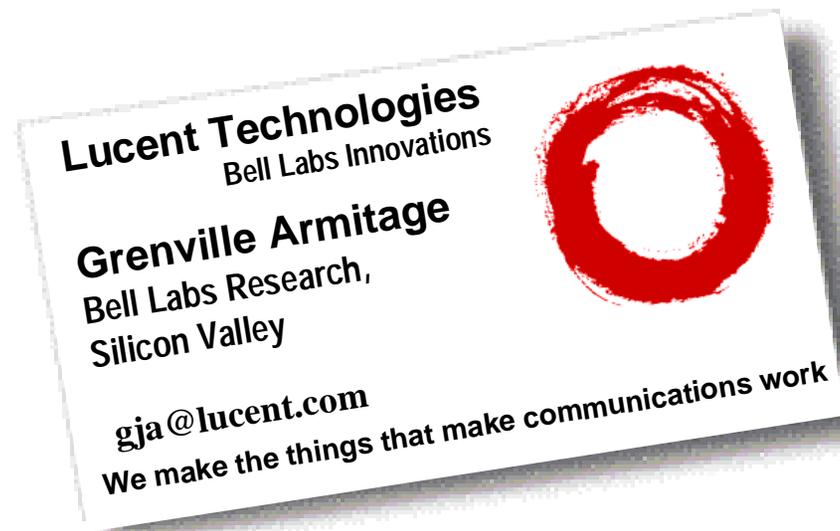


# ***MPLS: The Ultimate Solution?***

**For what?**



## ***What are we so excited about?***

- ❑ **Nethead-friendly ATM**
- ❑ **ATM-friendly 'net'**

**Connection-oriented forwarding controlled by  
'Internet' routing protocols**

– We all get a warm fuzzy feeling

- ❑ **Enabler of non-shortest path forwarding**
  - Traffic Engineering / QoS

## ***Bandwidth saves the day?***

- ❑ Avoid congestion with bigger pipes?**
- ❑ Oops, forgot about the ‘slow’ routers**
- ❑ Oops, someone else owns the facilities**
- ❑ Traffic Engineering will be valuable when**
  - you don’t own the latest optical facilities**
    - Not enough bandwidth to burn**
  - you don’t have the best routers/switches**
- ❑ VPNs need tunnels, not just bandwidth.....**

## **Traffic Engineering half done**

- **Being able to signal LSPs is only **half** the job**
  
- **There's still mathematical and operational 'magic' in deciding **what path** an LSP ought to take**
  - MPLS working group is not studying this aspect
  
- **So how well does your vendor understand the magic?**
  - This will dictate whether MPLS is the 'ultimate solution' or just another interesting toy.....