"SDN-hard" Problems

Technology

- Control Plane Scalability and Resilience
 - Logical Centralization
- Flow Setup Scalability and Performance
- Abstractions
 - Simple Switch/Programming Model
- Reasoning Systems
 - headerspace analysis, NPLs, network compilers, ...
- Operational Models
 - And how to you build/operate/debug these networks?

Sociology

- OF/SDN approach challenges much of our central dogma
- Not the least of which are
 - · Circuits vs. hop-by-hop forwarding
 - Centralized vs. Distributed Control Planes
- Physical vs. Virtual (edge?)
- Shift in influence bases from NetOps → DevOps

Economics

Well...