ARCHITECTURE U-NET **UPSAMPLING2D** 2X2 *1,*2,*4,*8 **SKIP CONNECTIONS** CONV2D CONCATENATE BASE_FILTER 3X3 CONV2D **RELU** BASE_FILTER * 16 CONV2D 3X3 BASE_FILTER CONV2D **RELU** 3X3 CONV2D 11 CLASSES 512×512×3 BASE_FILTER **RELU** SOFTMAX 3X3 CONV2D **RELU** BASE_FILTER * 16 3X3 CONV2D **RELU** BASE_FILTER **MAXPOOLING2D** 3X3 2X2 **RELU**

INPUT 512×512×3

ENCODER4 LEVELS

BOTTLENECK

DECODER 4 LEVELS + SKIP OUTPUT 11 CLASSES