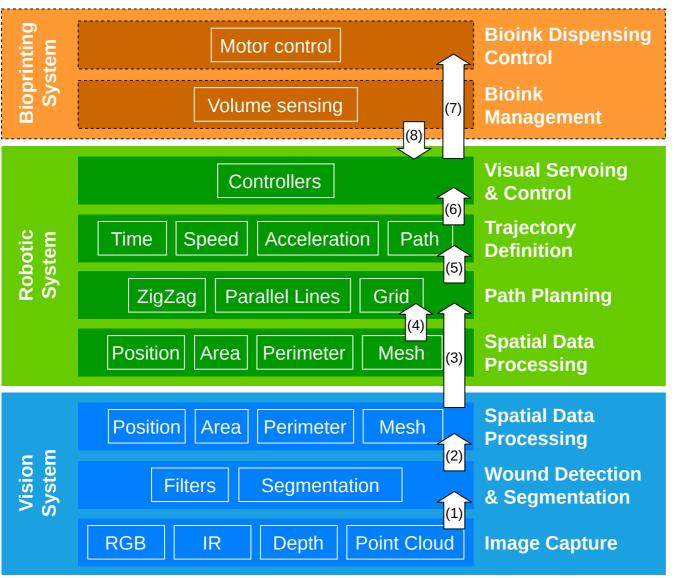
Layered Architecture





- (1) RGB image (3 channels)
 IR image (1 channel)
 Depth image (1 channel)
 Point cloud (3D points)
- (2) Wound contours (2D points)
 Point cloud (3D points)
- (3) Wound contours (2D points)
 Wound contours region (3D poses)
 Camera to Robot transform (4x4 matrix)
- Wound contours region (3D poses)
 Camera to Robot transform (4x4 matrix)
 (5) Wound filling path (3D poses)

(4) Wound contours (2D points)

- Bioprinting actions (commands)

 (6) Wound filling trajectory (3D poses,
- (7) Bioprinting actions (commands)
- (8) Bioink volume state

bioprinting actions)