

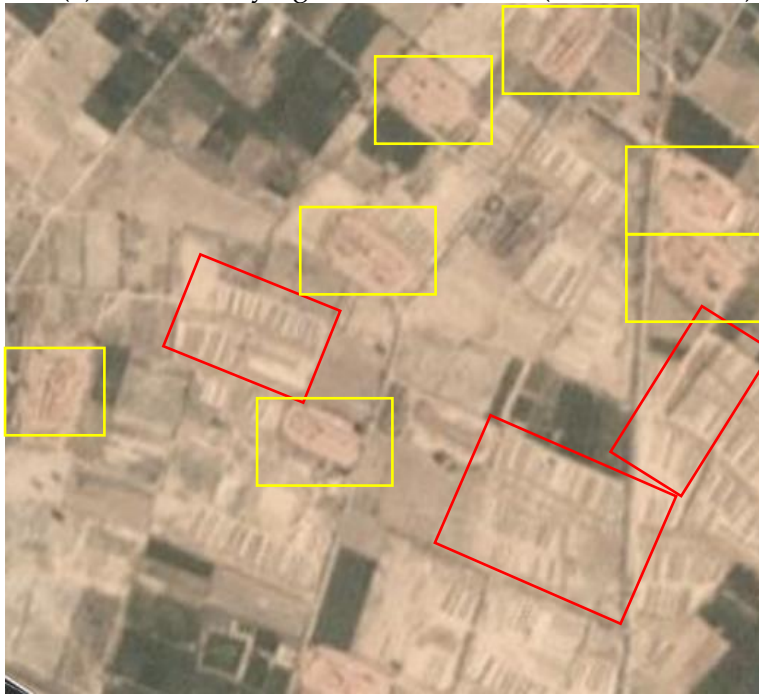
Mapping Brick Kilns to support Environmental Impact Studies around Delhi using Sentinel-2

Table S1. The modified VGG-16 architecture used for transfer learning.

	Layer	Feature Map	Size	Kernel Size	Stride	Activation
Input 1	Image	1	224x224x3	-	-	
	2x convolution	64	224x224x64	3x3	1	ReLU
	Max pooling	64	112x112x64	3x3	2	ReLU
3	2x convolution	128	112x112x128	3x3	1	ReLU
	Max pooling	128	56x56x128	3x3	2	ReLU
	2x convolution	256	56x56x256	3x3	1	ReLU
5	Max pooling	256	28x28x256	3x3	2	ReLU
	3x convolution	512	28x28x512	3x3	1	ReLU
	Max pooling	512	14x14x512	3x3	2	ReLU
7	3x convolution	512	14x14x512	3x3	1	ReLU
	Max pooling	512	7x7x512	3x3	2	ReLU
10	3x convolution	512	7x7x512	3x3	2	ReLU
	Max pooling	-	25088	-	-	ReLU
	Fully connected	-	4096	-	-	ReLU
13	Fully connected	-	4096	-	-	ReLU
	Fully connected	-	512	-	-	ReLU
	Fully connected	-	512	-	-	ReLU
15	Fully connected	-	512	-	-	ReLU
	Fully connected	-	4	-	-	Softmax
	Fully connected	-	4	-	-	Softmax



(a) Rows of drying bricks are absent (25 March, 2017)



(b) Rows of drying bricks are present (26 February, 2018)

Figure S1. (a) Absence or (b) presence of rows of clay bricks often found drying outside brick kilns informs the status of brick kiln operation. Manually annotated rows of drying bricks are shown in red box while brick kilns are marked with yellow box. The base image is PlanetScope 3 meter resolution visible band from “Planet Labs”. Coordinates of the image center are 28° 46’ 05”N, 77° 21’ 26”E.