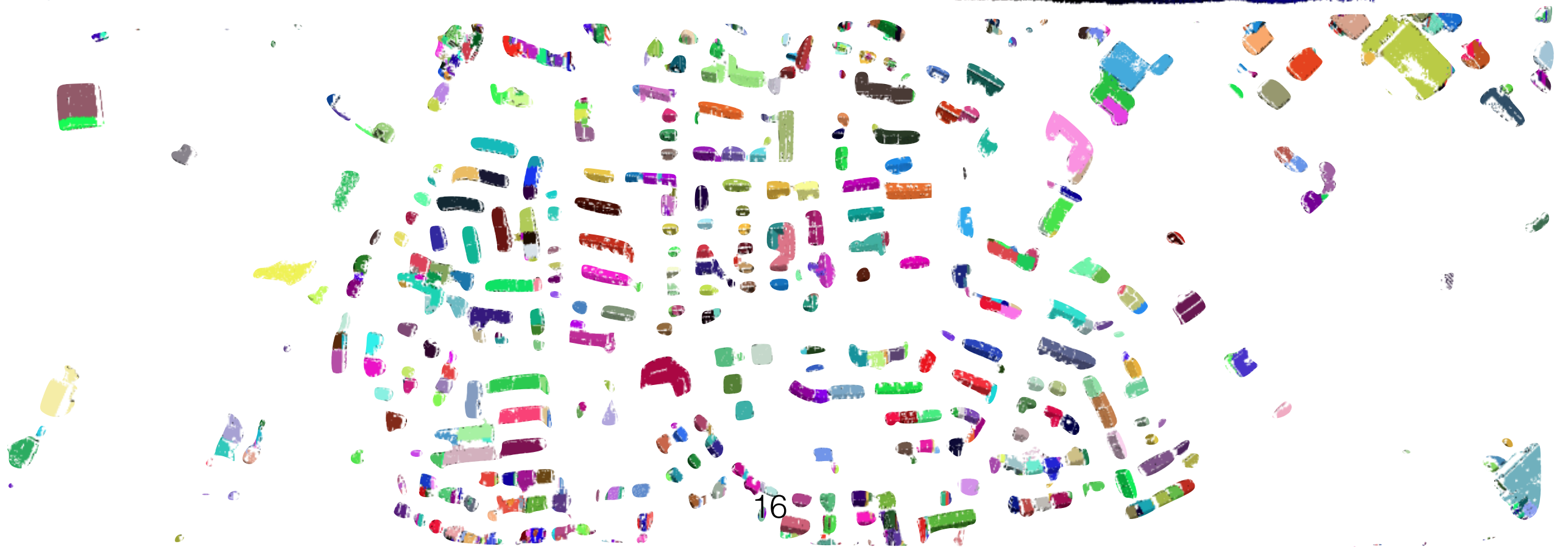
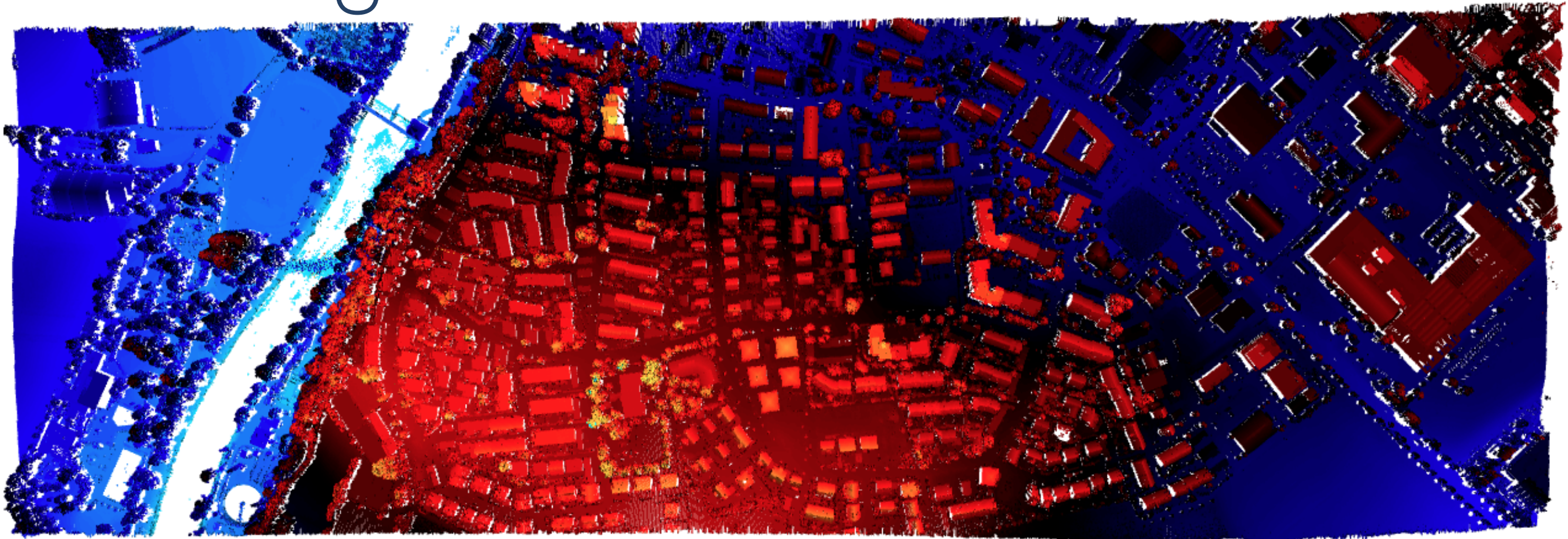


Results

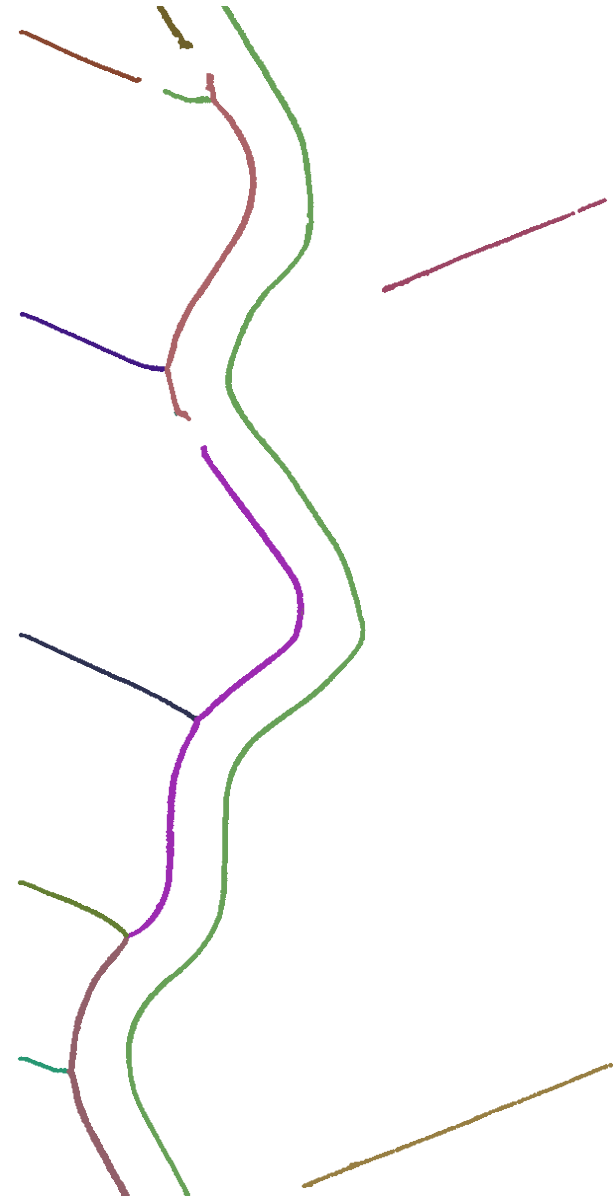
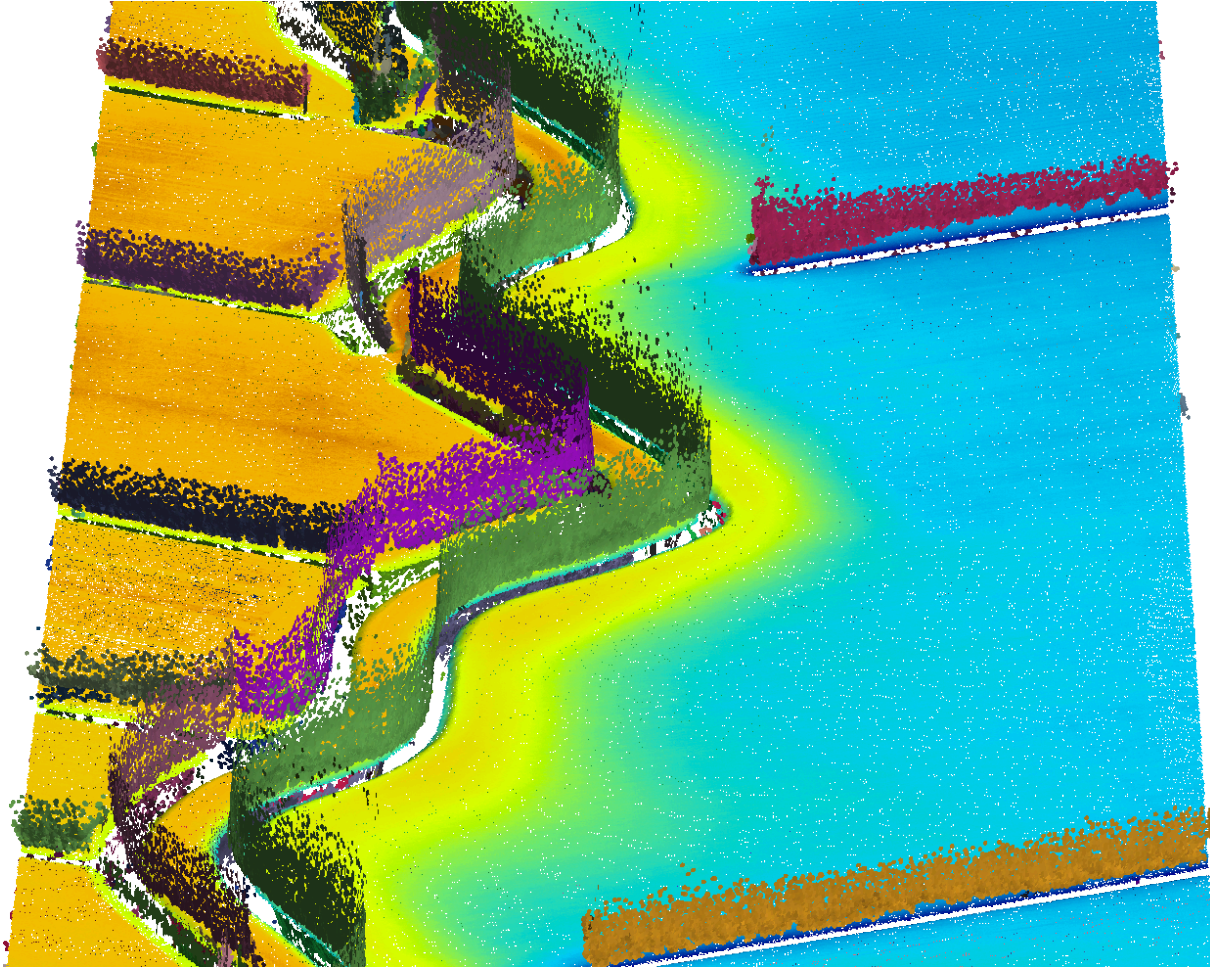
Building detection



Building detection



Watercourse detection



Thank you!