

# Software Defined Radio – Design and Performance Measure

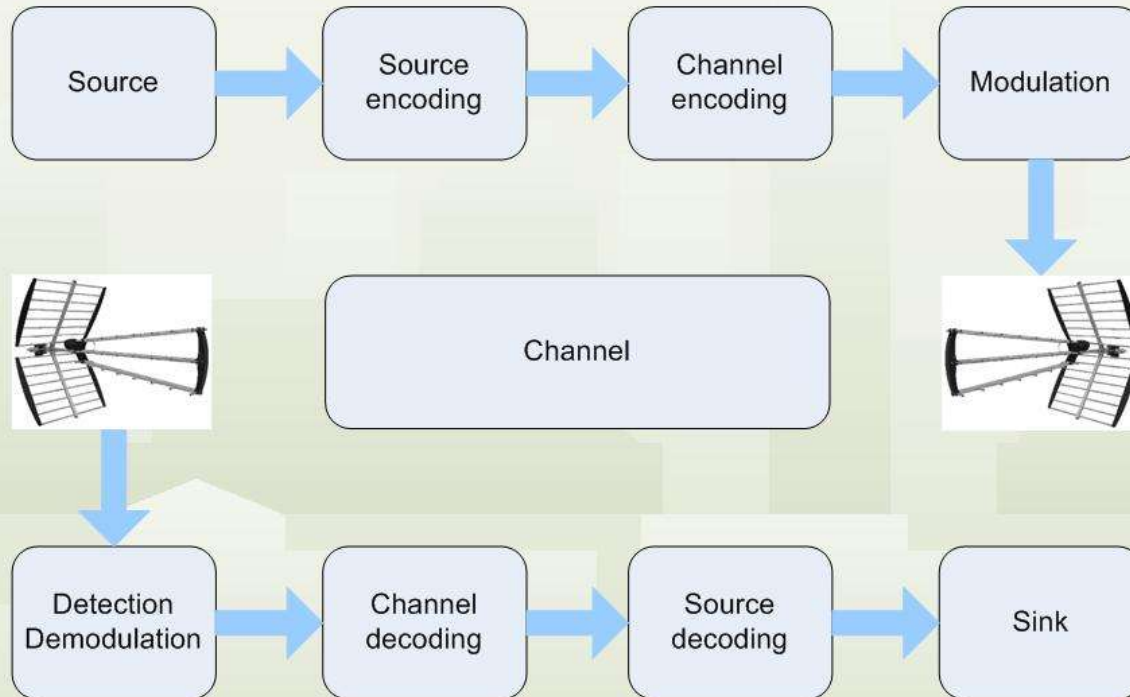
Niclas Björsell



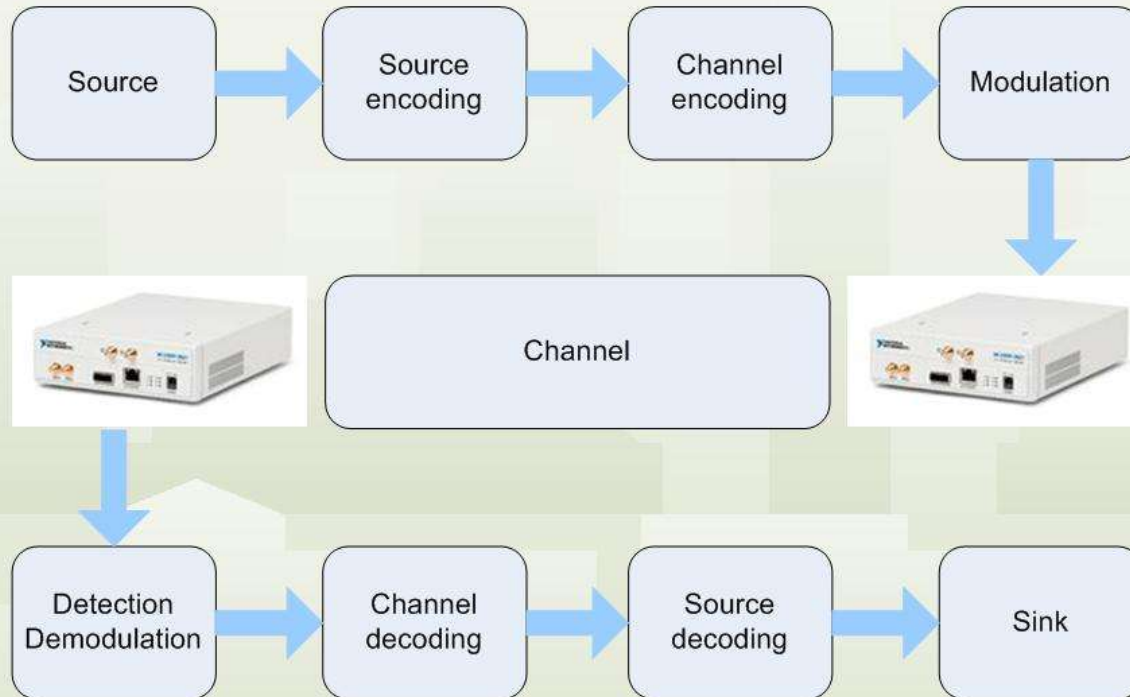




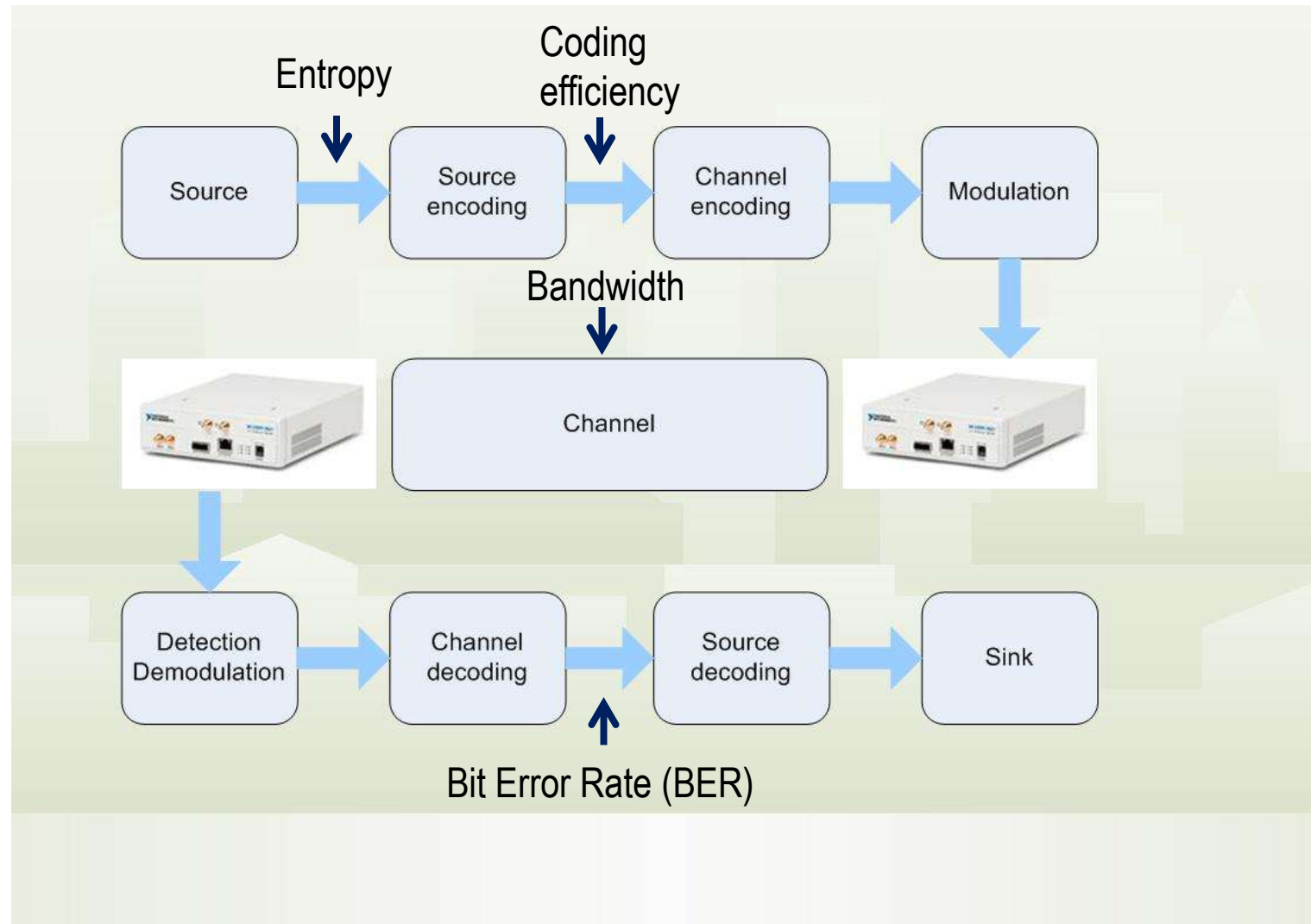
# Software Defined Radio



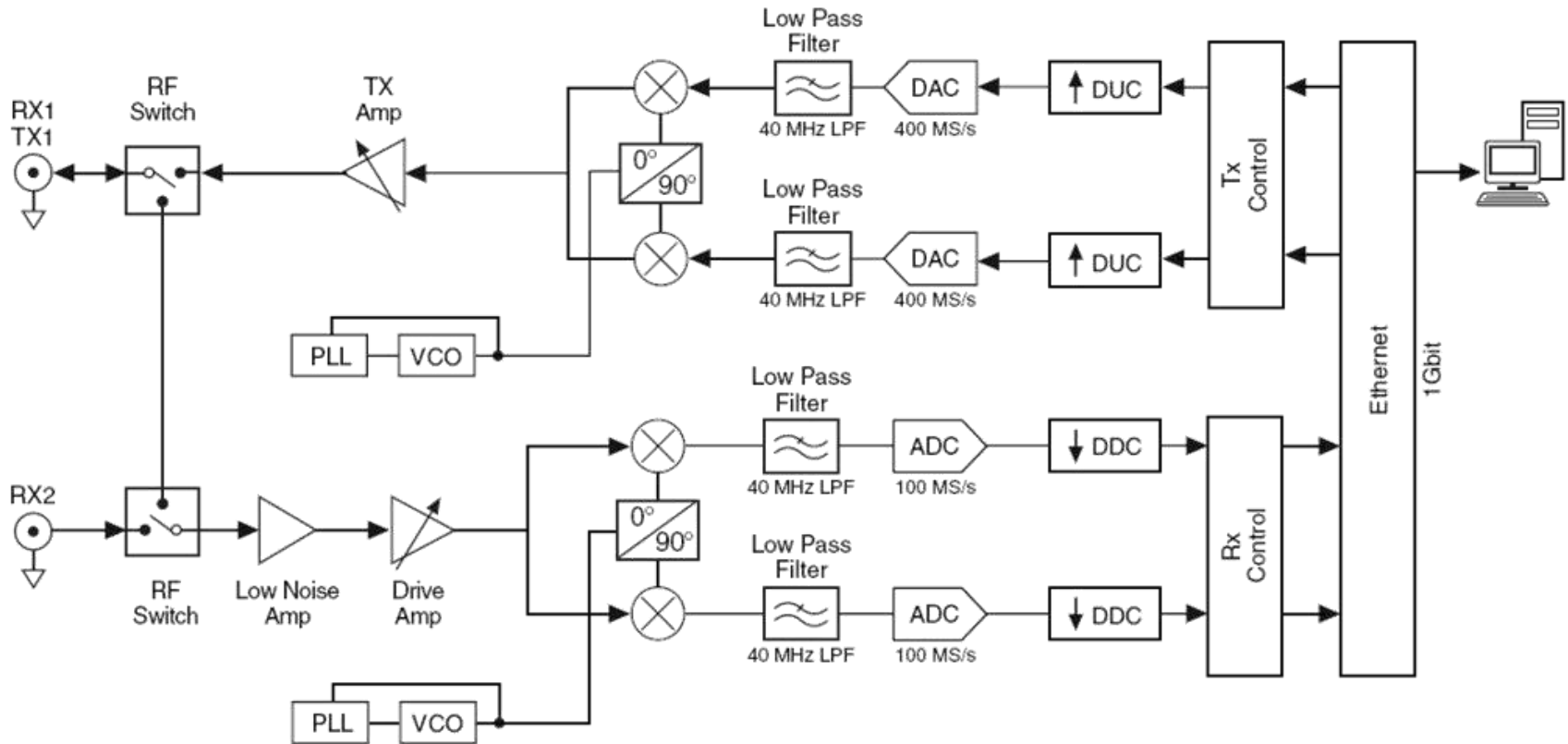
# USRP



# Performance Measures



# NI USRP-2920 Hardware Diagram



Analog RF Transceiver

Fixed Function FPGA

PC

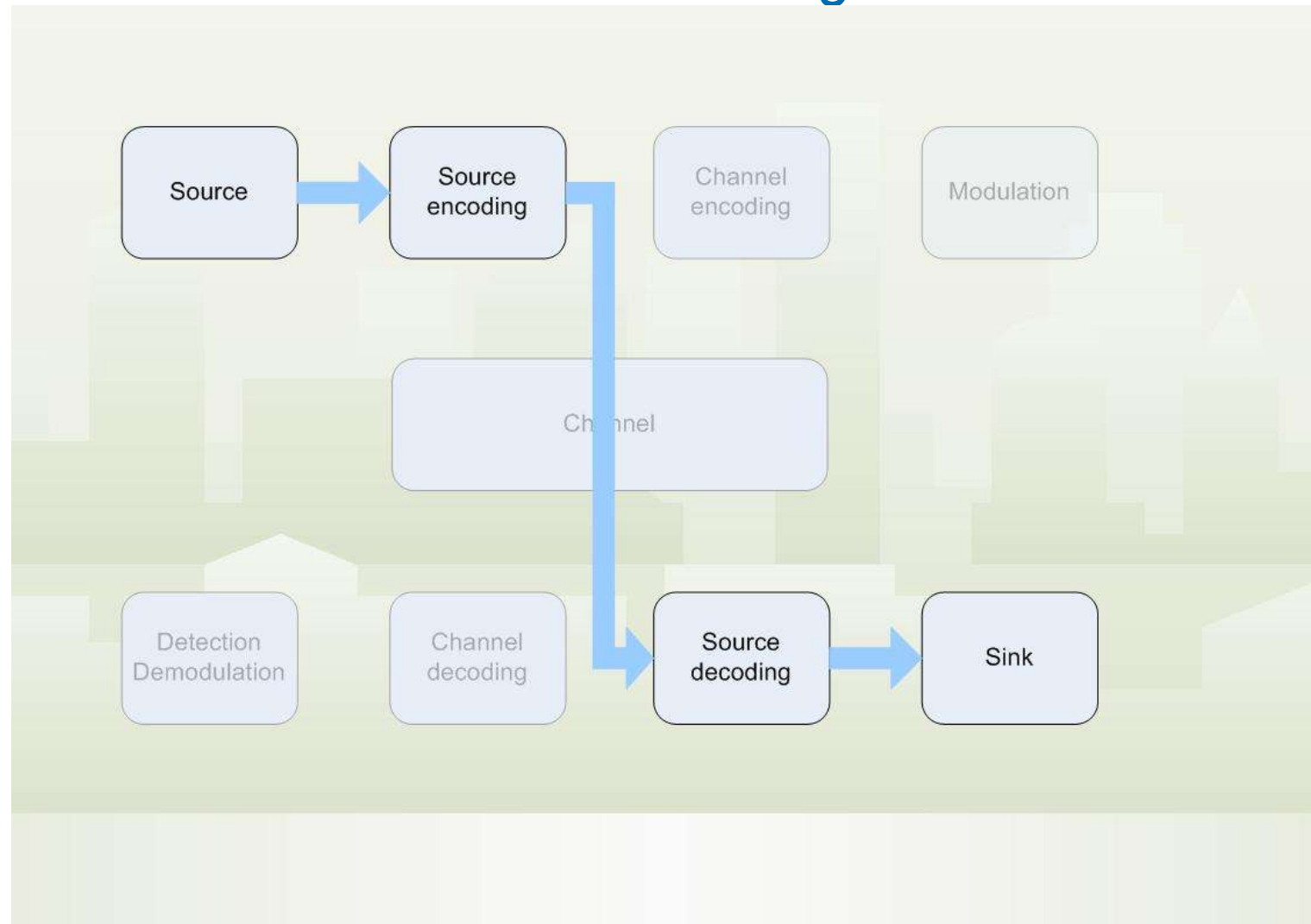
# Praktiska färdigheter

Tre inlämningsuppgifter baserade på simulering

- Källkodning
- Kanalkoding
- Modulation

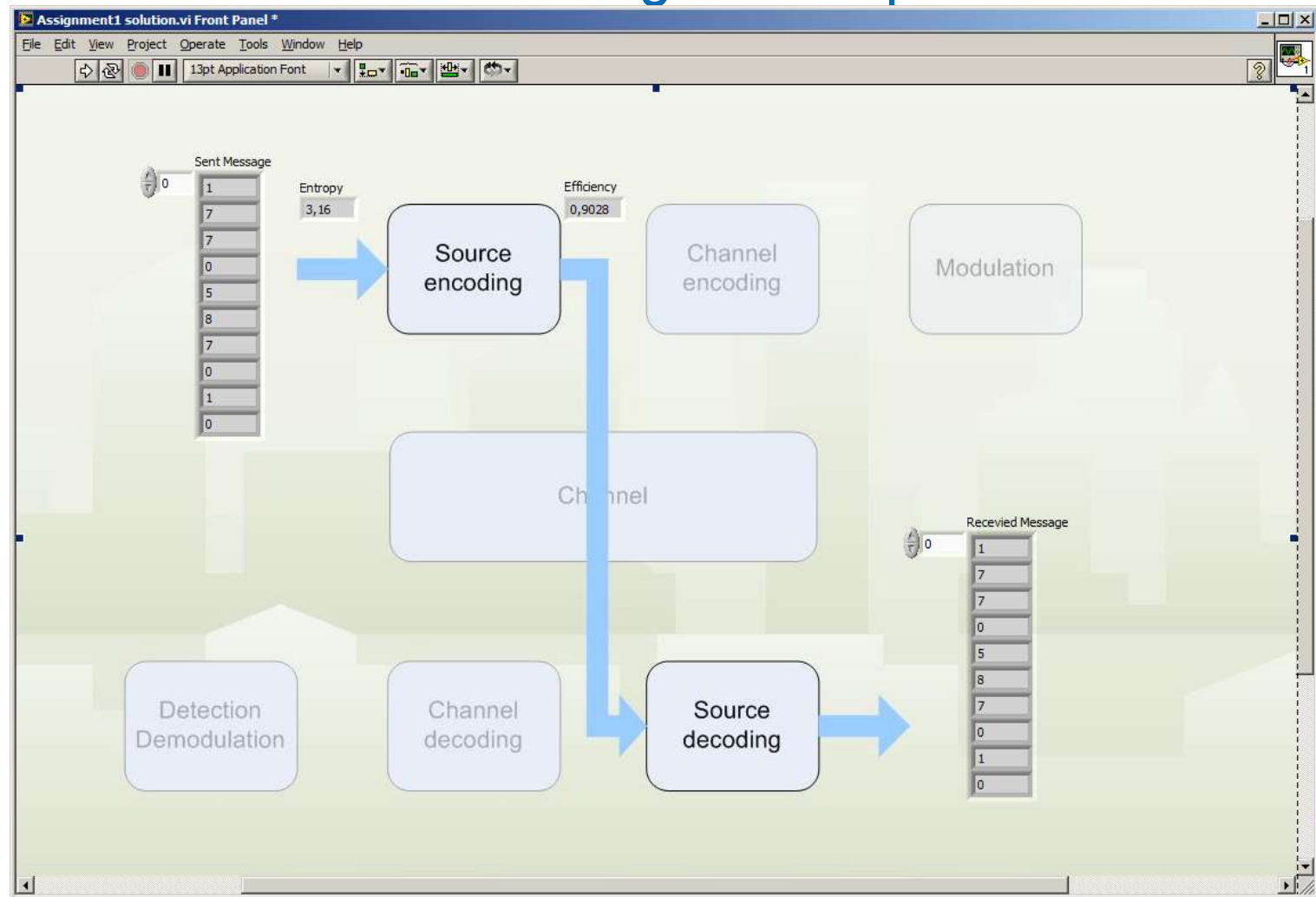
En laboration i realistisk miljö

# Source coding

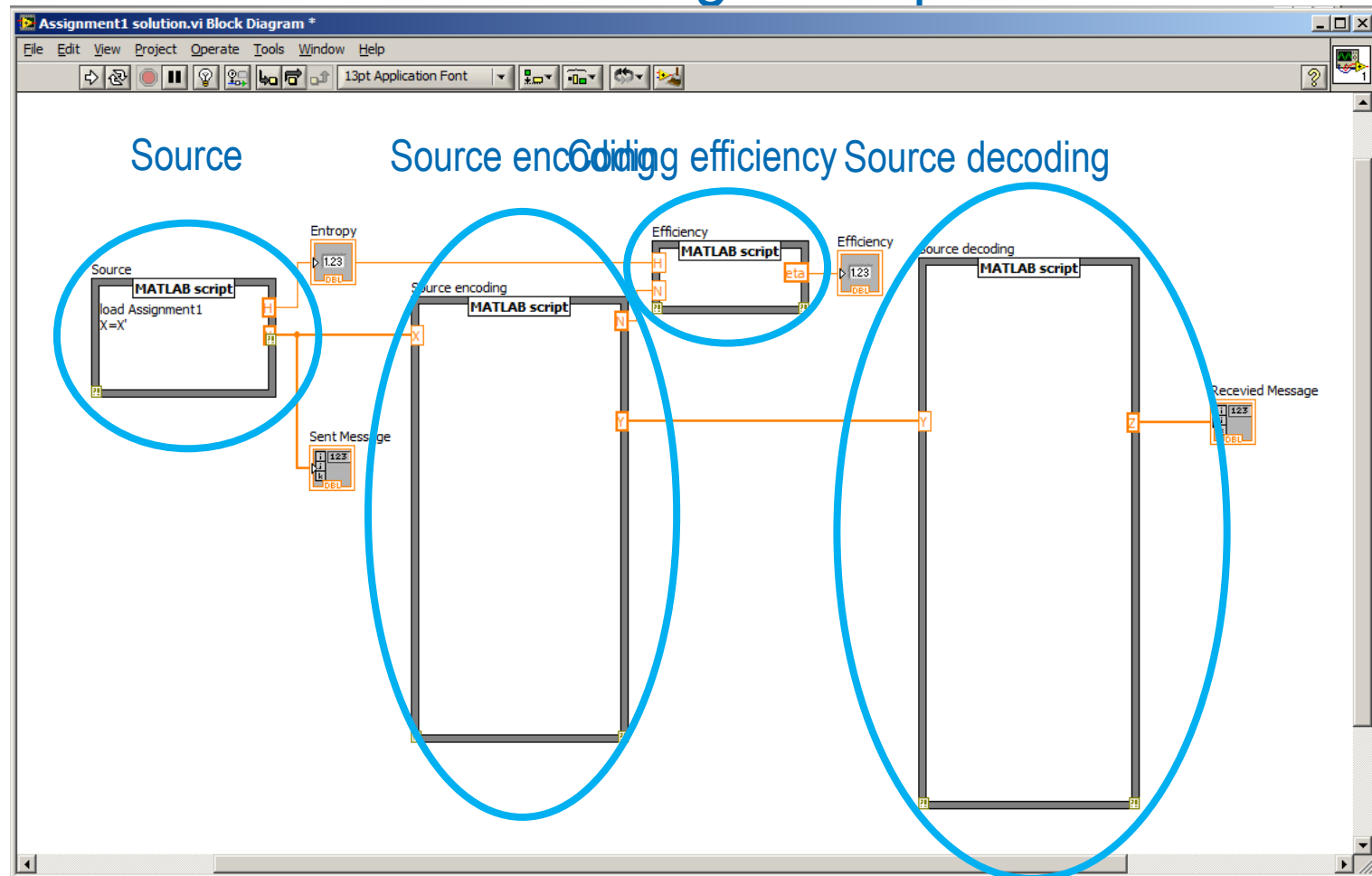




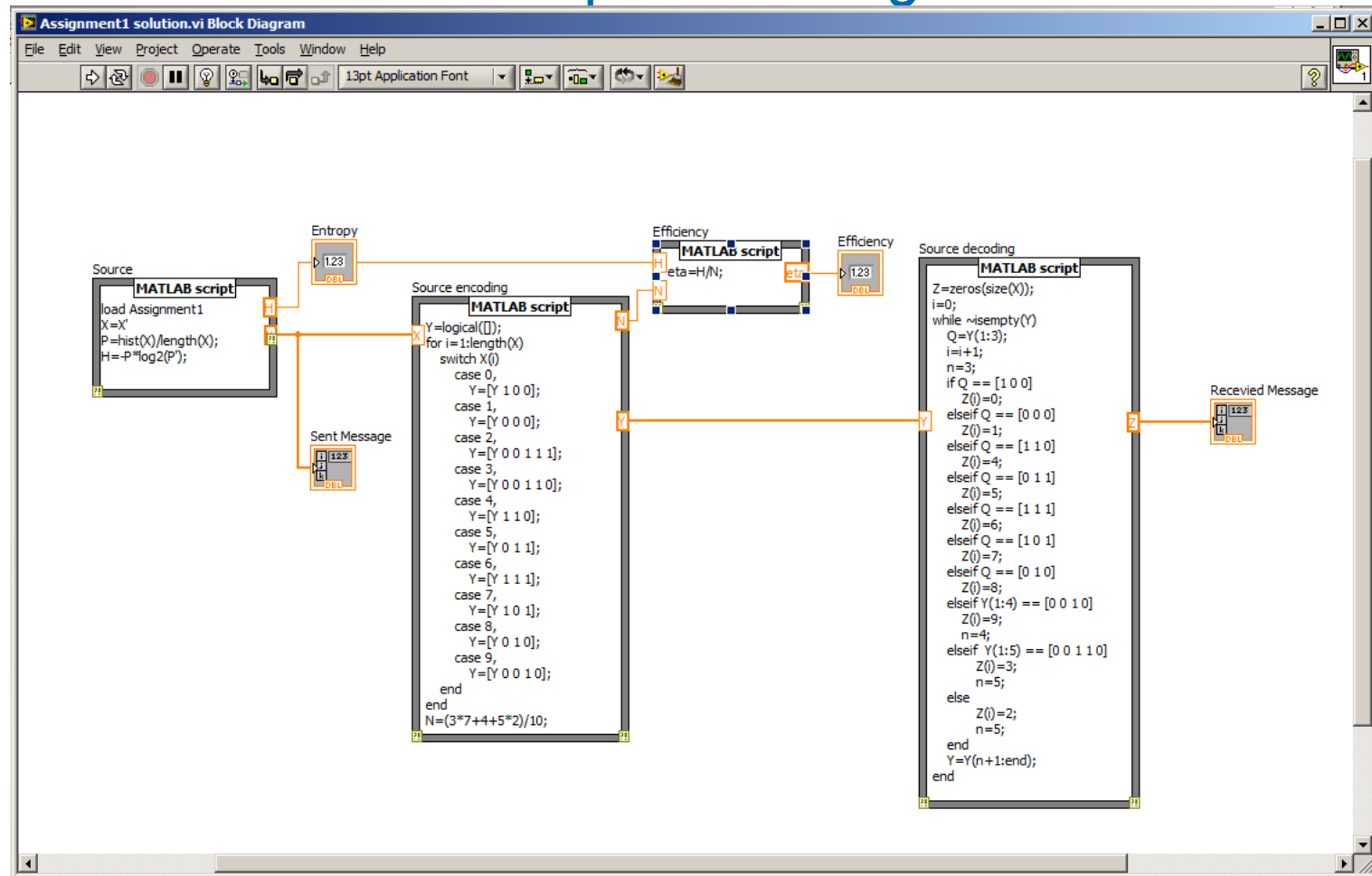
# Source coding - Front panel



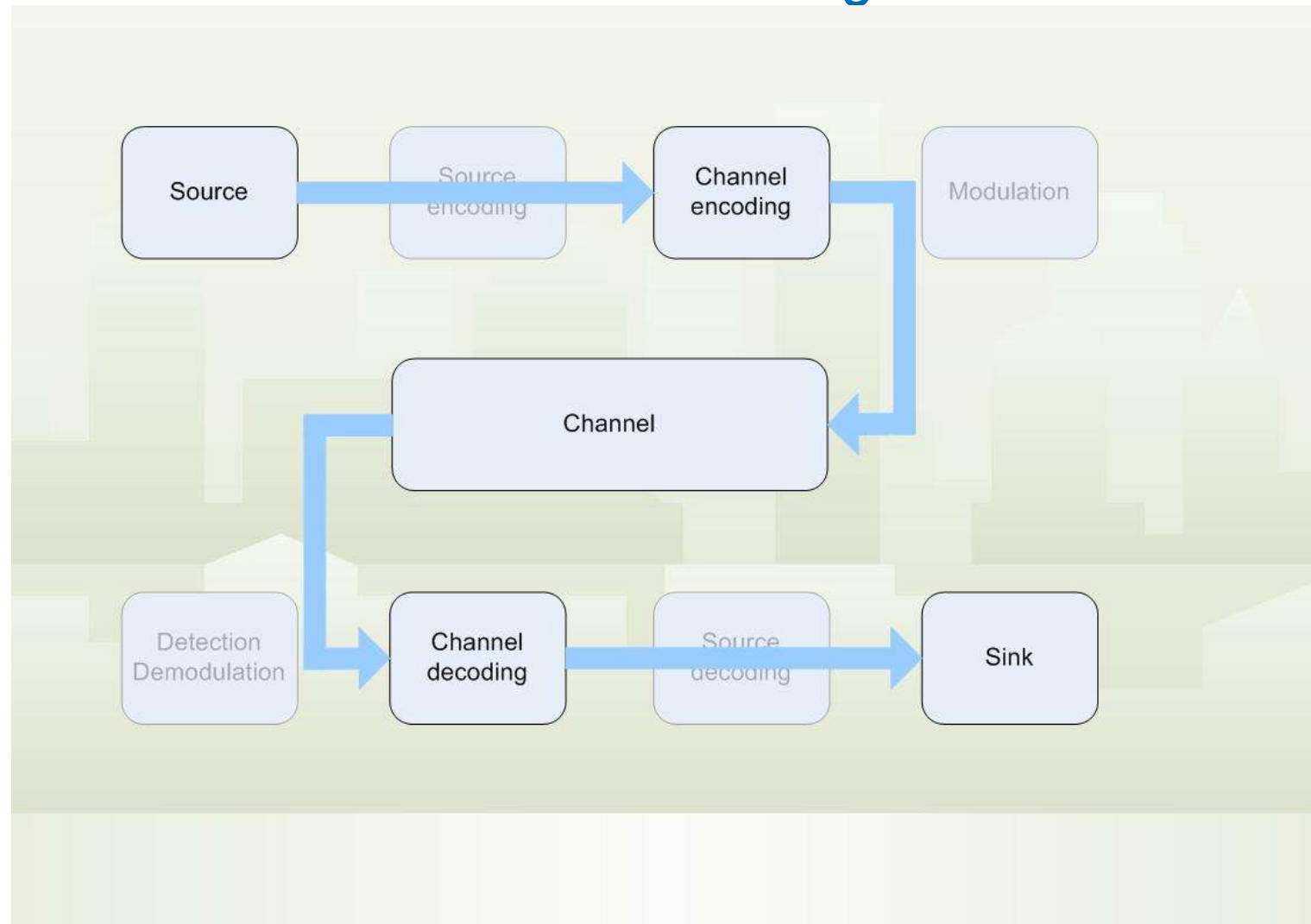
# Source coding - Template



# Komplett lösning

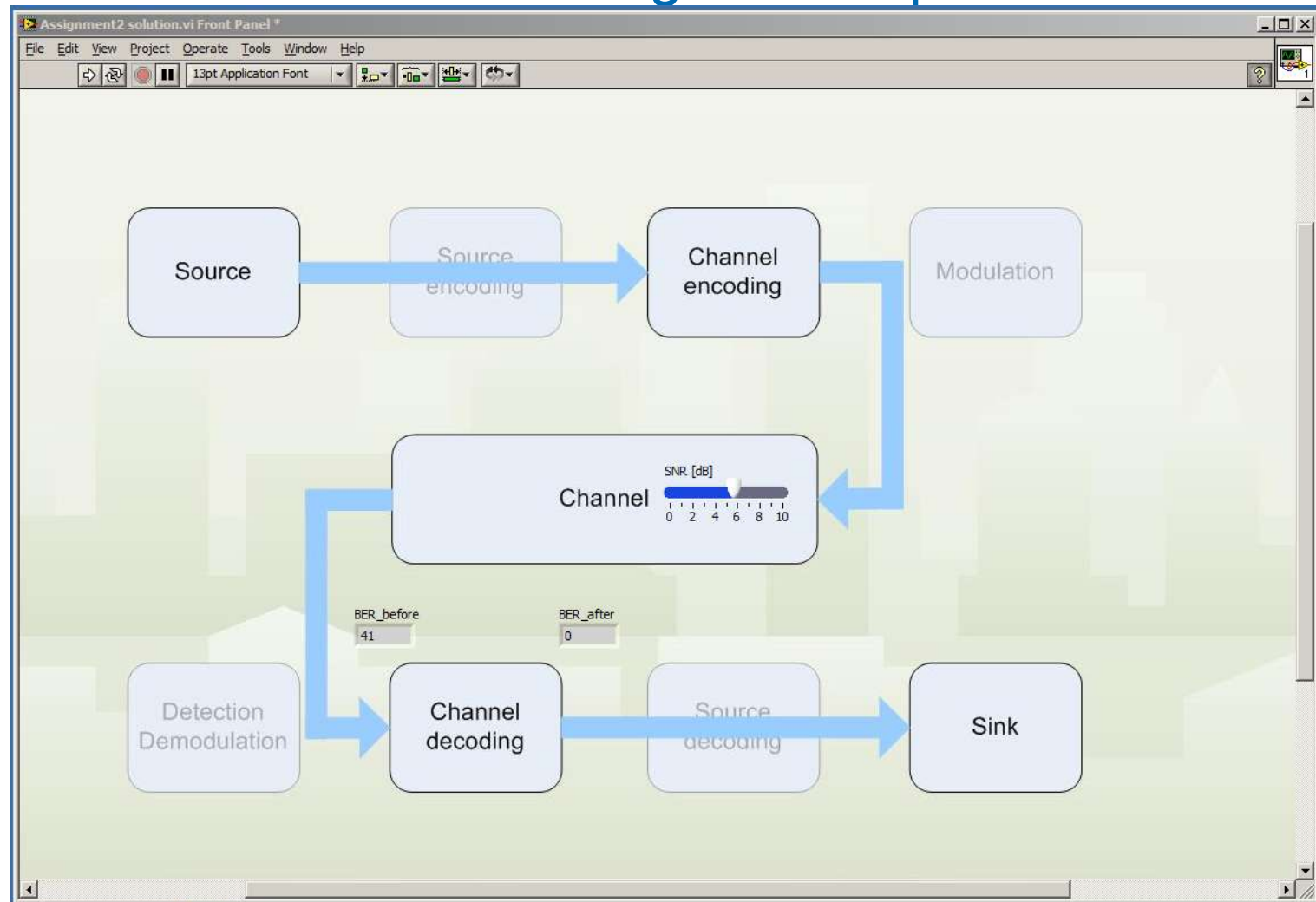


# Channel Coding

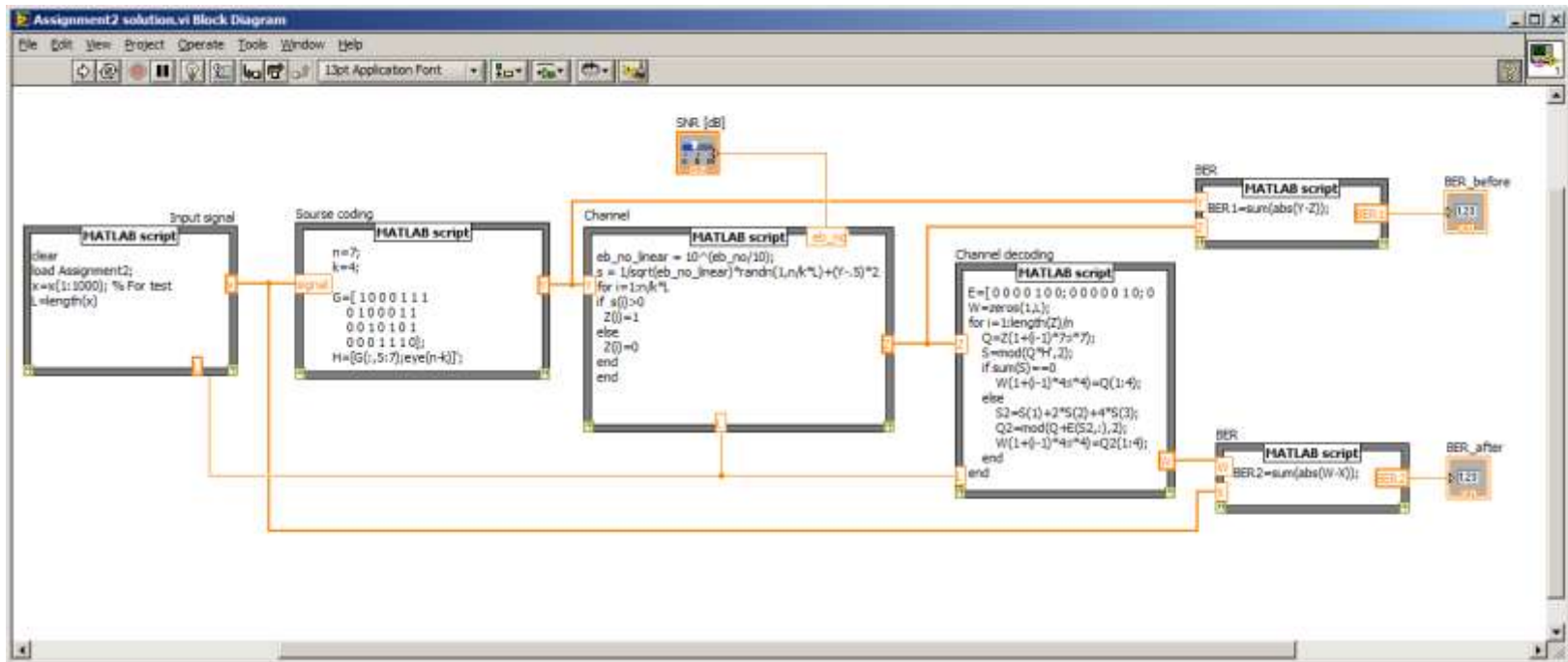




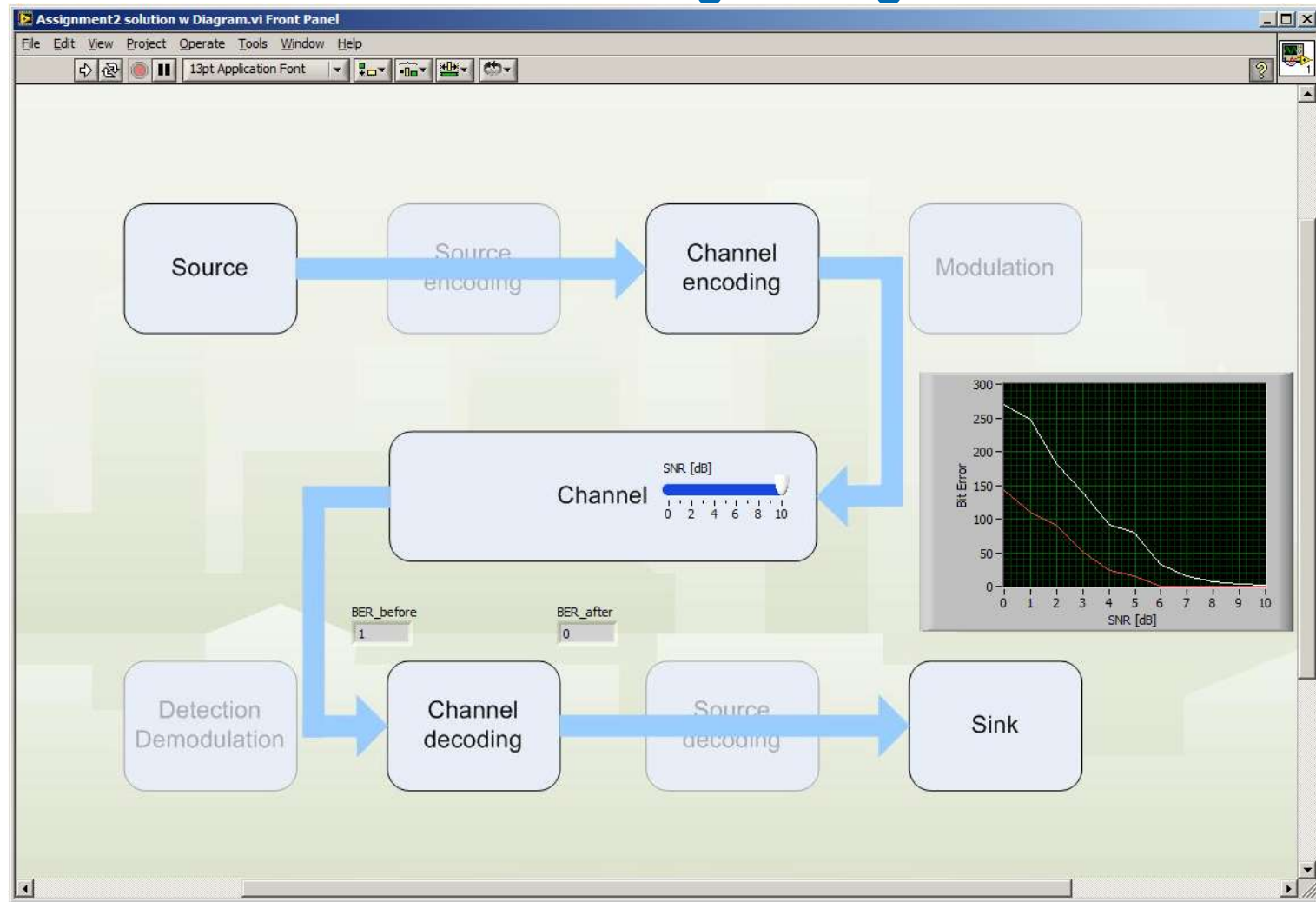
# Channel coding – Front panel



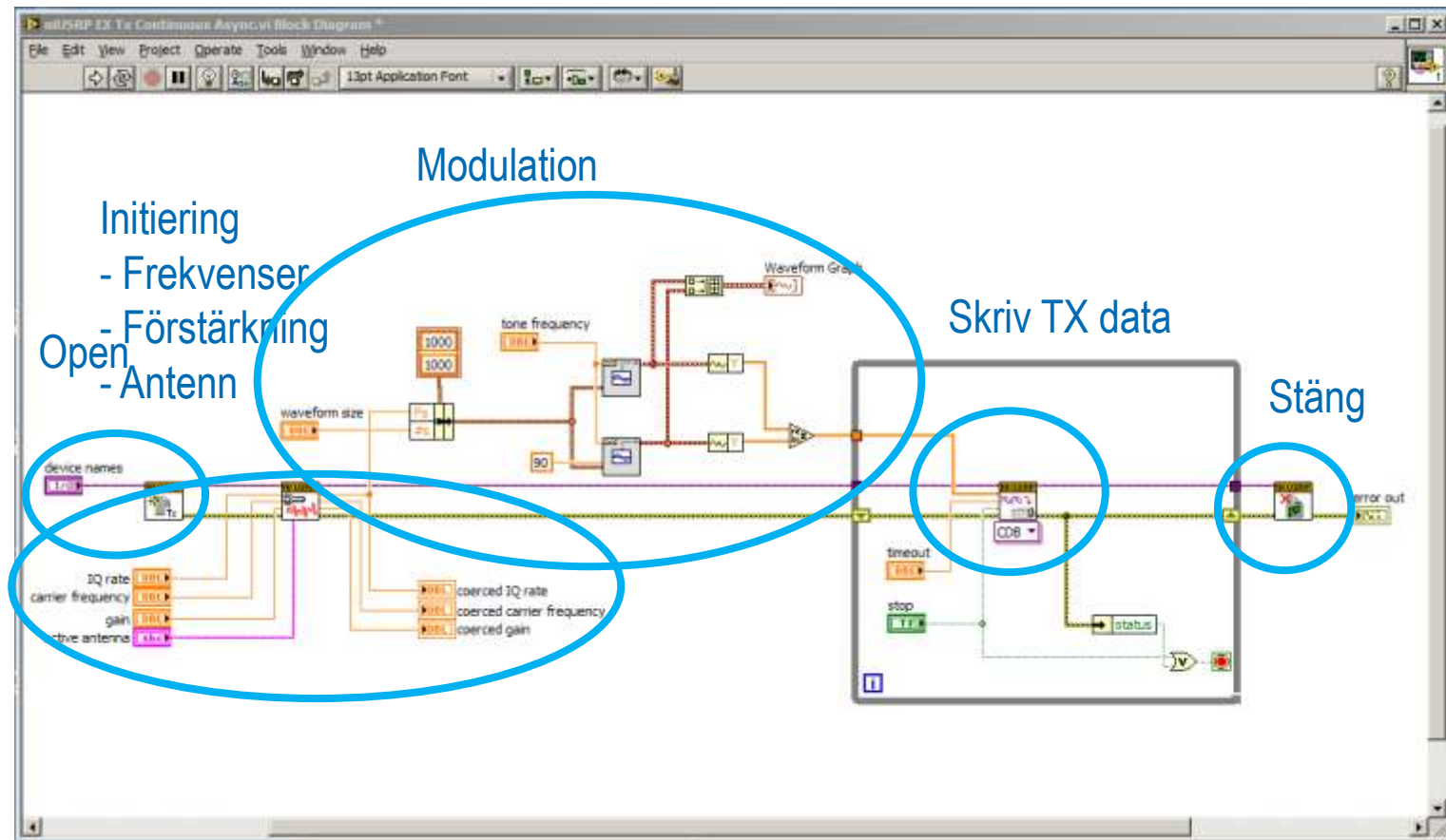
# Channel coding - Code



# Channel coding - Diagram



# LabView Sändare





# LabView Mottagare

