

# LIS-3353

## Mobile and “The Cloud”



# All this stuff... (ah, the 80's)





OLPC (and their cost, whoa) ->





# “Netbooks”





# PDAs (but this and a phone?)





# Blackberry





# Enter Apple

- Just got a lot of “human” details right...eventually:



# The First Apple Tablet





# MP3 Players?





# Ipod, et al.





# The PHONE



# Blackberry





# The iPhone

- (Darwin, POSIX Compliant, BSD derivative, now basically closed)





# Android. (Linux Kernel, Weird/Java OS)





# Nokia N900 (straight up Linux) (EEE?)





Looking forward.



# The “Cloud”



# The “Cloud”

Academically, meaningless:

Substitute either

1) The Internet (most common)

2) An Intranet

3) A Physical Server

And you have a more accurate term.



# The “Cloud”

Why the popularity?



# The “Cloud”

Why the popularity?

One theory – not because something new was happening for end-users...

After all, we had email and picture storage and file storage (XDrive)



# The Cloud

But there was new technology on the B2B front.

Pre-“Cloud” – all servers were “physical”

Post-“Cloud” – servers could be virtualized.



# Looking forward

Consider what shapes these things from here forward.

I propose 4 things.



# Looking forward

- Economics
- Code
- Etiquette
- Law



# Economics

- (anyone got a definition?)  
(interesting transition)



# Economics

“The study of how to satisfy unlimited needs with limited resources.”



# Economics

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# Code

Consider the extent to which decisions about “who has control” are built into the device and the instructions around them.

Corollary – and how often decisions about control can be “blamed” on the technology, whether true or not.



# Etiquette / “Politics”

Consider where the law doesn't go (perhaps because it doesn't have to?) – or where informal “law” makes itself.

(A lot of rule making is “anarchist,” or “making it up as we go along.”)



# Law

Which, clearly has a lot of catching up to do

Which, clearly is heavily ignored in a lot of ways.

But, which, ultimately will (hopefully) matter most.