Current practice and research question
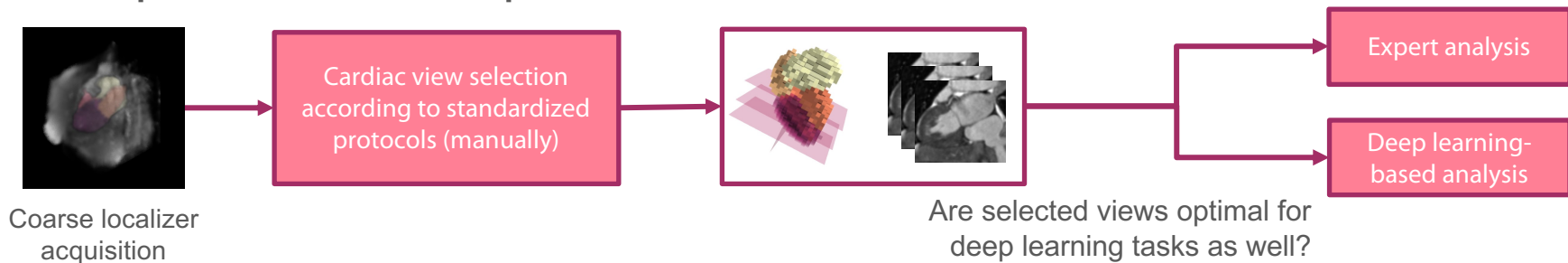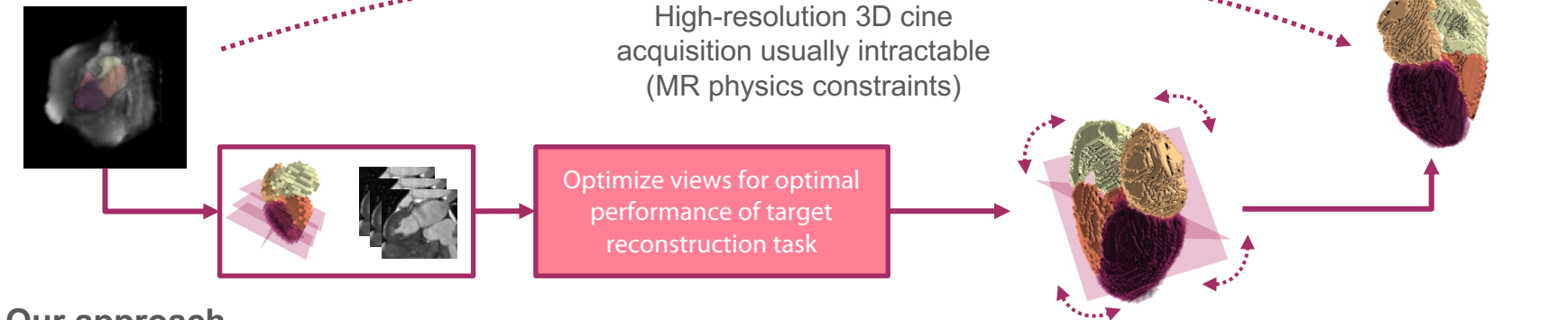

Coarse localizer acquisition

Cardiac view selection according to standardized protocols (manually)

Expert analysis

Deep learning-based analysis

Are selected views optimal for deep learning tasks as well?

Coarse localizer acquisition

High-resolution 3D cine acquisition usually intractable (MR physics constraints)

High-resolution shape reconstruction

Optimize views for optimal performance of target reconstruction task

Our approach