Who Am I

and why might you care?

Ted Faber

- TCP maintenance and minor modifications (TCPM) co-chair

- XCP implementation project

- Old burstiness-based congestion control thesis (DTW)

Deploying New Congestion Control

safe at any speed?

Congestion Control Goals:

- Primary Goal: keep the network usable
- Secondary Goal: use capacity efficiently

1989: Primary goal drives deployment
Today: Secondary goals drive

Backoff

Bad network decisions have a long lifetime
- Hard-wired NTP
- Linux firewalls
- TCP options mid-connection

Security patches
- Long-tailed adoption curves

Primary goals would drive

Proceeding

Motivation
- What's the case for accepting the risks?
- Better than overprovisioning?

Transparency
- Debugging Black Boxes too exciting
- Many smart people in the world

Testing
- Should be better
- Never perfect