PROBLEM: BOUNDING BOX OBJECT DETECTION
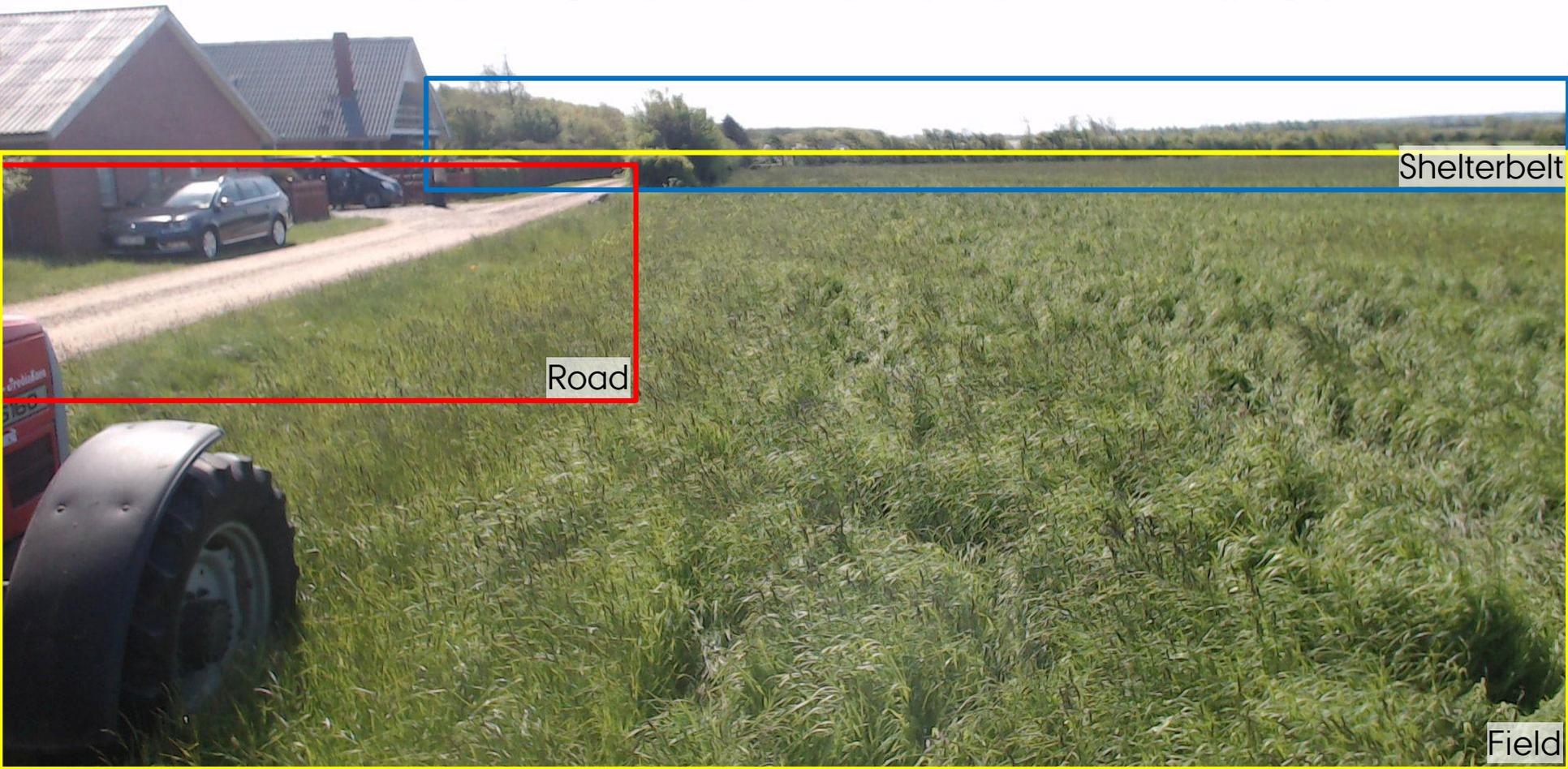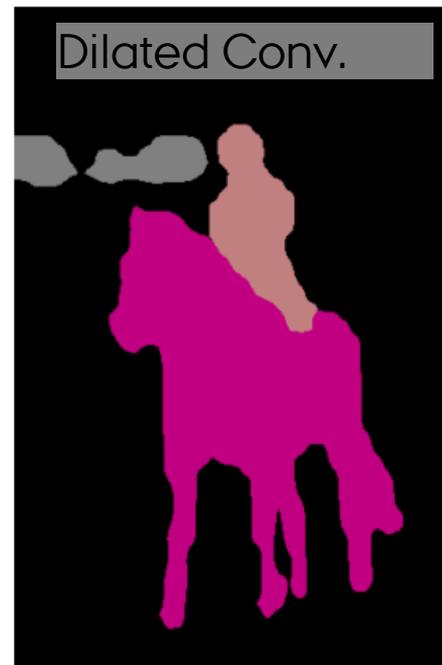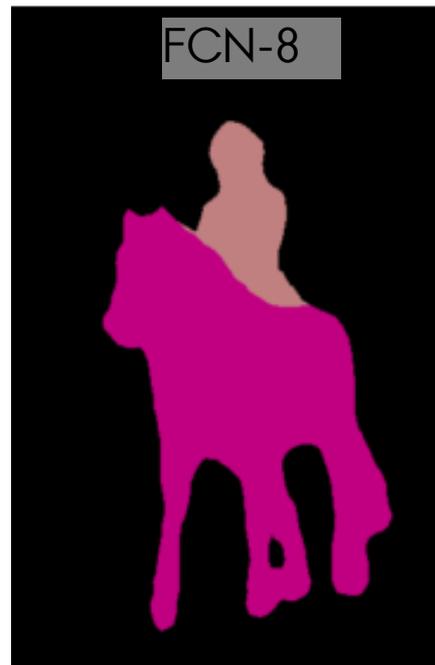
Shelterbelt

Road

Field

SEMATIC SEGMENTATION

| Input Image | Ground Truth | FCN-8 | Dilated Conv. |

Long J, Shelhamer E, Darrell T, Fully Convolutional Networks for Semantic Segmentation

▶ Growing field: FCN-8 (2013), CRF as RNN (2014), CNN & CRF (2015), Dilated Conv. (2016)

PROBLEM 2: DATA

► In "Fully Convolutional Networks for SS": Trains a model for the 59 most frequent classes.

59 classes ⟶ Remapping ⟶ 11 agriculture specific classes