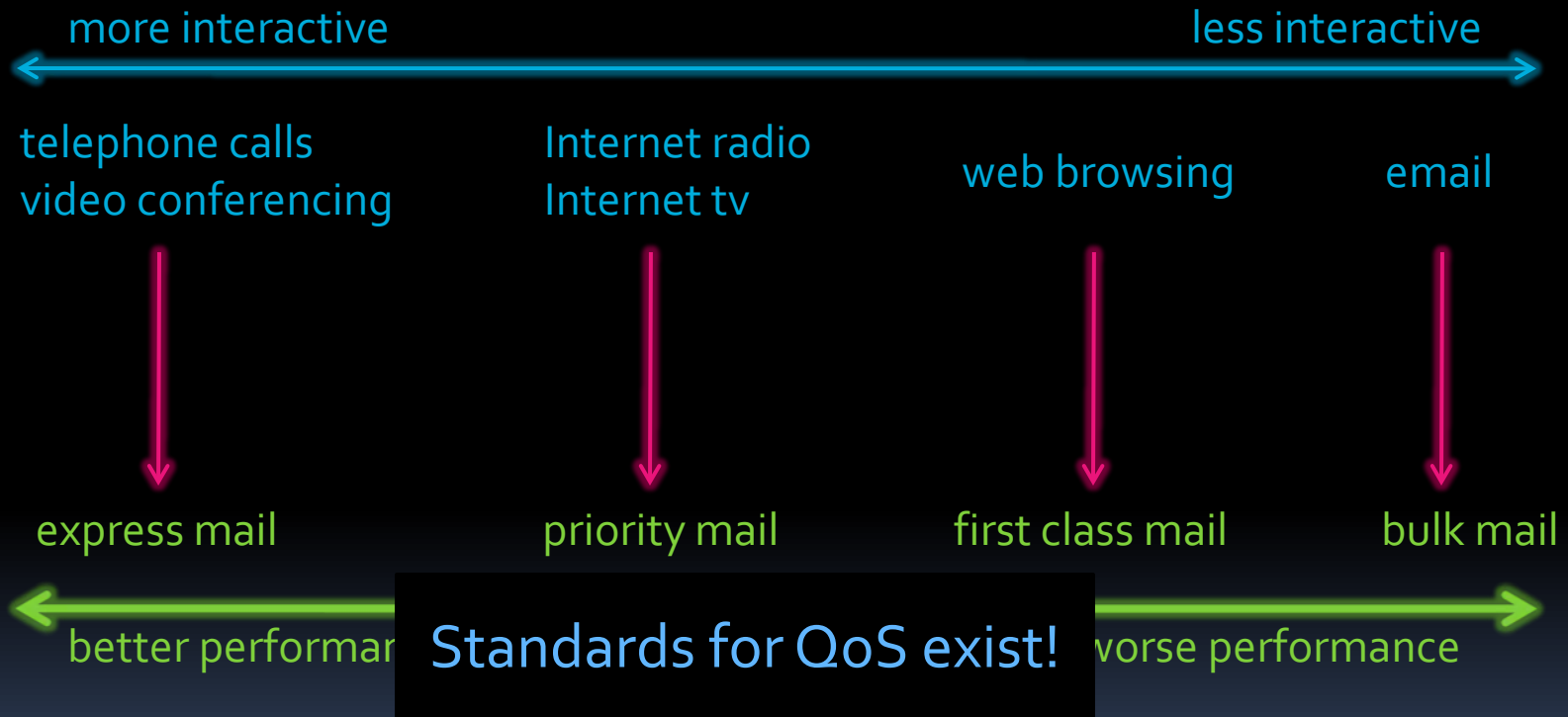


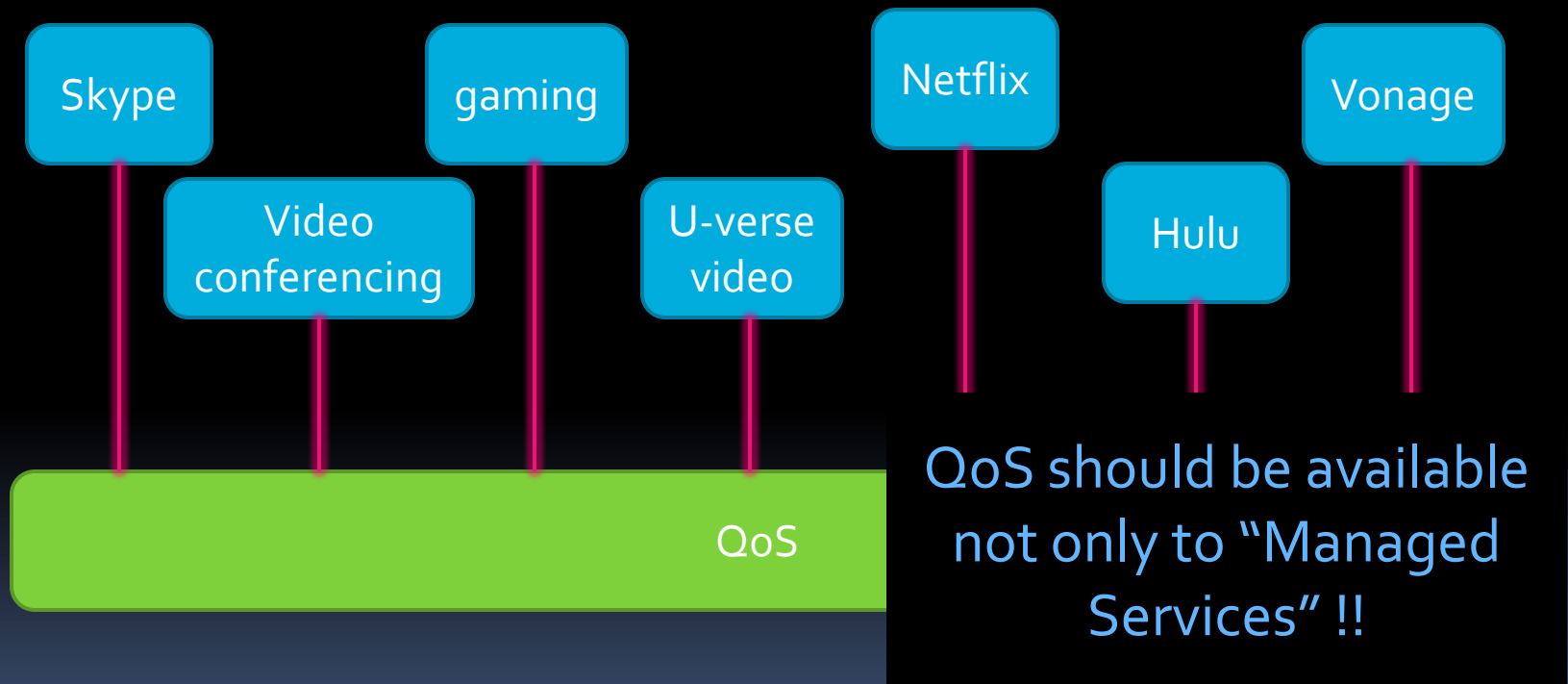
Scott Jordan
Department of Computer Science
University of California, Irvine

ITIF Panel Role of Managed Services on Broadband Networks

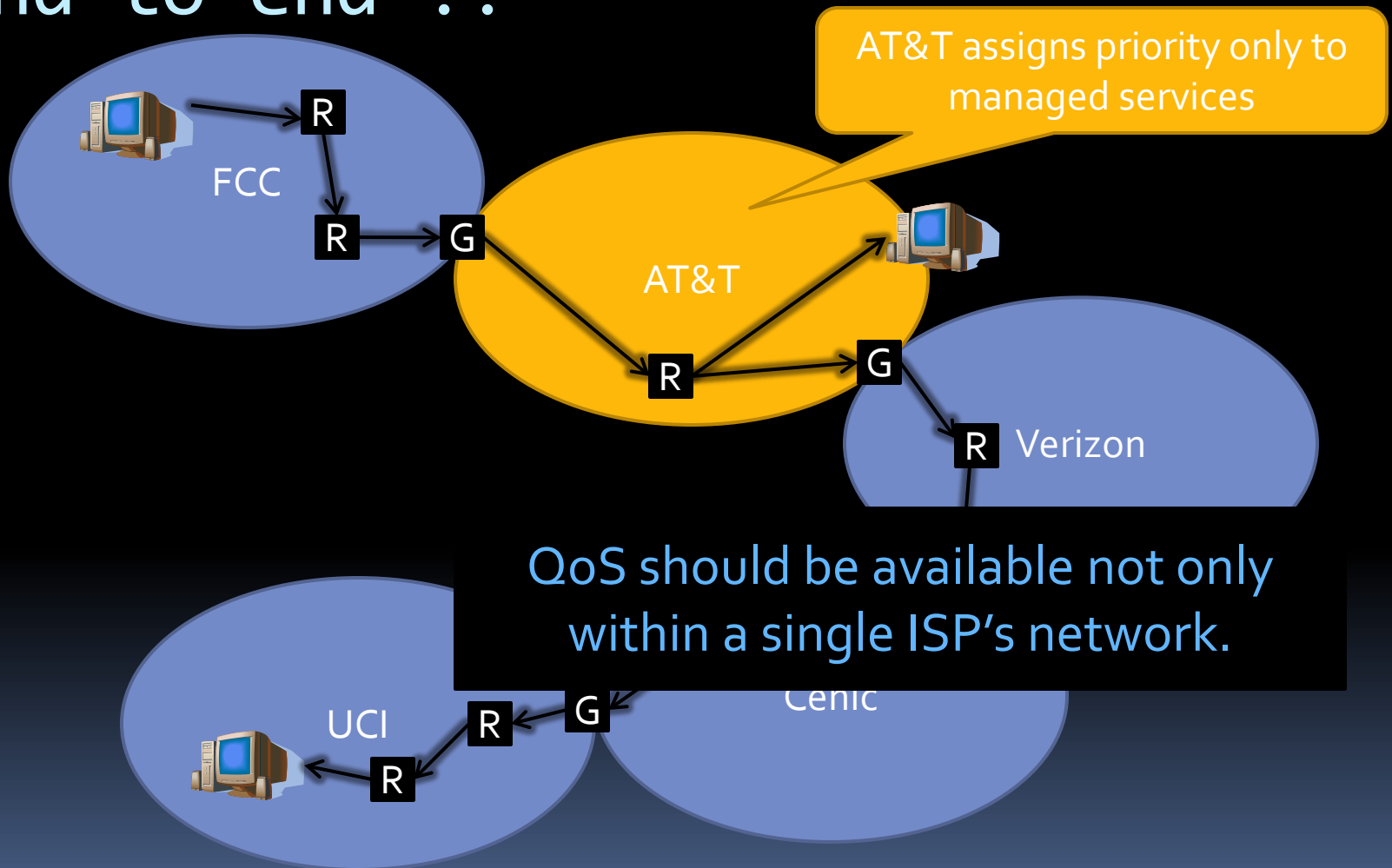
QoS can increase consumer welfare, if ...



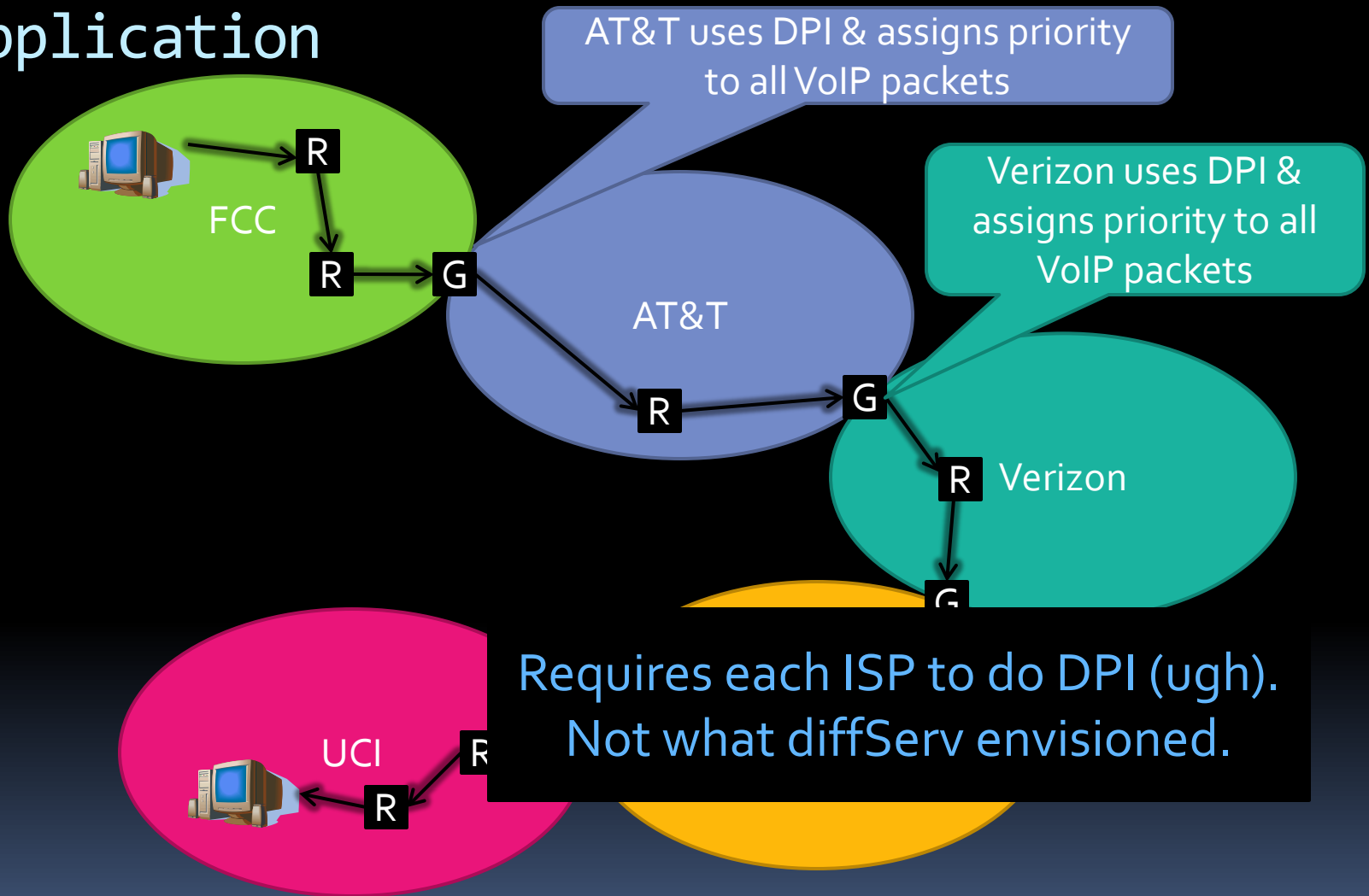
... if QoS is available widely to applications that require it ...



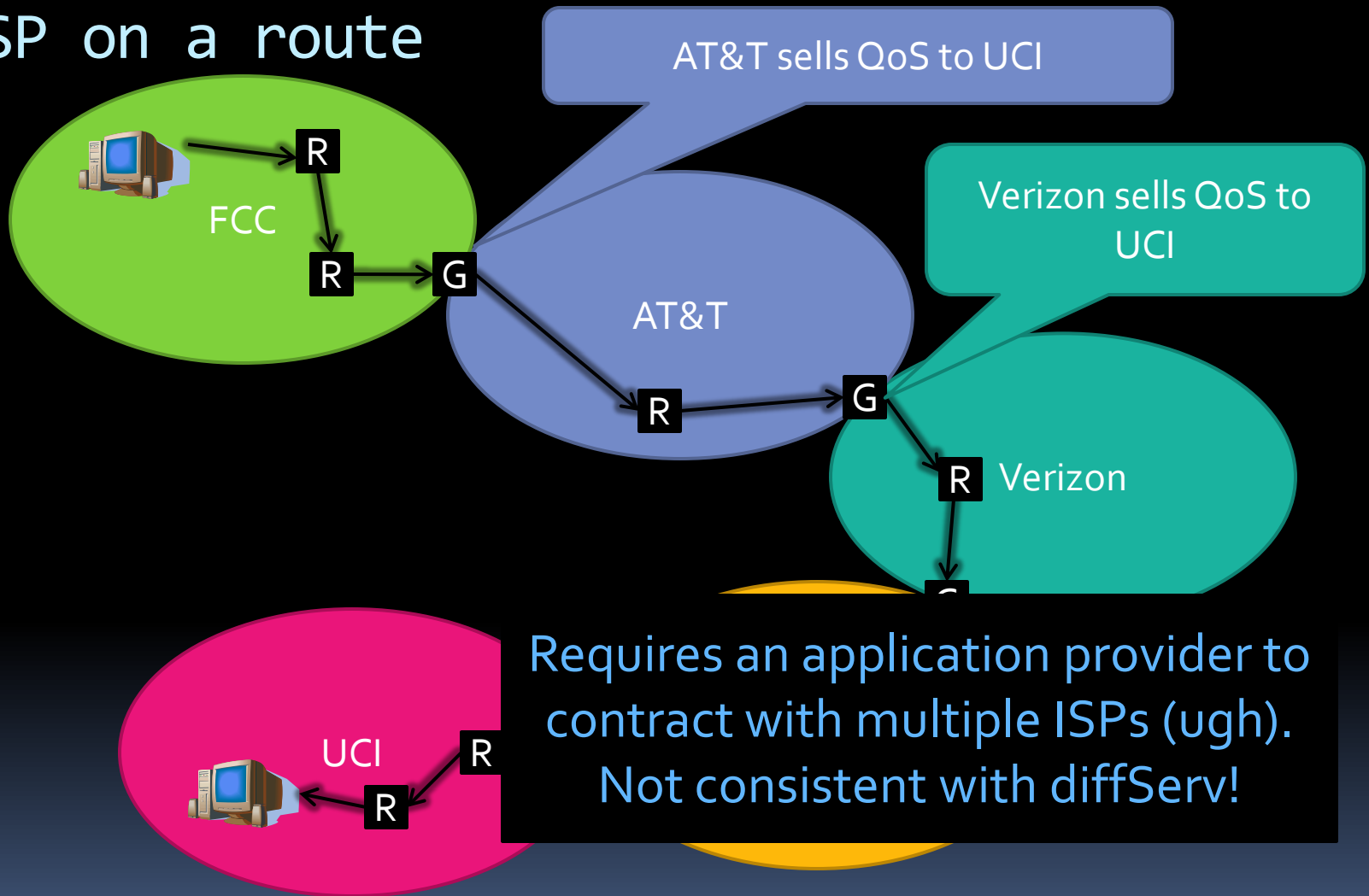
... and if QoS is available end-to-end !!



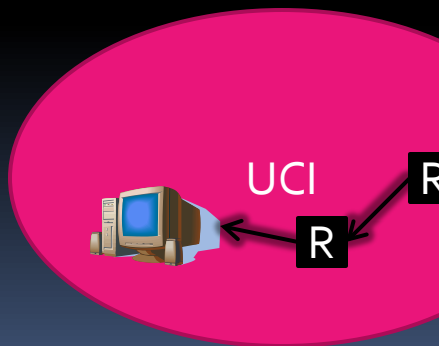
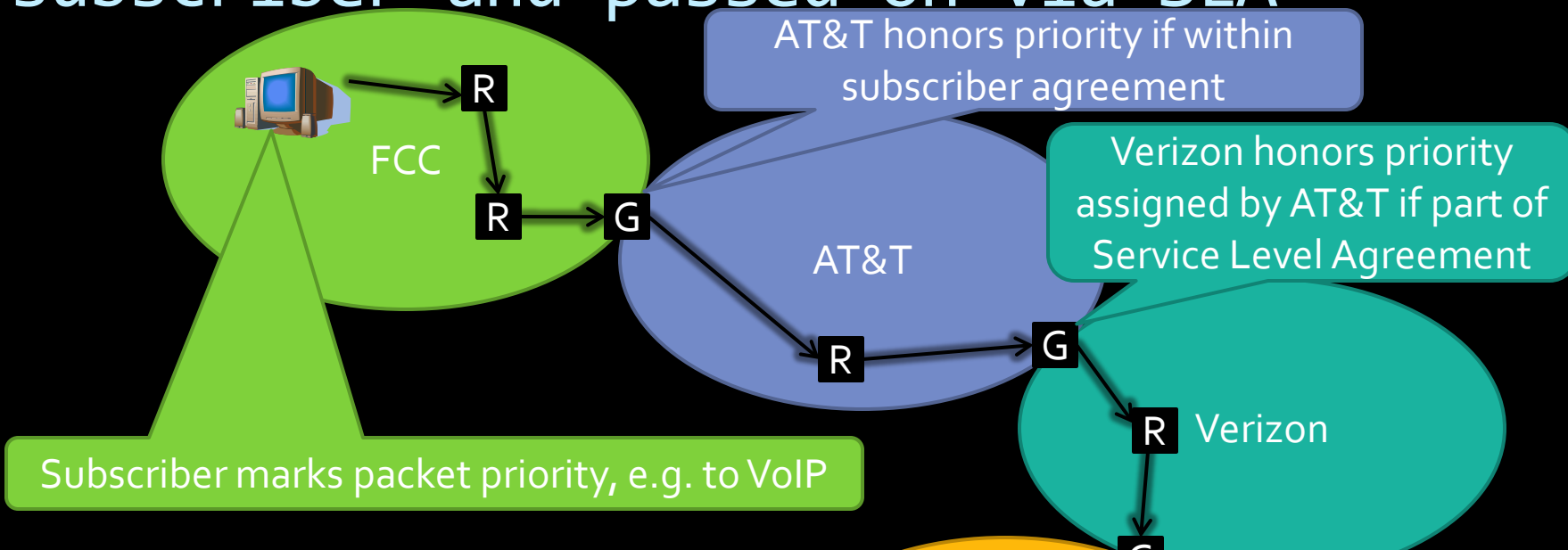
The wrong way: QoS based directly on application



The wrong way: QoS purchased from each ISP on a route

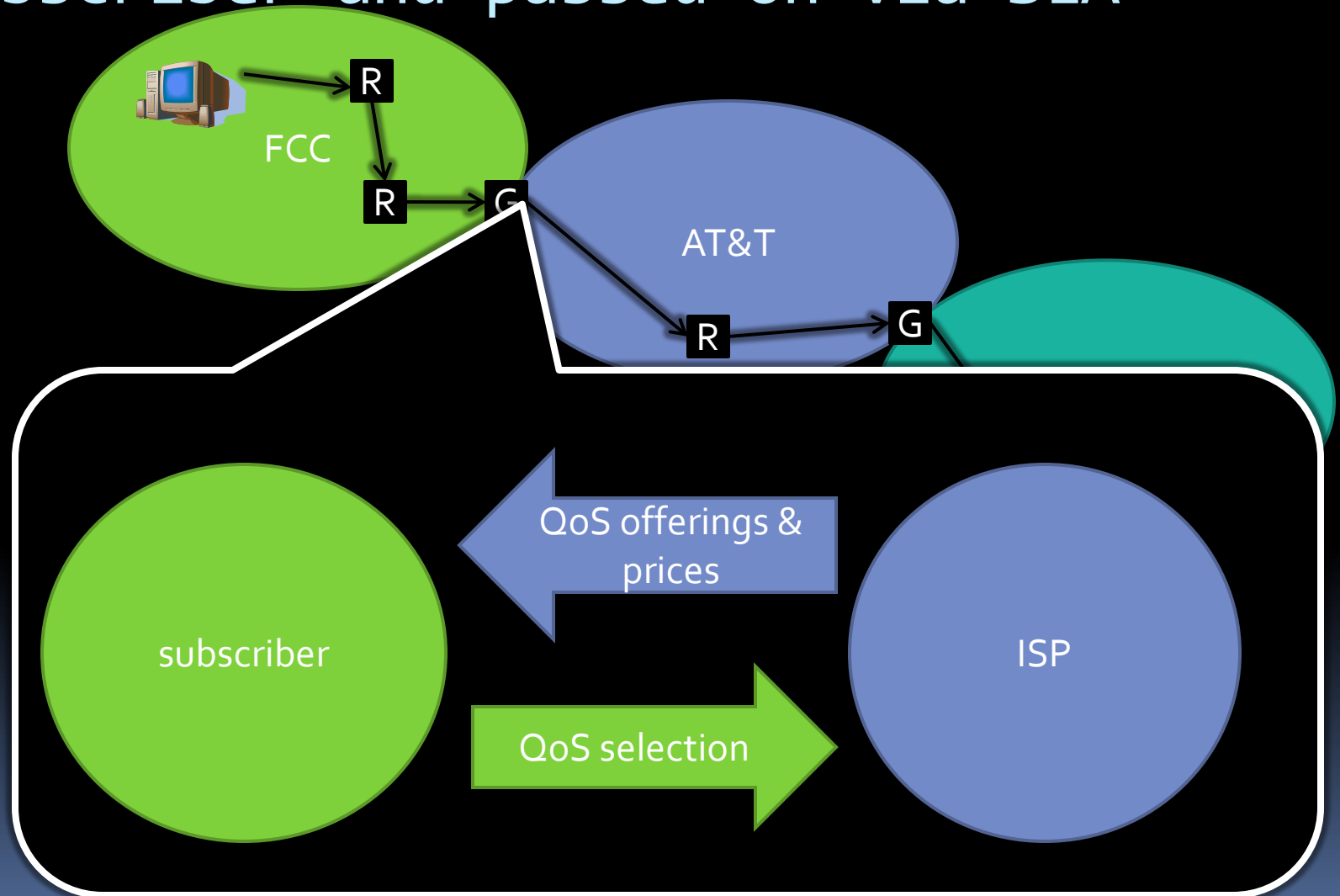


The right way: QoS purchased by subscriber and passed on via SLA

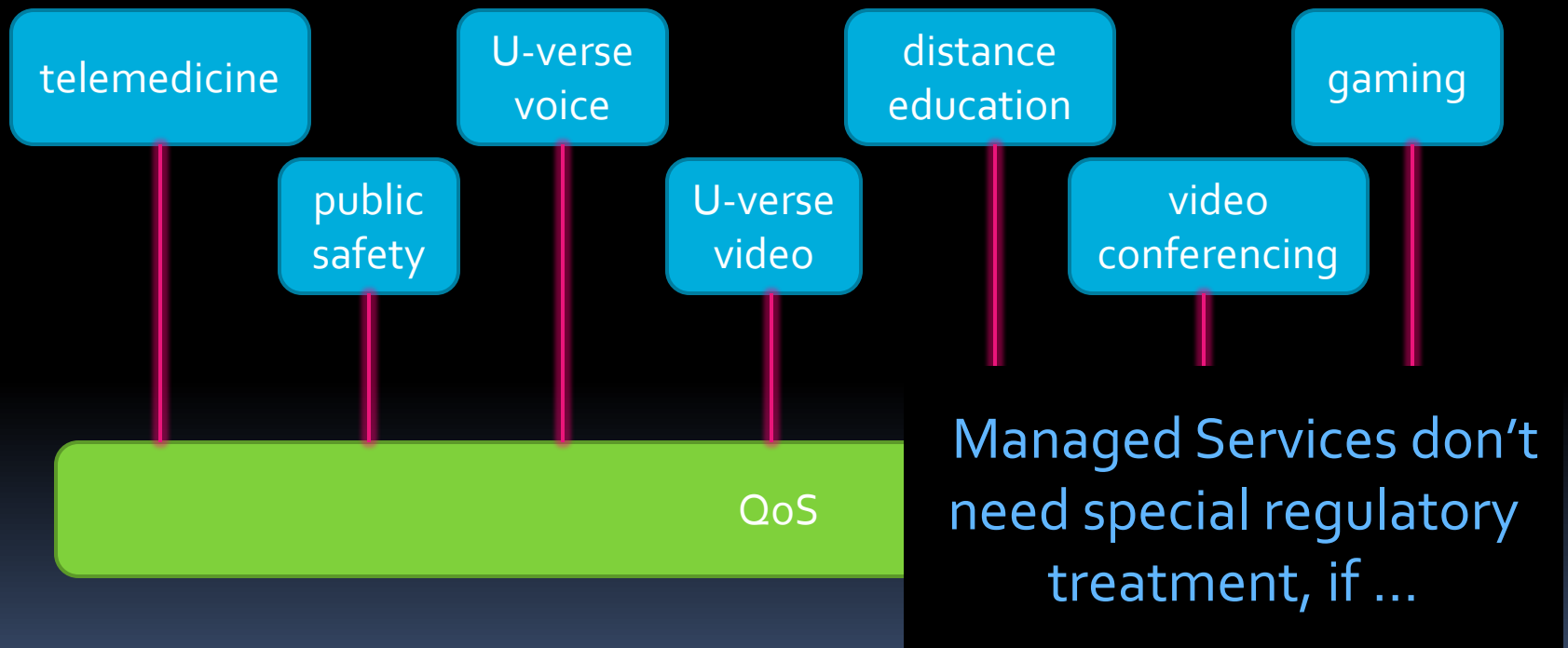


Differentiation, not Discrimination!
QoS available to all apps.
QoS available end-to-end.
This is the diffServ architecture!

The right way: QoS purchased by subscriber and passed on via SLA



“Managed Services” = applications that require QoS !



Net neutrality (defined)

If an ISP uses QoS for its own applications ...

... then it shall make QoS available on reasonable terms ...

... to subscribers (both residential and business) ...

... and to other ISPs.

Don't define "Managed Services" (futile endeavor) !

Restrict Non-discrimination requirements to lower layers, e.g. diffServ !