

TWO OR THREE THINGS I DO NOT KNOW ABOUT A NEW NETWORK ARCHITECTURE

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Three possible ways to think about it

1. Virtualise the Internet
 1. Replace model of node/router with virtual router
 1. (router+switch->mpls)
 2. Replace model of link/path with virtual link/path
 1. Aggregation/multipath
2. Plutarch
 1. Polyglot networking
 2. Set of APIs for interworking at different levels
3. Dis-graphic
 1. Replace graph model of network with something else
 2. Field?



Dis-graphic model is useful because...

- Wireless networks are not graph
 - There's no "link" as a resource
 - There's no obvious node (c.f. CDMA, Network Coding, virtual forwarding etc)
 - See Cambridge/MIT work (Dina Katabi + Wenjun Hu)
- Given Mesh/ad hoc will be edge network for
 - both DSL and core wireless, and
 - same techniques work in P2P overlay =>
- we need this new model



Questions?

- Any?

