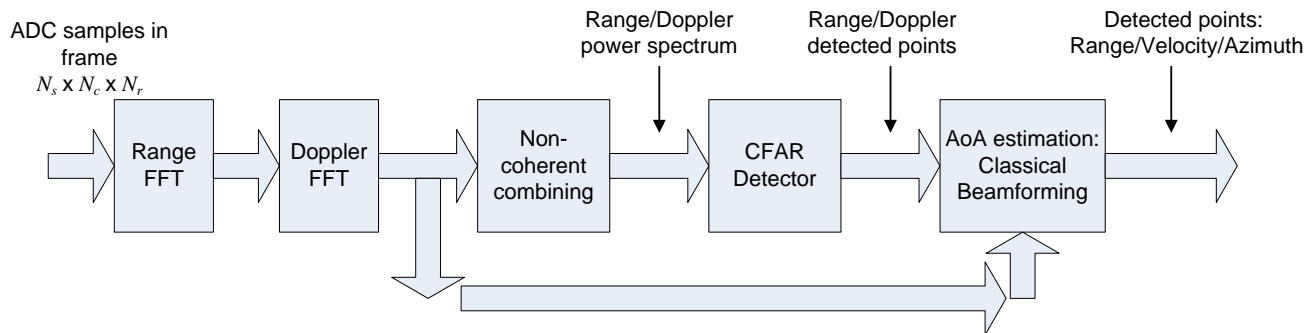
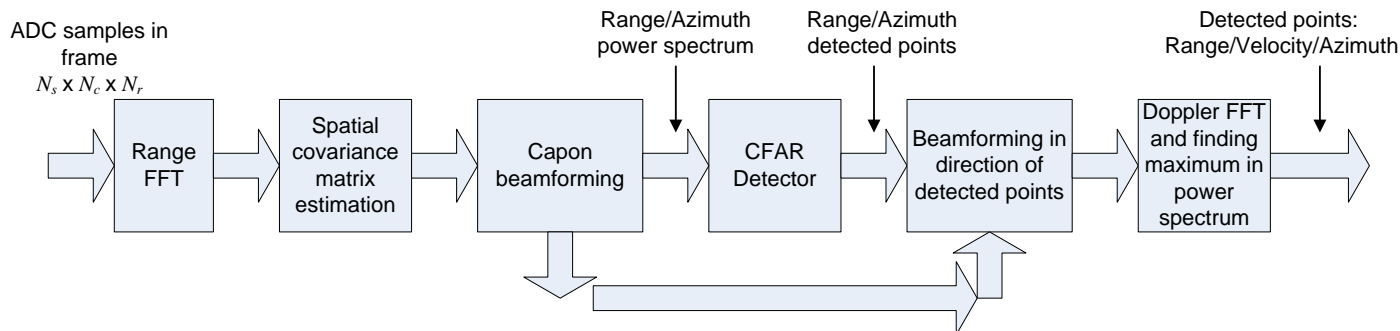


# People Counting vs. Conventional Processing Chain



**Conventional processing chain (Traffic Monitoring, Short Range Radar, etc.)**

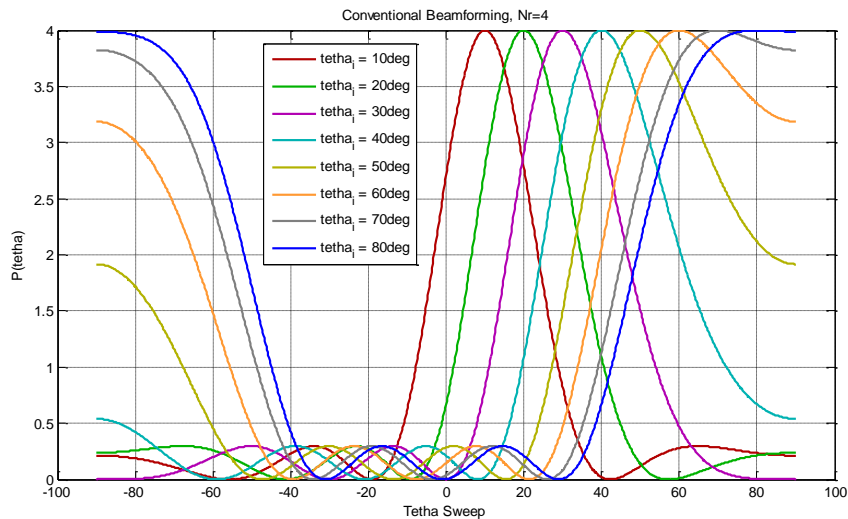


**Processing chain with Capon (MVDR) beamforming (People Counting)**

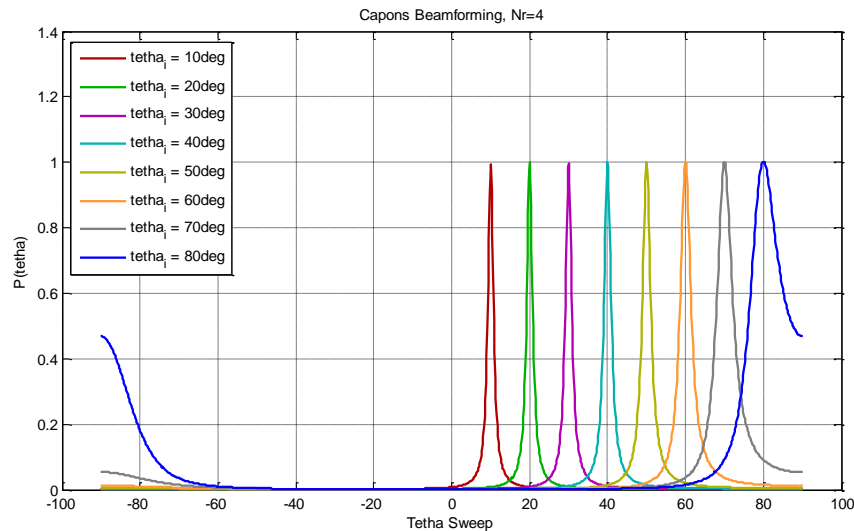
# Motivation for Using Capon Beamforming

- Example: point target at azimuth angles  $10^\circ, 20^\circ, \dots, 80^\circ$

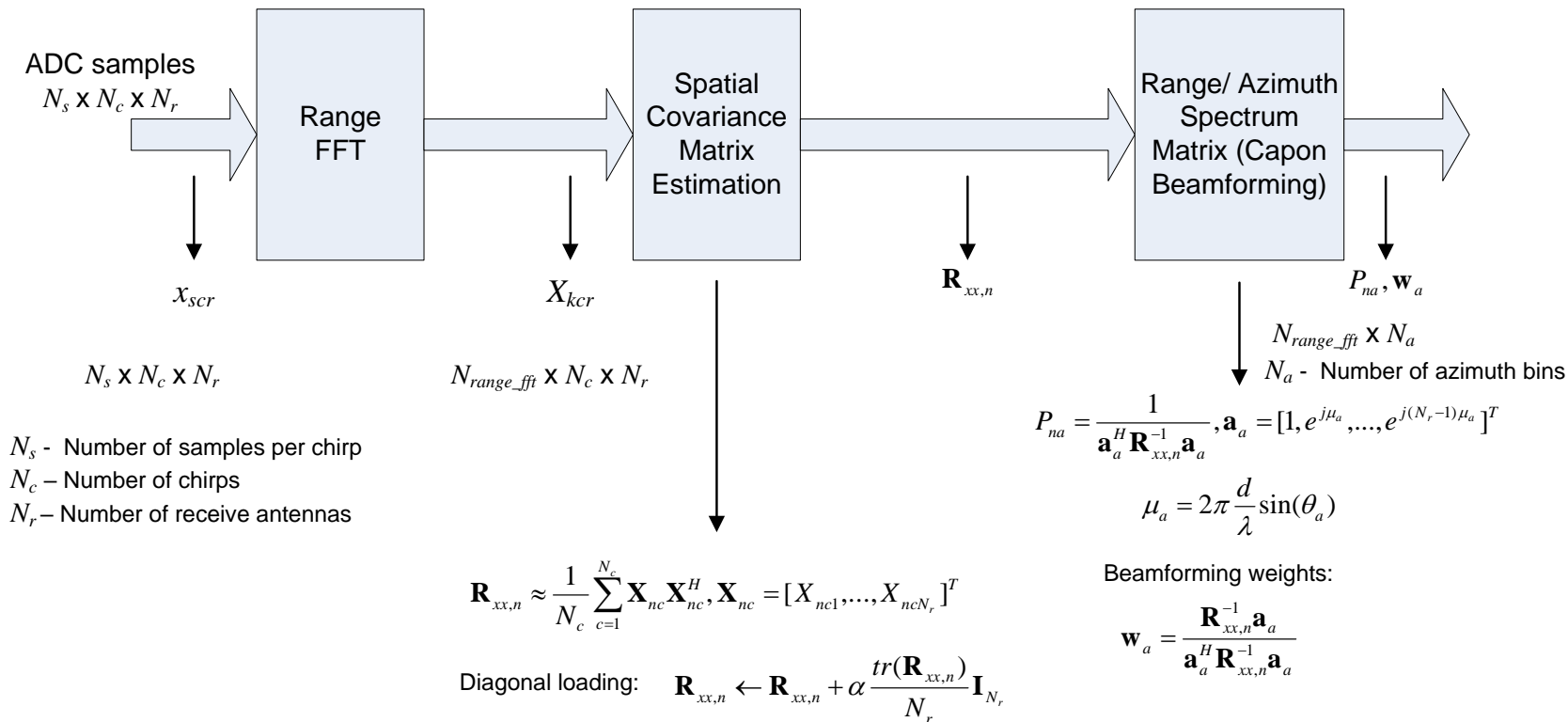
## Conventional Beamforming



## Capon Beamforming



# People Counting Processing Chain Details



# People Counting Processing Chain Details (cont.)

