Name-Based Sockets
To Simplify Application Development

Birds-Of-a-Feather Session
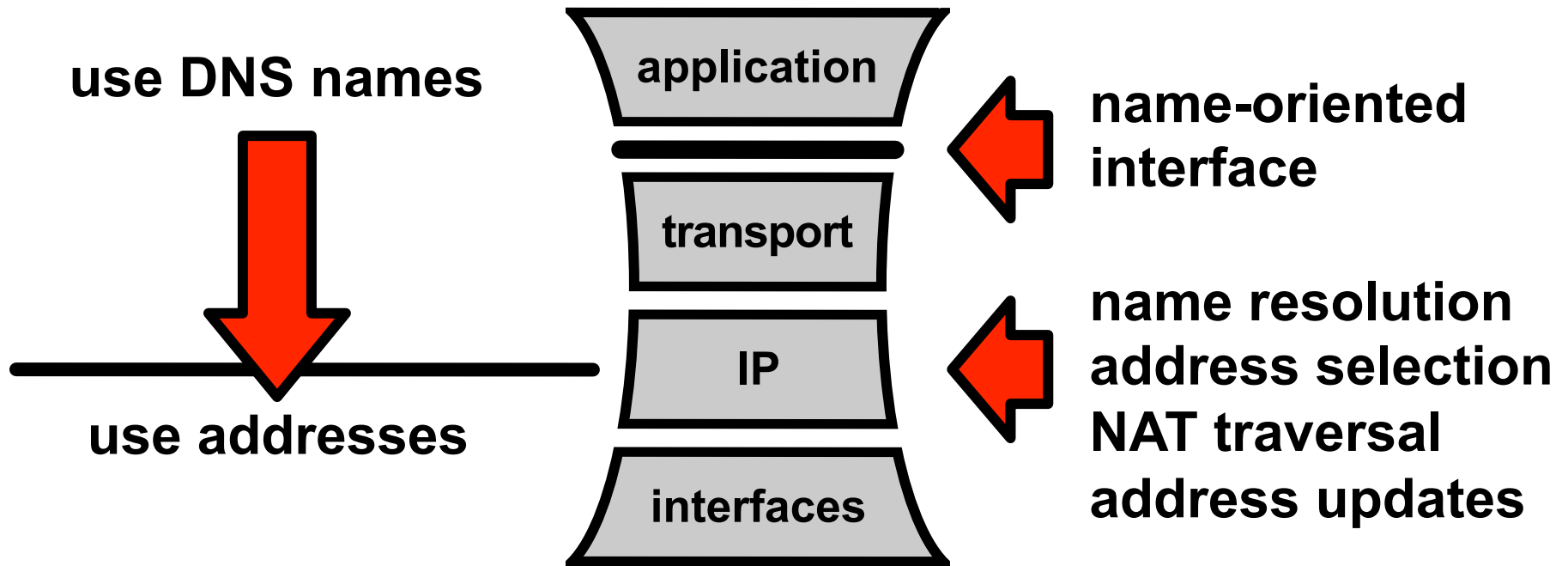
Ietf 79, Beijing

9:05	Motivation and Objectives Christian Vogt	10 min
9:15	Name-Based Networking David Thaler	15 min
9:30	Connect By Name in MacOS Stuart Cheshire	15 min
9:45	Candidate Solution Proposal Javier Ubillos	20 min
10:05	Prototype Demonstration Zhongxing Ming	5 min
10:20	DNS with Zero TTLs Saleem Bhatti	10 min
10:10	Referrals Brian Carpenter	10 min
10:30	API for Transparent Multicast Thomas Schmidt	5 min
10:35	Discussion	**until 11:30**

developing

Internet applications

should not involve

IP-level coding

NAME-ORIENTED SOCKETS:
HIDE IP FUNCTIONS FROM APPLICATIONS

use DNS names

application

name-oriented interface

transport

use addresses

IP

name resolution address selection NAT traversal address updates

interfaces

no new namespace — no new infrastructure — opt-in

Questions To Be Addressed Next

1. interest in community?

2. demand by application, operating system developers?

3. feasible to solve problem?

4. side effects, e.g., on DNS?

5. commitment potential?