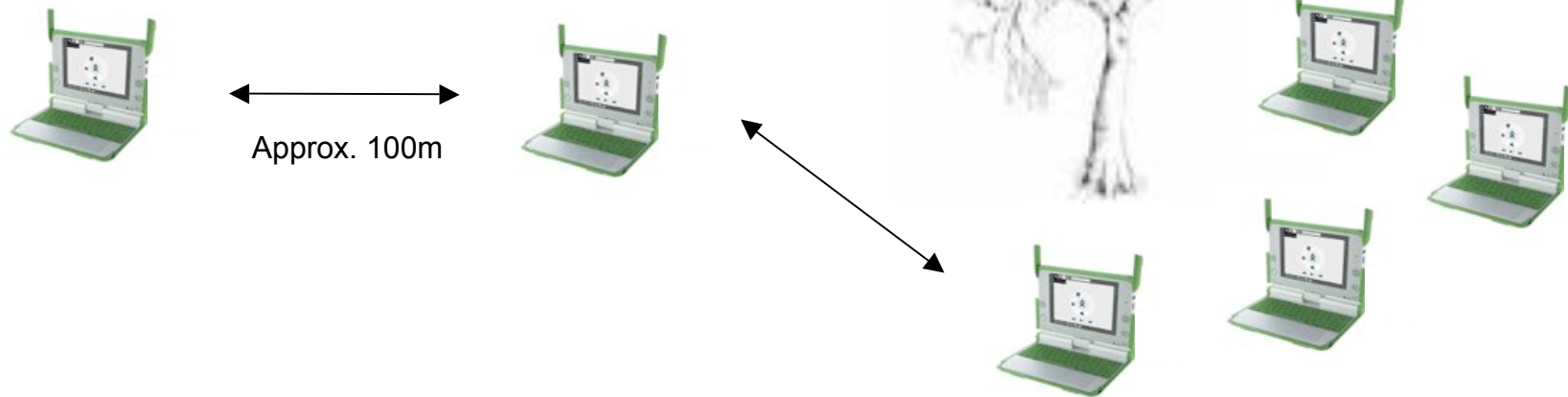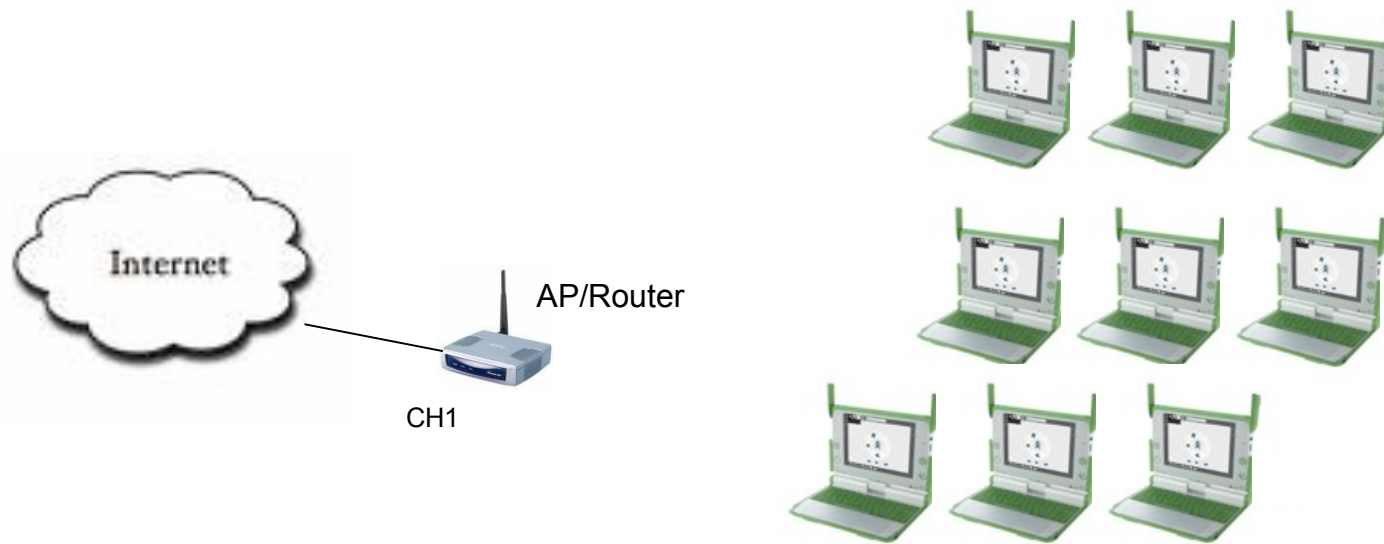# XO under a tree

Up to 10 laptops per mesh
channel (3 channels) can
collaborate with no wireless
infrastructure

Approx. 100m

Maximum 30 laptops, 3
separate 'groups' or
channels
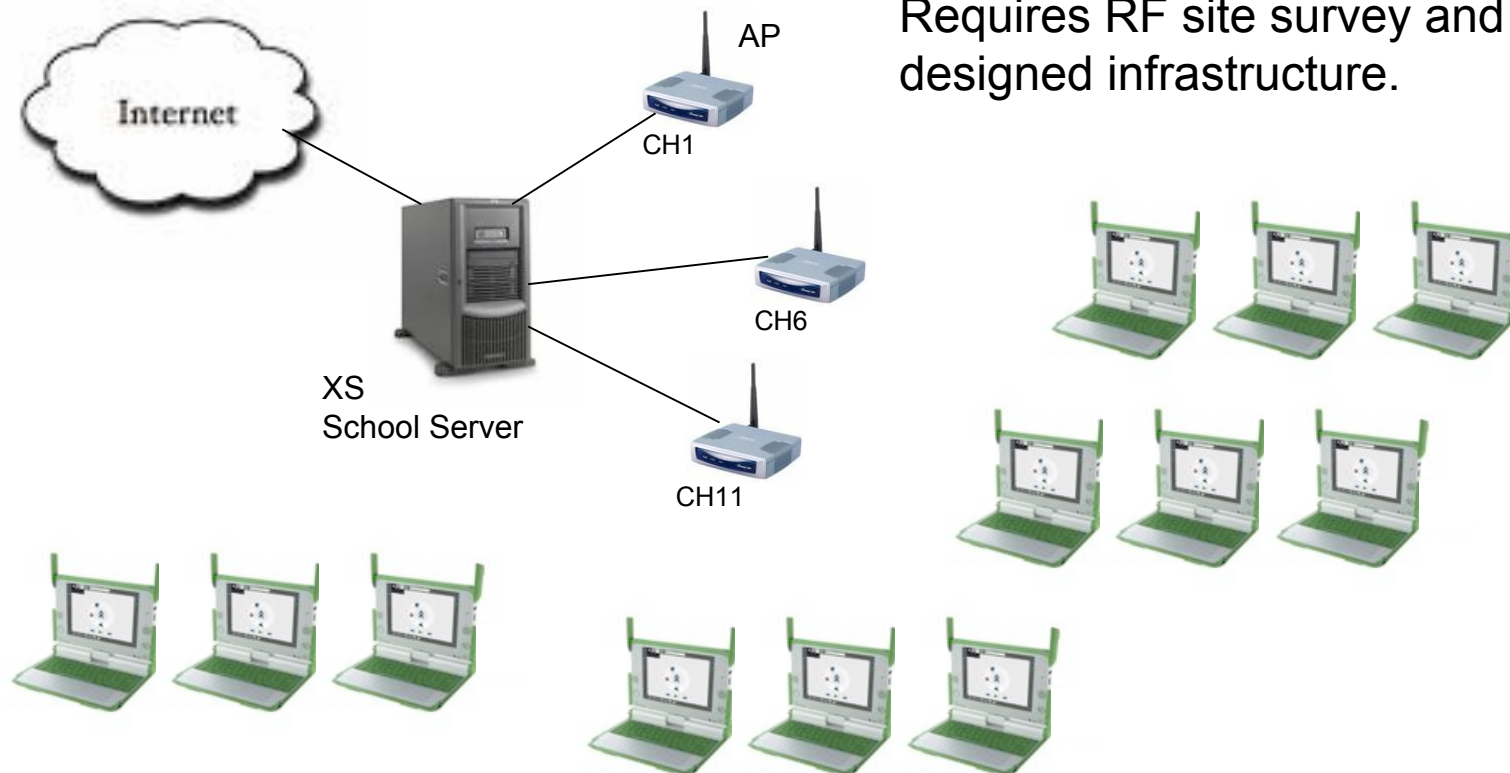
XO with AP

Internet

AP/Router

CH1

Up to 20 Laptops / Access Point

More than 60 laptops and 3 Access Points requires site survey and carefully designed infrastructure

XO with XS Server

Up to 50 laptops per AP

Up to 300 laptops per school server. Requires RF site survey and carefully designed infrastructure.

Large scale XO Deployment

Dense areas of laptops may require turning off the radio for all laptops; then turning it on only for those that need to access internet or collaborate.

Olpc techsupport will work with you on these solutions.