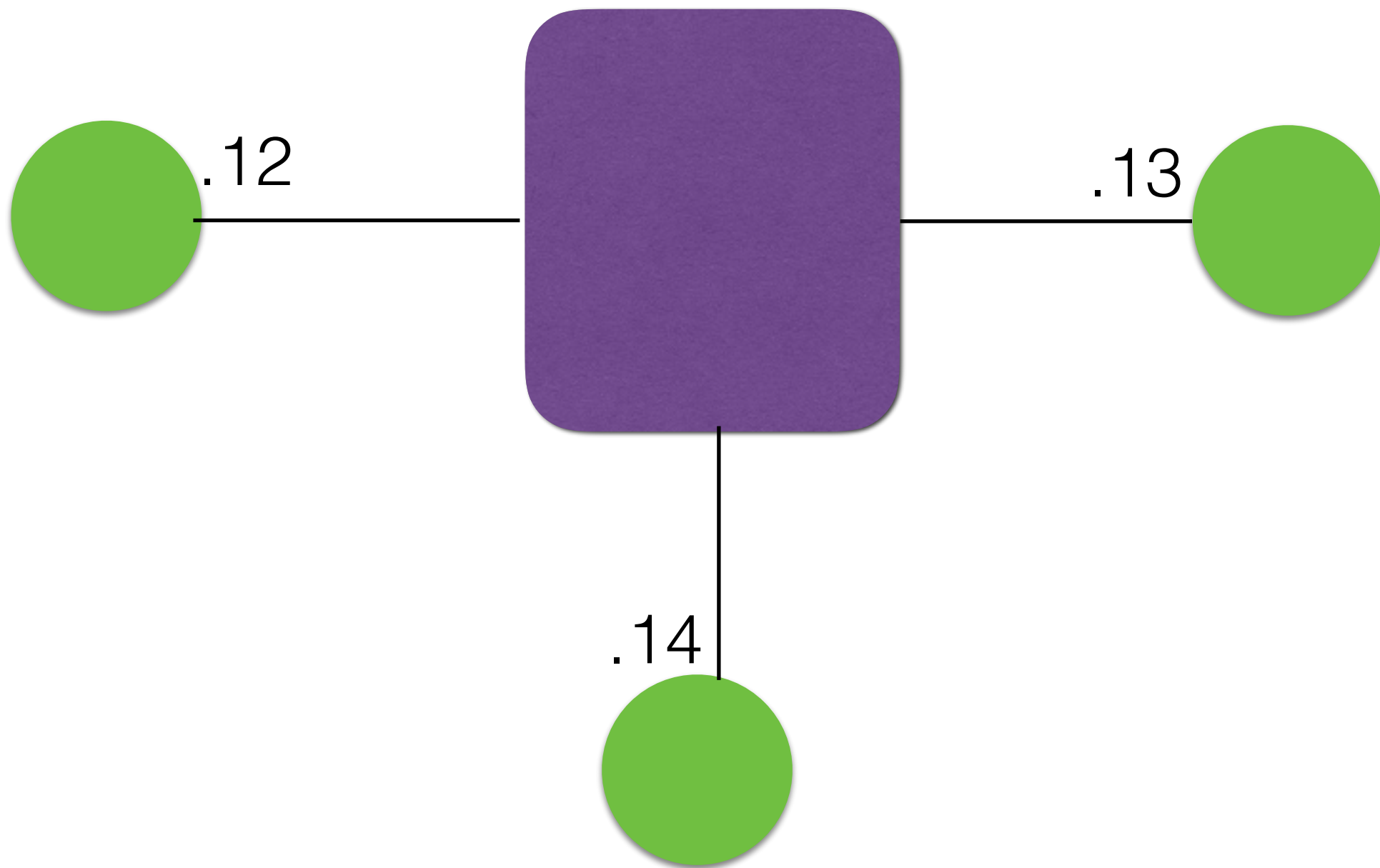


Changing from a
Layer-3 to a
Layer-2 IXP

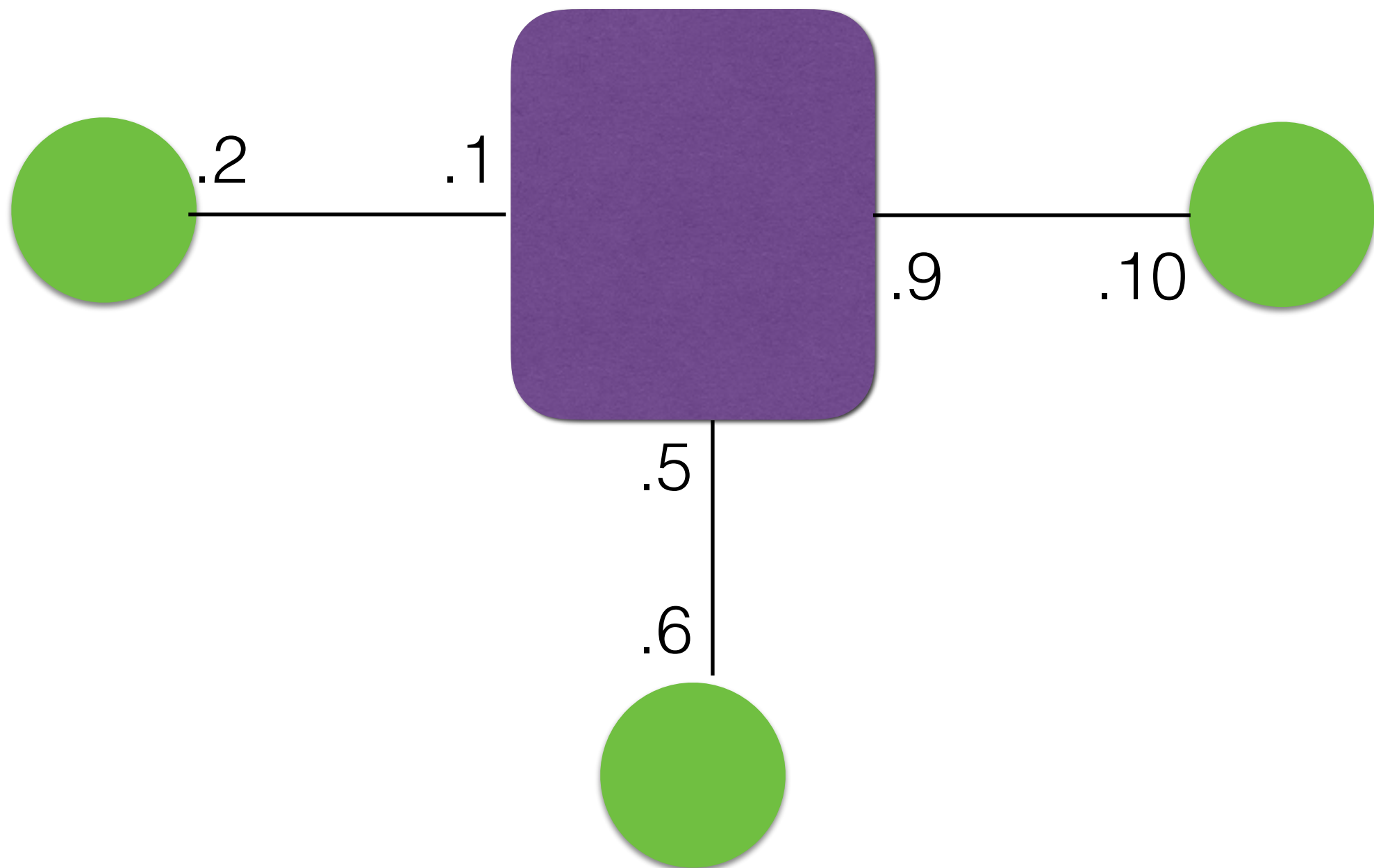
What's an IXP

- Shared Layer-2 fabric
- Generally single shared subnet (*)
- Ease of use
- Cheap technology

Single subnet



Multiple subnet



Why not L3

- It's more complicated
- It's more expensive!
- It's inefficient from a routing perspective (extra AS hop)
- Removes routing control of the operator

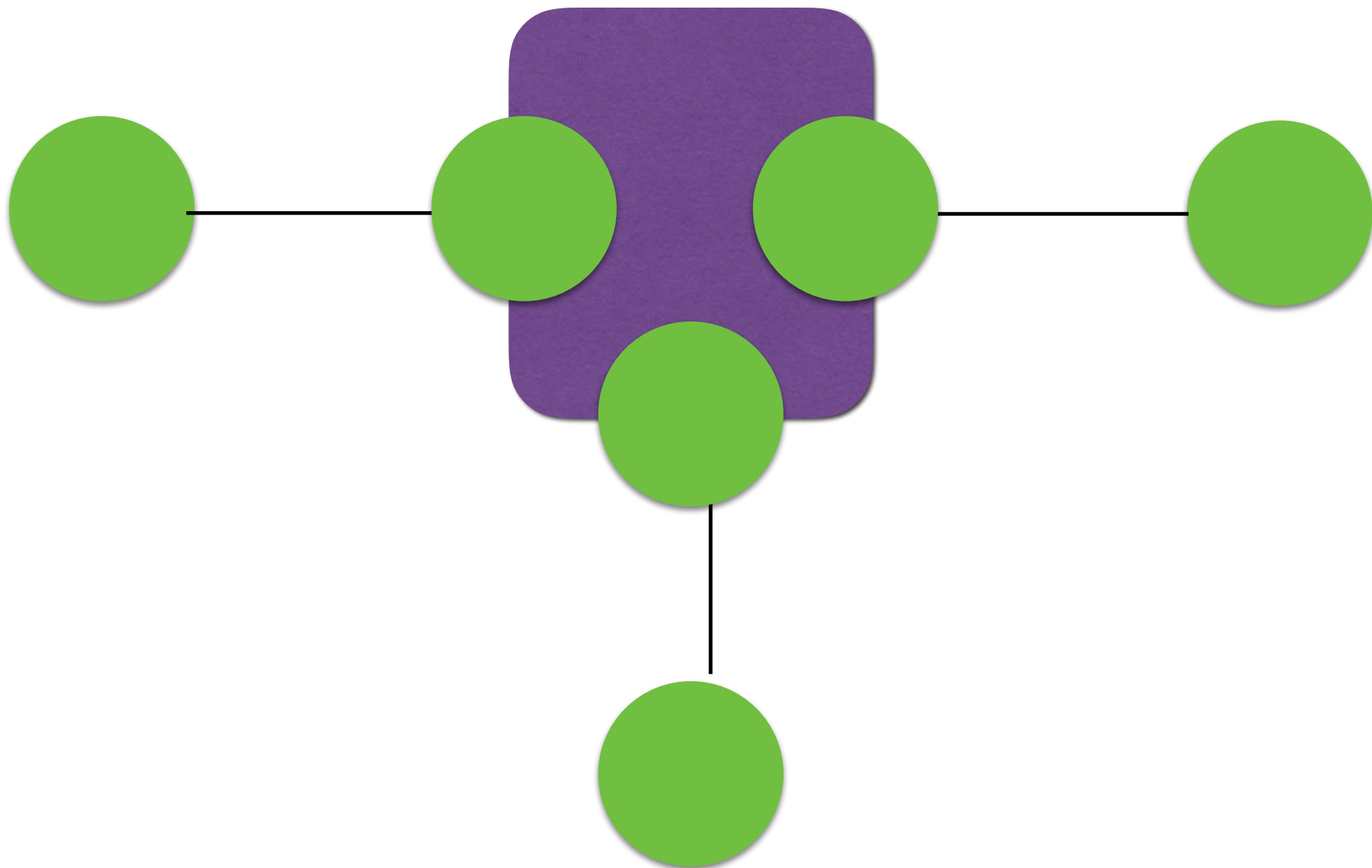


So if it's bad why do we do it ?

- Historic reasons / Bad advice
- Percentage of for-profit tenders
- Flawed view on security
- Worries about difficulty of getting bilateral peering

There were other bad
ideas too .. like iBGP
route-reflectors ...

iBGP - yuck



But what if ...

Lots of solutions to fix “assumed” problems - eg. bgp route-servers help to fix the multilateral problem.

We're not talking
about this because
we're engineers
looking for work ..

Work involved

- Renumbering process
- Re-initialisation of BGP

LEARN HOW to PEER !

